



OWNER'S MANUAL

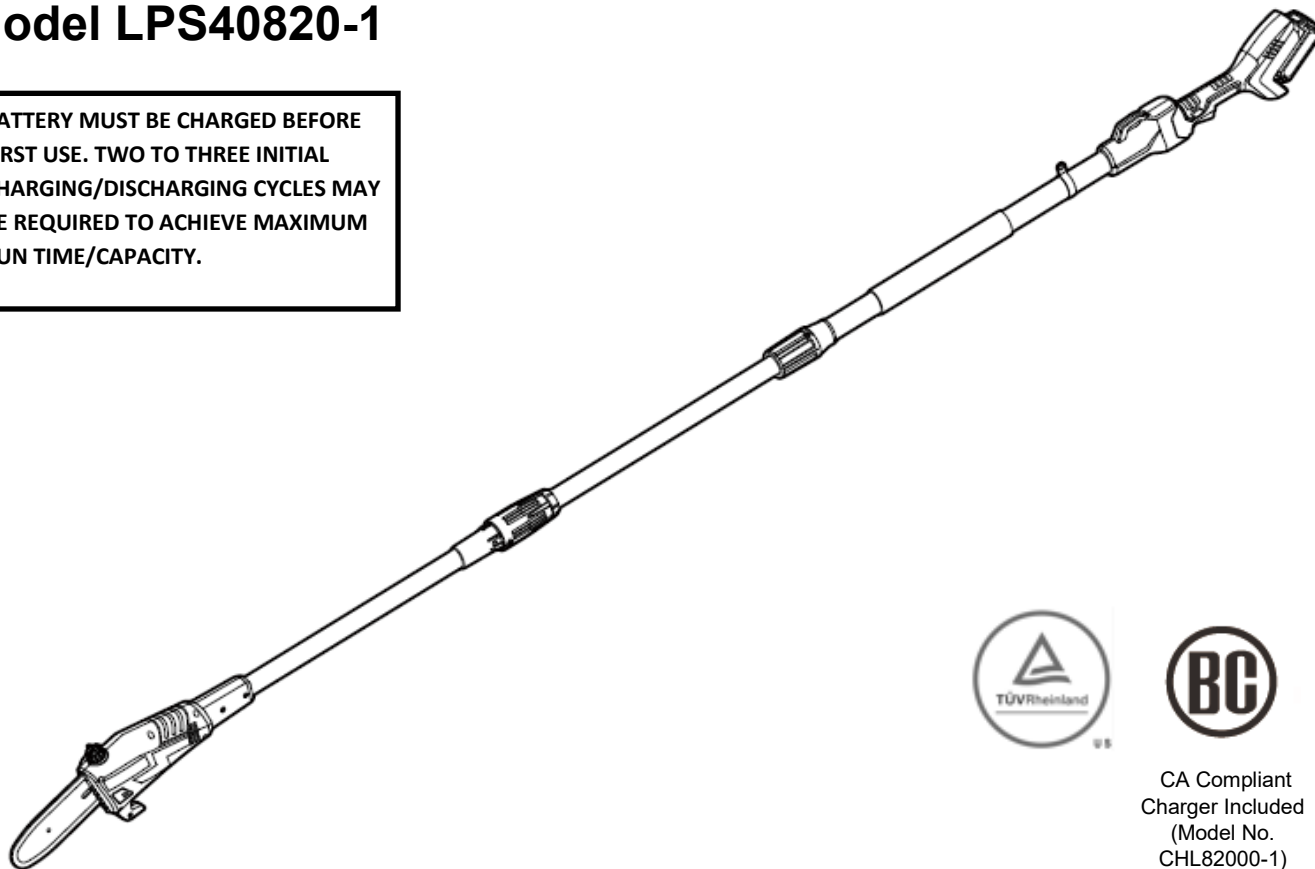
8-Inch 20V Lithium-ion Pole Saw

With (1) 20V 2.0Ah Lithium-ion Battery

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Model LPS40820-1

BATTERY MUST BE CHARGED BEFORE FIRST USE. TWO TO THREE INITIAL CHARGING/DISCHARGING CYCLES MAY BE REQUIRED TO ACHIEVE MAXIMUM RUN TIME/CAPACITY.



CA Compliant
Charger Included
(Model No.
CHL82000-1)

Your pole saw has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.



WARNING: To reduce the risk of injury, the user must read and understand the owner's manual before using this product.

ADD OIL TO OIL RESERVOIR BEFORE FIRST USE

Thank you for your purchase.

DO NOT RETURN THIS PRODUCT TO THE STORE. OPERATING, ASSEMBLY, PART, SERVICE QUESTIONS? GO TO AMERICANLAWNMOWER.COM OR CALL 1-800-633-1501 BETWEEN 8:00AM-5:00PM EST FOR ASSISTANCE.

SAVE THIS MANUAL FOR FUTURE REFERENCE




IMPORTANT SAFETY WARNINGS




TO REDUCE RISK OF INJURY:

Before any use, be sure everyone using this tool reads and understands all safety instructions and other information contained in this manual.


-  **CAUTION:** Wear appropriate personal hearing protection during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.

Save these instructions and review frequently prior to use and in instructing others.

-  **WARNING:** When using electric gardening appliances, basic safety precautions should always be followed to reduce risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

GENERAL POWER TOOL SAFETY WARNINGS

-  **WARNING: Read all safety warnings and instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools 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

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **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 power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective 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 energizing power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.



GENERAL POWER TOOL SAFETY WARNINGS



- **Disconnect the plug from the power source and/or 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 power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **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 power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

- **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, seek medical help.** Liquid ejected from the battery may cause irritation or burns

Service


- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- **When servicing a power tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.

GENERAL SAFETY

AVOID DANGEROUS ENVIRONMENTS – Don't use pole saw in rain, damp or wet locations. Do not operate pole saw in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.


DRESS PROPERLY – Don't wear loose clothing or jewelry. Wear protective hair covering to contain long hair. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors.

