



Battery-Powered Pole Saw

Safety & Operating Instructions



NEUTON Power Equipment

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! WARNING!

Read and understand this manual and all instructions before operating this Pole Saw.

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Conventions used in this Manual



This indicates a hazardous situation, which, if not followed, *will result in death or serious injury.*



This indicates a hazardous situation, which, if not avoided, *could result in death or serious injury.*



This indicates a hazardous situation, which, if not avoided, *could result in minor or moderate injury.*

NOTICE

This information is important in the proper use of your tool. Failure to follow this instruction could result in damage to your tool or property.

TIP: This is a helpful hint to guide you in getting the most out of your NEUTON Battery-Powered Pole Saw.

NOTE: This information may be helpful to you in using your Pole Saw.

Neuton Power Equipment reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your equipment.

NEUTON Battery-Powered Pole Saw Product Specifications

Motor	
Input	18V DC
Controls	
ON/OFF	Single Trigger Switch w/Lock-Off Button
Handles	Soft Grip Rubber over Molded Handles
Pole Saw Housing	
Material	Injected Polypropylene
Bar Length	10 inches –Oregon Bar w/Safety Tip Blade & Protective Cover
Weight	9 lbs. (including Battery)
Bar, Chain & Motor Oiling	Automatic Pump System w/Oil Level Window
Battery Pack (optional)	
Voltage	18V DC, 2.6 AH
Battery Pack Charger	18V Lithium Charger (optional), plugs into standard electrical outlet



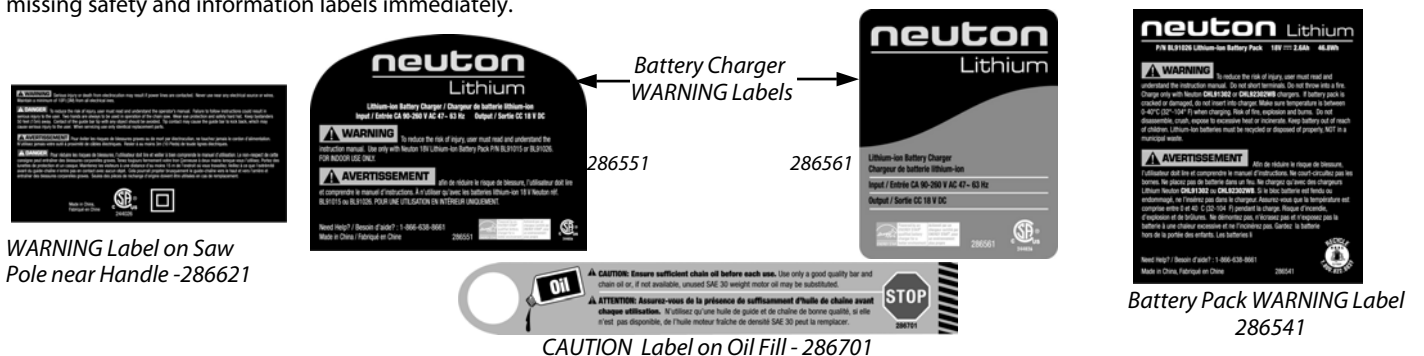
Use only the Neuton Lithium Charger with Neuton Lithium Battery Packs. Do not use the Neuton Lithium Charger with Battery Packs from other manufacturers or other Neuton products.

Charge Time	30-60 minutes to recharge
Replacement	Easy to snap-in and out of Saw housing

Chapter 1: Important Safety Considerations

We want you to enjoy years of safe and productive use from your NEUTON Battery-Powered Pole Saw. We do not want you injured, so please take a few moments to read the following instructions for safely operating your new Tool.

Take a moment to study the following labels and make a note of their location *before* you operate the Saw. Replace damaged or missing safety and information labels immediately.



WARNING Label on Saw Pole near Handle -286621

Battery Pack WARNING Label 286541

CAUTION Label on Oil Fill - 286701

Protecting Yourself and Those around You

WARNING!

This is a Battery-Powered tool, with rotating Cutting Teeth operating with high energy. You must operate the tool safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this tool:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
 - Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the Saw and the activity of cutting. Never assume that children will remain where you last saw them.
 - When cutting a tree limb, keep everyone a safe distance from the cutting area. The safe distance should be at least twice the length of the limb that you are cutting. Stop the Saw when another person or pet approaches. If the tree limb makes contact with any utility line, notify the utility company immediately.
 - Only allow responsible individuals who have a thorough understanding of these instructions to operate the Saw. Never allow children to operate the tool.
 - If you are ever unsure about an action you are about to take, please do not do it.
-

Dressing Appropriately

WARNING!

- Always wear protective goggles or safety glasses with side shields that are marked to comply with ANSI Z87.1 standard when using your NEUTON Battery-Powered Pole Saw to protect against thrown chips.
 - We recommend the use of ear protectors or earplugs rated for at least 20 DBA to protect your hearing.
 - Wear shoes with non-slip treads when using the Saw. If you have safety shoes, wear them. Do not use the Saw while barefoot or wearing sandals with exposed toes or heels.
 - Wear a safety hard hat with a full-face shield that meets the ANSI Standards ANSI Z89.1 or CE Standards while operating the pole saw.
 - We recommend wearing long pants and non-slip rubber gloves while using this Saw. Be sure the gloves fit properly and do not have loose cuffs or drawstrings.
-

Preparing to Use Your Pole Saw

WARNING!

Read, understand, and follow all instructions on the Saw and in the manual. Be thoroughly familiar with the control and the proper use of the Saw before starting.

Operating Your Pole Saw Safely

DANGER!

