ELECTRIC MOTORBIKE
OWNER’S MANUAL

FOR USE WITH THE FOLLOWING PULSE PERFORMANCE PRODUCTS™
• EM-1000

DO NOT RETURN TO STORE! QUESTIONS OR COMMENTS?
CALL (866)-434-6067

NOTE: Manual illustrations are for reference purposes only. Illustrations may not reflect the exact appearance of the actual product. Specifications are subject to change without notice.
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Safety and Warnings

WARNING: Riding an electric motorbike can be a dangerous activity. Certain conditions may cause components to fail without fault of the manufacturer. This motorbike can and is intended to move and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such a thing does occur you can become seriously injured or die, even when using safety equipment and other safety precautions. RIDE AT YOUR OWN RISK AND ALWAYS USE COMMON SENSE.

This manual contains many warnings and cautions concerning the consequences of failing to inspect, maintain or properly use your electric motorbike. Since any incident can result in serious injury or even death, we do not repeat the warning of possible serious injury or death each time such a possibility is mentioned in this manual.

APPROPRIATE RIDING ATTIRE
Always wear proper protective equipment such as:

• Approved safety helmet. (Helmet may be legally required by local law or regulation in your area.)
• Elbow pads and knees pads
• Long sleeved shirt, long pants
• Gloves
• Lace up shoes with rubber soles, never ride barefooted or in sandals, and insure that shoelaces are tied and kept out of the way of the wheels and drive system.

RIDER USE AND PARENTAL SUPERVISION
RIDER MUST NOT EXCEED THE WEIGHT LIMIT OF 120 pounds (54kg). Rider weight does not always mean a person’s size is appropriate to fit or maintain control of the motorbike.

This manual contains extremely important safety information. It is your responsibility to completely review this information and make sure that all riders understand all warnings, cautions, instructions and safety topics and assure that all riders are able to safely and responsibly use this motorbike. Pulse Performance Products™ advises that you periodically review and reinforce all information in this manual with all riders, and that you inspect and maintain your motorbike to insure their safety.

The recommended rider age is 8 years and older. Any rider that is unable to fit comfortably on the motorbike should never attempt to ride it. A parent’s decision to allow their child to use this motorbike should be based on the child’s maturity, skill and their ability to follow rules.

Do not touch the motor or brakes on the motorbike when in use or directly after use as these parts can become extremely hot.

Do not activate the throttle on the hand grip unless you are on the motorbike and in a safe, outdoor environment that is suitable for riding.

Do not attempt or perform stunts or tricks on this electric motorbike. This product is not made to withstand abuse from jumping, curb grinding or any other type of misuse or stunts.
Safety and Warnings

Maintain a hold with both hands on the handlebars at all times.

Never allow more than one person at a time to ride the motorbike.

Never use near steps, water, or swimming pools.

Keep your fingers and other body parts away from the chain, motor, steering system, wheels and all other moving components.

Never ride while using a cell phone or wearing headphones.

Never hitch on to or with another vehicle or pull anyone or anything.

Never immerse the motorbike in water; electrical and drive components could be damaged by water or create other possible unsafe conditions.

Ride only on flat, dry surfaces such as pavement or level ground without loose debris, such as sand, leaves, rocks or gravel. Water, mud, ice, bumpy, uneven, slick, or rough surfaces could impair traction and contribute to possible loss of control. Avoid excessive speeds that can occur from downhill rides which could cause loss of control.

Do not ride at night or in areas of limited visibility.

Do not ride indoors or on surfaces that could become damaged such as carpet or flooring.

Before each cycle of operation, the operator shall perform the preoperational checks specified by the manufacturer; that all guards and pads originally supplied by the manufacturer are in proper place and in serviceable condition.

That any and all axle guards, chain guards, or other covers or guards supplied by the manufacturer are in place and in serviceable condition.

Persons with the following conditions shall be cautioned not to operate: Those with heart conditions, pregnant women, persons with head, back, or neck ailments, or prior surgeries to those areas of the body. Persons with any mental or physical conditions that may make them susceptible to injury or impair their physical dexterity or mental capabilities to recognize, understand, and perform all of the safety instructions and to be able to assume the hazards inherent in unit use.

Maximum operating speed is 10 MPH (16 KM/H).

