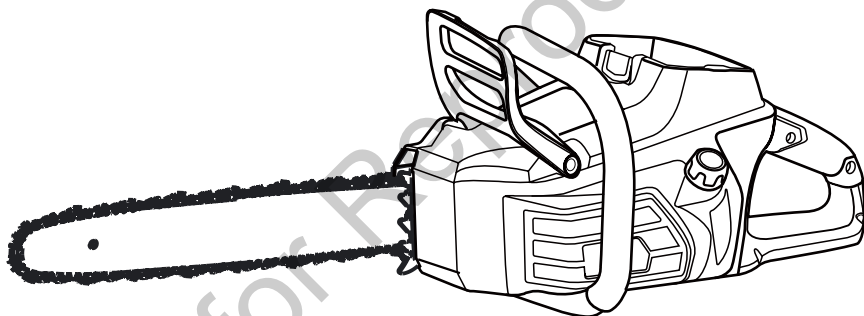




82V CORDLESS CHAIN SAW
1696773 (SXDCS82)



Owner's Manual

TOLL-FREE HELPLINE: 1-800-317-7833
www.snapper.com

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

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PRODUCT SPECIFICATIONS

82V CORDLESS CHAIN SAW

Type	Cordless, battery-powered
Motor	82V Brushless
Bar length	18" (458 mm)
Chain pitch.....	3/8 in. (9.5 mm)
Chain gauge.....	0.05 in. (1.27 mm)
Chain type.....	.91P062X
Guide bar type.....	180SDEA041
Chain oil tank capacity..	7 oz (200 ml)
Weight(Without battery) ..	11.6 lbs (5.4 kg)
Disclaimer:* Maximum initial battery voltage (measured without a workload) is 82volts.	
Normal voltage is 72.	

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

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. **Save all warnings and instructions for future reference.**

WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate Power tool 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.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose the power tool to rain or wet locations.** Water entering a chainsaw will increase the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a residual current device protected supply.** Use of an RCD reduce the risk of electric shock.
- **A battery-operated tool with internal batteries or a separate battery pack must be recharged only with the specified charger for the battery.** A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a chainsaw while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating chainsaws may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrenches before turning the power tool on.** A wrench or a key left attached to a rotating part of the chainsaw may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the chainsaw in unexpected situation.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

IMPORTANT SAFETY INSTRUCTIONS

POWER TOOL USE AND CARE

- **Do not force the Power tool. Use the correct chainsaw for your application.** The correct chainsaw will do the job better and safer at the rate for which it was designed.
- **Do not use the chainsaw if the switch does not turn it on and off.** Any chainsaw that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the battery pack 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.
- **Store idle chainsaws out of the reach of children and do not allow persons unfamiliar with the chainsaw or these instructions to operate the chainsaw.** Chainsaws are dangerous in the hands of untrained users.
- **Maintain chainsaws. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the chainsaw's operation.** If damaged, have the chainsaw repaired before use. Many accidents are caused by poorly maintained chainsaws.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the chainsaw, 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 chainsaw for operations different from those intended could result in a hazardous situation.

BATTERY USE AND CARE

- **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water.** If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

SERVICE

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

IMPORTANT SAFETY INSTRUCTIONS

CHAIN SAW SAFETY WARNINGS

- **Keep all parts of the body away from the saw chain when the chain saw is operation. Before you start the chain saw, make sure the saw chain is not contacting anything.** A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.
- **Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle.** Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done.
- **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 chainsaw “live” and could give the operator an electric shock.
- **Always use two hands when operating the chainsaw.**
- **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.**
- **Wear safety glasses and hearing protection. Further protective equipment for head, hands, legs and feet is recommended.** Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.
- **Do not operate a chain saw in a tree.** Operation of a chain saw while up in a tree may result in personal injury.
- **Always keep proper footing and operate the chain 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 chain saw.
- **When cutting a limb that is under tension be alert for spring back.** When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chain saw out of control.
- **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.
- **Carry the chain saw by the front handle with the chain saw switched off and away from your body. When transporting or storing the chain saw always fit the guide bar cover.** Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain.
- **Follow instructions for lubricating, chain tensioning and changing accessories.** Improperly tensioned or lubricated chain may either break or increase the chance for kickback.
- **Keep handles dry, clean, and free from oil and grease.** Greasy, oily handles are slippery causing loss of control.
- **Cut wood only. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting plastic, masonry or non-wood building materials.** Use of the chain saw for operations different than intended could result in a hazardous situation.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

When using an cordless chainsaw, basic safety precaution should always be followed to reduce the risk of fire, electric shock, and injury to persons.

⚠ WARNING (PROPOSITION 65)

This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

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.

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 wrong area.

IMPORTANT SAFETY INSTRUCTIONS

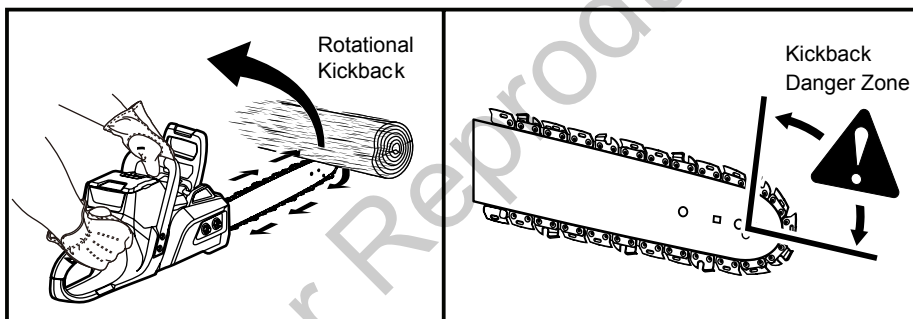
⚠ WARNING

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 chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury.

CAUSES AND OPERATOR PREVENTION OF KICKBACK

1. Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces.

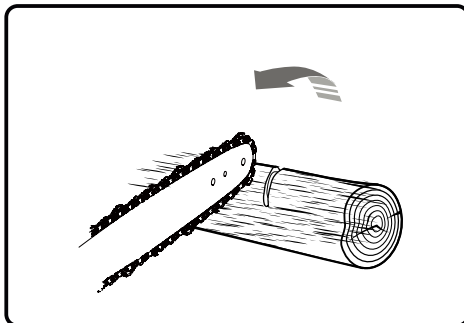
Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chain saw.



2. Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.

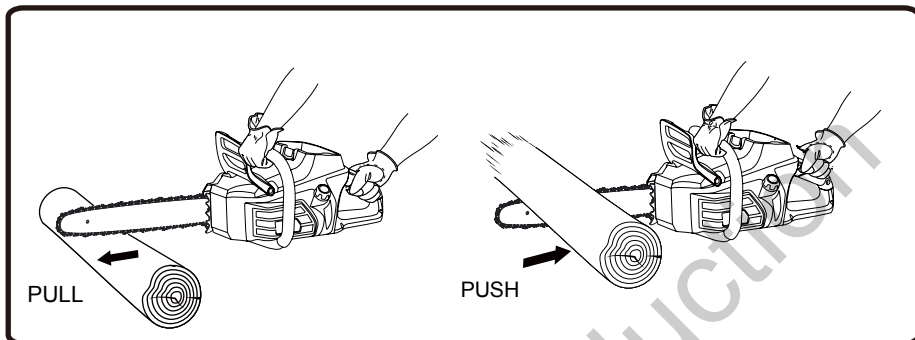
3. Only use replacement bars and chains specified by the manufacturer. Incorrect replacement bars and chains may cause chain breakage and/or kickback.