- If the Saw jams on any electrical cord or line, **DO NOT TOUCH THE BAR OR CHAIN, THEY CAN BECOME ELECTRICALLY LIVE AND VERY DANGEROUS.** Safely disconnect the damaged electrical cord or line from its power source. If possible, do so safely. If in doubt, call an electrician or an electrical contractor for assistance. Failure to heed this DANGER will result in death or serious personal injury.
 - This Saw can sever body parts! Keep hands and feet away from the Chain and always keep both hands on the Pole when using the Saw.
-

WARNING!

- Do not use your NEUTON Battery-Powered Pole Saw for any job other than the intended use.
 - Avoid unintentional starting - never carry the NEUTON Battery-Powered Pole Saw with your finger on the ON/OFF Trigger.
 - Protect yourself from electrocution; maintain a minimum of 50ft (15m) from overhead electrical lines.
 - Remove the Battery Pack and wear gloves to protect your hands from the Chain teeth when inspecting or cleaning material from the Saw.
 - Never pick up or hold the Saw by the cutting Chain.
 - Keep both hands securely on pole and handle when carrying or operating the Saw.
 - Be aware that the cutting Chain coasts to a stop after releasing the ON/OFF Trigger; it does not stop immediately.
 - Do not operate the Saw in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.
 - Do not operate the Saw while in a tree, on a ladder or on a scaffold.
 - Never stand under the limb that you are trimming. Position yourself out of the way of falling debris.
 - When not in use, the Pole Saw should be stored indoors in a dry and high or locked-up place, out of the reach of children.
-

CAUTION!

- Do not force the Pole Saw - it will do the job better and with less likelihood of a risk of injury when cutting at its own rate.
- Never over reach the work when using the Saw. Always keep proper footing and balance at all times.
- 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, or spring back, pulling you off balance. Do not cut small vines and/or small underbrush.
- If the Saw vibrates abnormally, stop the motor, remove the Battery Pack, and inspect the tool for any damage. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect its operation. Repair the damage before restarting and operating the Saw. **NOTE:** *Excessive vibration is generally a sign of trouble.*
- Do not operate the Saw if it does not start normally or stop normally with the ON/OFF Trigger Switch.
- Stay alert and watch what you are doing. Do not operate the Saw when you are tired or under the influence of medication, drugs, or alcohol.
- Never operate the Saw in the rain.
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.
- Operate only in daylight or in an area well lit by artificial light.

Handling the Battery Pack Safely

WARNING!

- Always charge the Battery Pack indoors, never charge it the rain or in wet conditions.
- Use only the Neuton Lithium Charger with Neuton Lithium Battery Packs. Do not use the Neuton Lithium Charger with Battery Packs from other manufacturers or other Neuton products. Use of a different Charger may cause a fire or explosion.
- Never attempt to alter or open the Battery Pack or Charger. There are no customer serviceable parts inside. Use normal household voltage (110 volts) when charging the Battery Pack. Plug the Charger Power Supply directly into the electrical outlet.
- Exercise care in handling the Battery Pack in order not to short-circuit it with conducting materials such as rings, bracelets, and keys. When short-circuited, the Battery Pack or conductor may overheat and cause burns.
- Electrolyte leakage from the Battery Pack can be harmful causing serious chemical burns if on the skin or in the eyes. Remove contaminated clothing and wash skin with soap and water. If electrolyte gets in your eyes, flush with cold water for at least 15 minutes and seek medical attention. Inhalation of vapors from a ruptured Battery Pack can cause respiratory irritation, provide fresh air, and seek medical attention.
- Never dispose of the Battery Pack in a fire, as the Battery Pack may explode. Never open or mutilate the Battery Pack; released materials are flammable. If fire or explosion occurs, do not breathe the fumes. A burning Battery Pack will create toxic fumes. Fire fighters should use self-contained breathing apparatus. The fire in the Battery Pack will need to burn out, but the fire can be kept from spreading. If possible, separate the Battery Pack from other flammable materials and use sand, copper powder or powdered graphite fire extinguishers, dry ground dolomite or soda ash to smother the fire.
- Do not ship damaged Battery Packs and be sure to use the original packaging materials when shipping Batteries and tools back to Neuton Power Equipment if you decide you do not want them. Special labeling on the packaging is required because the Batteries are considered hazardous materials. Check with airlines before trying to check Lithium Batteries with your baggage. New regulations are being considered that may restrict packaging and shipping of these Batteries as well as tools with Batteries installed.
- Please dispose of your used Battery Packs responsibly by recycling them, never throw away used Battery Packs in your household trash. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Battery Packs year-round; others collect them periodically.

You can also visit the Web site of Earth 911 for more information [www.earth911.org]. Once there, click the Municipal HHW link under Hazardous Household Waste, and enter your zip code. The site lists recycling centers located near you. You can also visit our website www.neutonpower.com and click on "Customer Service" to find distribution centers across the country that will accept your Battery Pack for 100% recycling of the plastic, and lithium. To learn more about hazardous waste recycling, visit the Web site for the Environmental Protection Agency [www.epa.gov].

No list of Warnings and Cautions can be all-inclusive. If situations occur not covered by this manual, the operator must apply common sense and operate the NEUTON Battery-Powered Pole Saw in a safe manner. Visit our website at www.neutonpower.com or call Toll Free: **1-866-NEUTON1 (638-8661)** for assistance.

Chapter 2: Unpacking and Assembling the NEUTON Battery-Powered Pole Saw

Carton Contents:

- NEUTON Battery-Powered Pole Saw body
- Bar & Chain and Bar Cover
- Battery Pack and Charger (optional)
- *Safety and Operating Instructions*

Unpacking:

1. Carefully remove the contents from the Shipping Carton. Make sure that all items listed in the Carton Contents are included.
2. Inspect the product carefully to make sure no breakage or damage occurred during shipping. If you find damaged or missing parts, call Toll Free: **1-866-NEUTON1 (638-8661)** for assistance.

