



CURRIE TECHNOLOGIES®

Hybrid Electric Bicycles & Scooters

CURRIE TECHNOLOGIES®

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PnP battery pack for use with Currie Technologies® electric scooters

All batteries come in a quick change PnP (Plug and Play) battery pack. SLA (Non-Spillable Sealed Lead Acid) battery packs last over 200 recharge cycles. Charger not included when packs are purchased separately.

- **Part # AC-BAT1-PK** (24V10Ah SLA PnP Battery Pack) for use with IZIP or eZip 400, 450 and 500 series scooter
 - Initial Charge Time is 8 hours
 - Recharge Time is 6-8 hours
 - Do not charge longer than 24 hours
- **Part # BA-PK24-002A** (24V12Ah SLA PnP Battery Pack) for use with IZIP or eZip 750 and 900 series scooter
 - Initial Charge Time is 10 hours
 - Recharge Time is 8-10 hours
 - Do not charge longer than 24 hours
- **Part # AC-BAT2-PK** (36V10Ah SLA PnP Battery Pack) for use with eZip 1000 series scooter
 - Initial Charge Time is 8 hours
 - Recharge Time is 6-8 hours
 - Do not charge longer than 24 hours

Off-board charger adaptors are available for all scooter battery packs. These allow the batteries to be charged when they are not installed in the scooter. Please see our website or call the phone number at the top of this page for ordering information.

- **Part # BA-075** (XLR-3 to PnP) for use with 24V battery chargers
- **Part # BA-075-003** (XLR-4 to PnP) for use with 36V battery chargers

! WARNING

- Read all related instructions before using this product.
- Use of the wrong type of charger could cause a fire and/or explosion resulting in serious injury or death
- To prevent electric shock, do not immerse in water
- Use the charger in dry location only
- Use only Currie Technologies approved 24V SLA charger with 24V10Ah or 24V12Ah SLA PnP battery pack
- Use only Currie Technologies approved 36V SLA charger with 36V10Ah or 36V12Ah SLA PnP battery pack
- This product is not intended for children; it is for adult use only. Charger is not a toy.
- Due to risk of injury never allow children to charge the battery. Battery charging must be done by adults only.
- Due to risk of injury never allow children to handle the battery pack. Battery pack is to be handled by adults only. The battery pack is heavy and contains sulfuric acid (electrolyte). Dropping the battery pack could result in injury.
- In order to prevent fire never modify the electrical system. Alterations could cause fire or explosion resulting in serious injury or death
- Always use the handle of the battery pack to lift or carry the battery pack. Never lift or carry the battery pack by the wires or connector as this may damage the battery pack and possibly cause a fire or explosion.
- The battery pack, charger and charger port should be regularly inspected for damage or excessive wear (cord, plug, enclosure, etc.). If damage or excessive wear is found stop using until item(s) can be repaired or replaced.

! ATTENTION

- Be sure to charge battery pack at least every 90 days even if not used. Doing so will help to maximize the life of your battery pack
- Always be sure to turn the scooter "OFF" after each use via the On/Off power switch.

CHARGING THE BATTERY PACK (when installed in the scooter)

