



ODK U500 V3 Electric Bicycle

Owner's Manual (English)



Juiced Bikes

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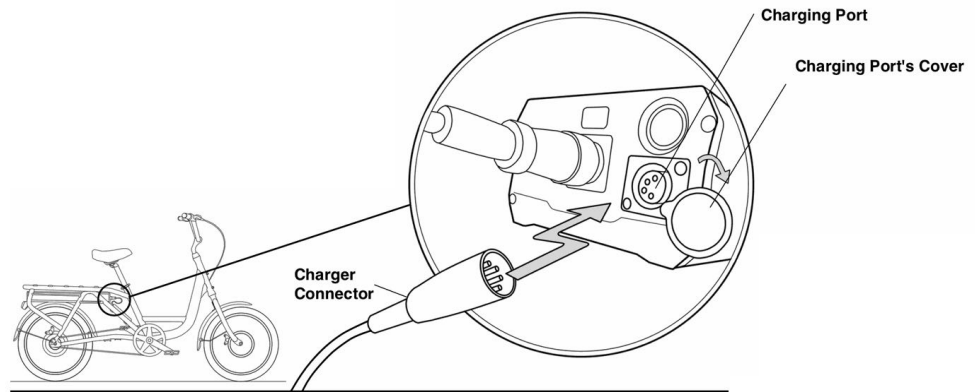
www.JuicedBikes.com

Charging the Battery

The Juiced U500 V3 features a high-capacity Lithium Ion rechargeable battery. Charge the battery fully before your first use. The charger that came with your U500 recognizes the battery pack's initial charge and will automatically cease charging when the battery is fully charged; don't be shy about topping off your battery before a long trip!

- Be sure the bike is powered off.
- Plug the 4-pin plug into the charger port at the front of the battery pack. It can only be inserted one way, so if it plugs in, you've got it right.
- An amber light on the charger indicates that the battery is charging.
- Charging takes between 1 and 6 hours, depending on battery size and initial charge level.
- When the pack is fully charged, the charger's light will change from amber to green and automatically stop charging.

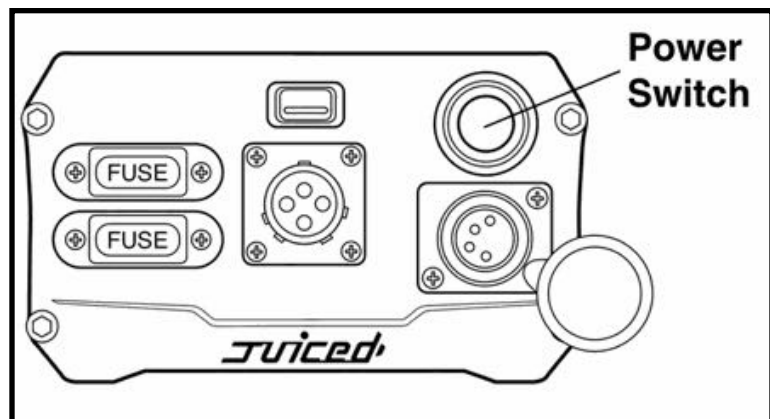
Notice: The charger can become warm during charging. Do not place anything over the charger while it is charging. Do not use the charger in wet areas.



Turning the bicycle ON and OFF

The electric bicycle can be ridden like a normal bicycle with the power turned ON or OFF. However the throttle will be active only if the power is turned on.

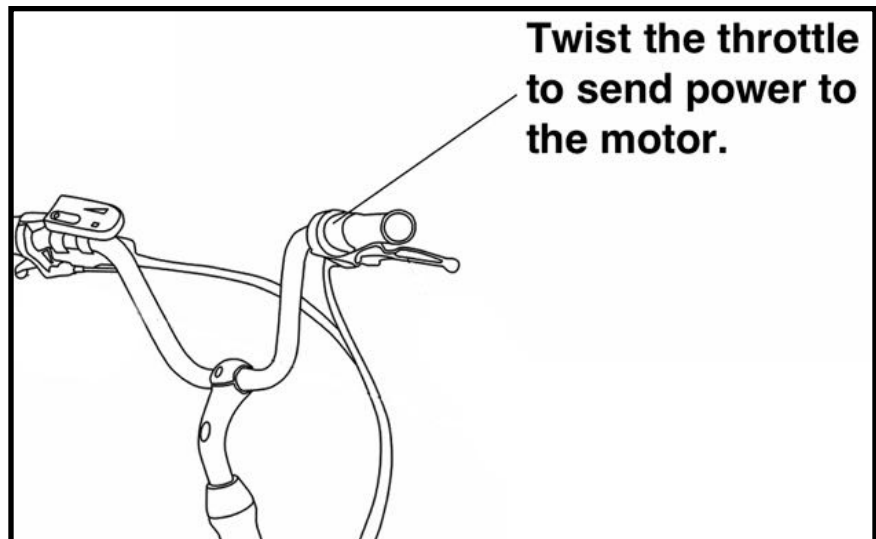
- Locate the power switch on the front face of the battery.
- Flip the power switch to the "ON" position.
- The power button will illuminate with a green light
- The lights on the display panel will illuminate, giving an indication of the battery's charge level.
- The bike can now ride on battery power alone.
- Power should be turned off after each ride to avoid draining the battery.