NOTE: Do not discard the Shipping Carton and packaging material until you are fully satisfied with your new NEUTON Battery-Powered Pole Saw.

Assembling the NEUTON Battery-Powered Pole Saw

Tools and Supplies Required:

- Blade Screwdriver
- Gloves

1. Unscrew the Sprocket Cover Nut by hand and remove the Cover (**Figure 2**).
2. Lay out the Saw Chain in a loop and straighten any kinks. The sharp side of the Teeth should face in the direction of the Chain rotation (**Figure 1**). If they face backwards, turn the loop over.
3. Place the Chain Drive Links into the Bar groove (**Figure 1**).

NOTE: Make certain of the direction of the Chain.

4. Position the Chain so there is a loop at the back of the Bar (**Figure 1**). Hold the Chain in position on the Bar and place the loop around the Sprocket (**Figure 2**).
5. Fit the Bar flush against the mounting surface so that the Bar Slot mounts onto the Slot Flange in the Head and hold firmly in place.

NOTE: When placing the Bar on the Flange, ensure that the Tensioner Pin is in the Chain Tensioner Pin Hole in the Bar (**Figure 2**). Adjust the Chain Tensioner Pin as needed by adjusting the Chain Tensioner with a Flat Tip Screwdriver (**Figure 3**).

6. Tighten the Chain Tensioner Screw (**Figure 3**) only enough to hold the Bar and Chain in place ensuring the Chain is still in place over the Sprocket (**Figure 2**).
7. Install the Sprocket Cover by inserting the Rear Tab first and positioning the Cover onto the Sprocket Cover Stud (**Figure 2**).
8. Install the Sprocket Cover Nut by hand and leave the Bar free to move for tension adjustment (**Figure 4**).
9. Remove all slack from the Chain by turning the Chain Tensioner Screw (**Figure 3**) clockwise until the Chain seats snugly against the Bar with the Drive Links in the Bar groove. For more information on Chain tensioning, see Chapter 4 "Maintaining Your NEUTON Battery-Powered Pole Saw".

NOTE: A cold Chain is correctly tensioned when there is no slack on the underside of the Guide Bar, the Chain is snug, but it can be turned by hand without binding.

10. Tighten the Sprocket Cover Nut (**Figure 4**).

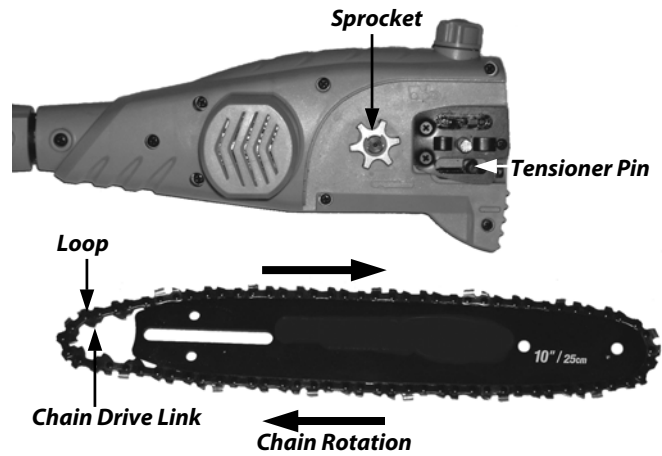


Figure 1

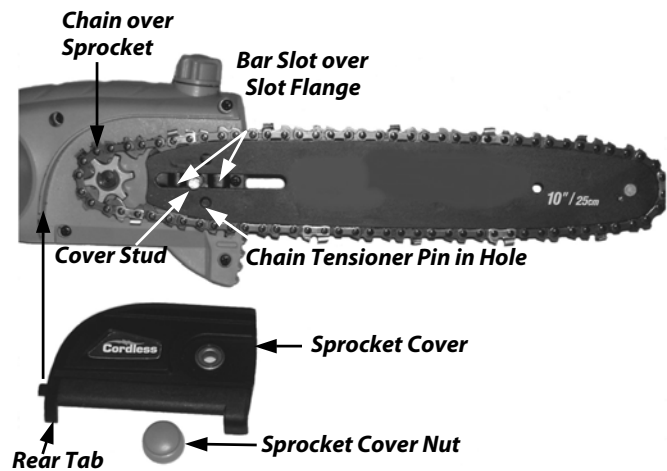


Figure 2

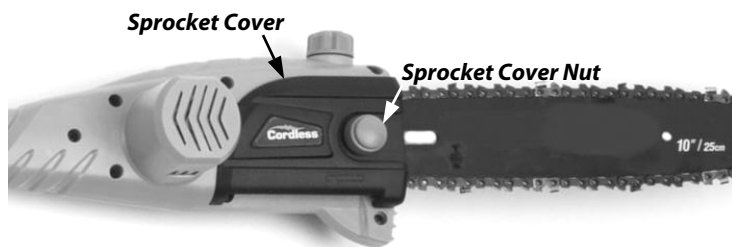


Figure 4

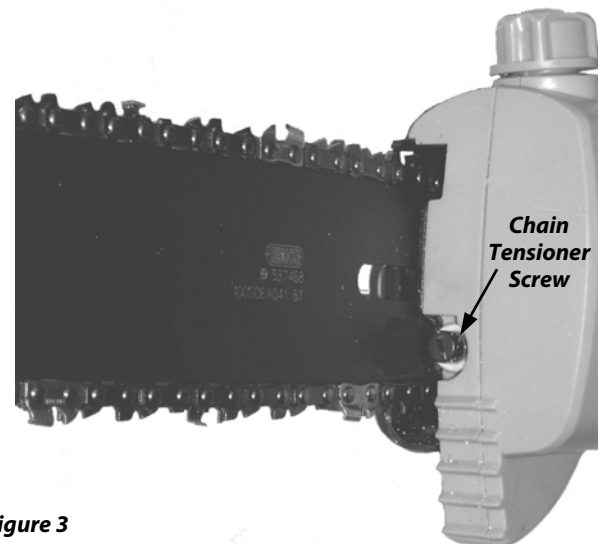


Figure 3

Charge the Battery Pack before your first use.

