

# OWNER'S MANUAL

Contains important information about your **JackRabbit**.  
Please read before hopping aboard.



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Please Record Your JackRabbit Information here:

Model: **Basic** **Special Edition** **Fully-accessorized** (please circle one)

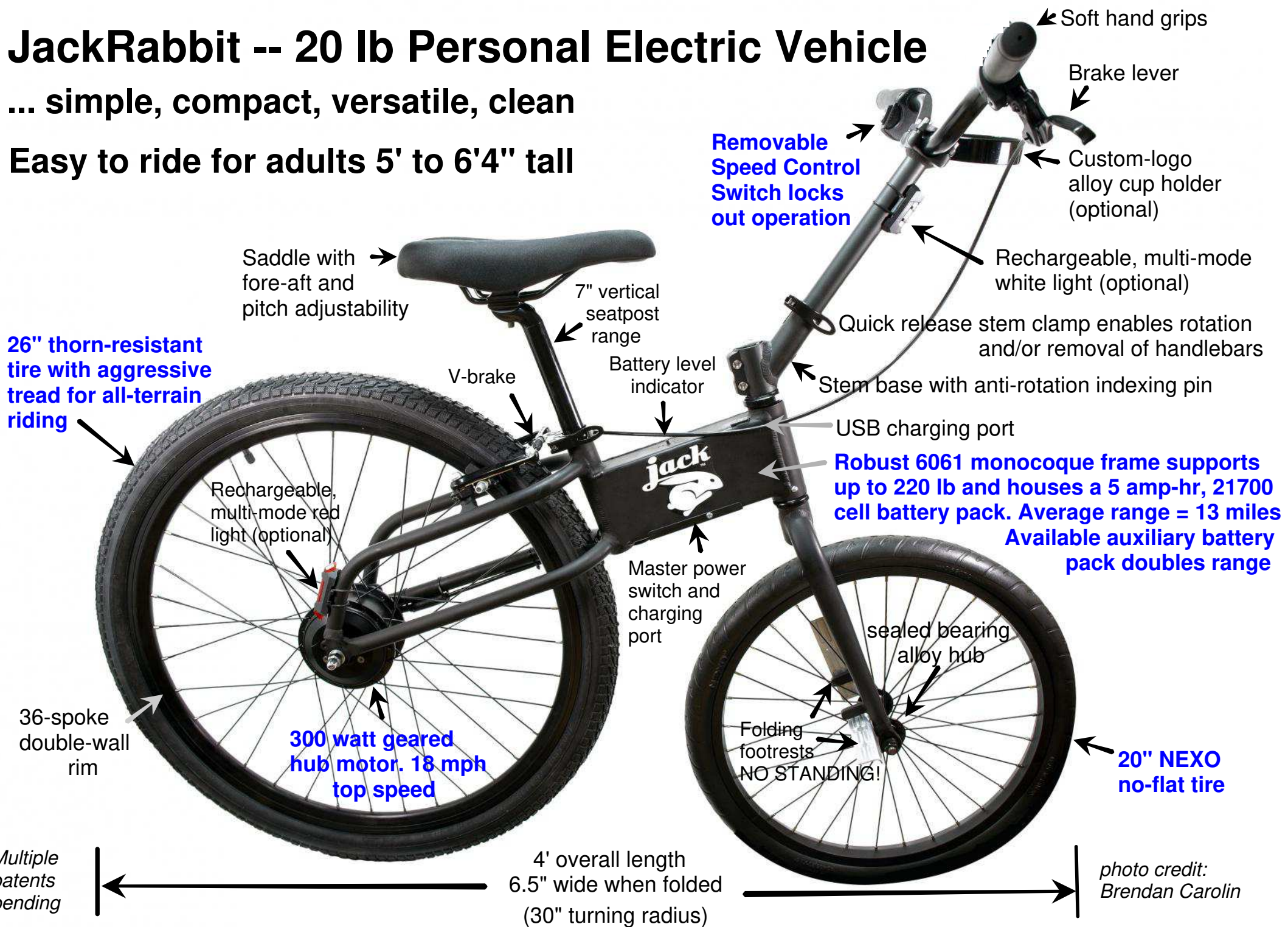
Serial Number: \_\_\_\_\_ Frame/fork color: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_ Location of Purchase: \_\_\_\_\_

# JackRabbit -- 20 lb Personal Electric Vehicle

... simple, compact, versatile, clean

Easy to ride for adults 5' to 6'4" tall



Soft hand grips

Brake lever

Custom-logo alloy cup holder (optional)

Rechargeable, multi-mode white light (optional)

Quick release stem clamp enables rotation and/or removal of handlebars

Stem base with anti-rotation indexing pin

USB charging port

**Robust 6061 monocoque frame supports up to 220 lb and houses a 5 amp-hr, 21700 cell battery pack. Average range = 13 miles Available auxiliary battery pack doubles range**

sealed bearing alloy hub

**20" NEXO no-flat tire**

Folding footrests  
NO STANDING!