Before each ride the following checks will need to be performed to the motorbike:

• Ensure that the brake system is functioning properly.

• That all components are properly secured and are functioning according to manufactures specifications.

• Components shall be maintained and repaired in accordance with the manufacturers authorized replacement parts with installation performed by dealers or other skilled individuals.

**USING THE BATTERY CHARGER**

The battery charger should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, if any is found, the motorbike should not be charged until the battery charger has been repaired or replaced.

Use only with the supplied battery charger.

Always use caution when charging.

The battery charger is not a toy and should be operated by an adult.

Never operate battery charger near flammable materials or liquids.

Disconnect the battery charger and unplug from motorbike when not in use.

Do not exceed recommended charging time.

Always disconnect the battery charger from the motorbike prior to wiping down and cleaning with any liquid.

**FAILURE TO HEED TO THE WARNINGS LISTED ABOVE INCREASES RISK OF POTENTIAL SERIOUS INJURY. USE THE APPROPRIATE CAUTION WHEN RIDING AND ALWAYS WEAR PROTECTIVE GEAR.**
Before You Start

**WARNING:** Remove all packing and items from the display box. Make sure that the power switch is turned “OFF” before assembling the motorbike.

Estimated Assembly Time

- Allow up to 25 minutes for assembly, not including initial charge time.
- Allow up to 14 hours for the initial charge (see page 7 for charging information).

![Component Diagram]

**Required Tools**

- 13mm/15mm/10mm/8mm wrenches (included)
- 5mm/6mm hex wrenches (included)
- Phillips screw driver (included on 5mm hex wrench)

**WARNING:** DO NOT USE NON-PULSE PERFORMANCE PRODUCTS™ PRODUCTS WITH YOUR PULSE PERFORMANCE PRODUCTS™ ELECTRIC MOTORBIKE. This motorbike has been built to specific Pulse Performance Products™ design specifications and should not be modified. Altering of the original components may or may not be compatible with the design and will void the warranty.

Questions or concerns? Visit our website at www.pulsescooters.com for replacement parts and technical support, or call (866) 434-6067.
Assembly

**Handlebar Assembly**

Tools required: 6mm hex wrench

1. Align handlebars vertically and horizontally onto clamps (A&B). Install the 4 clamp bolts (C) and washers; tighten even and securely with a 6mm hex wrench (D). Check to ensure handlebars are tight by applying pressure before riding, handlebars should not move backwards or forwards.

**Number Plate Assembly**

Tools required: Phillips Screwdriver

1. Align the number plate with the holes in the fork and install the screws with a Phillips head screwdriver.

**Front Fender Assembly**

Tools required: 5mm hex wrench, 10mm wrench

1. Align fender mount hole with fork hole and install hardware using a 5mm hex wrench and 10mm wrench. Do not over tighten.
Assembly

Front Wheel Assembly

Tools required: 13mm wrench, 15mm wrench

1. Install front axle and hardware through front wheel.

2. Ensure that safety washer tabs are inserted into fork leg hole and tighten axle hardware securely with a 13mm and 15mm wrench.

Tire Inflation

Tools required: Air/tire pump

Tire is inflated to the maximum PSI prior to shipping however some air pressure maybe lost between the manufacture date and your purchase date.

Using a hand pump with a Schrader-type valve and pressure gauge inflate the tires to the recommended PSI as called out on the tire. It is not recommended to use pressurized system similar to the ones found at gas stations as these are designed to inflate automobile tires that have much higher air capacity volumes.

REAR
Remove valve cap and attach pump head to the valve and inflate tire to the recommended PSI called out on the tire. Replace the valve cap.

ENSURE REAR TIRE IS AT THE CORRECT PSI BEFORE RIDING THE MOTORBIKE.

FRONT
Front tire is a solid, puncture proof tire and does not require air maintenance/inflation.

WARNING: It is important to routinely check and maintain tire pressure as this directly impacts the safety and performance of the motor bike. Do not overinflate tire as this can cause damage to the tire or the wheel.

REAR TIRE PSI: 50 MAX
Assembly

Charging the Battery

**WARNING:** Battery must be fully charged before you ride your electric motorbike.

Required components: battery charger

- Initial battery charge time - 14 hours
- Recharges after initial charge - up to 10 hours
- When motorbike is not in regular use batteries need to be charged on a monthly basis to maximize performance

1. Make sure power switch is in the OFF position before plugging in the charger. Insert charger into charging port (A) on the right side of the battery box.