The NEUTON Battery-Powered Pole Saw uses a sealed, Lithium-Ion Battery Pack (optional). The Battery Pack is 18 volts and rated at 2.6 amp-hours. The Battery Pack should not leak, regardless of the position in which it is stored. Read "Handling the Battery Safely" in Chapter 1 for additional information. The Battery Pack is completely maintenance free. You never need to add water. With all rechargeable Batteries, after years of use, they will eventually need replacement.

You **MUST** charge the Battery Pack for at least 30-60 minutes before you use the Saw for the first time. If you do not charge it before using the Saw, the Battery Pack's charging capacity may decrease.

NOTICE

- Make sure the Charger Power Supply is plugged into a normal household voltage, 120volts, 60Hz, AC only.
- You should operate the Battery Charger in a dry place with temperatures between 32°F (0°C) and +80°F (+26.7°C). Operating above +80 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance.
- Disconnect Charger Power Supply from the household voltage power when not in use to prevent damage to the Charger during a power surge.
- Periodically inspect the Cord on the Charger unit for damage. If damage occurs, do not use the Charger until you have replaced or repaired the Cord. Do not abuse the Cord. Never carry the Charger by the Cord. Always pull the plug – and not the Cord – when disconnecting the Power Supply from the electrical outlet (wall outlet) and from the Charger. When using an extension Cord with your Charger, use a heavy-duty extension Cord of a type 'suitable for outdoor use' (although you should never charge the Battery Pack in the open outdoors).
- The Battery Pack requires 2-3 charging and discharging cycles before reaching full charge ability.
- A Battery Pack may last much longer if you charge it as soon as it starts to lose power and not let it completely discharge. Recharge the Battery Pack as soon as the cutting power of your NEUTON Battery-Powered Pole Saw is no longer effective. This would be a good time to have a spare Battery Pack ready to go. Recharge the Battery Pack for 30-60 minutes until fully charged and remove it from the Charger.
- A good time to consider purchasing a replacement Battery Pack is when it loses its power quickly.

1. Plug the Charger into a standard household electrical outlet (**Figure 5**). The Green LED will glow.
2. Place Battery Pack in the Charger (**Figure 5**). The Battery Pack and Charger have keyways so they will fit together only one way. When properly connected, the RED LED will glow (**Figure 5**). If the RED LED flashes, this indicates a defective or wrong type Battery.
3. The Charger Indicator Light will glow RED continuously while charging. When fully charged the RED LED will change to GREEN, the Charger will shut OFF automatically after two (2) hours and the LED will remain GREEN.

CAUTION!

When installing the Battery Pack, **DO NOT** push the Lock-Off Button or squeeze the Trigger ON/OFF Switch (**Figure 8** on page 7).

1. Install the Charged Battery Pack in your NEUTON Battery-Powered Pole Saw by aligning the connector on the Battery Pack with the receptacle at the rear of the Saw and insert the Battery Pack (**Figure 6**) until the Latches on each side of the Battery Pack snap into place; assuring a secure connection to the Saw. Again, the Battery Pack and Saw Housing have keyways so they will fit together only one way.
2. To remove the Battery Pack, simply press both Latches on sides of the Battery Pack to release the Battery Pack from the NEUTON Battery-Powered Pole Saw Housing (**Figure 6**) and pull the Battery Pack straight out.

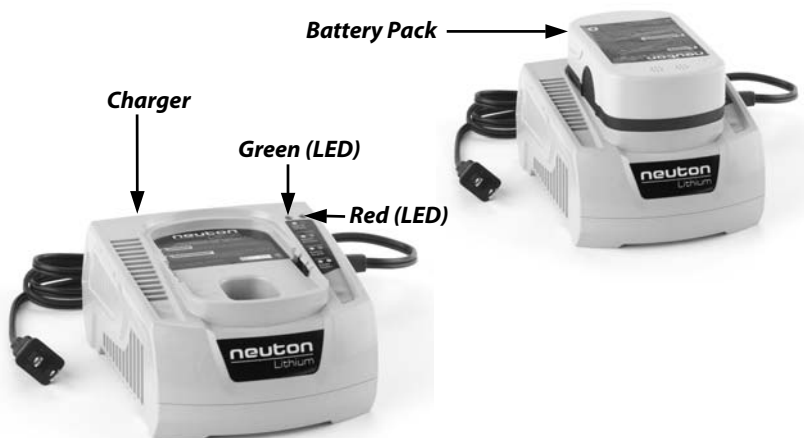


Figure 5

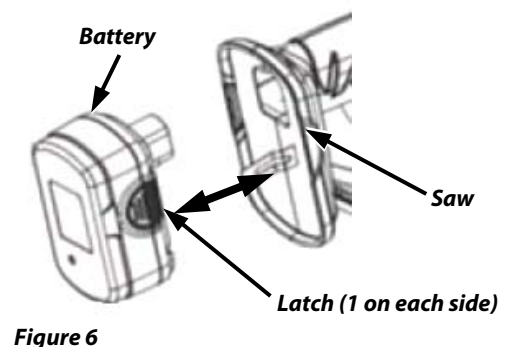


Figure 6

Chapter 3: Operating Your NEUTON Battery-Powered Pole Saw

Starting and Stopping the Saw

NOTICE

- Before starting the Saw, remove the Oil Tank Cap (**Figure 7**) and add #32 Bar & Chain Oil to the top of the Oil Level Window (**Figure 7**). One (1) minute of use will consume approximately 0.15 fl. oz. (5ml) of oil. Refill when the oil level drops to 1/4 of a tank.