Using the twist throttle

The motor speed is controlled with a twist throttle similar to a motorcycle. The farther you twist the throttle backwards, the faster the bike will travel.

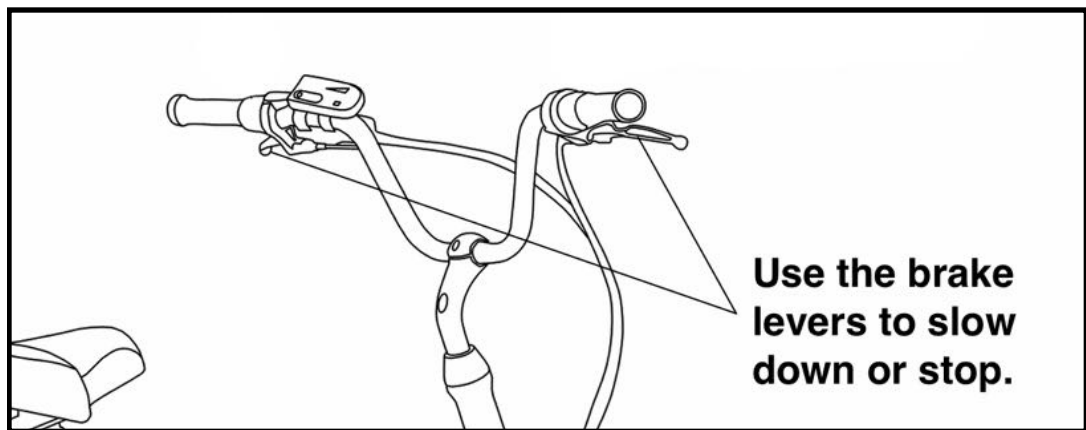
- Sit with a comfortable position on the bicycle's seat.
- Slowly turn the throttle backwards towards you.
- The front wheel will begin turning and the bike will move forward.
- You can pedal along with the motor to increase the riding range of the battery. However pedaling will not directly charge the battery.



Using the Brakes

The bike comes equipped with front and rear Tektro Dorado hydraulic disc brakes; the very best available for e-bikes. The brakes' main function is to slow down or to stop the bicycle.

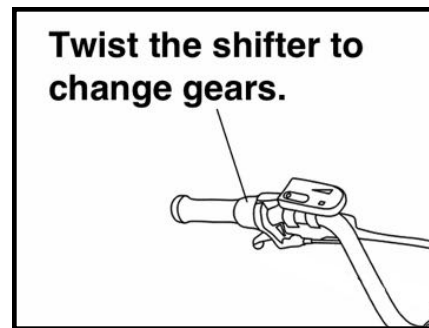
- The brake on the front wheel is controlled by the lever on the left-hand side of the handlebar
- The brake on the rear wheel is controlled by the lever on the right-hand side of the handlebar
- The front brake provides the majority of the bicycle's stopping capability
- When slowing down on slippery surfaces, use the rear brake first before applying the front brake
- A signal wire from each brake lever automatically cuts power to the motor when either brake is being used. This prevents undue wear to the electric motor



Shifting the gears

Your U500 V3 comes equipped with a 3-speed internally geared hub. 1st gear is useful for starting off from a stop or when riding slowly or climbing steep hills. 3rd is most effective when riding at speed. 2nd fits into the space between. The internally-geared hub doesn't require pedaling while changing gears; you can stop at a red light in 3rd, switch to 1st while you're waiting for the green, and take off in 1st with no clickety-clack, no slow-at-first start, and no fear of the chain falling off.