Master power switch and charging port

Battery level indicator

V-brake

7" vertical seatpost range

Saddle with fore-aft and pitch adjustability

**26" thorn-resistant tire with aggressive tread for all-terrain riding**

Rechargeable, multi-mode red light (optional)

36-spoke double-wall rim

**300 watt geared hub motor. 18 mph top speed**

4' overall length  
6.5" wide when folded  
(30" turning radius)

Multiple patents pending

photo credit: Brendan Carolin

# ASSEMBLY

## CARTON CONTENTS

- JackRabbit Personal Electric Vehicle
- Speed Control Switch key fob
- Battery Charger
- Tool Kit
- Optional accessories could include:
  - Auxiliary Battery Pack and its charger
  - Extra Speed Control Switch and its key fob
  - Rear Cargo Rack, or mud guard
  - USB rechargeable lights; front & rear
  - Phone Carrier
  - Cup Holder
  - Bell



## INSTRUCTIONS

Your JackRabbit has been 98% pre-assembled and only requires a few steps to get it ready to ride. (The FAQ page of our website links to an assemble video for guidance.)

1. Remove all contents from the carton and record the serial number found on the front of the head tube above the fork. If anything is damaged please contact us.
2. Undo the rubber band that holds the stem/handlebar assembly to the frame. Snap together the two stem wire plugs. *Note: they only fit one way.* Push the black rubber puck into the stem extension before inserting it into the stem base. The notch in the end of the extension will engage the stem base's shear bolt and keep the handlebars centered.
3. The brake cable passes on the left side of the stem--not the right side as shown in the Diagram.
4. Press down the quick release lever to secure the stem extension assembly to the stem base. If necessary turn the thumb nut to adjust the clamp's tightness.
5. Squeeze the hand brake lever to confirm that the brake pads contact the rim.
6. Set the saddle height so that both feet rest flat on the ground when seated.
7. Fold down the footrests.
8. Toggle the power switch on the underside of the frame to the ON (I) position.



Confirm the battery's charge status by pressing the small button on top of the frame. If only the red LED illuminates the battery is 25% charged (30-33 volts) and should be recharged before riding. Thirty minutes of charging will be sufficient to get going!



# OPERATING PROCEDURES

## FIRST RIDE GUIDANCE

Learning to ride JackRabbit is easy. Adjust the saddle height such that both feet rest flat on the ground when seated. Start out on a section of flat, smooth road. Toggle the power switch on the underside of the frame to the ON (I) position. Next, push the top of the Speed Control Switch (SCS) with your left thumb and JackRabbit will slowly start to move. Release your thumb anytime to coast. Experience steering turns without your feet on the folding footrests. Instead, let them drag on the ground to build confidence. Once you get a feel for JackRabbit's handling characteristics put both feet on the footrests while going in a straight line at a slow speed. Gradually introduce steering to sense how your feet and legs react. Most experienced cyclists will need to "unlearn" using their feet. Practice letting your legs just ride along and follow your steering hands. Remember, you can quickly and easily put both feet on the ground at any time. This is something you cannot do on a bicycle, so it's not an instinctive reaction and may therefore take some practice. **DO NOT take your hands off the handlebars while your feet are on the footrests. This could cause you to lose control.**



**WARNING: RIDING YOUR JackRabbit AROUND CARS, PEDESTRIANS, OTHER CYCLISTS OR POTENTIAL HAZARDS BEFORE YOU ARE ABLE TO SAFELY DO SO COULD RESULT IN SEVERE INJURY OR EVEN DEATH.**

**WARNING: PUT YOURSELF IN THE PROPER RIDING POSITION, SEATED ON YOUR JackRabbit, AND BE IN A SUITABLE RIDING AREA, BEFORE PUSHING THE SPEED SWITCH— IN CASE OF UNINTENDED MOVEMENT OF YOUR JackRabbit.**