4. Follow the manufacturer's sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

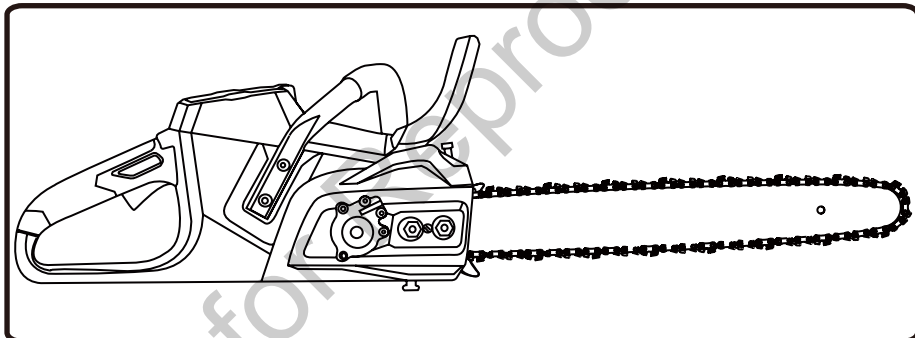


IMPORTANT SAFETY INSTRUCTIONS

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 CHAINSAW 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. When tested on the representative sample of chainsaws 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 better and safer.

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	Rotational speed, at no load
/ 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 instruction Manual	To reduce the risk of injury, user must read and understand the instruction manual before using this product
	Eye Protection	Wear eye protection when operating this equipment.
	Wear Ear Protection	Wear ear protection when operating this equipment.
	Gloves	Wear non-slip, heavy-duty protective gloves when handling the chainsaw and the blade
	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'(15m) away
	Class II Construction	Double-insulated construction
	Wet Conditions Alert	Do not expose to rain or use in damp locations

SYMBOLS

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

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(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

- Do 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 (1-800-317-7833) for assistance.

WARNING



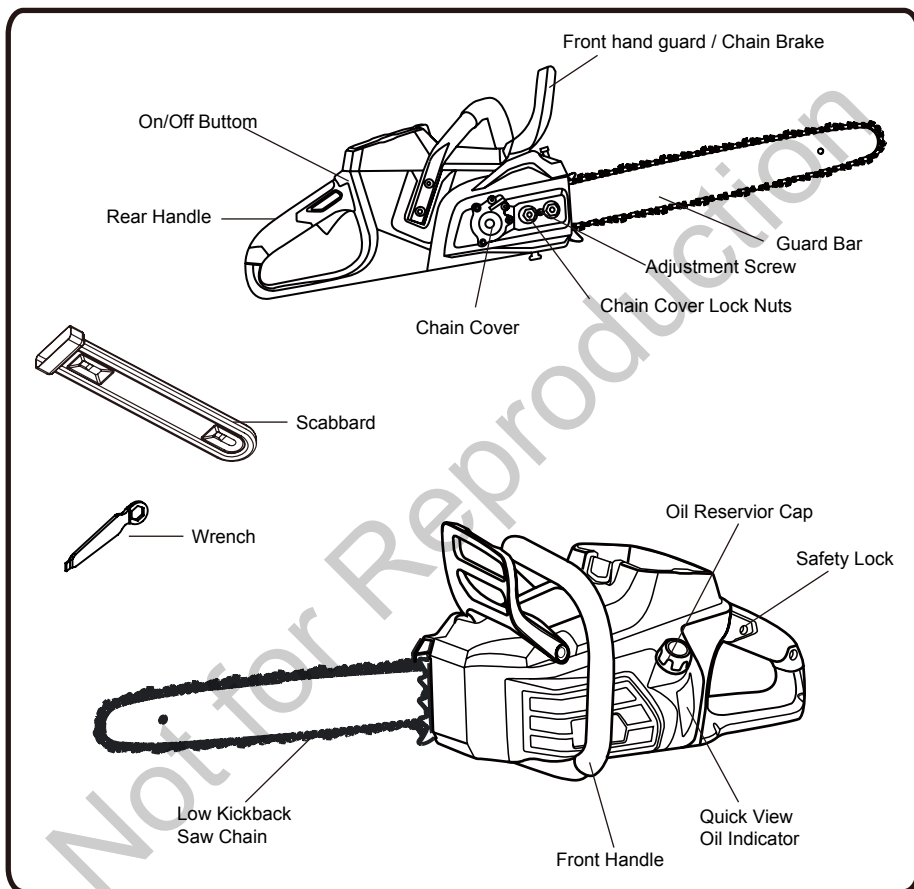
The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields or a full face shield. We recommend Wide Vision Safety Mask for use over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

SAVE THESE INSTRUCTIONS

KNOW YOUR CHAIN SAW

KNOW YOUR CHAIN SAW

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 and safety rules.



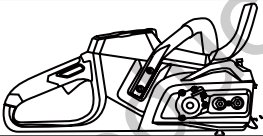
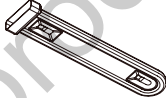



ASSEMBLY

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 1-800-317-7833 for assistance.

PACKING LIST

PART NAME	FIGURE	QTY
Chainsaw		1
Scabbard		1
Wrench - 13mm (located inside rear handle)		1
18" Bar and Chain		1
Operator's manual		1

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.

WARNING

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

ASSEMBLY

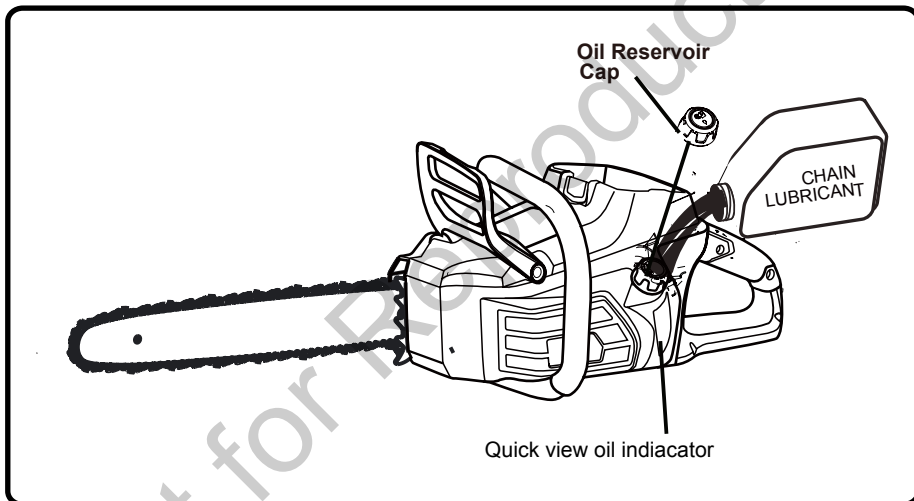
⚠ WARNING

Do not insert the battery until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

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.

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.

ASSEMBLY

BATTERY

▲ IMPORTANT

The battery pack is not charged when it is purchased. Before using the chain saw for the first time, place the battery pack in the battery charger and charge it fully. Be sure to read all safety precautions, and follow the instructions in the section entitled Charging Procedure. With regular use, the battery will require shorter charging times. 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 pack for at least a full charging period. This product has no memory effect.

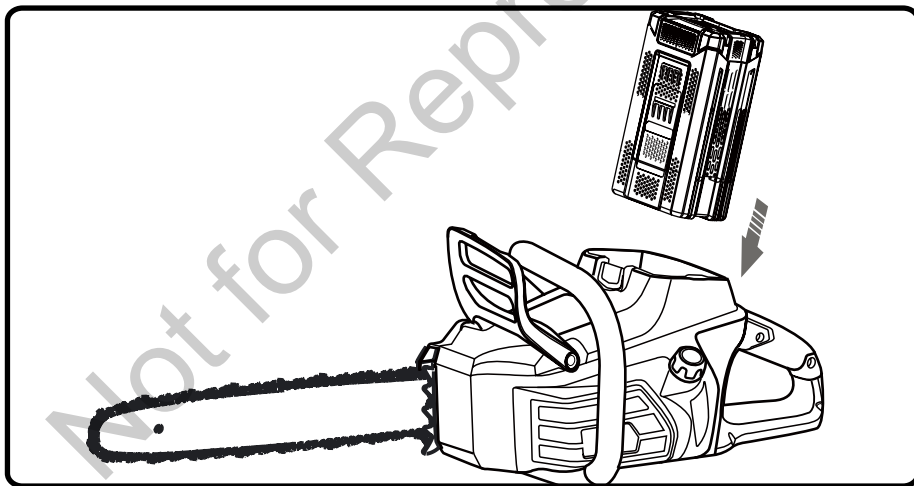
TO INSTALL THE BATTERY:

1. Align the battery pack (3) with the battery compartment on the chain saw.
 2. Grasp the chain saw (2) firmly.
 3. Push the battery pack into the battery compartment until the latch locks into place.
 4. You should hear a "click" once the battery is installed.
-

▲ IMPORTANT

This Lithium-ion battery pack is equipped with an internal circuit breaker which will automatically shut off the power to the tool if overloaded.