NOTE: Your NEUTON Battery-Powered Pole Saw is equipped with an Automatic Oil Pump for Bar and Chain oiling.

- Starting, stopping, and restarting an electric Motor repeatedly within a few seconds can generate a great deal of heat and damage the Motor. To protect the life of your NEUTON Battery-Powered Pole Saw, always wait at least five (5) seconds after stopping before restarting the Saw.

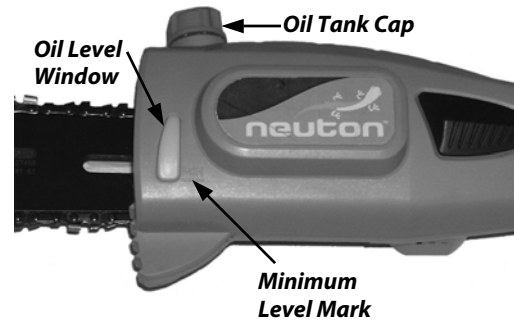


Figure 7

! WARNING!

Be certain that the Chain is not in contact with any object when you start the Motor.

1. Perform the Daily Checks listed on the back cover of this manual.
2. Firmly grip the Rear Handle with your right hand and the Pole with your left hand (whether or not you are right handed or left handed).
3. Push the Lock-Off Button IN (**Figure 8**) with your right thumb and squeeze the Trigger ON/OFF Switch with your fingers. Once the Motor starts you can remove your thumb from the Lock-Off Button. If the Saw does not start, make sure the Battery Pack is charged and locked firmly into place in the Saw Housing.
4. To stop the Saw, simply release the Trigger ON/OFF Switch.

Using the Saw

Adjusting Telescoping Pole (**Figure 9**)

1. Rotate the Collar counterclockwise to loosen (**Figure 9**).
2. Push Poles towards each other to shorten the Pole or pull away from each other to lengthen the Pole.
3. When you achieved the desired length, rotate the Collar clockwise to secure.
4. Be certain you fully tighten the Collars before operating the Saw. Check them periodically for tightness during use to avoid serious injury.

Adjusting the Angle of the Pole Saw Head (**Figure 10**)

1. Turn the Knob on the Rotating Head counterclockwise to loosen the Power Head (**Figure 10**).
2. Adjust to desired position.
3. Turn the Knob clockwise to tighten. Failure to secure the Head properly may result in personal injury and or property damage.

Proper Cutting Stance (**Figure 11**)

- Balance your weight with both feet on solid ground.
- Your body should always be to the left of the Chain Line.
- The most typical cutting application is to position the unit at an angle of 60° or less depending on the specific situation (**Figure 11**). As the angle of the pole saw shaft to ground increases, the difficulty of making the first cut (from the underside of limb) increases.

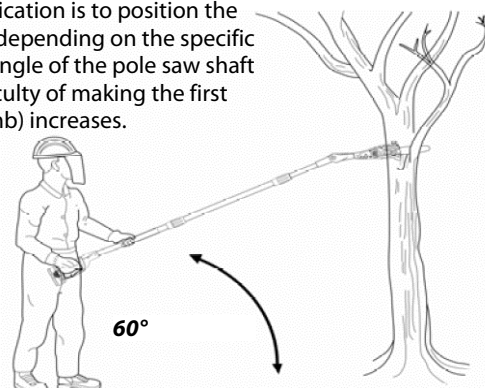


Figure 11

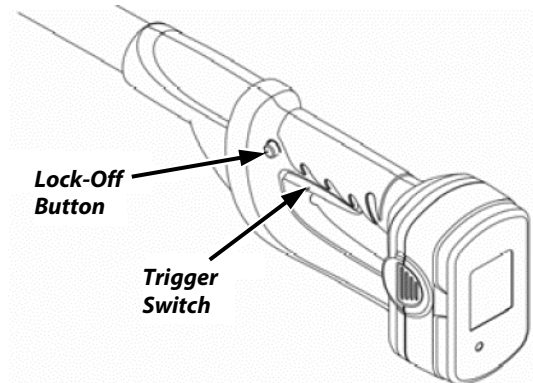


Figure 8

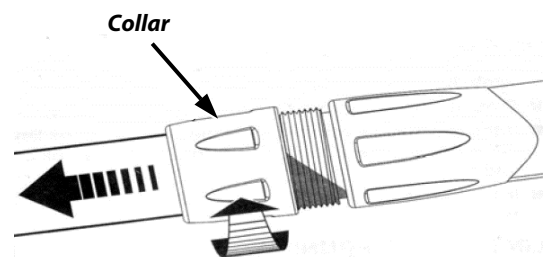


Figure 9



Figure 10

Basic Cutting Procedure

This unit is designed for trimming small branches and limbs up to 6 in. in diameter. Practice cutting a few small limbs 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 tree with the Saw OFF (**Figure 11** on page 7).
- Squeeze the Trigger and let the Chain accelerate to full speed before entering the cut.
- Keep the Saw running the entire time you are cutting, maintain a steady speed.
- Allow the Chain to cut for you; exert only light downward pressure. If you force the cut, damage to the Bar, Chain, or unit can result.
- Push and Pull – This reaction force is always opposite to the direction the Chain is moving when it is in contact with the wood. 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.
- Do not put pressure on the Saw at the end of the cut.