**STOPPING YOUR JackRabbit: RELEASE THE SPEED CONTROL SWITCH AND APPLY THE HAND BRAKE UNTIL THE VEHICLE COMES TO A COMPLETE STOP. YOU CAN ALSO USE YOUR FEET TO SLOW DOWN...A GOOD REASON TO NOT RIDE BAREFOOT.**



**NEVER EXCEED 18 MPH. USE OF THIS PRODUCT MAY BE A DANGEROUS ACTIVITY AND MAY RESULT IN SERIOUS INJURY OR DEATH, EVEN WHEN USED WITH PROPER SAFETY PRECAUTIONS.**

**OPERATION OF THE JackRabbit BY CHILDREN UNDER THE AGE OF 18 INCREASES THE RISK OF SEVERE INJURY OR EVEN DEATH. THIS PRODUCT IS INTENDED FOR ADULT USE ONLY. JackRabbit IS FUN, BUT NOT A TOY. NEVER PERMIT CHILDREN UNDER THE AGE OF 18 OPERATE IT.**

**DO NOT EXCEED THE WEIGHT LIMIT OF 220 lbs. (100 kg). JackRabbit IS INTENDED FOR SINGLE RIDER USE ONLY. DO NOT RIDE WITH ANY ADDITIONAL PASSENGERS.**

**ALWAYS WEAR PROTECTIVE HEADGEAR WHEN OPERATING JackRabbit.**



**DO NOT RIDE AT NIGHT (IN THE DARK) WITHOUT ILLUMINATING FRONT AND REAR LIGHTS.**

## **TO MINIMIZE THE AFOREMENTIONED RISKS, PLEASE HEED THE FOLLOWING SAFETY PRECAUTIONS**

USE COMMON SENSE in deciding when, where and how you ride your JackRabbit. There are inherent, unavoidable risks in operating any vehicle or bike, especially around other vehicles, people and everyday hazards.

YOUR SAFETY IS UP TO YOU when you are operating your JackRabbit. It is not possible to list all of the do's and don'ts. We only list some here.

DO NOT RIDE IF YOUR ARE NOT COMFORTABLE with the JackRabbit or with the risks of when, where and how you are riding it. It takes physical skills and good judgment to safely operate your JackRabbit.

DO NOT RIDE JackRabbit IN HAZARDOUS AREAS, or in weather or road conditions where you do not have adequate stability and control. JackRabbit was not designed for steep hills, grades or ramps, or for jumps, large bumps, steps, drainage grates, stunts or racing.

JackRabbit IS NOT A TOY. It is NOT child-proof. It is NOT meant for use by children.

DO NOT LET YOUR CELL PHONE OR HEADPHONES or anything else distract you from paying full attention to your operation of your JackRabbit.

NO PASSENGERS are permitted. Any passenger can contribute to a loss of control or stability and may overload the JackRabbit.

DO NOT RIDE in conditions where other vehicles, riders or people cannot see you or where you cannot see them. There is no standard headlight or brake light.

DO NOT RIDE at night (in the dark) without illuminating front and rear lights. (Front and rear lights are standard equipment on the fully-accessorized JackRabbit model.)

DO RIDE SAFELY. Drive defensively. Anticipate hazards. Be aware of the people, vehicles and objects around you.

DO HOLD ON TO THE HANDLEBARS with both hands at all times.

CONTROL YOUR SPEED, keep your right hand near the brake lever while riding down an incline. Heavier riders will pick up speed quickly. Do not exceed 18 mph.

DO COMPLY WITH ALL RULES AND LAWS APPLICABLE TO YOU and YOUR JackRabbit. Rules and laws vary from locale to locale, from state to state and from country to country. It is your responsibility to know and follow those rules and laws, which are subject to change.

## CHECKING AND MAINTAINING ELECTRIC VEHICLE CONDITIONS

Check the condition of your JackRabbit each time you are going to ride it. Make sure the brake and the steering are working properly and that all the components, including the tires are in good condition. Make sure no nuts, bolts, or other parts are loose or damaged. Make sure you are in an acceptable condition to ride.

## PROPER RIDING ATTIRE

Keep all body parts, hair, clothing, or other personal articles out of the way of moving parts such as the wheel and the motor.

DO always wear proper protective equipment, including an approved safety helmet. Helmets may be legally required by local law in your area. Follow the helmet manufacturer's instructions for fit, use, and care of your helmet. We recommend wearing a long-sleeved shirt, long pants and gloves to minimize injury or scrapes in case of an accident. DO wear athletic shoes (lace-up shoes with rubber soles) and DO NOT ride barefoot or in open-toed shoes. Be sure to keep your shoelaces tied and out of the way so they do not get caught in the wheels. Beware of pinching your fingers or getting them caught in parts when operating the vehicle.