If this occurs, release the trigger to reset the internal circuit breaker.



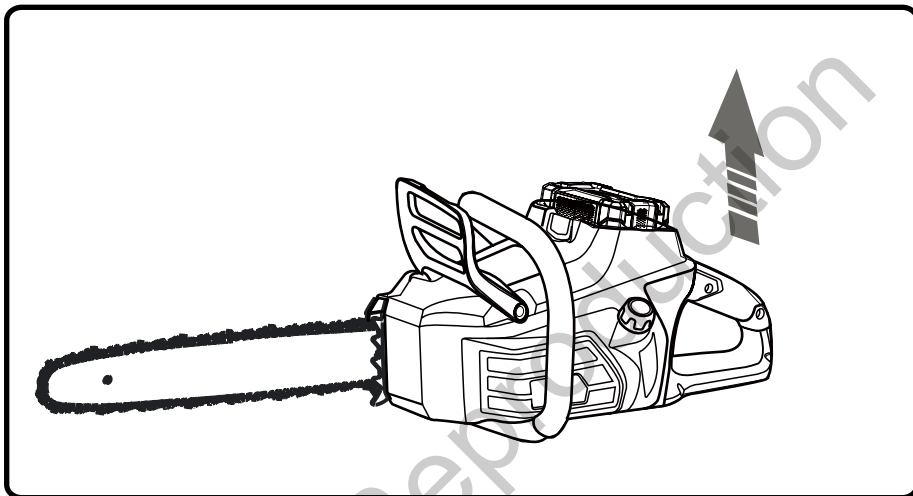
▲ IMPORTANT

- Make sure the chain brake is not engaged;
 - Pull back on chain brake guard;
 - Press the O/I button to turn the unit on;
-

ASSEMBLY

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.



⚠ 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

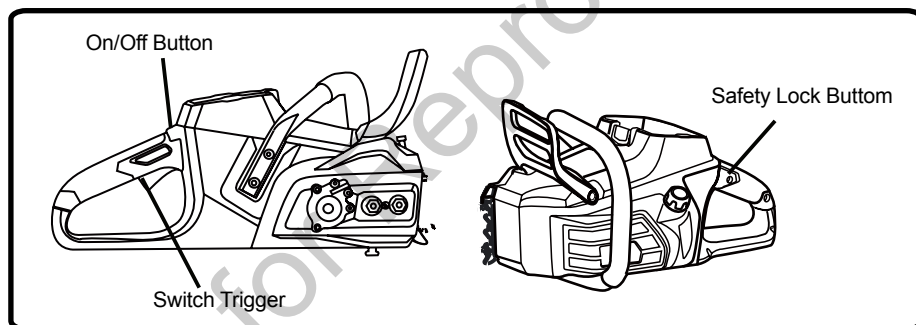
STARTING AND STOPPING THE CHAIN SAW

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 the power button on the left of the rear handle. You will hear two beeps signalling the chain saw is active.
- 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 switch trigger to stop the chain saw.
- 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

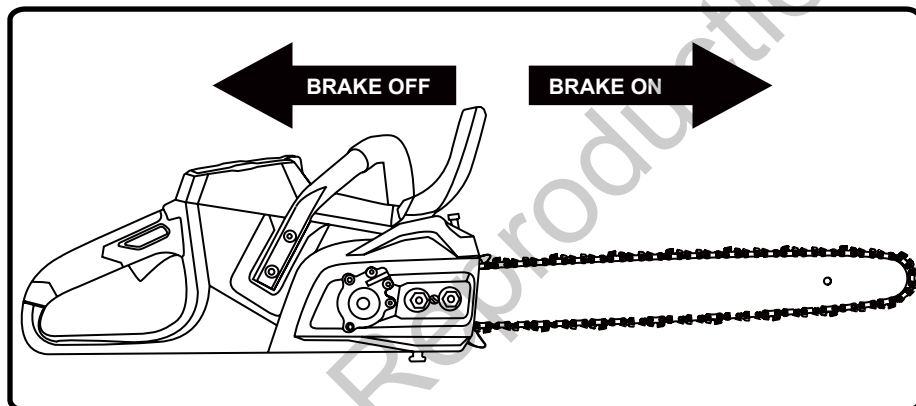
OPERATING THE CHAIN BRAKE

Check the operating condition of the chain brake prior to each use.

- Engage the chain brake by rotating your left wrist towards the guard, allowing the back of your hand to engage the brake while the chain is rotating. Be sure to maintain both hands on the saw handles at all times.

⚠ WARNING

If the chain brake does not stop the chain immediately, or if the chain brake will not stay in the run position without assistance, take the saw to an authorized service center for repair prior to use.



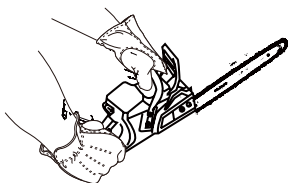
OPERATION

PREPARING FOR CUTTING PROPER GRIP ON HANDLES

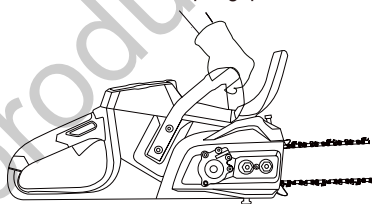
See General Safety Rules for appropriate safety equipment.

- 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 should be 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.

Proper hand grip position



Proper grip



⚠ WARNING

DO NOT operate the switch trigger 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

Chain line →



Improper grip



OPERATION

PROPER CUTTING STANCE

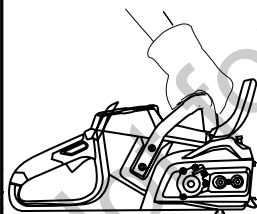
- Balance your weight with both feet on solid ground.
- Keep left arm with elbow locked in a “straight arm” position to withstand any kickback force.
- Keep your body to the left of the chain line.
- Keep your thumb on underside of front handle.

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.

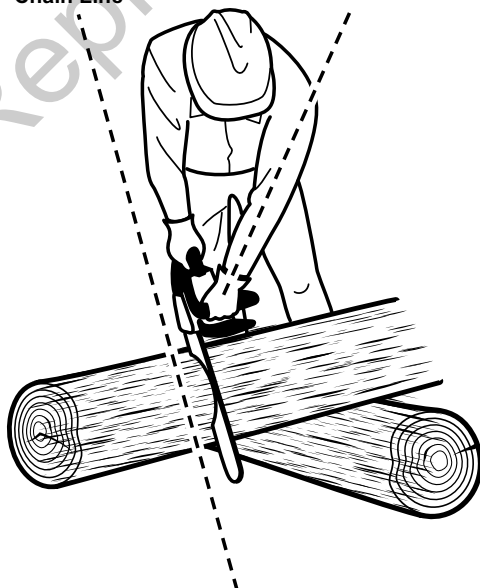
- Take the proper stance in front of the wood.
- Press the safety lock and squeeze the trigger switch then release the safety lock and let the chain accelerate to full speed before entering the cut.
- Begin cutting with the saw against the log.
- Keep the unit running the entire time you are cutting, 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.

**THUMB ON
UNDERSIDE OF
HANDLE BAR**



Chain Line

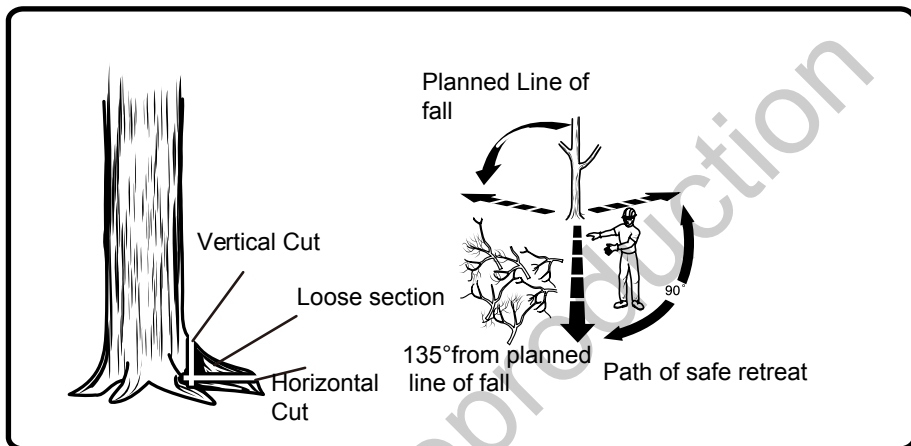
Straight Arm



OPERATION

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.