USE SAFETY GLASSES –Wear safety glasses with side shields or goggles that are marked to comply with ANSI Z87.1 standard when operating this product. Use face or dust mask if environment is dusty.

 **DANGER:** Risk of cut. Keep hands away from chain. Keep both hands on pole and handle when power is on.


USE RIGHT APPLIANCE – Do not use appliance for any job except that for which it is intended.

USE HEAD AND FACE PROTECTION: Wear a safety hard hat with a full face shield that meets the ANSI Standards AN-SI Z89.1, or CE Standards while operating the pole saw.

 **CAUTION:** Never stand under the limb being trimmed. Position yourself out of the way of falling debris.

REMOVE BATTERY FROM POLE SAW when not in use or when servicing or cleaning. Do not leave unattended.

AVOID UNINTENTIONAL STARTING— Don't carry the pole saw with finger on switch. Be sure the switch is off when installing battery pack.


 **CAUTION:** Never carry pole saw with one hand. Doing so could cause saw to become unbalanced and damage may occur. Failure to heed this warning can result in serious personal injury.

KEEP CHILDREN AWAY: All visitors, children and pets should stay at a safe distance from the work area.

STORE IDLE POLE SAW INDOORS: When not in use, the pole saw should be stored indoors in a dry and high or locked-up place, out of reach of children.

DO NOT ATTEMPT to remove cut material or hold material to be cut when pole saw is on and the chain is moving. Make sure switch is off when clearing jammed material from the chain. Do not grasp the exposed cutting edges when picking up or holding the saw. Keep all parts of the body away from the saw chain.

CAUTION: Chain coasts after pole saw is turned off.

 **WARNING:** To protect yourself from electrocution maintain a min of 50ft (15m) from overhead electrical lines.

DO NOT FORCE POLE SAW—It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.



GENERAL SAFETY



STAY ALERT: Watch what you are doing. Use common sense. Do not operate pole saw when you are tired or under the influence of medications, drugs or alcohol.



DANGER: If chain jams on any electrical cord or line. **DO NOT TOUCH THE BAR AND CHAIN! THEY CAN BECOME ELECTRICALLY LIVE AND VERY DANGEROUS.** Release the unit in the safest manner possible. Disconnect the damaged electrical cord or line from the power source. If possible, do so safely. If in doubt, call an electrician or the electrical contractor for assistance. Failure to heed this danger will result in serious personal injury and possible death.

LIGHTING: Only operate saw in daylight or good artificial light.

DON'T OVERREACH: Keep proper footing and balance at all times.

Make sure power source is removed when clearing jammed material from chain.

CHECK DAMAGED PARTS: Before further use of the pole saw, any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect its operation. Any part that is damaged should be properly repaired or replaced. Call our customer service help line at 1-800-633-1501 for assistance.

Always wear ear plugs or mufflers to protect your hearing. Regular users should have hearing checked regularly as chain saw noise can damage hearing.

MAINTAIN SAW WITH CARE: Keep cutters sharp and clean for best performance and to reduce the risk of injury. Keep pole and handle dry, clean from oil and grease.



WARNING: California Proposition 65 - This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



WARNING: Some dust and debris created by the use of this tool could contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

- * Chemicals in fertilizers
- * Compounds in insecticides, herbicides and pesticides
- * Arsenic and chromium from chemically treated lumber

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



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



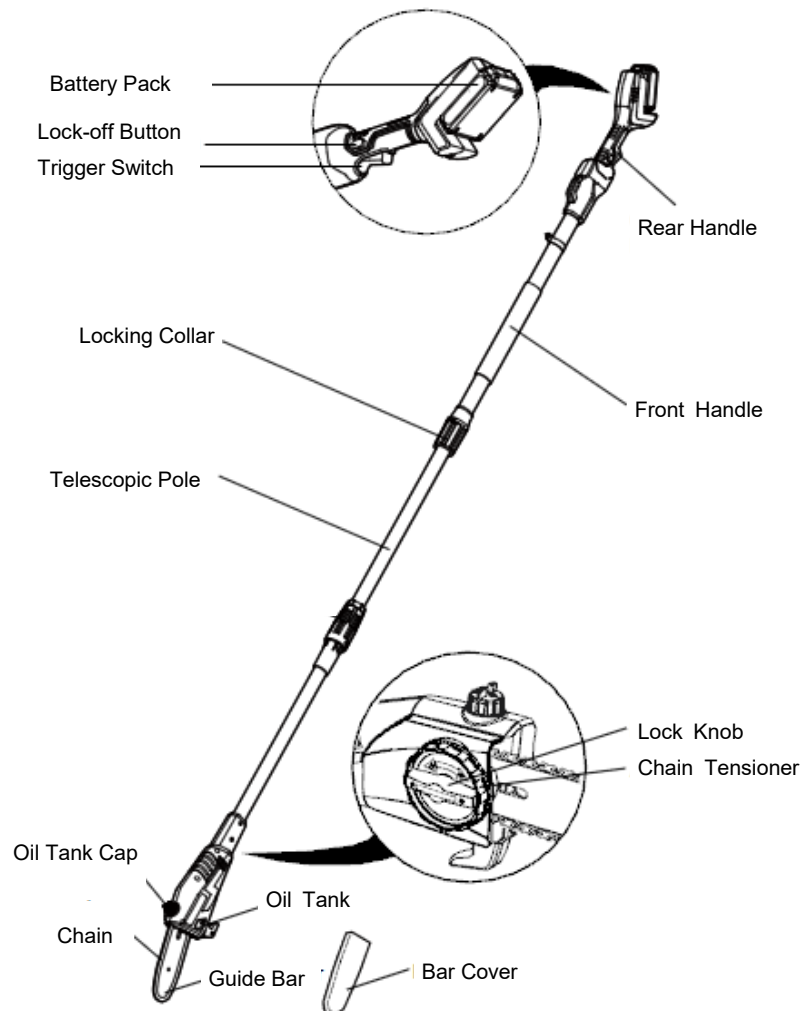
CAUTION: Use only the following type and size battery(ies): BL82120-1.