## SPEED CONTROL SWITCH (SCS)

This component controls how much power is delivered from the battery to the motor. Pressing and holding the SCS in the top (CRUISE) position permits 5 amps of current to flow--creating between 168 and 116 watts of power at the rear wheel (depending on the state of the battery charge). Pressing and holding the SCS in the bottom (CLIMB) position permits 10 amps of current to flow—creating between 336 and 232 watts of power at the rear wheel. In the absence of any thumb pressure the SCS defaults to the COAST position and no current flows from the battery to the motor. The SCS can be removed from its handlebar cradle. Doing so disables JackRabbit's operation. A blue key fob is provided to secure the SCS to a key chain/ring when it is removed. When re-inserting the SCS please note its proper orientation: CRUISE (I) is up, CLIMB (II) is down. Extra SCS's are only available only to registered JackRabbit owners. The SCS cradle's wire is routed through holes in the handlebars to the stem extension. **Rotating the SCS cradle relative to the handlebars or the handlebars relative to the stem risks severing this wire that connects to the "engine room."**

## DAMPENED AND LIMITED STEERING

JackRabbit's steering action is dampened for a more stable handling feel. To protect the wire routed inside the fork, handlebar rotation is limited. Its small 33" turning radius makes JackRabbit very nimble--easy to maneuver around obstacles in traffic.

## BRAKE

Your JackRabbit is equipped with a rear wheel V-brake for maximum reliability and efficiency. Applying hand pressure to the brake lever adds friction that slows the rear wheel. With the Speed Control Switch in the COAST (default) position, pull the brake lever towards you to slow down. The more pressure applied to the lever, the faster JackRabbit will come to a stop. Please review brake adjustment and service information on Page 8.



**WARNING: STOPPING DISTANCES WILL VARY DEPENDING ON YOUR SPEED, CONDITION OF YOUR TIRES, SURFACE YOU ARE RIDING ON AND YOUR WEIGHT. ALWAYS FAMILIARIZE YOURSELF WITH YOUR STOPPING DISTANCE BEFORE RIDING IN A BUSY PLACE.**

## CLIMBING HILLS

JackRabbit's hill climbing performance is governed by the laws of Newtonian physics. In other words, speed depends on rider weight, available power and slope. Available power is a function of the battery's state of charge. At 50%, the battery charge is 36 volts. When the SCS is pressed in the CLIMB position the rear wheel produces 288 watts of power. This will propel a 120 lb. rider up a 15% slope at 6 mph, or a 240 lb. rider at 3 mph. You can calculate any performance scenario at [www.bikecalculator.com](http://www.bikecalculator.com). If the slope is too steep for a given rider's weight, the controller will automatically cut off current to avoid damage. WHEN JACKRABBIT'S SPEED UP HILL FALLS BELOW 3 MPH IT IS TIME TO EITHER GET OFF AND WALK OR PUSH WITH YOUR FEET. Please visit our YouTube channel for demonstrations of JackRabbit's amazing human-powered modes of operation.

## SADDLE

JackRabbit's saddle and seat post are common bicycle components and therefore interchangeable with other models. Together they offer several dimensions of adjustment. Saddle height can be set from 26.5" to 33.5" above the ground. ***Do not extend the seat post beyond its minimum insertion hash marks.*** The saddle can be moved about 4cm forward or back along its rails. Finally, the pitch of the saddle can be tilted up or down to suit your riding comfort. Feel free to experiment—or even swap in your favorite bicycle saddle.

## TIRES

JackRabbit's front tire is 100% maintenance free. The nitrogen-infused macromolecular material has ride characteristics comparable to traditional pneumatic tires, yet is lighter in weight and will never go flat! The only reason we chose not to use this technology in the rear relates to the potential for panic stops. If the rear wheel is locked up (skids) on an abrasive surface (pavement or concrete), a permanent flat spot may be created. Until ABS technology trickles down to the bicycling industry, we decided this potentiality to be unacceptable. The rear tire thorn resistant. If the rear tire should suffer a puncture, please refer to repair instructions on Page 8.

## FOOTRESTS

The folding footrests are designed to support only the weight of your legs while you are seated on the saddle: 30 lbs. maximum each side. ***They could break and cause injury if stood on!***

## USB PORT

JackRabbit is equipped with a 5-volt, 1-amp USB port for recharging personal devices. When the main battery is fully charged it can recharge a typical smartphone about 25 times. Devices can be powered or recharged while operating your JackRabbit.

