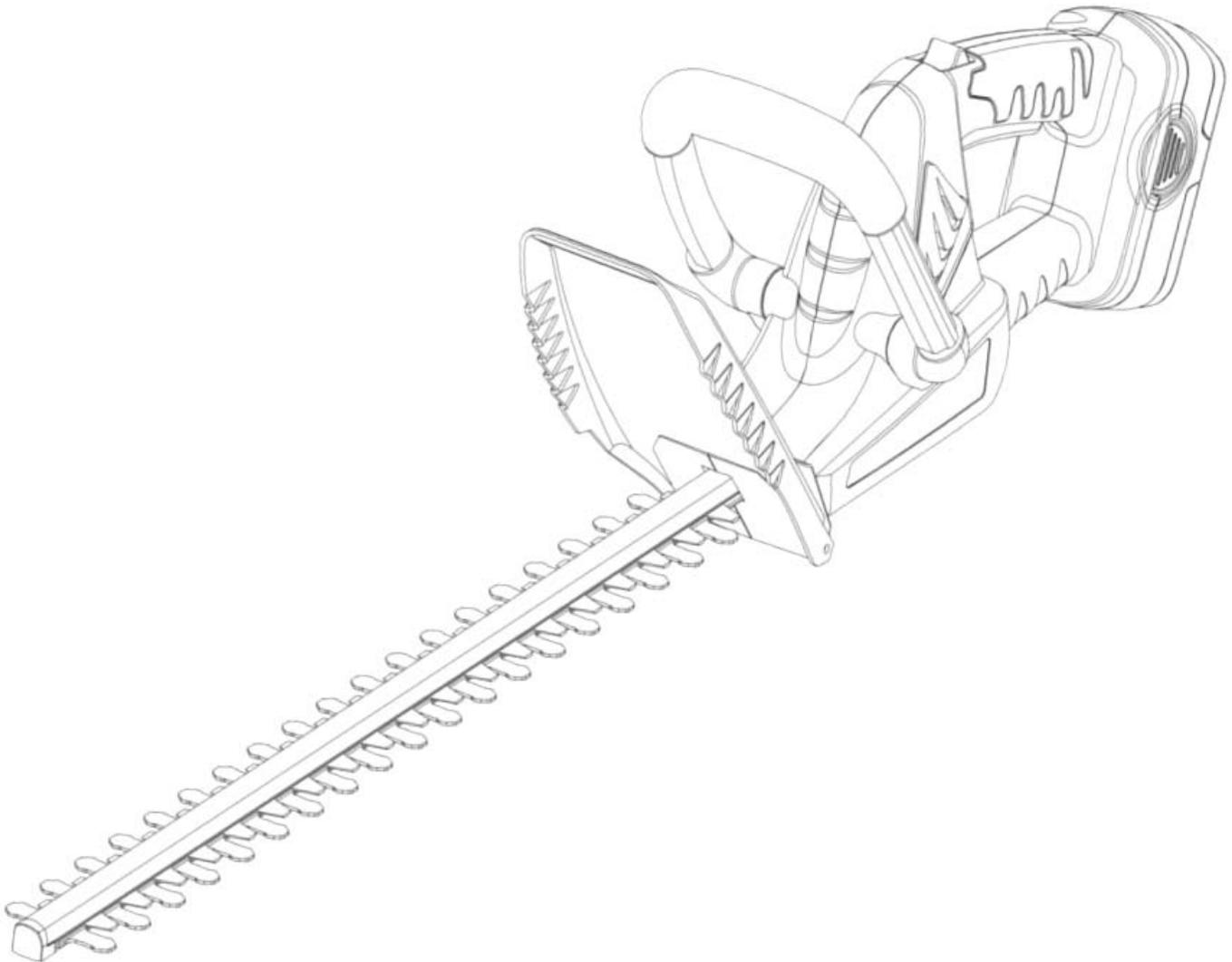




Battery-Powered 22" Hedge Trimmer

Safety & Operating Instructions



NEUTON® Power Equipment

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Read and understand this manual and all instructions before operating this Trimmer.

Table of Contents

Chapter 1: Important Safety Considerations.....	2
Chapter 2: Unpacking the Hedge Trimmer and Charging the Battery Pack	4
Chapter 3: Operating Your NEUTON Battery-Powered 22" Hedge Trimmer.....	6
Chapter 4: Maintaining Your NEUTON Battery-Powered 22" Hedge Trimmer	6
Chapter 5: Troubleshooting Your NEUTON Battery-Powered 22" Hedge Trimmer.....	7
Chapter 6: Parts List, Schematic Diagram, and Warranty	7

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.