FEATURES

PRODUCT SPECIFICATIONS

LPS40820-1

Input	20 V/2.0Ah, DC only
Bar Length	8" Bar (M1430833-1041TL)
Weight	8.6 lbs.
Total Extended Length	9 ft. 4 in.
Oil capacity.....	75 ml



ASSEMBLY

UNPACKING

This product requires assembly.

Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list 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.

PACKING LIST

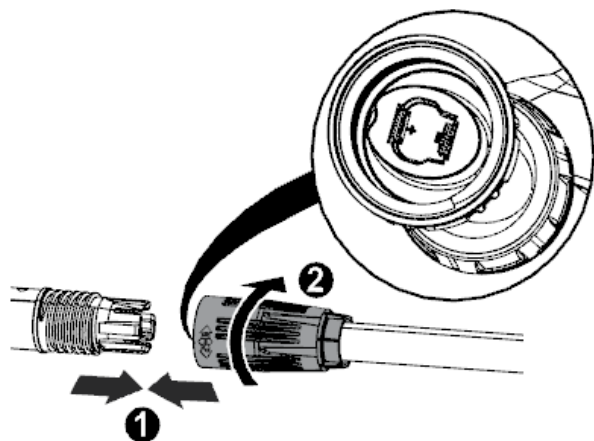
- Pole Saw Head
- Telescopic Pole
- Battery Pack and Charger
- Chain and Bar
- Blade Cover
- Shoulder Strap
- Owner's Manual

ASSEMBLY

Pole Assembly:

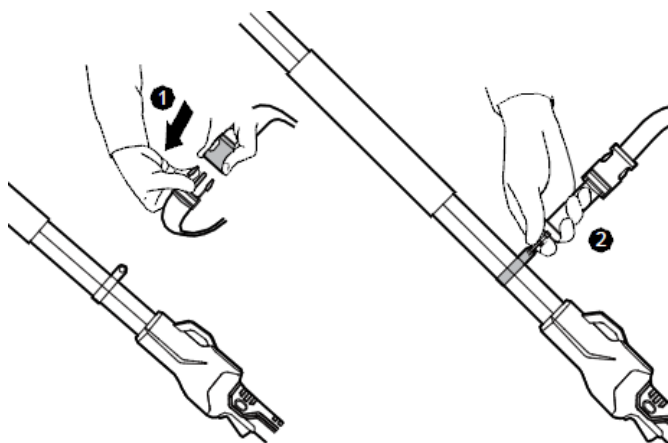
Plug the upper section into the lower section. Pull the locking collar down over the connection and turn clockwise to secure the two pieces together.

NOTE: Note the polarity markings of the contacts.



ATTACHING THE SHOULDER STRAP

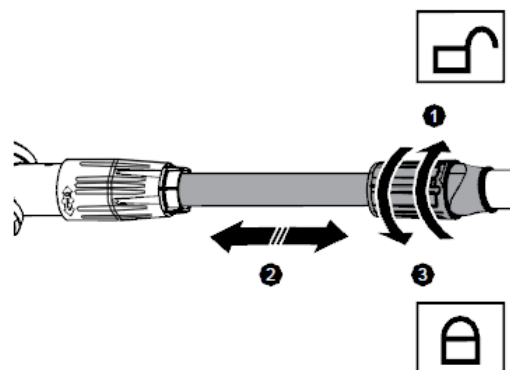
Engage the strap closure ①. Suspend the shoulder strap in the attachment ②.



ADJUSTING LENGTH OF TELESCOPIC POLE

Remove the battery pack from the pole saw.

- Release the locking collar of the telescopic pole.
- Pull the telescopic pole apart until the required working height is obtained.
- Fully retighten the locking collar.



Note: Extend the pole only to the length required to reach the limb to be cut. Do not extend the handle above waist height.

NOTE: Adjust hand placement on the shaft of the pole saw to keep proper balance.

Do not attempt to use pole saw at a length which does not allow you to maintain proper footing and balance at all times.

WARNING: If any parts are damaged or missing do not operate this product until the parts are replaced. Failure to heed this warning could result in serious personal injury. Call 1-800-633-1501 for assistance.

WARNING: Failure to lock telescopic pole clamp as directed could result in personal injury.

INSTALLING/REPLACING THE GUIDE BAR AND CHAIN

DANGER: 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.

WARNING: To avoid serious personal injury, read and understand all the safety instructions provided.

WARNING: Before performing any maintenance, make sure the battery pack has been 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.

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 to the chain to avoid possible serious lacerations.

NOTE: When replacing the guide bar and chain, use only identical replacement parts.

INSTALLING/REPLACING THE GUIDE BAR AND CHAIN

- Remove the battery pack from the pole saw
- Loosen the lock knob (Fig.1 □) by turning counter-clockwise.
- Remove the chain cover (Fig.1 □).
- Position the bar with the longitudinal hole on the threaded bolt (Fig.1 □).