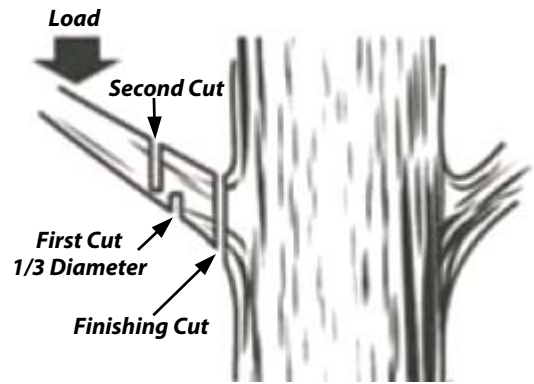


Figure 12

Pruning

Pruning is trimming limbs from a live tree.

- Remove long branches in several stages.
- Cut lower branches first to allow the top branches more room to fall.
- 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.
- Under cut the branch 1/3 through for your first cut. Your second cut should over cut to drop the branch off (**Figure 12**). Be prepared to balance the weight of the Pole Saw tool when the limb falls.



Figure 13

NOTE: For the second and final cuts (from top of limb or branch), hold front Cutting Guide against the limb you are cutting (**Figure 13**). 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.

- Now make your finishing cut from the topside of the branch smoothly and neatly against the main member so the bark will grow back to seal the wound.
- Release the Trigger/ON/OFF Switch 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.

Limbing

Limbing is removing branches from a fallen tree.

- You should cut limbs one at a time. Remove the cut limbs from the work area often to help keep the work area clean and safe.
- Cut branches under tension from the bottom up to avoid binding the Pole Saw.
- Keep the tree between you and the Pole Saw while limbing. Cut from the side of the tree opposite the branch you are cutting.

If the Saw Becomes Pinched or Trapped

1. Wait for the Blade to stop, wait five (5) minutes for the Saw to cool, remove the Battery and wear gloves to protect your hands from the Chain teeth.
2. If you can reach the limb from the ground, lift the limb while holding the Saw. This should release the "PINCH" and free the Saw.
3. If the Saw is still trapped, call a professional for assistance.

Minimize Kickback

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 Pole 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 lightning fast, reverse reaction, which kicks the Guide Bar up and back toward the operator. If the Pole 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 Pole Saw user, you should take several steps to keep your cutting jobs free from accident or injury.

You should follow the following precautions to minimize kickback:

- Before you start the unit, make sure the Pole Saw is not contacting any object.
- Always grip the Pole and Handle firmly with both hands when unit is running. Place one hand on the Pole and your other hand on the Molded Handle with your thumbs and fingers encircling the Pole and Handle. A firm grip together with positioning the Handle against your body will help you maintain control of the Saw if kickback occurs.
- Make sure that the area in which you are cutting is free from obstructions.

- Do not let the Kickback Danger Zone area of the Guide Bar contact a log, branch, fence or any other obstruction that could be hit while you are operating the Saw (**Figure 14**).
- Always cut with the unit running at full speed. Fully squeeze the ON/OFF Trigger and maintain a steady cutting speed.
- Wear non-slip gloves for maximum grip and protection.
- Extend the Pole only to the length required to reach the limb cut. Do not extend the Handle above waist height.



Figure 14

Chapter 4: Maintaining Your NEUTON Battery-Powered Pole Saw

This chapter explains how to adjust the Chain Tension, sharpen the Chain and Guide Bar Maintenance.

! WARNING!

Always remove the Battery Pack before performing any adjustments, maintenance, or repairs to your Pole Saw.

Chain Tension

Check the Chain Tension before using the Saw when the Chain is cold. The correct tension of a cold Chain is when there is no slack on the underside of the Guide Bar, the Chain is snug, but you can turn it by hand without binding.

During normal Saw operation, the temperature of the Chain will increase. The Drive Links of a correctly tensioned warm Chain will hang approximately .050 in. (1.25mm) out of the Bar Groove (**Figure 15**). Be aware that a Chain tensioned while warm, may be too tight upon cooling. Check the "cold tension" before next use.

The Chain must be re-tensioned whenever the Flats on the Drive Links hang out of the Bar groove (**Figure 15**).

NOTE: A new Chain tends to stretch so check the Chain tension frequently and re-tension as required.

Chain Sharpening

For smooth and fast cutting, you need to maintain the Chain properly. The Chain requires sharpening when the wood chips are small and powdery, if you must force the Chain through the wood during cutting, or the Chain cuts to one side.

Guide Bar Maintenance

When the Guide Bar shows signs of wear, turn it over on the Saw to distribute the wear for maximum Bar life. Feathering or burring of the Bar Rails is a normal process of Bar wear. You should smooth such faults with a file as soon as they occur.

Replace a Bar with any of the following faults:

- Wear inside the Bar Rails permitting the Chain to layover sideways.
- Bent Guide Bar
- Cracked or broken Rails
- Spread Rails

Turn the Saw over, check the underside of the Guide Bar, and make sure that the lubrication holes and Chain Groove are free from impurities.

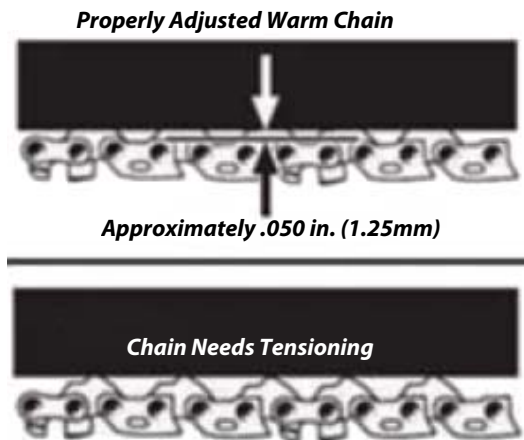


Figure 15

Chapter 5: Troubleshooting Your NEUTON Battery-Powered Pole Saw

Troubleshooting Tips

Most difficulties are easy to fix. Consult the Troubleshooting Table for common problems and their solutions. If you continue to experience problems or need repairs beyond these minor adjustments, visit our website at www.neutonpower.com or call Neuton Power Equipment. Toll Free at: **1-866-NEUTON1 (638-8661)** for assistance.