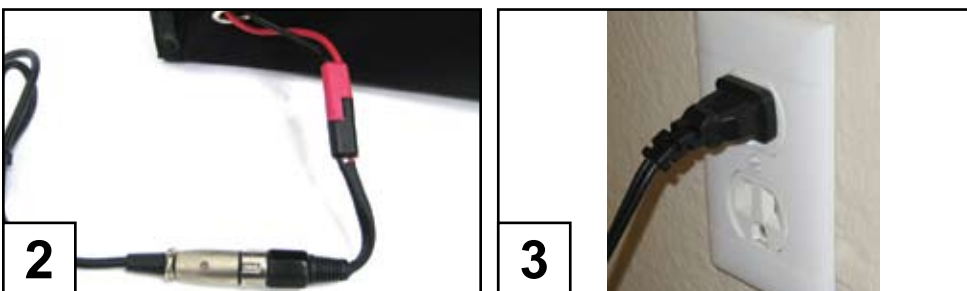
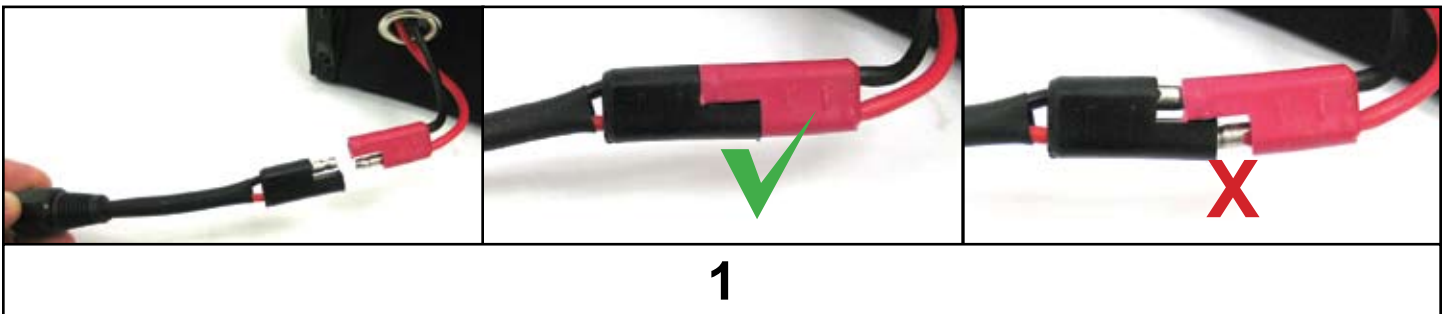
1. Be sure the power switch on the scooter is in the "OFF" position.
2. Rotate the charger port cover open.
3. Insert the battery charger's XLR (Male) plug into the charger port.
4. Plug the battery charger's AC plug into a standard, grounded 110V AC outlet.
5. Let the batteries charge until the charger lights indicate that the batteries are fully charged, then unplug the charger from the scooter and the AC outlet.



CHARGING THE BATTERY PACK OFF-BOARD (with an optional charger adaptor)

Currie batteries can be charged outside of the scooter with an optional adaptor. Please see the first page of this document for more information.

1. Attach the off-board charger adaptor to the battery pack. Be sure to fully insert the connectors into each other.
2. Attach the charger to the off-board charger adaptor.
3. Plug the Battery Charger's AC plug into a standard, grounded 110V AC wall outlet. If the power to the outlet is controlled by a switch be sure the switch is "ON".
4. Let the batteries charge until the charger lights indicate that the batteries are fully charged, then unplug the charger from the scooter and the wall outlet.



REPLACING THE BATTERY PACK

1. Turn the power switch "OFF"
2. Remove the platform by unscrewing the bolt located under the on/off switch.
3. Disconnect the battery pack
4. Remove the battery pack.
5. To install a new battery pack repeat steps 1-4 in reverse order.



BATTERY CARE

Proper maintenance of batteries will maximize their lifespan and capacity. Currie Technologies® warrants your new batteries from the date of purchase only if properly cared for—refer to the limited warranty for details.

Currie uses SLA (Sealed Lead Acid) or Li-Ion (Lithium Ion) batteries in all of our hybrid electric bicycles and scooters. These are both very user-friendly types of batteries when cared for properly.

Care

Even with proper care, rechargeable batteries do not last forever. Every time the battery is discharged and subsequently recharged, its relative capacity decreases by a small percentage. You can maximize the life of your battery by following the instructions in this guide.

- Batteries should be fully charged immediately when they are received for the full recommended charge times.

SLA recommended charge time: 6-10 hours (depending on model)

Li-Ion recommended charge time: 4-6 hours (2-3 hours for Via Urbano). For a complete, 100% charge, leave the battery on the charger for one full hour after the charger indicator light turns green.

- Never charge batteries for longer than 24 hours.
- SLA and Li-Ion batteries do not have a “memory.” Partial discharge/charge cycles will not harm the batteries’ capacity or performance.
- The rated output capacity of a battery is measured at 77°F (25°C). Any variation in this temperature will alter the performance of the battery, and shorten its expected life. High temperatures especially reduce overall battery life & run time.
- Currie bikes and scooters are equipped with a five-minute sleep function. If no activity is detected after five minutes, the bike/scooter will go into “stasis” mode to conserve battery power. Simply cycle the bike/scooter off then on again to re-activate the battery.
- Always be sure to turn the bike/scooter power switch to “OFF” after each use. If you leave the power switch in the “ON” position, or your product has not been charged for a long period of time, the batteries may reach a stage at which they will no longer hold a charge.
- Be friendly to the environment! Be sure to recycle your old batteries at a local battery-recycling center. Do not throw them in the garbage! Check www.call2recycle.org for more information on free battery dropoff locations.