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 22" Hedge Trimmer.

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

Neuton Inc. 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 22" Hedge Trimmer Product Specifications

Motor	
Input	18V DC
Controls	
ON/OFF	One (1) Trigger Switch w/Lock-Off Button
Handles	Rubber Molded over the Handles
Trimmer Housing	
Material	Injected Polypropylene
Weight	6.6 lbs. (including Battery)
Trimming	
Blade Length	22 inches
Blade Speed	3,000 Strokes/minute
Maximum diameter cut	1/2 inch
Battery Pack	
Voltage	18V DC, 1.7 AH
Battery Pack Charger	Included with Trimmer. 18V Charger, plugs into standard electrical outlet
Charge Time	5-6 Hours to recharge
Replacement	Easy to snap-in and out of Trimmer housing

Chapter 1: Important Safety Considerations

We want you to enjoy years of safe and productive use from your NEUTON Battery-Powered 22" Hedge Trimmer. 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 Trimmer. Replace damaged or missing safety and information labels immediately.



WARNING Label on side of Motor



Battery Charger WARNING Label



Battery Pack WARNING Label



WARNING/DANGER Label on Blades

Protecting Yourself and Those around You

WARNING!

- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the Trimmer and the activity of trimming. Never assume that children will remain where you last saw them.
- Never allow bystanders, or pets in your work area when operating the Trimmer. Stop the tool if anyone enters the area.
- Only allow responsible individuals who have a thorough understanding of these instructions to operate the Trimmer. 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 22" Hedge Trimmer to protect your eyes from possible thrown clippings.
- 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 Trimmer. If you have safety shoes, wear them. Do not use the Trimmer while barefoot or wearing sandals with exposed toes or heels.
- Wear a protective covering to contain long hair and avoid wearing loose clothing or jewelry, which can catch on the Trimmer's moving parts.
- We recommend wearing long pants and rubber gloves while using this tool. Be sure the gloves fit properly and do not have loose cuffs or drawstrings.

Preparing to Use Your Trimmer

WARNING!

- Read, understand, and follow all instructions on the Trimmer and in the manual. Be thoroughly familiar with the control and the proper use of the Trimmer before starting.
- Thoroughly inspect the area where you will be using the Trimmer, and remove all wire, sticks, and any other foreign objects which could get caught in the Trimmer Blades.

Operating Your Trimmer Safely

DANGER!

- If the Trimmer jams on any electrical cord or line, **DO NOT TOUCH THE BLADES; 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 Trimmer can sever body parts! Keep hands and feet away from the Blades and always keep both hands on the Handles when using the Trimmer.

WARNING!

- Do not use your NEUTON Battery-Powered 22" Hedge Trimmer for any job other than the intended use.
- Avoid unintentional starting - don't carry the NEUTON Battery-Powered 22" Hedge Trimmer with your finger on the ON/OFF Switch.
- Do not put any part of your body near the Trimming Blades when operating. Keep both hands on the Handles.
- Never attempt to move cut material or hold material that you are cutting when the Blades are moving.
- Remove the Battery Pack when inspecting, cleaning, or clearing any jammed material from the Trimmer Blades.
- Never pick up or hold the Trimmer by the cutting Blades.
- Be aware that the cutting Blades coast to a stop after releasing the ON/OFF Trigger; they do not stop immediately.
- Do not operate the Trimmer in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.
- Never over reach and keep proper footing and balance at all times.
- Do not force the Trimmer - it will do the job better and with less likelihood of a risk of injury when cutting at its own rate.
- Operate only in daylight or in an area well lit by artificial light.

CAUTION!

- Never operate the Trimmer in the rain.
- Do not operate the Trimmer on a ladder or on a scaffold
- Watch out for traffic when operating near roadways.
- Stay alert and watch what you are doing. Do not operate the Trimmer when you are tired or under the influence of medication, drugs, or alcohol.
- If the Trimmer 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 Trimmer. **Note:** *Excessive vibration is generally a sign of trouble.*
- Do not operate the Trimmer if it does not start normally or stop normally with the ON/OFF Switch.
- Never use the Trimmer with a damaged or missing Guard.

Handling the Battery Pack Safely

WARNING!