WARNING!

Always remove the Battery Pack before performing any adjustments, maintenance, or repairs to your Pole Saw.

Troubleshooting Table

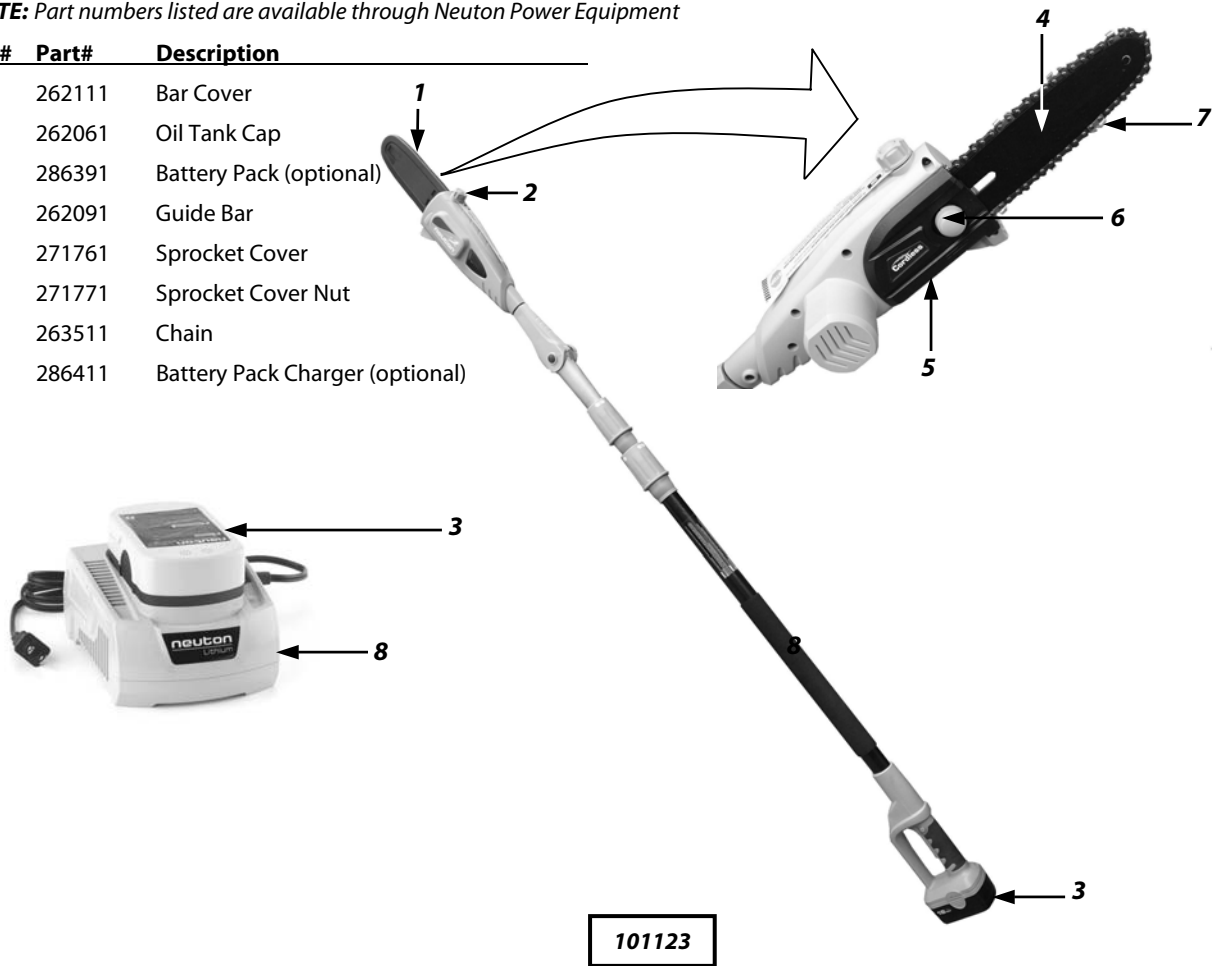
PROBLEM	CORRECTIVE ACTION
<i>The Saw Motor fails to start.</i>	<ul style="list-style-type: none"> ⇒ Check that you installed the Battery Pack correctly and that the Battery Pack is fully charged. ⇒ Make sure that you fully push in the Lock-Off Button before squeezing the ON/OFF Trigger Switch.
<i>The Battery Pack will not charge.</i>	<ul style="list-style-type: none"> ⇒ Check to see if the Battery Pack is all the way into the Charger. Insert the Battery Pack until the RED LED illuminates. ⇒ The Charger Power Supply is not in a working outlet. Check the outlet with a lamp or other appliance. ⇒ Check to see if the outlet that you are using for the Charger Power Supply is controlled from a wall switch. ⇒ The surrounding air temperature is too hot or too cold. Move Charger and Battery Pack to a location where the surrounding air temperature is between 32°F (0°C) and +80°F (+26.7°C).
<i>The Saw runs, but the Chain speed is low.</i>	<ul style="list-style-type: none"> ⇒ The Battery Pack was probably not at full charge prior to cutting. Charge the Battery Pack, if necessary. ⇒ The Chain is too tight re-tension.
<i>The Battery loses its charge quickly.</i>	<ul style="list-style-type: none"> ⇒ The Battery Pack was probably not at full charge prior to cutting. Charge the Battery Pack, if necessary. <p>NOTE: You will need to charge a new Battery Pack 2-3 times to achieve maximum cutting time.</p> <ul style="list-style-type: none"> ⇒ The Battery Pack may be getting old. After some time, you will need to replace the Battery Pack.
<i>Bar and Chain running hot and smoking.</i>	<ul style="list-style-type: none"> ⇒ The Chain tension is too tight, re-tension. ⇒ The Chain Oil Tank is empty, refill. ⇒ The lubrication holes are plugged, clean them out.
<i>The Saw Motor runs, but the Chain is not turning.</i>	<ul style="list-style-type: none"> ⇒ The Chain tension is too tight, re-tension. ⇒ The Guide Bar or Chain is damaged, inspect and replace the damaged part.