- The shifter is located on the left side of the handlebar.
- Twist the shifter completely back to enter the first gear.
- Twist the shifter forward to enter 2nd and 3rd gears.



When starting and going up hills, use the 1st gear.
When pedaling at higher speeds, use the 2nd and 3rd gears.
Changing gears does not require that the bike be powered by the battery. The gear shifting system and motor are entirely separate and neither affects the other's performance. Both work toward the goal of propelling the bike, of course, and their contributions are additive.

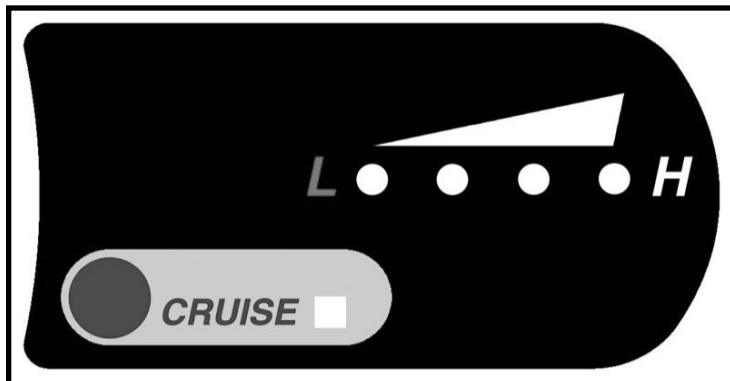
Notice: Twist shifters are normally mounted on the right side of the handlebars. On electric bicycles with right-side twist throttles, the shifter must be mounted on the left and the numbers may appear inverted.

Using the cruise control

The cruise control system can be used to maintain a constant speed. It works similar to a cruise control in an automobile. The cruise control will deactivate if the brakes are applied, if the throttle is moved, or if the CRUISE button pushed again. The bicycle will return to normal operation.

How to use the cruise control feature:

- Use the throttle (with or without pedaling) to attain your desired speed
- Holding the throttle in a fixed position, push the "CRUISE" button
- The LED will illuminate to indicate that the bike is in cruise mode
- Let the throttle return to its initial position (*i.e., let go of it*)
- The bike will now maintain a constant speed until:
 1. *The brakes are applied, or*
 2. *The throttle is applied anew, or*
 3. *The CRUISE button is again pressed, or*
 4. *The battery runs down completely*



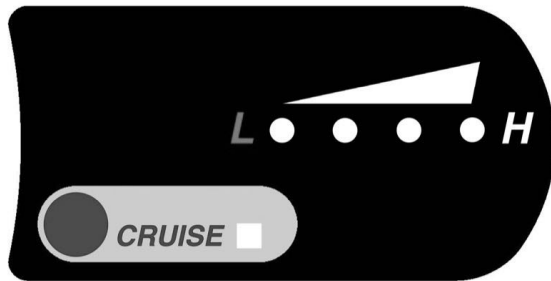
How to read the battery level

There are 4 LED lights on the display panel which will give you an indication of the battery's voltage. Because the battery gauge measures voltage, only an approximate estimation of the battery's state can be obtained. The battery's voltage can vary greatly depending on a variety of conditions.

The voltage will decrease temporarily when using the throttle. It may drop to only 1 light when going uphill regardless of the charge state. This is normal operation. The voltage will be lower if the battery has been in a cold environment.

To more accurately read the battery's charge state, let off the throttle. The display lights will stabilize after 1 second to give an indication of the battery's level.

Use this guideline to estimate the battery's charge level:



Let off the throttle to read the Lights ●●●● 4 Lights

The battery is between 80% and 100% charged.

●●●● 3 Lights

The battery is between 40% and 80% charged. Speed will feel reduced.

●●●● 2 Lights

The battery level is low and should be recharged soon.

●●●● 1 Light

Stop using the throttle, recharge the battery pack.

Understanding Battery Range

All electric bicycles have a riding range that can vary greatly depending on how it is ridden, terrain, tire pressure, temperature, payload and wind. After a few rides, you will get a sense of the electric bicycle's range capability.

Factors that will decrease your range:

- Rapid accelerations using the motor • Uphill riding
- Heavy payloads
- Headwinds
- Under-inflated tires
- Extreme hot or cold weather

How to increase your range:

- Start by pedaling instead of only using the motor
- Avoid rapidly accelerating using the throttle
- Pedaling to help the motor up steep hills
- Reduce your average speed and pedal along with the motor
- Reduce payload weight
- Properly inflating your tires between 40-50 psi
- Coast to a stop and avoid rapid decelerations

Notice: Riding downhill or pedaling when not using the throttle will not recharge the battery pack. Do not over-inflate the tires.