- Always charge the Battery Pack indoors, never charge it the rain or in wet conditions.
- Use only the Charger provided to charge the Battery Pack. 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.
- Never dispose of the Battery Pack in a fire, as the Battery Pack may explode. Never open or mutilate the Battery Pack; released electrolyte is corrosive and will cause damage to eyes, skin, or clothes. Battery Pack electrolyte is toxic if swallowed or if you inhale the fumes.
- A small leakage of liquid from the Battery Pack 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 and neutralize with a mild acid such as lemon juice or vinegar. If the Battery Pack liquid gets in your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.
- 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, nickel and cadmium.

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 22" Hedge Trimmer 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 the Hedge Trimmer and Charging the Battery Pack

Carton Contents:

- NEUTON Battery-Powered 22" Hedge Trimmer (fully assembled) w/Blades Cover
- Battery Pack and Charger
- *Safety and Operating Instructions*

Unpacking:

1. Carefully remove the Trimmer, Battery Pack, Charger, and the *Safety and Operating Instructions* 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 22" Hedge Trimmer.*

Charge the Battery Pack before your first use:

The NEUTON Battery-Powered 22" Hedge Trimmer comes with a sealed, Nickel-Cadmium Battery Pack. The Battery Pack is 18 volts and rated at 1.7 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 five (5) to six (6) hours before you use the Trimmer for the first time. If you do not charge it before using the Trimmer, 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 40°F (5°C) and +95°F (+35°C).
- 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.
- It may take up to five (5) charging and discharging cycles before your Battery Pack provides maximum life.
- 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 22" Hedge Trimmer is no longer effective. This would be a good time to have a spare Battery Pack ready to go. Recharge the Battery Pack for five (5) to six (6) hours and remove it from the Charger.
- A good time to consider purchasing a replacement Battery Pack is when the Battery Pack takes longer than six (6) hours to charge.

1. Plug the Charger Power Supply into a standard household electrical outlet (**Figure 1**).
2. Place Battery Pack in the Charger (**Figure 1**). The Battery Pack and Charger have keyways so they will fit together only one way. When properly connected, the RED Charger Indicator Light (LED) will glow (**Figure 1**).

NOTE: The Charger Indicator Light will glow RED continuously while charging. When fully charged the LED light will glow GREEN.

! CAUTION!

When installing the Battery Pack, **DO NOT** push the Lock-Off Button or squeeze the Trigger ON/OFF Switch (**Figure 2**).

1. Install the Charged Battery Pack in your NEUTON Battery-Powered 22" Hedge Trimmer by aligning the connector on the Battery Pack with the receptacle at the rear of the Trimmer and insert the Battery Pack (**Figure 2**) until the Latches on each side of the Battery Pack snap into place; assuring a secure connection to the Trimmer. Again, the Battery Pack and Trimmer 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 22" Hedge Trimmer Housing (**Figure 2**) and pull the Battery Pack straight back.

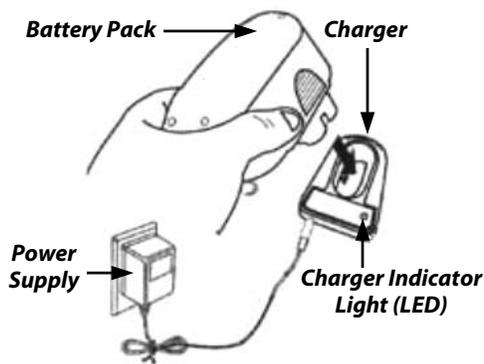


Figure 1

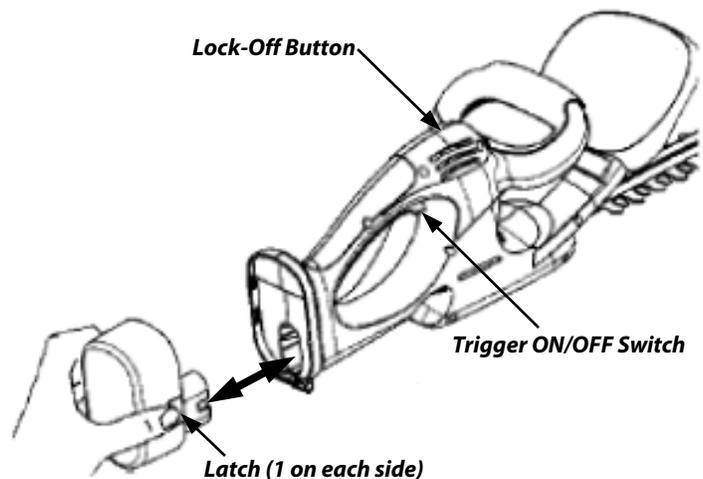


Figure 2

Chapter 3: Operating Your NEUTON Battery-Powered 22" Hedge Trimmer

Starting the Trimmer

! NOTICE!