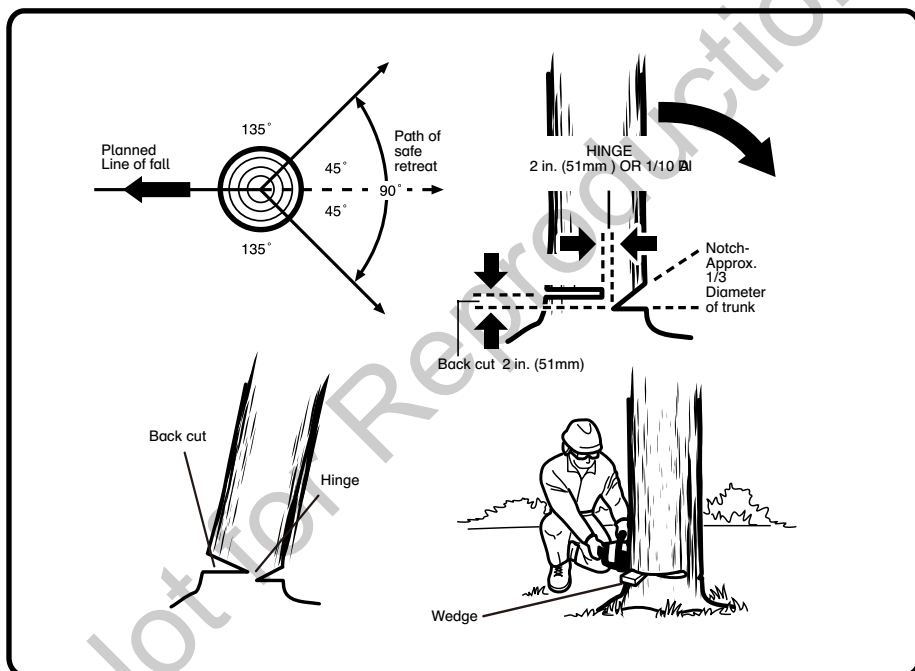


PROPER PROCEDURE FOR TREE FELLING

- 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.

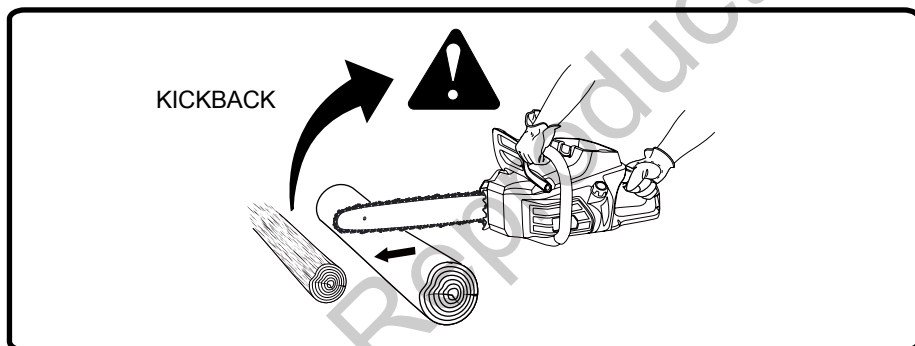


OPERATION

BUCKING

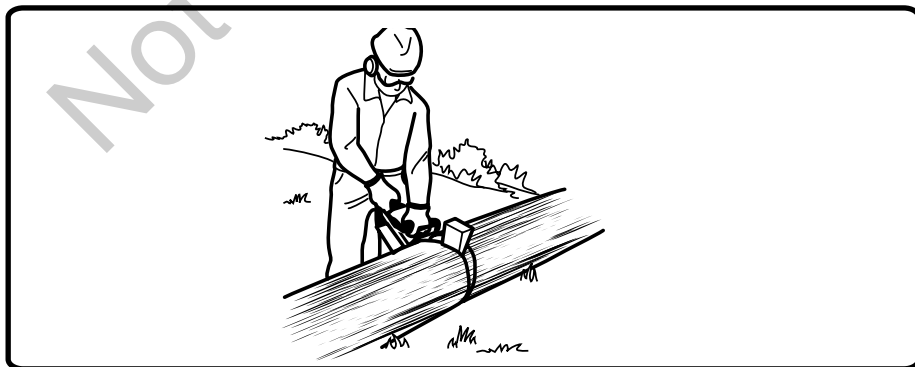
Bucking is the term used for cutting a fallen tree to the desired log length.

- 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

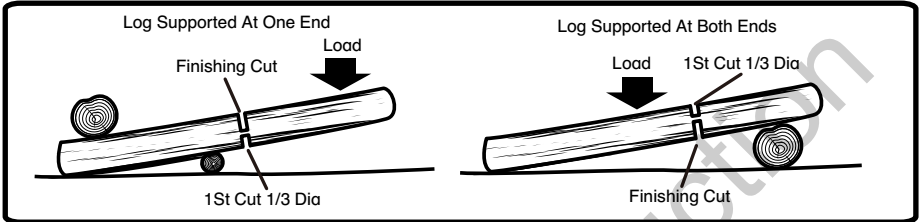
If the wood diameter is large enough for you to insert a soft bucking wedge without touching the chain, you should use the wedge to hold the cut open to prevent pinching.



OPERATION

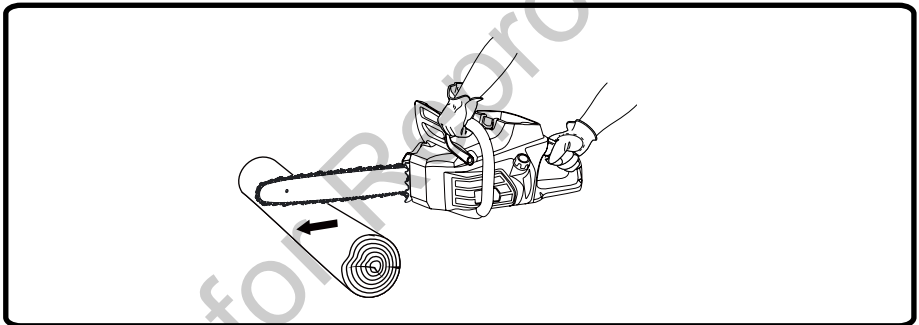
BUCKING LOGS UNDER STRESS

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.



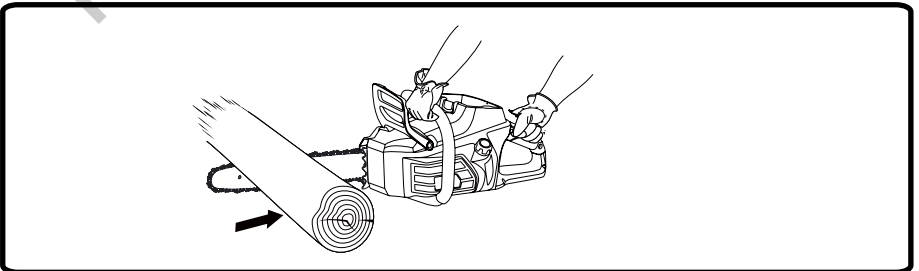
OVERBUCKING

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

LIMBING

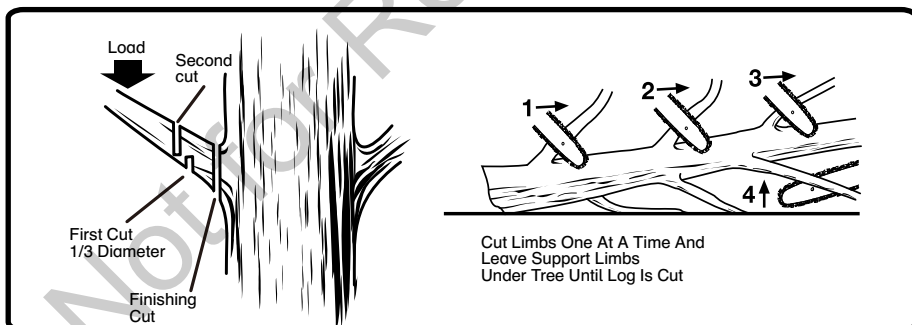
Limbing is removing branches from a fallen tree.