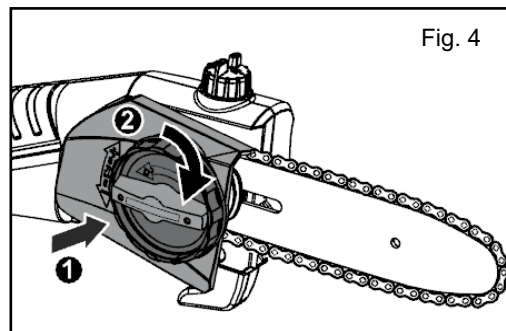
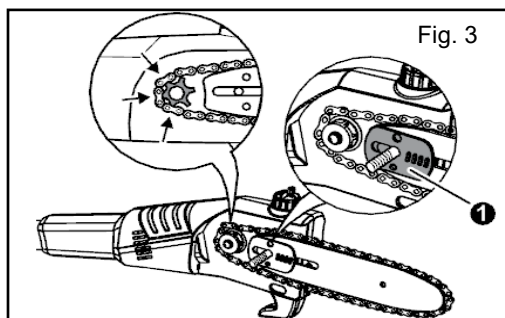
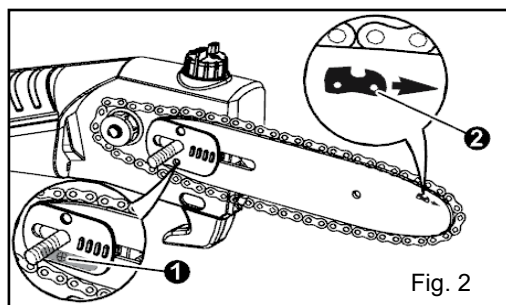
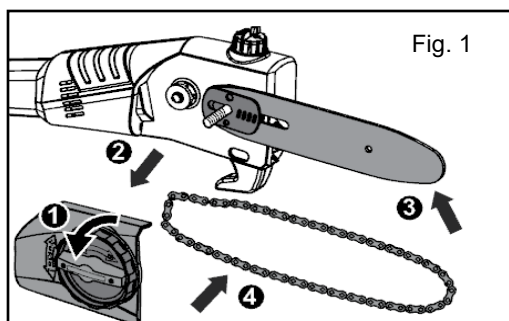
NOTE: Ensure that the chain tensioning plate points forward (Fig. 3 □).

NOTE: Check for correct seating of the guide screw on the rear side of the bar in the guiding groove (Fig. 2 □).

- Push the bar as close as possible to the sprocket.
- Place the chain around the bar and the drive sprocket (Fig. 1 □).

NOTE: Ensure that the chain moves in the correct direction (Fig. 2 ②).

- Check the position of the bar and chain on the tool (Fig. 3).
- Position the cover (Fig. 4 □) and tighten it with the locking knob (Fig. 4 □).



TENSION THE CHAIN

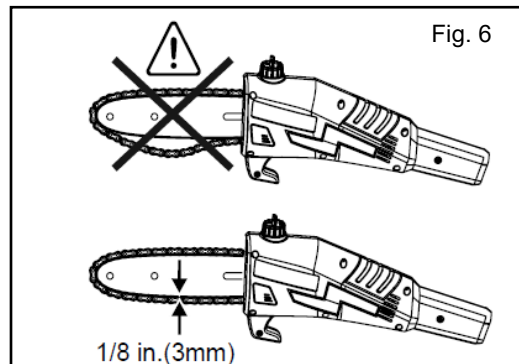
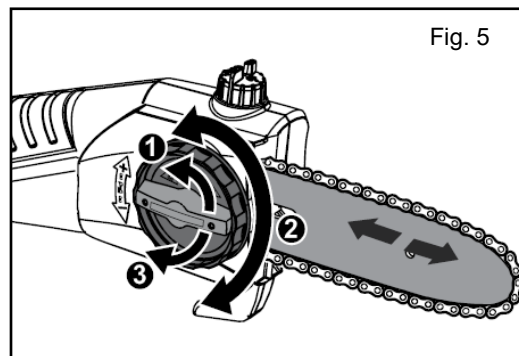
WARNING: Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or when the product is not in use. Wear safety gloves before any work on the chain.

NOTE: The cutting chain must not sag, however, it should be possible to pull it about 1/8 in. (3mm) away from the bar (Fig. 6).

- Screw the lock knob (Fig. 5 □) out far enough to allow rotation of the chain tensioner (Fig. 5 □).
- Turn the chain tensioner clockwise to tension the chain or counterclockwise to slacken it.
- Manually rotate the chain to check for fault-free running.
- Tighten the lock knob again (Fig. 5 □).

NOTE: During breaking-in of a new chain, it should be re-tensioned after no more than five cuts.

NOTE: Do not over-tension the chain as this will lead to excessive wear and will reduce the life of the bar and chain. Overtensioning also reduces the amount of cuts you will get per battery charge.



FILLING WITH BAR AND CHAIN OIL

- ⚠ **WARNING:** Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or when the product is not in use.
- ⚠ **WARNING:** Use of old oil can result in damage to bar and chain! Never use old oil to lubricate the chain.
- ⚠ **WARNING:** Do not smoke or bring any fire or flame near the oil or the pole saw. Oil may spill and cause a fire.
- ⚠ **CAUTION:** Chain oil is released into the environment during operation, therefore, eco-friendly vegetable oil should be used as a chain oil.
- ⚠ **CAUTION:** Only operate the tool with sufficient chain oil. Check the oil volume via the oil level indicator.
- ⚠ **CAUTION:** Take care not to spill any oil and immediately wipe up any spilled oil to avoid risk of slipping.

- Slowly unscrew the tank cap, remove it and save it (Fig 7 □).
- Fill carefully with chain lubricating oil to about 0.4" (10mm) below the bottom edge of the filler (Fig 7 □).

- Replace the tank cap and screw it tight (Fig 7 □).

- ⚠ **NOTE:** Check and refill the oil tank each 15-minute running time. The oil level can be seen in the oil level indicator. Ensure that no dirt gets into the oil tank.

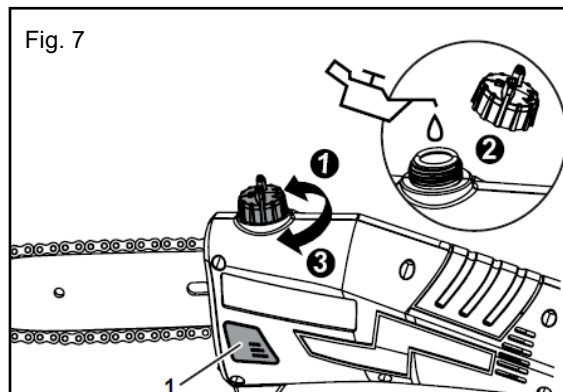


Fig. 7

OPERATING

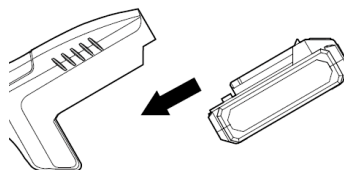
TO INSTALL/REMOVE BATTERY PACK

FULLY CHARGE BEFORE FIRST USE.