- 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 22" Hedge Trimmer, always wait at least five (5) seconds after stopping before restarting the Trimmer.
- Avoid collisions with hard objects, which could damage the Cutting Blades.

1. Perform the Daily Checks listed on the back cover of this manual.
2. Push the Lock-Off Button IN (**Figure 2** on page 5) with your thumb and squeeze the Trigger ON/OFF Switch (**Figure 2** on page 5) with your fingers. Once the Motor starts you can remove your thumb from the Lock-Off Button. If the Trimmer does not start, make sure the Battery Pack is charged and locked firmly into place in the Trimmer Housing.
3. To stop the Trimmer, simply release the Trigger ON/OFF Switch.

Using the Trimmer

! WARNING!

- Never hold the tool by the Blade Guard.
- Be certain that the Cutting Blades are not in contact with the hedge that you are trimming when you start the Motor.

Proper Trimming Position (Figure 3)

Hold the Trimmer firmly in both hands and while keeping the unit below waist level; turn the tool ON.

Tip: To obtain exceptionally level hedges, you can stretch a piece of string along the length of the hedge as a guide.

NOTE: Do not use the NEUTON Battery-Powered 22" Hedge Trimmer for cutting stems greater than 1/2". Use the Trimmer only for cutting normal shrubbery found around houses and buildings.

Trimming New Growth (Figure 4)

Use a wide, sweeping motion, while feeding the Blade Teeth through the twigs is most effective. A slight downward tilt of the Blade, in the direction of motion gives the best cutting.

Side-Trimming Hedges (Figure 5)

Begin at the bottom of the hedge and sweep up.

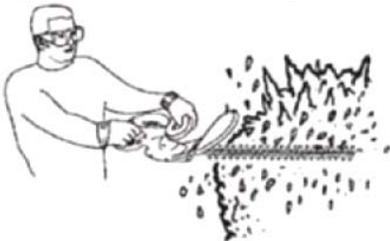


Figure 3



Figure 4



Figure 5

Chapter 4: Maintaining Your NEUTON Battery-Powered 22" Hedge Trimmer

! WARNING!

Always remove the Battery Pack before performing any maintenance, or repairs to your Trimmer.

The Cutting Blades, made from high quality hardened steel, with normal usage; they will not require re-sharpening. However, if you accidentally hit a wire fence, stones, glass, or other hard objects, you may put a nick in the Blade. There is no need to remove this nick as long as it does not interfere with the movement of the Blade. If it does interfere, make sure to remove the Battery Pack from the Trimmer and use a fine-toothed file or sharpening stone to remove the nick.

Lubrication (Figure 6)

Before each use, remove any debris on Blades and apply lightweight machine oil along the edge of the top and bottom straps. Make sure the Handles remain clean and dry.

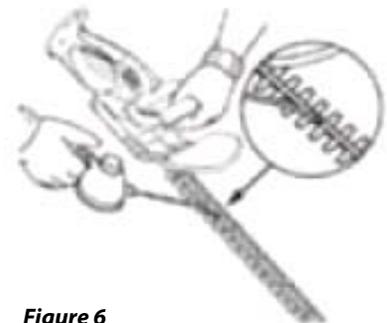


Figure 6

Chapter 5: Troubleshooting Your NEUTON Battery-Powered 22" Hedge Trimmer

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 Inc. 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 Trimmer.