Chapter 6: Parts List, Schematic Diagram, and Warranty

Parts List & Schematic Diagram NEUTON Battery-Powered Pole Saw

NOTE: Part numbers listed are available through Neuton Power Equipment

Ref#	Part#	Description
1	262111	Bar Cover
2	262061	Oil Tank Cap
3	286391	Battery Pack (optional)
4	262091	Guide Bar
5	271761	Sprocket Cover
6	271771	Sprocket Cover Nut
7	263511	Chain
8	286411	Battery Pack Charger (optional)



2-Year Limited Warranty Terms and Conditions

The NEUTON® Battery-Powered Pole Saw has a warranty for two (2) years against defects in materials or workmanship when put to personal residential household use.

For the purposes of the warranty, "personal residential household use" refers to non-commercial residential use and further excludes misuse, accidents, or damage due to inadequate maintenance.

Neuton Power Equipment certifies that the NEUTON® Battery-Powered Pole Saw is fit for ordinary purposes for which a product of this type is used. Neuton Power Equipment however, limits the implied warranties of merchantability and fitness in duration to a period of two (2) years in personal residential household use.

The 2-Year Limited Warranty on the NEUTON® Battery-Powered Pole Saw starts on the date the tool shipped from our factory. The 2-Year Limited Warranty is applicable only to the original owner.

The owner is responsible for the performance of all the required maintenance as defined by the manufacturer's owner manual.

The owner is responsible for the replacement of normally wearing parts such as the Battery Pack, Chain, and the Bar Guide.

During the warranty period, the owner is responsible for all shipping and transportation charges, if required.

SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Neuton Power Equipment shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, or cost of hiring services to perform tasks normally performed by the NEUTON® Battery-Powered Pole Saw.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Daily Checklist, Cleaning and Storing for your NEUTON Battery-Powered Pole Saw

To help maintain your NEUTON Pole Saw for optimum performance, we recommend you follow this checklist each time you use your Saw.

WARNING!

Do not insert the Battery Pack until you have completed all of the daily checks.

- [] BATTERY PACK: Make sure the Battery Pack has a full charge.
- [] INSPECT: Before inserting the Battery Pack, inspect for any visible damage to the Chain, Bar Guide, Hand Guard, or Motor Housing. Inspect the oil port and Bar Guide rails and clean them to remove any debris.
 - Check the Chain tension.
 - Check the Chain Teeth for sharpness.
 - Check the Bar and Chain Oil level, fill with only new Chain Oil specifically formulated for Chain Saws.
- [] NOISES: If you notice anything unusual, such as a vibration or odd sound, shut the Saw OFF immediately. Remove the Battery Pack and check the Saw for any damage.
 - If you cannot find the cause of the problem or are uncertain what to do, then have the Saw inspected by a qualified repair shop before using it or visit our website at www.neutonpower.com.

CAUTION!

- Remove the Battery Pack and allow the Saw to cool for at least five (5) minutes before servicing or storing.
- If you drop the Saw, carefully inspect it for damage. If the Battery is damaged, Guide Bar is bent, Housing cracked, or Handles broken or if you see any other condition that may affect the Saw's operation, visit our website at www.neutonpower.com or call Neuton Power Equipment Toll Free at: **1-866-NEUTON1 (638-8661)** for assistance before putting it back into use.

Cleaning the Pole Saw

Use only mild soap and a damp cloth to clean the Saw. Never let any liquid get inside the Motor Housing and NEVER immerse any part of the Saw Housing into a liquid.

Storing

- [] Always store the Saw with a full Battery Pack charge.
- [] Ensure that the plastic Bar Cover is in place when storing.
- [] Do not store the Saw near chemicals, such as fertilizers, organic or other solvents. Do not expose brake fluids, gasoline, petroleum-based products, penetrating oils, etc., to the plastic parts of the Saw. These products are often highly corrosive and may cause permanent damage, weaken, or destroy the plastic to your Saw.
- [] When not in use, your NEUTON Battery-Powered Pole Saw should be stored indoors in a dry and high or locked-up place, out of reach of children.
- [] For superior Battery Pack performance, always store the Battery Pack and Charger in a **DRY** environment with temperatures between 32°F (0°C) and +80°F (+26.7°C). Storing above +80 °F can cause Battery Pack leakage, rust, or degradation of the Battery Pack performance. The lower the storage temperature is within the specified range, the better. The Battery Pack will discharge more slowly at low temperatures. Charge the Battery Pack for 30-60 minutes, until fully charged, prior to storage and then every one (1) to two (2) months; and then again prior to the first seasons use. To prevent permanent damage to the Battery Pack, never store it in a discharged condition. Be sure to remove the Battery Pack from the Charger after charging. In addition, you can safely keep the Battery Pack in your tool when storing for the long term.

WARNING!

Do not store the Battery Pack near children or pets, with metal objects that could short circuit the terminals, or close to a source of heat, sparks, open flame or on the floor as it may be damp or subject to accidental flooding. In addition, never expose the Battery Pack to abnormal shaking or shocks. Regularly observe the external appearance of the Battery Pack. Never use a Battery Pack that shows cracks, changes shape, or obviously damaged.

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Documentation

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