## HOW TO FOLD YOUR JACKRABBIT FOR STORAGE/TRANSPORT

JackRabbit shines in its lightweight and ability to fit in small spaces--the back seat of a car, behind a desk, under a table, in a closet, etc. To fold the handlebars flip open the stem's quick release clamp lever. Pull the stem extension out about ½ " (13 mm). Rotate the handlebars 90 degrees. Press down the quick release lever to hold the handlebars in this position. When folded in this manner JackRabbit is only about 6" wide, 4' long and 3' tall.



## BATTERY AND CHARGER USE AND CARE

The charger supplied with your JackRabbit is specifically designed to recharge its lithium-ion cells.

***\*The use of any other charger may cause permanent damage to your JackRabbit Battery\****

Examine the charger regularly for damage to the cord, plug, and other parts. In the event of damage, do not charge JackRabbit's battery until the charger has been repaired or replaced. If the charger emits unusual sounds or odors, immediately stop using it and contact us.

- Recharge the battery after every use. This is the best practice for extending the life of your battery up to 1000 cycles. When it will no longer hold a charge it can be replaced.
- The charger's light will change from **red** to **green** when the battery is fully charged. This will take about 2.5 hours if the battery is fully drained--less time if it is only partially discharged.
- Use only the provided charger, as a lithium ion battery requires a specially designed charger
- Unplug charger and disconnect from your JackRabbit when not in use.
- Never store the battery in a discharged state. (If you will not use your JackRabbit for an extended period of time, charge it fully and then recharge every 3 months)
- Recharge the battery before it becomes completely discharged. (When completely discharged, battery capacity and life span will be reduced.)
- Store battery in a cool, dry place.
- Electrical equipment may generate heat. Keep away from combustible materials.
- Do NOT subject the battery or charger to extremely high temperatures such as in direct sunlight, near a fire, etc.
- Do NOT store in extremely low temperatures.
- Do NOT store the battery or charger in extremely low temperatures.
- Do NOT immerse the battery or charger in water or other liquids.
- Do NOT place the battery or charger near flammable or corrosive substances.
- The charger is NOT weather proof. Keep dry and away from water and fire.
- Do NOT use the battery or charger to power devices other than your JackRabbit.
- Do NOT exceed recommended charging time of 3 hours.
- Do NOT attempt to disassemble, repair or modify the battery.
- Do NOT put the battery in water, salt or acidic solutions.
- Do NOT store in high temperatures such as in direct sunlight, near a fire, etc.
- Follow proper battery disposal procedure: Recycle lithium-ion batteries. Do not throw away in regular trash or attempt to incinerate.

**Warning: Improper use, storage, handling or disposal of a battery or the charger can result in fire, electrocution, serious injury or even death.**



# REPAIR, MAINTENANCE AND APPEARANCE CARE

Simplicity is a hallmark of JackRabbit's design. We've chosen to use mature and readily available components. This design strategy not only improves reliability, but also reduces the documentation you have to read through. This Owner's Manual is half the size of JackRabbit's competitors.

If the rear tire should suffer a puncture you can take your JackRabbit to a bicycle shop where installing a new inner tube will cost about \$15. Or you can:

1. Unhook the V-brake cable--allowing the brake pads to spring out beyond the width of the tire.
2. Unplug the 9-pin motor cable.
3. Loosen the two 15 mm axle bolts with the wrench provided
4. Remove the wheel from the frame.
5. Unseat the tire bead from the rim using a plastic pry tool.
6. Remove the inner tube.
7. Inspect the inside wall of the tire and remove what may remain of the cause of the puncture--otherwise your new tube may pop!
8. Install a new inner tube--or the old one after patching it.
9. Reseat the tire bead then inflate to 40-65 psi. Note: lower pressures increase the chance of a puncture. Higher pressures will not absorb bumps as well.
10. Reinstall the rear wheel in the frame, tighten both axle bolts, re-connect the V-brake's cable.
11. Re-connect the motor cable being careful to align the two highlighted arrows (→ ←) before applying full pressure to achieve the waterproof seal.

The only other maintenance item is the V-brake pad set. As they wear down you can maintain your stopping power by turning the barrel adjuster on the brake lever counter clockwise. The pads will eventually require replacement. They are inexpensive, but their installation may not be trivial.

You can periodically wipe down your JackRabbit with a damp cloth and mild, water-based cleaner to maintain its finish. Store your JackRabbit out of direct sunlight and in a dry, cool environment to prevent unnecessary weathering damage.