- 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.

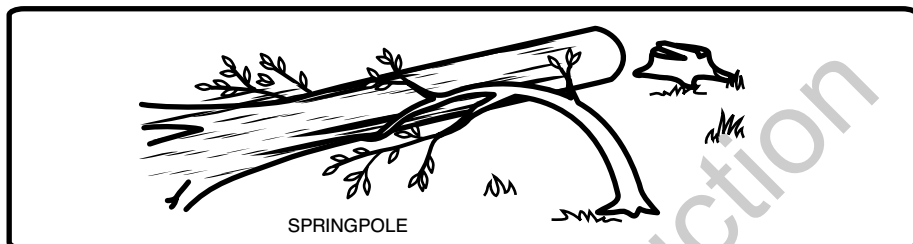
- Work slowly, keeping both hands on the chain saw with a firm grip. Always make sure your footing is secure and your weight is distributed evenly on both feet.
- Do not cut from a ladder. This is extremely dangerous. Leave this operation for professionals.
- Do not cut above chest height as a saw held 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

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.



⚠ WARNING

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

⚠ 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.

BATTERY & CHARGER MAINTENANCE

CHARGING PROCEDURE

NOTE: *The battery is not shipped fully charged. It is recommended to fully charge before first use to ensure that maximum run time can be achieved. This lithium-ion battery will not develop a memory and may be charged at any time.*

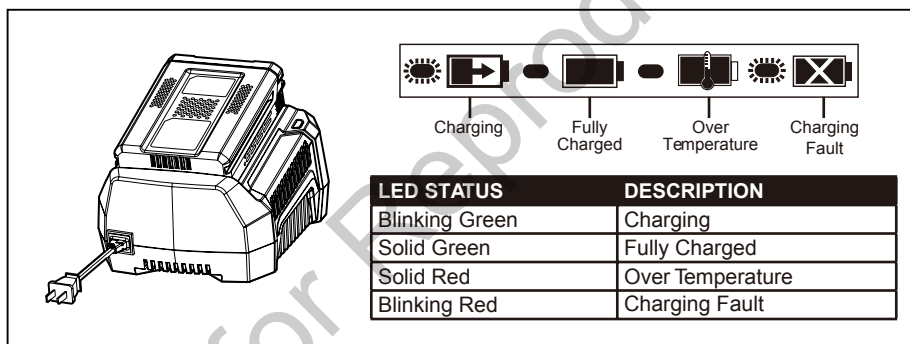
Low voltage charging:

If the battery has been stored with little to no charge for a long period of time, the charger will go into recovery mode, which will take 20 hrs to fully charge the battery. This will enhance the life of the battery. Once it is fully charged, the next charge will return to standard charging.

A fully discharged battery pack will require the allotted time as stated in the battery manual.

- Plug the charger into an AC power outlet.
- Insert the battery into the charger.

This is a diagnostic charger. The Charger LED Lights will illuminate in specific order to communicate the current battery status. They are as follows:



False defect note:

When the battery is inserted into the charger and the status LED blinks RED, remove the battery from the charger for 1 minute, then reinsert. If the status LED blinks GREEN, then the battery is properly charging. If the status LED is still blinking RED, remove the battery and unplug the charger for 1 minute.

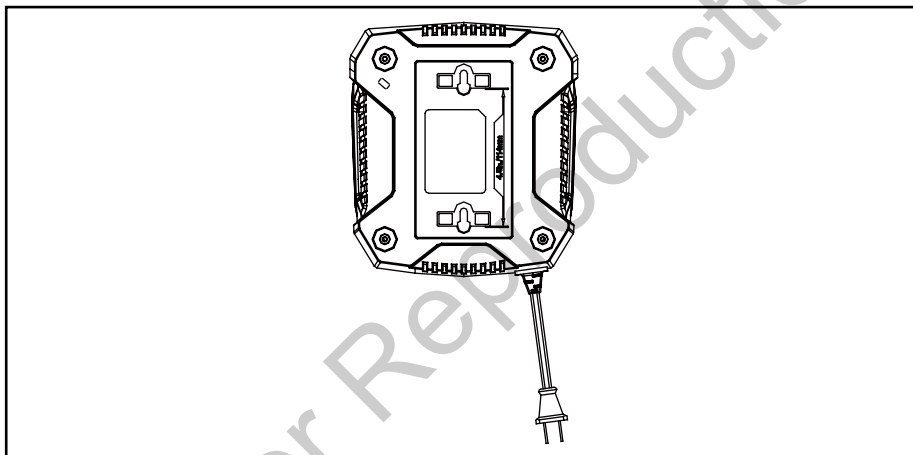
After 1 minute, plug in the charger and reinsert the battery. If the status LED blinks GREEN, then the battery is properly charging. If the status LED is still blinking RED, the battery is defective and needs to be replaced.

BATTERY & CHARGER MAINTENANCE

CHARGER MOUNTING

1. This charger can be installed hanging on a wall using two #8 screws (not included).
2. Locate the placement for the charger to be wall mounted.
3. If fastening to wood studs use 2 wood screws (not included).
4. Drill two holes 4.5 in. apart ensuring that they are vertically aligned.
5. If fastening to drywall use wall anchors (not included) and screws to secure the charger to the wall.

NOTE: *If the battery and the charger won't be used for a long time, please remove the battery from the charger and pull out the AC power plug.*



MAINTENANCE

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.

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.

REPLACING THE GUIDE BAR AND CHAIN

DANGER

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

WARNING

To avoid serious personal injury, read and understand all the safety instructions in this section.

WARNING

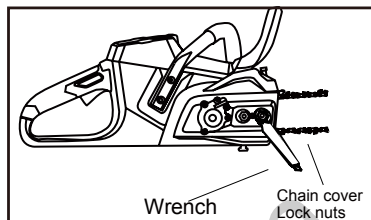
Before performing any maintenance, make sure the battery is removed. Failure to heed this warning could result in serious personal injury.

CAUTION

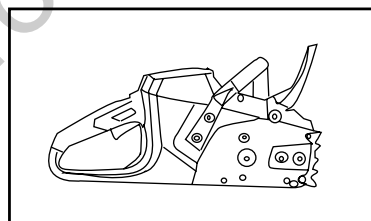
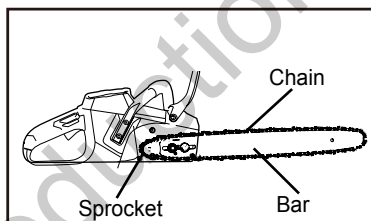
Always wear gloves when handling the bar and chain; these components are sharp and may contain burrs.

MAINTENANCE

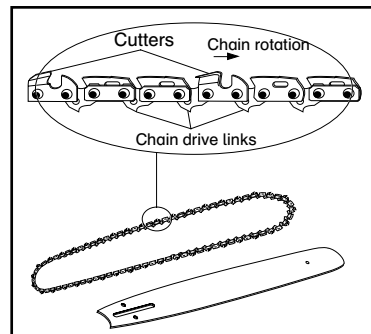
- Remove the battery from the chain saw.
- Remove the supplied wrench from the rear handle.
- Remove the two chain cover lock nuts from the chain cover by rotating them counterclockwise with the wrench.



- Remove the chain cover from the mounting surface.
- The bar and chain can now be removed by lifting it away from the main body of the saw and releasing the chain from the sprocket.
- Remove the old chain from the bar.



- 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.



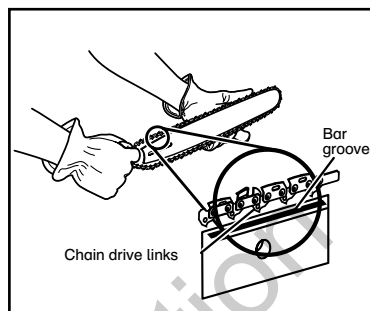
MAINTENANCE

NOTE: Make certain of direction of the chain.