Troubleshooting Table

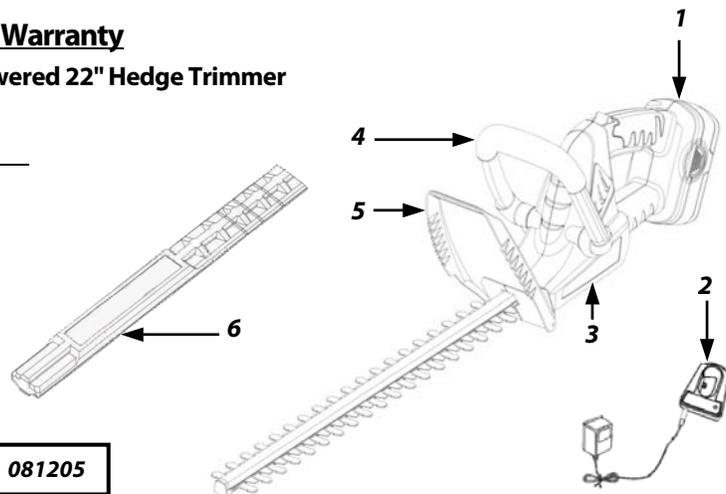
PROBLEM	CORRECTIVE ACTION
<i>The Trimmer Motor fails to start.</i>	<ul style="list-style-type: none"> ⇒ Check that you installed the Battery Pack correctly and that the Battery Pack is fully charged. ⇒ Make sure that you fully push in the Lock-Off Button before squeezing the ON/OFF Trigger Switch.
<i>The Battery Pack will not charge.</i>	<ul style="list-style-type: none"> ⇒ You did not insert the Battery Pack all the way into the Charger. Insert the Battery Pack until the Red LED Light 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 40°F (5°C) and +95°F (+35°C).
<i>The Trimmer runs slow and the Blades are hot and noisy.</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. ⇒ Check the Blades for damage or binding. Straighten the Blades or Blades support as required. ⇒ Lubricate the Blades as required.
<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 trimming. Charge the Battery Pack, if necessary. NOTE: You will need to charge a new Battery Pack at least five (5) times to achieve maximum trimming time. ⇒ The Battery Pack may be getting old. After some time, you will need to replace the Battery Pack.

Chapter 6: Parts List, Schematic Diagram, and Warranty

Parts List & Schematic Diagram NEUTON Battery-Powered 22" Hedge Trimmer

NOTE: Part numbers listed are available through Neuton Inc.

Ref#	Part#	Description
1	262001	Battery Pack
2	262011	Battery Pack Charger
3	262121	Trimmer Motor Housing Assembly
4	262131	Front Handle Assembly
5	262141	Guard, Safety
6	262161	Blade Cover



1-Year Limited Warranty

Terms and Conditions

The NEUTON® Battery-Powered 22" Hedge Trimmer has a warranty for one (1) year 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 Inc. certifies that the NEUTON® Battery-Powered 22" Hedge Trimmer is fit for ordinary purposes for which a product of this type is used. Neuton Inc. however, limits the implied warranties of merchantability and fitness in duration to a period of one (1) year in personal residential household use.

The 1-Year Limited Warranty on the NEUTON® Battery-Powered 22" Hedge Trimmer starts on the date the tool shipped from our factory. The 1-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 and the Cutting Blades.

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 Inc. 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 22" Hedge Trimmer.

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 22" Hedge Trimmer

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

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 Cutting Blades or Trimmer Motor Housing. Inspect the Safety Guard and remove any debris from the Trimmer.
- [] **LUBRICATE:** Apply lightweight machine oil along the edge of the top and bottom straps. See page 6.
- [] **NOISES:** If you notice anything unusual, such as a vibration or odd sound, shut the Trimmer OFF immediately. Remove the Battery Pack and check the Trimmer for any damage.
If you cannot find the cause of the problem or are uncertain what to do, then have the Trimmer 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 Trimmer to cool for at least five (5) minutes before servicing or storing.
- If you drop the Trimmer, 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 Trimmer's operation, visit our website at www.neutonpower.com or call Neuton Inc. Toll Free at: **1-866-NEUTON1 (638-8661)** for assistance before putting it back into use.

Cleaning the Trimmer

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

Storing

- [] Always, store the Trimmer with a full Battery Pack charge.
- [] Ensure that the plastic Blade Cover is in place when storing.
- [] Do not store the Trimmer 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 Trimmer. These products are often highly corrosive and may cause permanent damage, weaken, or destroy the plastic to your Trimmer.
- [] When not in use, your NEUTON Battery-Powered 22" Hedge Trimmer 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 in a **DRY** environment with temperatures between 40°F (5°C) and +95°F (+35°C). Make sure the storage temperatures will never be outside these limits. 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 five (5) to six (6) hours 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. Also, do not store the Battery Pack near children or pets 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, leaks, or is obviously damaged. You can safely keep the Battery Pack in the Trimmer when storing for the long term.

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Documentation

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Neuton Inc.

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