Battery Information and Safety

About the Lithium battery

Your Lithium battery does not have a “memory effect” associated with older battery technologies. It is highly recommended you charge the battery after every ride even if the battery is only lightly used.

An on-board circuit prevents the battery from over-charging. The battery can achieve between 500 to 700 charge cycles. As the battery receives more charge cycles, the capacity will become decreased. Charging a partially flat battery is not considered a full charge cycle.

Notice: The battery must be recharged at least once every month. A battery left unused for several months may result in permanent capacity loss.

The battery’s capacity will be temporarily reduced in cold environments. Avoid using the electric bicycle in very hot weather. Store the electric bicycle in a sheltered place.

Battery Safety Information

- Use only the charger supplied with the bicycle.
- Improper usage can cause explosion or fire.
- Do not short-circuit the battery’s terminals.
- Do not use if the temperature is over 60 C (140 F)
- Do not disassemble the battery pack.
- Do not submerge the battery in liquid.
- Do not set flame to the battery.
- Do not expose battery to sub-freezing temperatures for an extended period.

Key parts of the electric bicycle

An electric bicycle is a lot like a normal bicycle. The major difference is the inclusion of a motor which provides a boost when desired. An onboard rechargeable lithium battery supplies the motor with electric power. The bicycle can be ridden using both pedal power and battery power at the same time.

Controller

The controller regulates how much power is sent from the battery to the motor.

Throttle

The throttle allows the rider to control the bike's speed. It sends a signal to the controller telling it how much power to send to the motor.

Battery

Electrical energy is stored in the battery pack. It is composed of many smaller battery cells similar to that of a modern mobile phone.

Charger

The charger plugs into the electrical outlet and is used to pump energy back into the battery pack when it becomes depleted. The more energy that is discharged from the battery pack, the longer it will take to recharge.

Display

The display reads the battery's voltage. This will give an approximation of the battery's charge state. The display may have other buttons to control other functions.

Motor

The motor is built into the hub of the front wheel. When power is sent to motor, it will began to spin, propelling the bike forward.

Key parts of the electric bicycle (continued)

Gear Shifter

The gear shifter changes the ratio between the pedals and the rear wheel. It is used to find a more comfortable pedaling cadence under different riding conditions. The low gear is used for pedaling during starts, uphill or loaded riding. The higher gears are use when pedaling downhill or during faster riding.

Brakes

The brakes use friction to slow the bike down. The levers on the handlebars controls the braking. The brakes have an electrical switch which cuts the power to the motor at the moment when the brakes are used. This prevents accidental accelerations while braking.

Fuse

The battery has a fuse which is used to prevent excessive amounts of power surging through the wires and damaging the electronics. When the fuse is tripped, it will need to be replaced.

Cruise Control

The cruise control function can automatically maintain the bikes speed without the need to constantly use the throttle.

Tire and Inner tube

The tire is made of rubber and provides traction for your bicycle. The Inner-tube, is a rubber tube inside the tire retains the tire's air.

PSI (Pounds per Square Inch)

The PSI is the pound's per square inch of air pressure inside the tire. It can be measured with a tire gauge. Pumping more air into the tire increases the PSI and makes the tire harder. Releasing air from the tire decreases the PSI and makes the tire softer. Both over and under inflating the tire can have negative effects.

Adjusting the bicycle for riding comfort

1. Adjusting the seat height

Pull the seat clamp lever outward to loosen the seat post. Adjust the seat the desired height. The maximum height should not extend beyond minimum extension mark marked on the seat post. Tighten the seat clamp and close the lever to lock in the seat's height.

2. Adjusting the seat tilt and distance

Using a 6 mm Hex wrench, loosen the bolt under the seat. Adjust the seat tilt and seat distance forward or backward. Tighten the bolt securely to lock in your desired position.

3. Adjusting the stem height

Use a 6mm Hex wrench to loosen the stem. Move the stem up or down to the desired height. The maximum height should not extend beyond minimum extension mark marked on the stem. Check to be sure the handlebars are pointing in the same direction as the wheels. Re-tighten the bolt to lock in the stem's position.

4. Adjusting the handlebar tilt angle

Use a a 5 mm Hex wrench to loosen the two screws near the center of the handlebars. Tilt the handlebars to the desired position. Re-tighten the screws securely to lock in the handlebars. Be sure both screws are tightened equally.