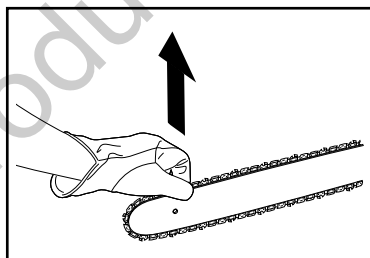
- Position the chain so there is a loop at the back of the bar.
- Hold the chain in position on the bar and place the loop around the sprocket.
- fit the bar flush against the mounting surface so that the bar studs are in the long slot of the bar. Ensure that the chain is over the sprocket.

NOTE: When placing the bar on the bar studs, ensure that the adjusting pin is in the chain tension pin hole.

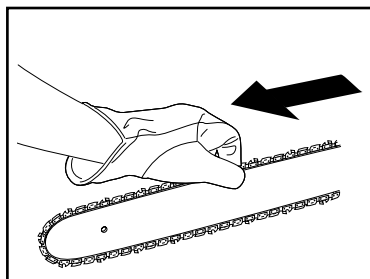
- Replace the chain cover.
- Remove all slack from the chain by turning the chain adjustment screw clockwise until the chain seats snugly against the bar with the drive links in the bar groove.



- Lift the tip of the guide bar up to check for sag.
- Release the tip of the guide bar and turn the chain adjustment screw 1/2 turn clockwise. Repeat this process until sag does not exist.
- Hold the tip of the guide bar up and tighten the chain cover lock nuts by turning them with the wrench.
- The chain is correctly tensioned when there is no sag on the underside of the guide bar, the chain is snug, but it can be turned by hand without binding.



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



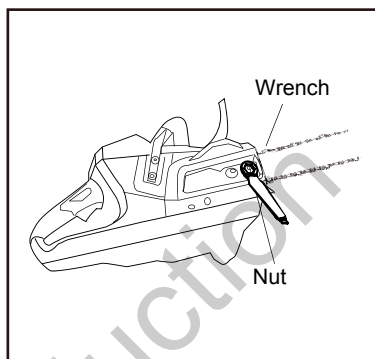
MAINTENANCE

ADJUSTING THE CHAIN TENSION

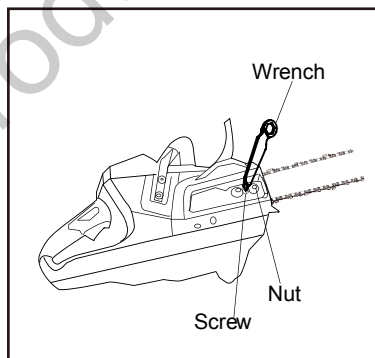
⚠ WARNING

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

- Loosen the chain cover lock nuts with the supplied wrench. The chain cover lock nuts do not have to be completely removed in order to adjust the chain tension.

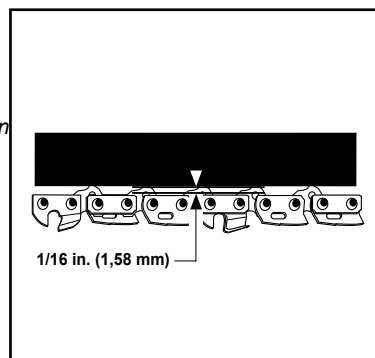


- Rotate the chain adjustment screw clockwise to increase the chain tension and rotate counterclockwise to decrease the chain tension.
- Once the chain is at the desired tension, tighten the chain cover lock nuts.



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. (1,58 mm) out of the bar groove.

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

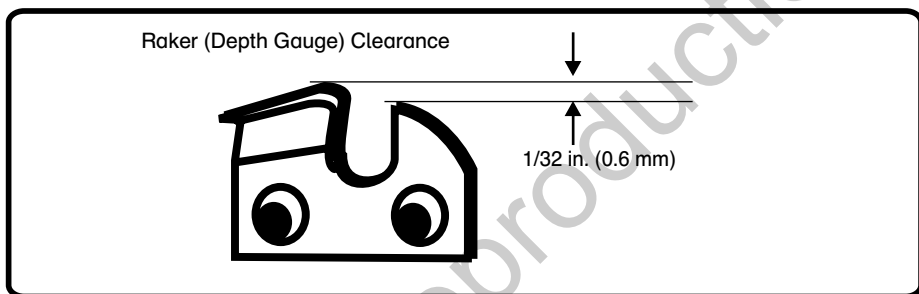


MAINTENANCE

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.



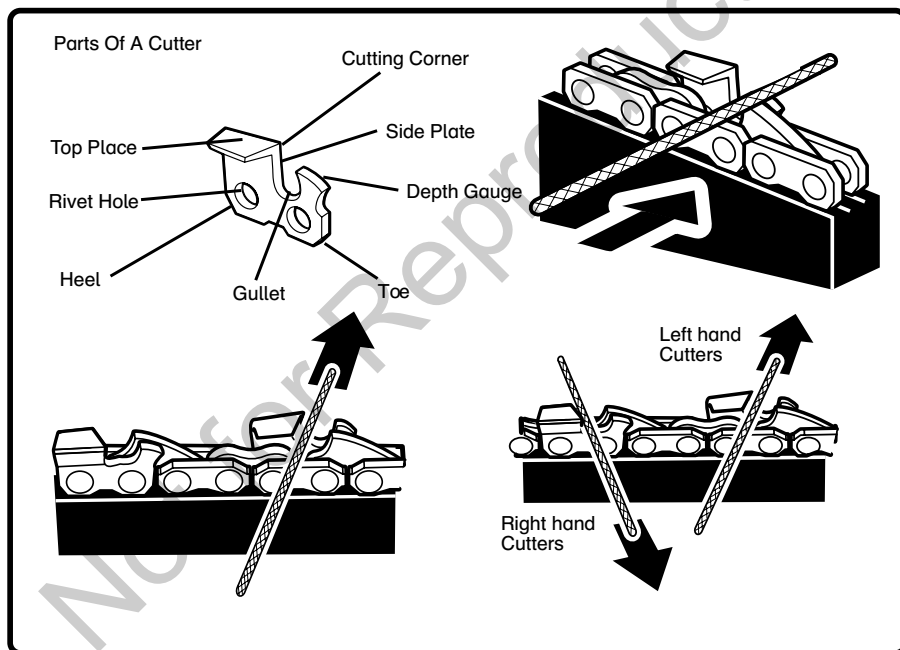
NOTE:

- *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.



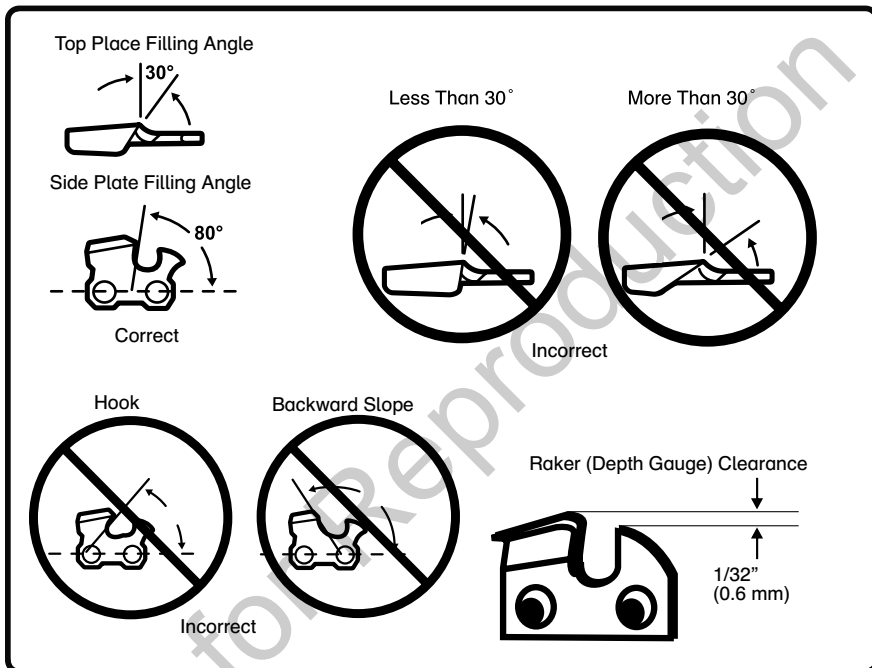
⚠ WARNING

- 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.