- ⚠ **WARNING:** Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or when not in use. Removing the battery pack will prevent accidental starting that could cause serious personal injury.

TO INSTALL (Fig. 8)

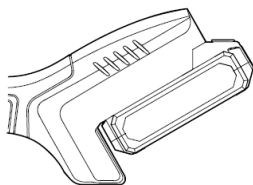
Align the ribs of the battery pack with the mounting slots in the pole saw's battery port. Insert the battery pack until it snaps into position.



TO REMOVE

(Fig. 9)

Press the battery-release button; the battery pack will disengage from the latch. Remove the battery pack from the pole saw.



Before you start the unit, make sure the pole saw is not contacting any object.

TO TURN THE TOOL ON

Push the lock button in with your thumb and then squeeze the trigger switch with your fingers. (Once the tool is running, you can release the lock button). To turn the tool OFF, release the trigger switch.

- ⚠ **WARNING:** To guard against injury, observe the following:
Read instruction manual before using, save instruction manual.
Keep hands away from chain.
Keep hands on handles. Don't overreach.

A good, firm grip on the pole saw with both hands will help you maintain control. Grip the rear handle with your right hand whether you are right or left handed. Wrap the fingers of your left hand over and around the pole shaft. A firm grip together with positioning handle against your body will help you maintain control of the saw. Don't let go.

Do not operate pole saw in a tree, on a ladder, or on a scaffold; this is extremely dangerous.

Use extreme caution when cutting small size brush, saplings or limbs under tension, because slender and tense material may catch the saw and be whipped toward you, pull you off balance or spring back.

Do not operate pole saw to cut vines and/or small underbrush.

- ⚠ **WARNING:** Do not allow familiarity with this type of tool to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

- ⚠ **WARNING:** Do not cut trees near electrical wires or buildings.

Proper Cutting Stance

Weight should be balanced with both feet on solid ground.

Keep left arm with elbow locked in a "straight arm" position to withstand any kickback force. Your right hand should be gripping the handle and positioned firmly against your body for added support.

Your body should always be to the left of the chain line.

- ⚠ **CAUTION:** Failure to lubricate the chain will cause damage to the bar and chain. Use only a good quality bar and chain oil or, if not available, unused SAE 30 weight motor oil may be substituted. One minute of use will consume approx. 0.15 fl. oz. (5ml) of oil.

NOTE: It is normal for oil to seep from the pole saw when not in use. To prevent seepage, empty the oil tank after each use. When storing the unit for a long period of time (3 months or longer) be sure the chain is lightly lubricated; this will prevent rust on the chain and bar sprocket.

- ⚠ **WARNING:** Do Not use the pole saw with any type of accessory or attachment. Such usage might be hazardous.

- ⚠ **WARNING:** Hold the extended-reach pruner by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord. A saw chain contacting a "live" wire may make exposed metal parts of the extended-reach pruner "live" and could give the operator an electric shock.

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

OPERATING

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 chain saw 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 lightening fast, reverse reaction which kicks the guide bar up and back toward the operator. If the chain saw 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.

The following precautions should be followed to minimize

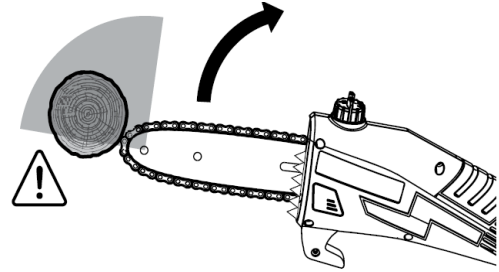
kickback:

1. Always grip the pole and handle firmly with both hands. Hold the saw firmly with both hands when the unit is running. Place your right hand on the rear handle and your left hand on the pole shaft with your thumbs and fingers encircling the pole saw handle and shaft. A firm grip together with a stiff left arm will help you maintain control of the saw if kickback occurs.
2. 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.

3. Always cut with the unit running at full speed. Fully squeeze the throttle trigger and maintain a steady cutting speed.
4. Wear non-slip gloves for maximum grip protection.
Cut lower branches first to allow the top branches more room to fall.
Work slowly, keeping both hands on the saw with a firm grip.
Maintain secure footing and balance.

WARNING: To protect yourself from electrocution, maintain a min of 50ft (15m) from over head electrical lines.

Keep bystanders at least 50ft. away.



OPERATING AND INSTRUCTIONS

BASIC CUTTING PROCEDURE

See figure 8-9

Keep the tree between you and the chain while limbing.

Cut from side of tree opposite branch you are cutting.

Do not cut from a ladder; this is extremely dangerous. Leave this operation for professionals.

Do not use the pole saw for felling or bucking,

To prevent electrocution, do not operate within 50 ft. of overhead electrical lines,.

Follow the steps below to prevent damage to tree or shrub bark. Do not use a back-and-forth sawing motion,

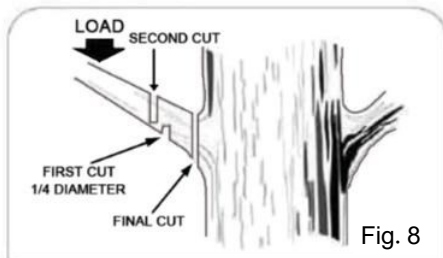
Do not make the flush cut next to the main limb or trunk until you have cut of the limb further out to reduce the weight.

Following proper cutting procedures will prevent stripping bark from the main member.

Make a shallow first cut (1/4 of limb diameter) on the underside of the limb close to the main limb or trunk,

Make a second cut from the top side of the limb outboard from the first cut. Continue the cut through the limb until the limb separates from the tree. Be prepared to balance the weight of the tool when the limb falls.

Make a final cut close to the trunk.



For second and final cuts, (from top of limb or branch), hold front cutting guide against the limb being cut. This will help steady the limb and make it easier to cut. Allow the chain to cut for you; exert only light downward pressure. If you force the cut, damage to the bar, chain, or motor can result.