2. Plug the battery charger into a wall power outlet. The light on the charger housing should illuminate. Red LED light indicates battery is charging and a green LED light indicates battery is fully charged.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**FCC instruction for Battery charger:**

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Do not use this product for the first time until you have charged the battery for at least 14 hours. Failure to follow these instructions may damage your product and void your warranty.

Note: Do not store the battery in temperatures above 70°F (21°C) or below 32°F (0°C).

Note: The charger has a small window with one LED light that indicates the charge status. Refer to the illustration on the charger unit for the actual "charging" and "charged" status indication. Your charger may get warm during use; this is normal and is no cause for concern.

Note: Batteries must be recharged at least once a month even when the motorbike is not in use. Failure to do so may result in batteries that will no longer accept a charge.
Hardware Maintenance

Brake
Check the brakes for proper function. When you squeeze the lever, the brake should provide positive braking action. When you apply the brake with the throttle engaged, the brake cut off switch should stop the motor. Make sure that the brakes are not rubbing when the lever is not being applied.

Frame, Fork and Handlebars
Check for cracks or broken connections. Although broken frames are rare, it is possible for aggressive rider to run into a curb or wall and bend or break a frame. Get in the habit of inspecting your motorbike on a regular basis.

Tires
Periodically inspect the wheels for excess wear.

Safety Gear
Always wear proper protective gear such as an approved safety helmet. Elbow pads and knee pads are recommended. Always wear athletic shoes (lace up shoes with rubber soles), never ride barefooted or in sandals, and keep shoelaces tied and out of the way of the wheels, motor and drive system.

Battery
Make sure the power switch is turned off whenever the motorbike is not in use. Never store the product in freezing or below freezing temperatures! Freezing will permanently damage the battery.

Before You Ride

Before you ride always check and for the following:

Safety Gear
Always wear proper protective gear such as:
• Approved safety helmet. (Helmet may be legally required by local law or regulation in your area.)
• Elbow pads and knee pads
• Long sleeved shirt, long pants
• Gloves
• Lace up shoes with rubber soles.

Brake
Check the brakes for proper function. When lever is squeezed it should slow/stop the rear wheel without excessive effort. When you apply the brake with the throttle on, the brake cut off switch should stop the motor. Make sure that the brakes are not rubbing when the lever is not being squeezed. Do not ride the motorbike if the brakes are not functioning properly.

Throttle
Make sure that before throttle is twisted that you are in an open and safe area to ride, you are balanced on the motorbike and have both hands on the handlebar controls.

Tires
Inspect the wheels for excess wear and replace if necessary.

Frame, Fork and Components
Always carefully inspect your motorbike before you ride. Check for cracks, broken worn or loose components which should be repaired or replaced before you ride.

Battery
Always make sure the power switch is in the “off” position whenever the motorbike is not in use. Never store the product in freezing or below freezing temperatures. These low temperatures will permanently damage the battery.

⚠️ WARNING: ⚠️ Always ensure that you are in a safe open area to ride before you engage the throttle. Never twist the throttle without being on the motorbike in a balanced, ready to ride position with both hands on the handlebar controls.

Failure to follow these instructions may damage your motorbike and void your warranty.
Repair and Maintenance

**WARNING:** Turn the power switch "OFF" before conducting any maintenance procedures.

### Adjusting the Brakes

Tools required: 10mm wrench

1. To adjust the brake cable thread clockwise (loosen) or counter clockwise (tighten) the adjuster barrel on the brake lever. Only turn the barrel in small increments until the desired adjustment is reached. If brake continues to need further adjustment proceed to the next step.

2. If the brake cable is still either too tight or too loose use a 10mm wrench to loosen the brake cable pinch bolt for further adjustment on the cable. Ensure that the 10mm nut is securely tightened after the adjustment is made.