Storage

When storing your batteries for a long period of time (longer than two months):

- Charge your batteries every 90 days to avoid capacity loss. Batteries slowly self-discharge when left unused for a long period of time; if the battery cells are allowed to reach a critically low voltage, their lifespan and capacity will be permanently reduced.
- Always disconnect your charger from the wall outlet and battery before storing the battery.
- Avoid storing your batteries in extreme temperatures, whether hot or cold.
- Batteries are best kept in a cool, dry place. Do not allow batteries to accumulate condensation, as this could cause shorting or corrosion.
- The recommended storage temperature for both SLA and Li-Ion batteries is between 32-77 °F (0-25°C).
- Avoid exposing the battery to extreme heat (104°F or higher) for long periods of time.

FAQ**Q: Do I need to “break-in” my batteries?**

A: Yes, it is recommended that you perform a “break-in” cycle consisting of ~ three discharge/charge cycles to allow your batteries to reach optimum performance. This involves three complete discharges and three complete recharges. After this initial “break-in” cycle the batteries will have maximum possible performance and less line voltage fluctuations under load.

Q: Is it normal that the batteries get warm when recharging?

A: Yes, it is normal that the batteries will become warm to the touch during the recharging process. This is because the increase of internal resistance and less energy conversion efficiency from electric energy to chemical energy.

Q: How long will my batteries last before needing replacement?

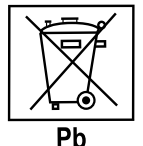
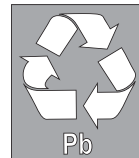
A: Average battery life depends on use and conditions. Even with proper care, rechargeable batteries do not last forever. Conservatively, an SLA battery will come to the end of its useful life after ~200 full discharge/charge cycles, while Li-Ion batteries will last about 500 cycles. A partial charge/discharge counts fractionally against those numbers; running the battery down halfway then recharging it completely uses up one half of a charge cycle.

“End of useful life” refers to the point at which a battery can no longer supply 80% of its original rated capacity in ampere-hours. After this point, the aging process will accelerate and the battery will need to be replaced.

BATTERY DISPOSAL

Please join us in our commitment to improve the environment by recycling your old batteries.

- The PnP battery pack consists of two (for 24V pack) or three (for 36V pack) 12V non-spillable sealed lead acid batteries. They must be recycled or disposed of in an environmentally safe and legal manner.
- The batteries used in the PnP battery packs are chemically identical to common automotive starter batteries and can be returned to any site that accepts automotive lead acid batteries for recycling. Examples include automotive service stores, automotive service centers, battery recyclers, etc. To find a battery recycling facility in your area please visit either of these websites:
 - www.earth911.com
 - www.thinkgreen.com/recycle-where.com
 - www.call2recycle.org
- When recycling lead batteries do not mix them with non-lead batteries. Non-lead batteries pose a fire/explosion hazard if brought to a lead battery recycling facilities. Lead batteries (example: sealed lead acid batteries, etc.) and non-lead batteries (example: lithium ion, nickel metal hydride, etc.) are recycled at different facilities.
- Do not dispose of batteries in a fire due to risk of explosion
- Do not dispose of these batteries in your regular household trash. The incineration and/or disposal in a landfill is prohibited by law in most countries, including the USA.
- In the event of disposal, dispose only in accordance with federal, state and local regulations.
- Protect the environment by not disposing of this product with household waste (Directive 2002/96/EC). Check your local authority for recycling advice and facilities (Europe only).

**ATTENTION**

In the unlikely event that you suspect fluid is leaking from your SLA battery follow the precautions below.

- Internal exposure: If battery acid is ingested give water, milk of magnesia or egg whites immediately. Never give emetics or induce vomiting. Contact a physician immediately.
- External exposure: If battery acid comes in contact with skin or eyes flush immediately with cool water for 15 minutes. Contact a physician immediately.

If the battery develops a leak avoid contact with the fluid (battery acid). Place leaking battery into a plastic bag and dispose of safely and properly.