Release the trigger as soon as the cut is completed. Failure to follow proper cutting procedures will result in the bar and chain binding and becoming pinched or trapped in the limb.

If this should happen:

Stop the motor and remove the battery pack.

If the limb can be reached from the ground, lift the limb while holding the saw. This should release the "PINCH" and free the saw.

If the saw is still trapped, call a professional for assistance.

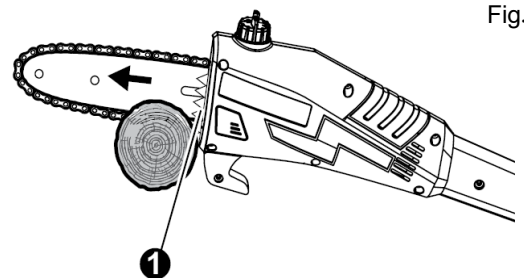


Fig. 9

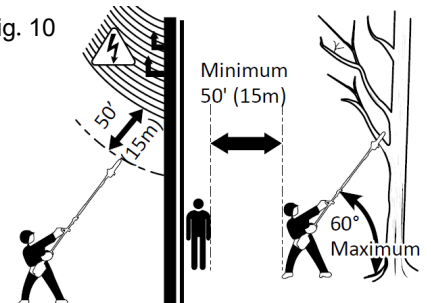
LIMBING AND PRUNING

See figure 10

This unit is designed for trimming small branches and limbs up to 6 inches (15cm) in diameter. For best results, observe the following precautions. Plan the cut carefully. Be aware of the direction in which the branch will fall. Branches may fall in unexpected directions. Do not stand directly under the branch being cut.

The most typical cutting application is to position the unit at an angle of 60° or less, depending on the specific situation, as shown. As the angle of the pole saw shaft to ground increases, the difficulty of making the first cut (from the underside of the limb) increases. Remove long branched in several stages.

Fig. 10



CHAIN MAINTENANCE

CHAIN MAINTENANCE

CAUTION: Remove the battery pack and make sure the chain has stopped before you do any work on the saw. For smooth and fast cutting, chain needs to be maintained 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 your chain remember:

- 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 cutter teeth have hit hard objects such as nails and stones, or have been abraded by mud or sand on the wood, have service dealer sharpen 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 a qualified individual.

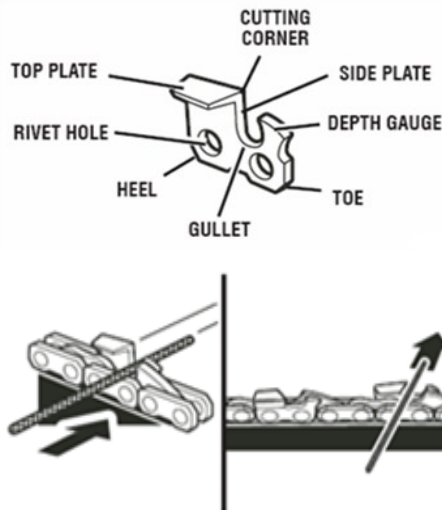
HOW TO SHARPEN THE CUTTERS

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.

Wear gloves for protection. Properly tension the chain prior to sharpening. Refer to "Chain Tension Section" earlier in this manual. Do all of your filing at the midpoint of the bar.

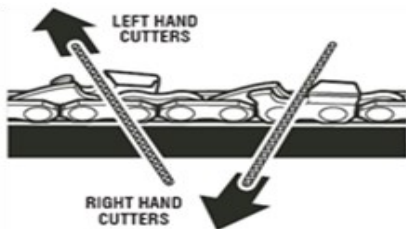
Use a 5/32 in. diameter round file and holder.

Keep the file level with the 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 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. Occasionally remove filing from the file with a wire brush.



WARNING: Improper chain sharpening increases the potential of kickback.

WARNING: Failure to replace or repair damaged chain can cause serious injury.

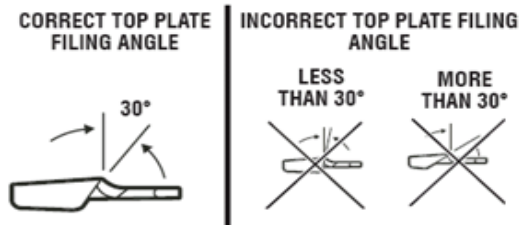
WARNING: The saw chain is very sharp, always wear protective gloves when performing maintenance to the chain.

TOP PLATE FILING ANGLE

Correct 30 degrees – File holders are marked with guide marks to align file properly to produce top plate angle.

Less than 30 degrees – for cross cutting.

More than 30 degrees – feathered edge dulls quickly.



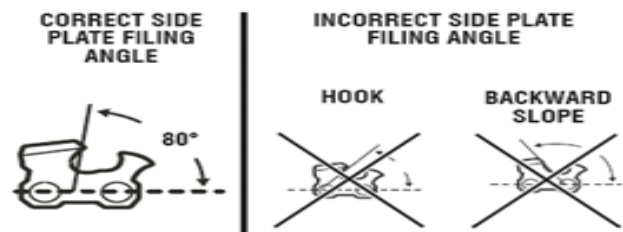
SIDE PLATE ANGLE

Correct – 80 degrees produced automatically if correct diameter file is used in file holder.

Hook – "Grabs" and dulls quickly. Increases potential of kickback.

Results from using a file with a diameter too small, or file held too low.

Backward Slope – Needs too much feed pressure, causes excessive wear to bar and chain. Results from using a file with a diameter too large, or file held too high.