**WARNING:** The brake could be capable of locking up and skidding the rear wheel if not applied correctly. Always try and avoid skidding as this could cause you to lose control of the motorbike and will cause damage to the rear tire. Practice using the brake in an unobstructed open area to become familiar with its function and can make smooth controlled stops.
Repair and Maintenance

**WARNING:** Turn the power switch "OFF" before conducting any maintenance procedures.

### Rear Wheel Removal/Replacement

Tools required: Phillips Screwdriver, 8mm wrench, 10mm wrench, 15mm wrench

1. Using a Phillips screwdriver, remove the 6 screws from the chain guard and remove chain guard from frame.

2. Loosen brake cable pinch nut with a 10mm wrench.

3. Remove the brake arm bolt with a Phillips screwdriver and 8mm wrench.

4. Using two 15mm wrenches, loosen the rear axle nuts. Pull the chain tensioner away from the chain and remove chain from chain wheel. Remove wheel from frame.

5. Note the location of all rear wheel hardware and ensure to properly reinstall components.
Repair and Maintenance

**WARNING:** Turn the power switch “OFF” before conducting any maintenance procedures.

Rear Wheel Removal/Replacement (continued)

Tools required: Phillips Screwdriver, 8mm wrench, 10mm wrench, 15mm wrench

6. Place chain onto chain wheel gear and install wheel into frame. Pull tensioner away from the chain and place chain around motor gear. Hand tighten axle nuts and rotate wheel to ensure chain is properly aligned.

7. Align and tighten brake arm bolt with a Phillips screwdriver and 8mm wrench.

8. Retighten brake cable pinch nut with 10mm wrench. Refer to instructions on page 9 for proper adjustment.

9. Securely tighten the rear axle nuts and test brake to ensure proper function prior to riding.
Repair and Maintenance

WARNING: Turn the power switch “OFF” before conducting any maintenance procedures.

Front Wheel Removal/Replacement

Tools required: 13mm wrench, 15mm wrench

1. Loosen axle with 13mm and 15mm wrenches and remove wheel from fork.

2. Install front axle and hardware through front wheel.

3. Ensure that safety washer tabs are inserted into fork leg hole and tighten axle hardware securely with a 13mm and 15mm wrench.
Battery Care and Disposal

Do not store the battery in temperatures above 70°F (21°C) or below 32°F (0°C).

⚠️WARNING: Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.

⚠️WARNING: Make sure to wash your hands after handling batteries as they contain lead compounds.

Disposal: This product contains sealed lead acid batteries which must be disposed or recycled in an environmentally safe manner. Do not dispose of the batteries in your household trash. Do not dispose of the batteries in a fire, this could cause the batteries to leak or explode. The incineration, disposal in landfill and or placing sealed lead acid batteries with household trash is prohibited by law in most areas. Return exhausted batteries to a state or federal approved lead acid battery recycler or check with your local retailer of vehicle batteries.
Repair and Maintenance

Battery Charger

Only use the supplied battery charger. If battery charger is damaged discontinue use immediately and replace with a Pulse Performance Products™ electric motorbike recommended battery charger.

Wheels

Wheels and drive system components are subject to normal wear and tear. It is the responsibility of the user to regularly inspect wheels for excess wear and adjust and replace drive train components as required.

Replacement Parts

Most of the common replacement parts are available for purchase on line at www.pulsescooters.com.