This MANUAL is not intended as a detailed service, repair or maintenance manual. You can always email us at JACKRABBITBMOBILITY@GMAIL.com for assistance.

**WARNING: YOU COULD BE SERIOUSLY INJURED OR EVEN KILLED IF YOU IMPROPERLY ATTEMPT OR MAKE REPAIRS.**

## **UPDATES TO WARNINGS AND OWNER'S MANUAL**

We will provide you with updates to our warnings and Owner's Manual on our website, [www.jackrabbit.bike](http://www.jackrabbit.bike). So please check it periodically. We will also email you updated information, so its important that you keep your current email address on file with us. To update your email or contact information, please email us at [jackrabbitmobility@gmail.com](mailto:jackrabbitmobility@gmail.com)

# WARRANTY

All sales of JackRabbit products are final. JackRabbit products cannot be returned unless the product qualifies for repair or replacement under the limited warranty, which is set forth below.

JackRabbit Mobility, LLC (the maker of this limited warranty and sometimes referred to as "we" or "us" or "our") warrants to the original retail purchaser (sometimes referred to as "you") of the JackRabbit product that the product will be free from defects in material and workmanship for a period of 1 year from the date of the first retail purchase of the product.

1. You must be able to demonstrate your purchase of the product, so please keep proof of purchase.
2. You will be responsible for packaging and shipping the product to us, so please keep the original packaging during the warranty period.
3. Email us for all warranty claims at [jackrabbitmobility@gmail.com](mailto:jackrabbitmobility@gmail.com). Be sure to include the proof of purchase and description of product defects. We have the right to reasonably make all warranty claim decisions.
4. If a claim is approved, the purchaser is responsible for proper packaging, adequate insurance and shipment of the product. The purchaser will be reimbursed for shipping charges after assessments and repairs have been made to the product.
5. Our warranty obligation is limited to repairing or, at our discretion, replacing the defective part.
6. This Limited Warranty does not cover normal wear and tear, tires, tubes or cables, or any damage, failure or loss caused by improper assembly, maintenance, repair, storage or use of the product.
7. This warranty does not cover damages caused by alteration of parts, removal or parts, tampering, disassembling, or any installation of parts not manufactured or sold by JackRabbit.
8. This warranty does not cover damages caused by neglect or improper use. Improper use of a JackRabbit includes: street racing, dirt racing, hill racing, or any similar activity; ramp jumping, stunt jumping, or any similar activity.
9. This Limited Warranty will be void if the product is ever used in a manner other than for recreation or transportation, or modified in any material way.
10. We are not liable for incidental or consequential loss or damage due directly or indirectly to the use of this product. We are not liable for any damages or injuries incurred from improper use of the product.
11. The JackRabbit is made to be used under fair weather conditions. We are not liable for damages or injuries resulting from riding in the rain, snow, or any harsh weather conditions.
12. The JackRabbit is not a toy and is not made to be used by persons under 18 years of age.
13. We do not offer an extended warranty.
14. This warranty only applies to product sold by JackRabbit Mobility, LLC directly or through our authorized retailer and only to product sold through distribution channels authorized by us.

JackRabbit Mobility, LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

IN NO EVENT SHALL JackRabbit Mobility, LLC BE LIABLE FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THIS WARRANTY.

SOME STATES DISALLOW CERTAIN DAMAGE EXCLUSIONS; SOME OF THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

Contact Us: [jackrabbitmobility@gmail.com](mailto:jackrabbitmobility@gmail.com)

# ACCESSORIES

AUXILIARY BATTERY PACK has the same energy capacity as the main battery: 5 amp-hours. It straps to the side of the main frame section and plugs into the main charging port. The hook-n-loop attachments make for quick and easy removal. Recharging at a remote location is made possible by inclusion of a separate charger.



REAR CARGO RACK attaches to the seat post and offers 22 lbs. of payload capacity. Not quite up to UBER's standards, but enough for a trip to the market. It also serves as a back spray guard on wet roads.



PHONE CARRIER mounts to the handlebars with special anti-theft bolts. The all-aluminum construction can accommodate smartphones as wide as 100 mm. Unique design allows 360 degree rotation by hand.



CUP HOLDER's black anodized finish features JackRabbit's logo. Strong alloy hoop with foam lining can hold beverage containers up to 3" in diameter.



SPEED CONTROL SWITCH is the key to making your JackRabbit hop! It is only available to registered owners. Having an extra one around could come in handy if your original goes missing. Includes its own key fob.