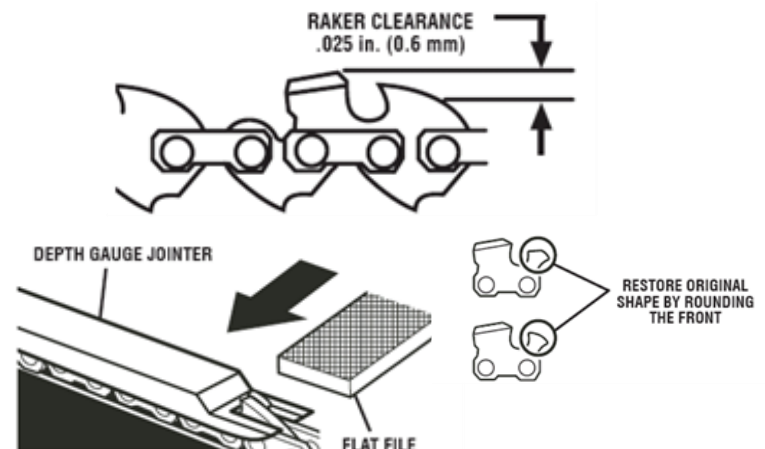
DEPTH GAUGE CLEARANCE

The depth gauge should be maintained at a clearance of .025 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. Depth gauge jointers are available in .020 in. to .035 in. (0.5 mm to 0.9 mm). Use a .025 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.



CHARGING THE BATTERY PACK

Charge the battery pack only with Yardworks 20V Chargers

Allow at least 80 minutes of charge time before initial use of the pole saw.

Make sure the power supply is normal household voltage, 120volts, 60Hz, AC only.

The battery charger should be operated in temperatures between 39 and 104 degrees F.

The battery should be charged in a cool, dry place.

Two to Three initial charging/discharging cycles may be required to achieve maximum run time/capacity.

Do not attempt to open the charger or the unit. There are no customer serviceable parts inside. Call the customer service help line at 1-800-633-1501 for assistance.

DO NOT incinerate battery packs even if they are severely damaged or completely worn out. They can explode in a fire causing injury.

Use the battery charger indoors only.

Disconnect charger from the power supply when not in use to prevent damage to the charger during a power surge.

When fully charged, the battery can be safely stored in temperatures down to -4° degrees F for a period of up to four weeks, before requiring charging. Fully charge battery pack every 90 days.

If over a period of time the battery pack quickly runs down after a full 80 minute charging period, a replacement battery pack is needed.

To prevent permanent damage to the battery, never store in a discharged condition.

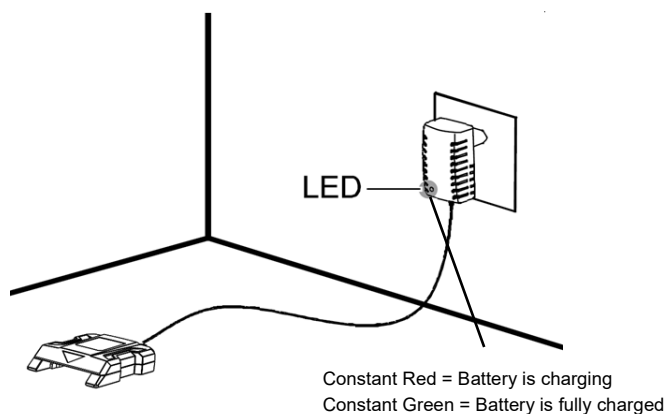
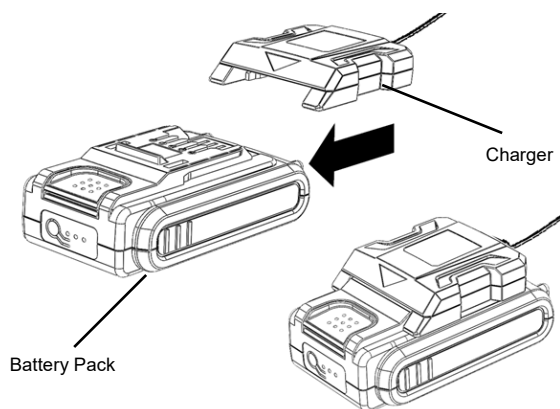
WINTER STORAGE—Fully recharge before storage and then again every 90 days.

Since the battery will not develop a memory, it does not have to be fully discharged before recharging.

A small leakage of liquid from the battery cells may occur under extreme usage, charging or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin.

- Wash quickly with soap and water.
- Neutralize with a mild acid such as lemon juice or vinegar.
- If the battery liquid gets in your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.

TO CHARGE—SEE CHARGER MANUAL FOR COMPLETE INSTRUCTIONS



BATTERY DISPOSAL

Remove the battery pack from the pole saw. Cover the terminals with heavy duty adhesive tape. Do not attempt to destroy or disassemble battery pack or remove any components. This product contains lithium-ion batteries which must be recycled or disposed of properly. Local, state or federal laws may prohibit disposal of these batteries in ordinary trash.



The RBRC seal on the li-ion battery pack indicates that the costs to recycle the battery pack at the end of its useful life has already been paid by The Great States Corporation American Lawn Mower Company. It is illegal to place spent li-ion batteries in the local municipal solid waste or in the trash. RBRC in cooperation with The Great States Corporation American Lawn Mower Company has provided an environmentally friendly and easy way to recycle spent li-ion batteries. Just contact your local recycling center or call 1-800-8BATTERY for information on where to drop off the spent battery.

MAINTENANCE

BEFORE USING: Fill oil well with new quality bar and chain oil. Unused SAE30 weight motor oil may be substituted.

If you drop the pole saw, carefully inspect it for damage. If the blade is bent, housing cracked, or handles broken or if you see any other condition that may affect the saw's operation, call our customer service help line at 1-800-633-1501 for assistance.

Remove the battery pack from the pole saw, then use only mild soap and a damp cloth to clean the tool. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

IMPORTANT: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by a qualified individual always using identical replacement parts.

CAUTION: Do not at any time let brake fluids, gasoline, petroleum based products, penetrating oils, etc., come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

Ensure that the plastic bar cover is in place when storing.

Fertilizers and other garden chemicals contain agents which greatly accelerate the corrosion of metals. Do not store the tool on or adjacent to fertilizers or chemicals.

For smooth and fast cutting, chain needs to be maintained 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. Refer to instructions earlier in this manual for instructions on properly sharpening the chain.