Repair Help

• Check online at www.pulsescooters.com.
• Call (866) 434-6067 to speak with a customer service representative
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorbike will not run.</td>
<td>Battery is not charged.</td>
<td>Fully charge the battery. First charge should be 14 hours and up to 10 hours for recharges.</td>
</tr>
<tr>
<td></td>
<td>Wires or connectors are loose or unplugged.</td>
<td>Check to ensure that charger is tightly plugged into both the wall and the scooter.</td>
</tr>
<tr>
<td>Motorbike run time is short.</td>
<td>Battery requires charging.</td>
<td>Fully charge the battery. First charge should be 14 hours and up to 10 hours for recharges.</td>
</tr>
<tr>
<td></td>
<td>Battery will not accept full charge.</td>
<td>Make sure power flow to the wall outlet is on.</td>
</tr>
<tr>
<td></td>
<td>Brakes are not correctly adjusted.</td>
<td>Refer to the instructions on adjusting the brakes on page 9.</td>
</tr>
<tr>
<td></td>
<td>Rear tire is not properly inflated.</td>
<td>Refer to tire inflation instructions on page 6.</td>
</tr>
<tr>
<td>Motorbike suddenly stops working.</td>
<td>Reset button has tripped.</td>
<td>The reset button (on the left side of the battery box) will automatically trip and turn off the power if the motor is overloaded.</td>
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<tr>
<td></td>
<td></td>
<td>An excessive overload (steep incline or too heavy of a rider) could have caused the motor to overheat and tripped the breaker. If this</td>
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<td></td>
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<td>occurs (scooter suddenly stops running) wait a few seconds and then push the reset button in to reset the circuit. Avoid repeatedly</td>
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<tr>
<td></td>
<td></td>
<td>tripping the breaker.</td>
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<td></td>
<td></td>
<td>Check all wires and connectors to make sure they are connected and tight.</td>
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<tr>
<td>Motorbike makes grinding or loud noises when motor is running.</td>
<td>Chain is dry.</td>
<td>Apply a lubricant to the chain.</td>
</tr>
<tr>
<td>Motorbike runs sluggishly.</td>
<td>Brakes are not correctly adjusted.</td>
<td>Refer to the instructions on adjusting the brakes on page 9.</td>
</tr>
<tr>
<td></td>
<td>Motobike is overloaded.</td>
<td>Make sure you do not overload the motorbike by exceeding the 120 lbs. (54kg.) maximum weight limit, going up steep inclines or towing</td>
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<tr>
<td></td>
<td></td>
<td>objects behind the motorbike. Avoid overloading the motorbike as this will prematurely wear out the batteries and componentry.</td>
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<tr>
<td></td>
<td>Unsuitable riding conditions.</td>
<td>Ride only on solid, flat, clean and dry surfaces such as pavement or level ground.</td>
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<tr>
<td></td>
<td>Rear tire is not properly inflated.</td>
<td>Refer to tire inflation instructions on page 6.</td>
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Motorbike Components

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
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</thead>
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<td>1</td>
<td>Front Wheel</td>
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<tr>
<td>2</td>
<td>Front Wheel Axle</td>
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<td>3</td>
<td>Fender</td>
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<tr>
<td>4</td>
<td>Number Plate</td>
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<td>5</td>
<td>Right Side Cover</td>
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<tr>
<td>6</td>
<td>Controller</td>
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<td>7</td>
<td>Battery Box Right Side Cover</td>
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<td>8</td>
<td>Upper Chain Cover</td>
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<td>9</td>
<td>Throttle</td>
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<td>10</td>
<td>Handlebar</td>
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<td>11</td>
<td>Free Wheel</td>
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<td>12</td>
<td>Handlebar Clamp</td>
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<td>Grip</td>
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<td>Rear Wheel</td>
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<td>Frame</td>
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<td>Lower Chain Cover</td>
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<td>Battery Press Plate</td>
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<td>21</td>
<td>Battery</td>
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<td>22</td>
<td>Kick Stand</td>
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<td>Battery Box Left Side Cover</td>
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<td>Reset Button</td>
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<td>Power Switch</td>
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<td>Left Side Cover</td>
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<td>Upper-left Side Cover</td>
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<td>Upper-right Side Cover</td>
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<td>Drum</td>
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<td>Drum Brake</td>
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<td>Exhaust Pipe</td>
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<td>Seat Pad</td>
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<td>36</td>
<td>Left Foot Plate</td>
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<td>Charger Port</td>
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</table>
Warranty

Pulse Performance Products™ Limited Warranty

The manufacturer warranties this product to be free of manufacturing defects for a period of 90 days from the date of purchase. This Limited Warranty does not cover normal wear and tear, tires, cables, or any damage, failure or loss caused by improper assembly, maintenance, storage or use of this Pulse Performance Products™ electric motorbike.

This Limited Warranty will be void if the product is ever
• used in a manner other than for recreation or transportation
• modified in any way
• used as a rental

The manufacturer is not liable for incidental or consequential loss or damage due directly or indirectly to the use of this product.

Pulse Performance Products™ does not offer an extended warranty. If you have purchased an extended warranty, it must be honored by the store at which the motorbike was purchased from.

For your records, keep your original sales receipt with this manual.

SB 1918 (CALIFORNIA) DECLARATION
YOUR INSURANCE POLICIES MAY NOT PROVIDE ANY COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THIS MOTORBIKE. TO DETERMINE IF ANY COVERAGE IS PROVIDE CONTACT YOUR INSURANCE COMPANY OR INSURANCE AGENT.