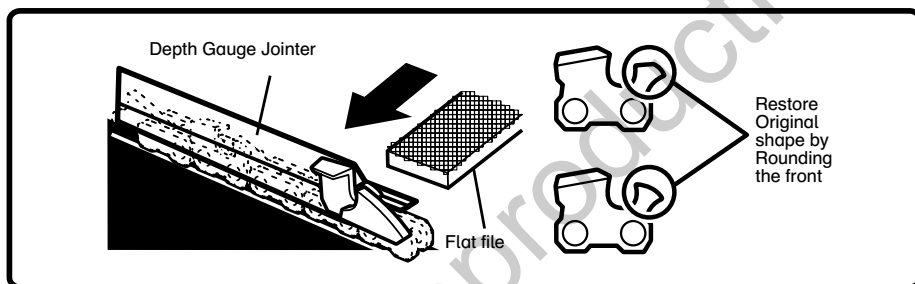
SIDE PLATE ANGLE

- **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.



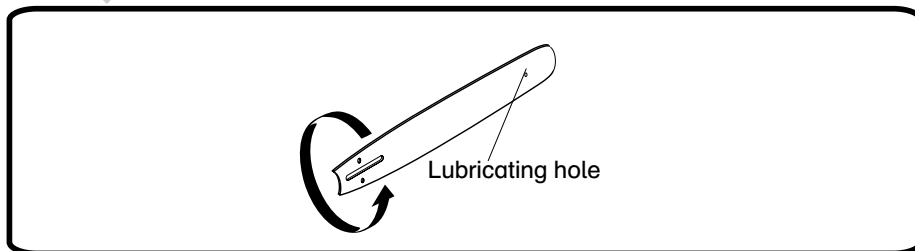
MAINTAINING THE GUIDE BAR

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:

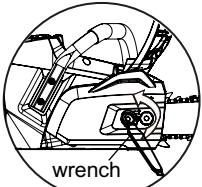
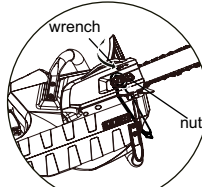
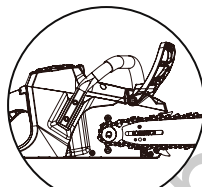
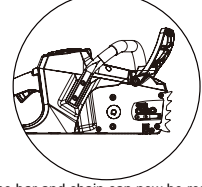
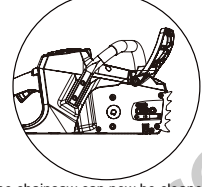
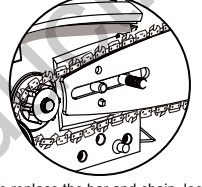
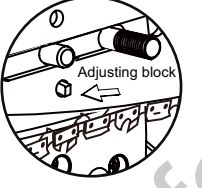
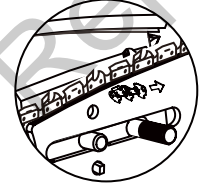
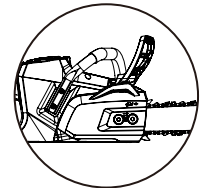
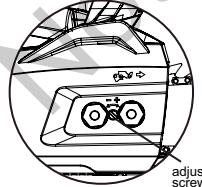
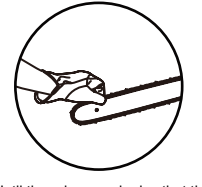
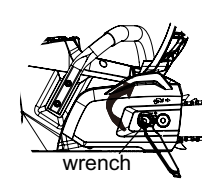
- Wear inside the bar rails that permits the chain to lay over sideways
- Bent guide bar
- Cracked or broken rails
- Spread rails

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.



MAINTENANCE

QUICK REFERENCE OF CHAIN&BAR ASSEMBLY (CHAIN TENSION)

 <p>1. To remove the chain cover, loosen the two chain cover lock nuts by turning them counterclockwise with the supplied wrench.</p>	 <p>2. Then loosen the adjustment screw 2 or 3 turns.</p>	 <p>3. Now totally remove the chain cover lock nuts and remove the chain cover.</p>
 <p>4. The bar and chain can now be removed by lifting it away from the main body of the saw and releasing the chain from the drive pulley.</p>	 <p>5. The chainsaw can now be cleaned with a brush and or rag to remove sawdust and oil.</p>	 <p>6. To replace the bar and chain, loop the chain over the drive pulley and place the bar against the center alignment groove.</p>
 <p>7. Ensure that the adjusting block is located in the tensioning hole on the chain bar.</p>	 <p>8. And that the rubber block and chain bar are free from oil, as this helps to keep tension on the chain.</p>	 <p>9. Replace the chain cover and chain cover lock nuts knob, but do not tighten.</p>
 <p>10. Turn the adjustment screw Clockwise to tighten the chain.</p>	 <p>11. Until there is enough play that the chain can be pulled away from the bar, but not so much that the runners can be pulled out of the bar.</p>	 <p>12. Once you have the correct tension, fully tighten the chain cover lock nuts.</p>

NOTE:

- Chains stretch with use, check and tension often.
- Never tension a warm chain before storing, as chains shrink when cool, this can damage chain, bar and saw.

ENVIRONMENTALLY SAFE BATTERY DISPOSAL

The following toxic and corrosive materials are in the batteries used in this chainsaw battery pack: **Lithium-Ion, a toxic material.**



⚠ WARNING

All toxic materials must be disposed of in a specified manner 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 centre, certified for lithium-ion disposal.

⚠ WARNING

If the battery pack cracks or breaks, with or without leaks, do not recharge it and do not use. Dispose of it and replace with a new battery pack. **DO NOT ATTEMPT TO REPAIR IT!** To avoid injury and risk of fire, explosion, or electric shock, 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 battery pack components.
 - DO NOT attempt to open the battery pack.
 - If a leak develops, the released electrolytes are corrosive and toxic. DO NOT get the solution in the eyes or on skin, and do not swallow it.
 - DO NOT place these batteries in your regular household trash.
 - DO NOT incinerate.
 - DO NOT place them where they will become part of any waste landfill or municipal solid waste stream.
 - Take them to a certified recycling or disposal centre.
-

TROUBLESHOOTING

PROBLEM	POSSIBLE	SOLUTION
Bar and chain running hot and smoking.	Check chain tension for overtightened condition.	Loosen the chain if it is too tight. Refer to Adjusting the Chain Tension earlier in this manual.
	Chain oil tank empty.	Check oil tank.
motor runs, but chain is not rotating.	Chain tension too tight.	Refer to Chain Tension Guide earlier in this manual.
	Check guide bar and chain assembly.	Refer to Replacing the Bar and Chain earlier in this manual.
	Check guide bar and chain for damage.	Remove battery, after removing the battery from chainsaw, take off the side cover by removing the chain cover has been removed, remove the bar and chain. Before inserting the battery pack into the unit with the bolt and chain removed. Clean all the debris from the side of the saw. After all is cleaned, insert battery and run the chainsaw. If the sprocket is spinning your motor is OK. If the sprocket is not spinning call customer service at 1-800-317-7833.
Motor runs, chain rotates but does not cut.	Dull chain.	Sharpen chain.
	Chain on backwards.	Reverse direction of chain.
Chainsaw does not start.	Battery is not charged.	Place battery in to the charge and allow charging up to 1 hour (2Ah)
	Switch is defective.	Call our customer service number at 1-800-317-7833 for a service dealer or replacement parts.

LIMITED WARRANTY

Briggs & Stratton warrants that, during the warranty period specified below, it will repair or replace, free of charge, any part that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for and is subject to the time periods and conditions stated below. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at www.SNAPPER.com. The purchaser must contact the Authorized Service Dealer, and then make the product available to the Authorized Service Dealer for inspection and testing.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the warranty period listed below, or to the extent permitted by law. Liability for incidental or consequential damages are excluded to the extent exclusion is permitted by law. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or country to country.**.