LUBRICATION SYSTEM

The chain is automatically lubricated.

Use only new bar and chain oil or unused SAE 30 weight motor oil may be substituted. Never use wasted oil, low quality oil, or insufficient oil. This could damage the bar and the chain, which may result in serious personal injury.

Check oil level before each work session, refill if less than ¼ full.

If the lubrication system does not work properly, check if all oil-ways are clean and free from obstructions. If it is still not working, call our customer service help line at 1-800-633-1501 for assistance.

GUIDE BAR MAINTENANCE

When the guide bar shows signs of wear, reverse it 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 which permits the chain to lay over sideways.
- Bent guide bar
- Cracked or broken rails
- Spread rails

In addition, guide bars with a sprocket at their tip must be lubricated frequently with a grease syringe to extend the guide bar life. 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 obstructions.

TROUBLESHOOTING

Problem	Possible Cause	Possible Solutions
-Unit does not run.	<ul style="list-style-type: none"> -Battery not making contact. -Lock off not fully operated. -Battery not installed properly -Battery not charged. 	<ul style="list-style-type: none"> -Check the battery is fully inserted -Check that lock off is fully forward prior to moving trigger -Check battery installation -Check battery charging requirements
- Bar and chain running hot and smoking	<ul style="list-style-type: none"> - Check tension for over-tight condition - Chain oil tank empty - Chain installed in wrong direction 	<ul style="list-style-type: none"> - Adjust chain tension - Fill tank with chain oil - Reverse chain so that cutters face the right direction
- Motor runs but chain is not rotating	<ul style="list-style-type: none"> - Chain tension too tight - Check guide bar and chain for damage 	<ul style="list-style-type: none"> - Adjust chain tension - Replace damaged bar and chain with identical replacement parts.

CALL US FIRST !!

Call us first with questions about operating or maintaining your pole saw at 1.800.618.7474 between 8:00 a.m. – 5:00 p.m. Eastern Standard Time, or get assistance on AMERICANLAWNMOWER.COM.

PARTS AND SERVICE

For parts or service, please call 1-800-633-1501 or visit us online at AMERICANLAWNMOWER.COM. Be sure to provide all relevant information when you call or visit.

REPAIR PARTS (KITS/ ITEMS)

The model/serial number of this tool is found on a plate or label attached to the housing. Please record the serial number in the space provided below.

MODEL NUMBER **LPS40820-1**

SERIAL NUMBER _____

Always mention the model number when ordering kits/items for this tool.

No.	Kit/Item Number	Description	QTY
1	LCS20-SCA-1	Sprocket cover assembly kit	1
2	LCS20-BCK-1	Bar tensioner kit	1
3	LPS20-OTC-1	Oil cap assembly kit	1
4	BL82120-1	20V Battery	1
5	CHL82000-1	20V Charger	1
6	LCS20-BCK-1	10"/8" Bar Assembly Kit	1

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OWNER'S MANUAL

8-Inch 20V Lithium-ion Pole Saw

With (1) 20V 2.0Ah Lithium-ion Battery

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LPS40820-1

YARDWORKS WARRANTY POLICY

- **2 Year limited warranty** on all Yardworks 20V lithium ion power tools from date of purchase when used for personal, household, or family use.
- **2 Year limited warranty** on all Yardworks 20V lithium ion batteries and chargers from date of purchase when used for personal, household, or family use.

The Great States Corp. (GSC) warrants to the original owner that this Yardworks product and service part is free from defects in materials and workmanship and agrees to repair or replace any defective product or part for the warranty period as stated above.

- Warranty voided if used for commercial or industrial purposes or any other improper use as determined by GSC.
- Warranty does not include repairs necessary due to operator's abuse or negligence (including overloading the product beyond capacity or immersion in water), or the failure to assemble, operate, maintain or store the product according to the instructions in the owner's manual.
- This warranty does not cover
 - ◇ Wear items, including but not limited to - drive belts & gears, tines, cutting blades, mower blades, saw chains, mulching blades, blower fans, spool covers, trimmer line, blower and vacuum tubes, guide bars, high pressure hoses, wheels, handles, augers, worn bags, power cables, and other items subject to wear over time.
 - ◇ Wear on batteries, including but not limited to - drops, wear and breakage on charger, exposure to extreme temperature swings (hot or cold), battery left on charger too long, battery left uncharged for too long, and misuse or abuse of the battery.
- This warranty does not cover damage caused by cold, heat, rain, excessive humidity or other environmental extremes.
- This warranty does not cover normal deterioration of the exterior finish or normal wear and tear on the products including, but not limited to scratches, cracks, dents, or damage caused by outside chemicals.
- This warranty is not transferable and only applies to new products sold directly from an authorized retailer. This warranty does not apply to any product, new or used, purchased through unauthorized third-party channels. For information on authorized dealers, contact our customer support hotline at 1-800-633-1501 (Mon-Fri 8am-5pm Est)
- Any incidental, indirect or consequential loss, damage, or expense that may result from any defect or malfunction of the products is not covered by the warranty.
- The warranty does not include installation, assembly or normal adjustments explained in the owner's manual. The expense of delivering the product to the vendor and the expense of returning the product or replacement parts to the owner is not covered by the warranty.

Additional Warranty Limitations

Some states do not allow the exclusion or limitation on how long an implied warranty lasts, so the above limitation may not apply to you. Products sold damaged or incomplete, sold —as is, or sold as reconditioned are not covered under the warranty.

Damage or liability caused by shipping, improper handling, improper assembly, incorrect voltage, improper wiring, improper maintenance, improper modification or the use of accessories and/or attachments not specifically recommended is not covered by this warranty.

Proof of purchase, original dated sales receipt, must accompany all warranty claims.

For claims go to americanlawnmower.com or call our customer support hotline from 8am-5pm EST, Mon-Fri at 1-800-633-1501



American Lawn Mower Company
The Great States Corporation
7444 Shadeland Station Way
Indianapolis, IN 46256 USA
Phone 1-800-633-1501
americanlawnmower.com