



Li Battery Pack & Charger

Safety & Operating Instructions



NEUTON Power Equipment

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⚠ WARNING!

Read and understand this manual and all instructions before using this Charger and the Battery Pack.

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Conventions used in this Manual

! WARNING!

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

! CAUTION!

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 Charger and Battery Pack. Failure to follow this instruction could result in damage to your Charger, Battery Pack, or property.

TIP: This is a helpful hint to guide you in getting the most out of your NEUTON Li Battery Pack and Charger.

NOTE: This information may be helpful to you in using your Li Battery Pack and Charger.

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 Li Battery Pack and Charger Product Specifications

Battery Pack

Voltage	18V DC, 2.6 AH
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Battery Pack Charger

18V Lithium Charger, plugs into standard electrical outlet
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! CAUTION!

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

Charge Time Replacement	30-60 minutes to recharge Easy to snap-in and out of NEUTON Cordless Tools
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Chapter 1: Important Safety Considerations

We want you to enjoy years of safe and productive use from your NEUTON Li Battery Pack and Charger. We do not want you injured, so please take a few moments to read the following instructions for safely operating using your Li Battery Pack and Charger.

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



Battery Charger WARNING Labels

Battery Pack WARNING Label
286541

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 charge the NEUTON Li Battery Pack in a safe manner. Visit our website at www.neutonpower.com or call Toll Free: 1-866-NEUTON1 (638-8661) for assistance.

Chapter 2: Setting Up Your NEUTON Li Battery Charger

Carton Contents:

- Li Battery Charger
- *Safety and Operating Instructions*

Unpacking:

1. Carefully remove the Li Battery 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 Li Battery and Charger.

Using Your NEUTON Li Battery and Charger:

Step 1: Read the *Safety & Operating Instructions* before proceeding.

For your safety, and for best results, it is important to read the information in "Chapter 1: Important Safety Considerations" before you use the Li Battery and Charger.

Step 2: Charge the Battery Pack before your first use.

Your NEUTON Battery-Powered Tool may use the sealed, Lithium-Ion Battery Pack. 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.

NOTE: You *MUST* charge the Battery Pack for at least 30-60 minutes before you use the Li Battery Pack for the first time. If you do not charge it before using it, 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 power of your NEUTON Battery-Powered Tool 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. The Green LED will glow (**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 LED will glow (**Figure 1**). 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.

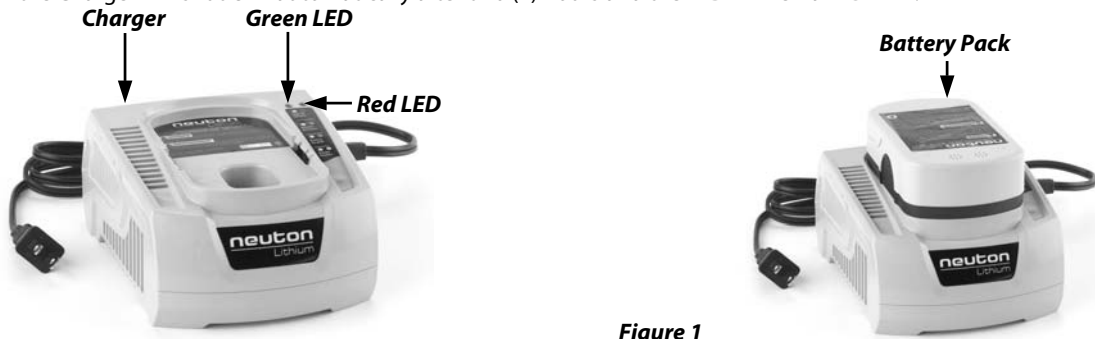


Figure 1

Chapter 3: Troubleshooting Your NEUTON Li Battery Charger

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.neutronpower.com or call Neutron Power Equipment Toll Free at: **1-866-NEUTON1 (638-8661)** for assistance.

Troubleshooting Table

PROBLEM	CORRECTIVE ACTION
The Battery Pack will not charge.	<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 Light illuminates. If the Battery Pack does not seat all the way down, you may have the wrong Charger. ⇒ 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).
The Battery Pack loses its charge quickly.	<ul style="list-style-type: none"> ⇒ The Battery Pack was probably not at full charge prior to using your tool. Charge the Battery Pack, if necessary. NOTE: You will need to charge a new Battery Pack 2-3 times to achieve maximum blowing time. ⇒ The Battery Pack may be getting old. After some time, you will need to replace the Battery Pack.

Chapter 4: Parts List and Warranty

Parts List for your NEUTON Li Battery and Charger (these items may be shipped separately)

NOTE: Part numbers listed are available through Neuton Power Equipment

Ref#	Part#	Description
1	286391	Battery Pack
2	286411	Battery Pack Charger



101201

2-Year Limited Warranty

Terms and Conditions

The NEUTON[®] Li Battery Charger 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[®] Li Battery Charger 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[®] Li Battery Charger starts on the date the Charger 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.

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 Tool should the Charger fail.

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 Li Battery Pack and Charger

To help maintain your NEUTON Battery-Powered Tool for optimum performance, we recommend that you make sure the Battery Pack has a full charge each time you use your tool.

Cleaning the Li Battery Pack and Charger

Use only mild soap and a damp cloth to clean the Li Battery Pack and Charger. Never let any liquid get inside the Charger, on the Battery Pack terminals, and NEVER immerse the Battery Pack or Charger into a liquid.

Storing

- [] Always store the Li Battery Pack with a full charge.
- [] Do not store the Li Battery Pack or Charger 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 Li Battery Pack or Charger. These products are often highly corrosive and may cause permanent damage, weaken, or destroy the plastic of your Li Battery Pack or Charger.
- [] 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. 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 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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Neuton POWER EQUIPMENT

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