WARRANTY PERIOD

	Consumer Use	Commercial Use
Equipment	60 months	90 days
Battery and Battery Charger	24 months	none

** In Australia - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at BRIGGSandSTRATTON.COM, or by calling 1300 274 447, or by emailing or writing to salesenquires@briggsandstratton.com.au, Briggs & Stratton Australia Pty Ltd, 1 Moorebank Avenue, NSW, Australia, 2170.

The warranty period begins on the date of purchase by the first retail or commercial consumer. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once a product has experienced commercial use, it shall thereafter be considered as a commercial use product for purposes of this warranty.

To ensure prompt and complete warranty coverage, register your product at the website shown above or at www.onlineproductregistration.com.

Save your proof of purchase receipt. If you do not provide proof of the initial purchase date at the time warranty service is requested, the manufacturing date of the product will be used to determine the warranty period. Product registration is not required to obtain warranty service on Briggs & Stratton products.

LIMITED WARRANTY

ABOUT YOUR WARRANTY

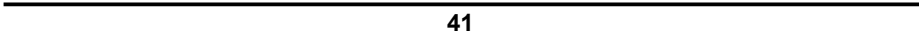
Warranty service is available only through Snapper Authorized Service Dealers. This warranty covers only defects in materials or workmanship. It does not cover damage caused by improper use or abuse, improper maintenance or repair, normal wear and tear, or stale or unapproved fuel.

Improper Use and Abuse - The proper, intended use of this product is described in the Operator's Manual. Using the product in a way not described in the Operator's Manual or using the product after it has been damaged will not be covered under this warranty. Warranty coverage will also not be provided if the serial number on the product has been removed or the product has been altered or modified in any way, or if the product has evidence of abuse such as impact damage or water/chemical corrosion damage.

Improper Maintenance or Repair - This product must be maintained according to the procedures and schedules provided in the Operator's Manual, and serviced or repaired using genuine Briggs & Stratton parts or equivalent. Damage caused by lack of maintenance or use of non-original parts is not covered by warranty.

Normal Wear and Tear - Like most mechanical devices, your unit is subject to wear even when properly maintained. This warranty does not cover repairs when normal use has exhausted the life of a part or the equipment. Maintenance and wear items such as filters, belts, cutting blades, and brake pads (except engine brake pads) are not covered by warranty due to wear characteristics alone, unless the cause is due to defects in material or workmanship.

Other Exclusions - This warranty excludes damage due to accident, abuse, modifications, alterations, improper servicing, freezing or chemical deterioration. Attachments or accessories that were not originally packaged with the product are also excluded. There is no warranty coverage on equipment used for primary power in place of utility power or on equipment used in life support applications. This warranty does not include used, reconditioned, second-hand, or demonstration equipment or engines. This warranty also excludes failures due to acts of God and other force majeure events beyond the manufacturer's control.



PARTS LIST

Item No.	Part No.	Description	QTY
1A	770228	KIT, SIDE COVER ASSEMBLY	1
29	-----	NUT	2
30	-----	BUSHING	2
31	-----	COVER, SIDE	1
32	-----	WASHER	1
2A	770229	KIT, SPROCKET ASSEMBLY	1
33	-----	WASHER, LIMITER	1
34	-----	SPROCKET	1
35	-----	SPACER, BUSHING	1
3A	770230	KIT, CHAIN SAW TENSION ASSEMBLY	1
36	-----	SCREW	1
37	-----	ASSEMBLY,SAW CHAIN TENSION	1
4A	770231	KIT, RIGHT HOUSING ASSEMBLY	1
38	-----	SCREW	2
39	-----	HOUSING,RIGHT	1
40	-----	NUT	1
41	-----	SPRING, LEAF	1
42	-----	SCREW	2
5A	770232	KIT, SPANNER	1
6A	770233	KIT, VARIABLE SPEED SWITCH	1
7A	770234	KIT, BATTERY HOUSING ASSEMBLY	1
49	-----	SCREEN,DUST	2
50	-----	HOUSING,BATTERY	1
51	-----	SCREW	1
52	-----	SCREW	1
8A	770235	KIT, RELEASE BUTTON ASSEMBLY	1
53	-----	BUTTON,RELEASE	1
54	-----	SPRING	1
55	-----	SHAFT	1
9A	770236	KIT, TRIGGER ASSEMBLY	1
56	-----	SPRING	1
58	-----	BUTTON, LOCK-OFF	1
59	-----	ROD, CONNECTING	1
10A	770237	KIT, OUTAGE SWITCH ASSEMBLY	1
43	-----	SWITCH,OUTAGE	1
44	-----	BRACKET, DEAD PLATE	1
45	-----	SCREW	2
11A	770238	KIT, PCB ASSEMBLY, NA	1

PARTS LIST

Item No.	Part No.	Description	QTY
46	-----	SWITCH, SIGNAL	1
47	-----	PCB	1
48	-----	SCREW	1
12A	770379	KIT, TOP COVER ASSEMBLY,NA	1
60	-----	SCREW	3
61	-----	COVER, TOP	1
62	-----	SCREEN, DUST	1
13A	770240	KIT, PCB, FOR STARTING	1
14A	770241	KIT, INPUT TUBE ASSEMBLY	1
92	-----	SPRING	1
93	-----	TUBE,INPUT	1
15A	770242	KIT, OIL TANK ASSEMBLY	1
90	-----	O-RING, SEAL	1
91	-----	TANK, OIL	1
16A	770243	KIT, OIL TANK CAP ASSEMBLY	1
63	-----	STRAP, OIL CAP	1
64	-----	O-RING, SEAL	1
65	-----	ELEMENT, FILTER	1
66	-----	CAP, OIL TANK	1
17A	770244	KIT, LEFT HOUSING ASSEMBLY, NA	1
67	-----	BUTTON	1
68	-----	HOUSING, LEFT	1
69	-----	NUT	2
70	-----	SCREW	5
71	-----	SCREW	2
72	-----	BRACKET, STABALIZER	1
18A	770245	KIT, MOTOR COVER ASSEMBLY, NA	1
73	-----	SCREW	3
74	-----	SCREW	2
75	-----	COVER, MOTOR	1
19A	770246	KIT, MOTOR ASSEMBLY, NA	1
76	-----	MOTOR	1
77	-----	CHANNEL, AIR OUTLET	1
78	-----	HOUSING, GEAR BOX	1
79	-----	GEAR	1
82	-----	BRACKET, FIXED MOUNTING	1
83	-----	SCREW	1
84	-----	SCREW	3
85	-----	COVER, GEAR BOX	1

PARTS LIST

Item No.	Part No.	Description	QTY
86	-----	SHAFT	1
88	-----	BEARING	1
20A	770247	KIT, OIL VALVE ASSEMBLY	1
94	-----	ASSEMBLY, OIL VALVE	1
95	-----	SCREW	2
21A	770248	KIT, FRONT HAND GUARD ASSEMBLY	1
96	-----	SPRING, TORSION	1
97	-----	SCREW	2
98	-----	BUSHING	1
99	-----	HANDGUARD,FRONT	1
100	-----	BUSHING	1
22A	770249	KIT, BUMPER SPIKE ASSEMBLY	1
101	-----	BRACKET, BUMPER SPIKED	1
102	-----	SCREW	2
23A	770250	KIT, CHAIN BLOCK DEVICE ASSEMBLY	1
103	-----	BRACKET, CHAIN BLOCK DEVICE	1
104	-----	SCREW	1
24A	770251	KIT, OUTLET TUBE	1
25A	770252	KIT, BAR COVER, NA & EU	1
26A	770253	KIT, BAR, NA & EU	1
27A	770254	KIT, SAW CHAIN	1
28A	770255	KIT, FRONT HANDLE ASSEMBLY	1
105	-----	SCREW	4
106	-----	HANDLE, FRONT	1
107	-----	SHEATH	1
108A	1760266	BATTERY, 2AH, NA (OPTION)	1
109A	1760263	CHARGER, RAPID, NA (OPTION)	1

SNAPPER®

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TOLL-FREE HELPLINE: 1-800-317-7833