Important Safety Information



Basic Bicycle Safety

- Always wear a helmet.
- Use a light and wear reflective clothing when riding at night.
- Reduce speed when riding on a wet surface.
- Properly inflate tires.
- Apply the rear brake before using front brake in low traction conditions.
- Do not follow other vehicles too closely.
- Brake disk rotors can get extremely hot for brief periods after braking.

Electric Bicycle Safety

- For maximum stability, avoid accelerating or braking while turning.
- Avoid riding in extremely wet conditions.
- Do not leave the electric bicycle in the rain.
- Discontinue the use of the electric bicycle if the battery pack is damaged due to crash or a drop.
- Do not disassemble the battery pack.
- Do not use the charger outdoors in wet conditions.
- Do not ride up or down extremely steep inclines.
- Do not ride off-roads or jump the electric bicycle.
- Always use the kickstand or center stand when not on the bicycle.
- Do not exceed the carrying capacity.
- Do not ride on the sand.
- The motor can get hot, do not touch the body of the motor for at least 2 hours after riding.
- Do not race or taunt other cyclist.

Bicycle Specifications

	2015 Juiced Riders U500 (ODK Version 3)
Type	500 Watt Utility Electric Bicycle
Image	
Spec	3-Speed / 500 W / 48 V / Samsung Lithium Battery
Battery Options	15.6Ah / 23.4Ah / 32.0 Ah
Weight	69 lbs (31.4 kg) at 15Ah
Speed	Throttle + Pedaling: 22 mph (35 km/h) Throttle Only: 20 mph (32 km/h)
Power System	<p>Motor: 500 W Bafang BPM front sensorless geared hub Battery: 48 V , 22 Ah Lithium Ion / Samsung 18650 / 1,056 Wh Enclosure: Custom 3-piece aluminum Charge Cycles: 700 Cycles to 70% Capacity (Charge 0.5C / Discharge 0.7C) Controller: 19 A twist throttle controlled / Cruise control / 4 LED Voltage Meter Wiring: All quick connector system with stainless-steel lock ring Charger: HP / Fan Cooled 3 A charger / 4-pin XLR / UL Listed</p>
Dimensions	70.2" x 29" x 44" (178 cm x 73 cm x 112 cm)
Frame	<p>6061 Aluminum ODK Utility Frame (V3) Integrated rack / Step through / One sized Frame-mounted front basket adaptor / Dual kickstand Bridge-plate Disc brake compatible / Horizontal dropout</p>
Brakes	<p>Front: Tektro HD-E710 / Hydraulic Dual Piston / 180mm Rear: Tektro HD-E710 / Hydraulic Dual Piston / 180mm</p>
Seat	<p>Velo comfort saddle (Wide) Quick release / Seat tube: 31.6 mm</p>
Transmission	<p>3-Speed Internal / Sram i-3 Disc / 16T / Twist shifter Crank: Prowheel 170mm / Chainring: 52T / Wellgo metal platform pedals</p>
Wheels and Tires	<p>Wheels: 20" double wall 36 hole Spokes: Front: 12G / Rear: 13G Tires: 20" x Kenda 924 E-bike tires, Kenda 4x Tube</p>
Fork	JMF02 Custom steel fork w/ 6mm anti-torque dropouts
Accessories Included	<p>Front and rear mud guards Rear LED light (battery powered) Pannier and bungee cord rails Side kickstand (optional center stand)</p>
Steering	<p>Stem: Promax 180mm Custom "Moto-style" handle bars Velo Lock-on grip</p>
Loading Capacity	Rider + Payload: 400 lbs (180 kg)
Warranty	<p>2 Year on frame and components / 2 Year on battery. Our factory warranty is limited to frame, parts and battery for up to 2 years. Tires, tubes and brake pads/rotors are excluded. In the event that there is a warranty claim and we determined that the frame, a part, or the battery is faulty or failed due to defective workmanship by us, we will fully replace such at no charge, however, replacement labor and shipping cost is not covered by this warranty. A supplemental full coverage warranty that covers all parts, labor and shipping costs can be purchased for an additional fee. Normal wear and damage is not covered by this warranty.</p>

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Juiced Bikes Safety Statement

In e-biking, as in cycling, the user's safety is paramount. It's important to understand that e-bikes tend to be ridden at greater speeds than traditional cycles and are therefore more dangerous. Be sure to understand and follow all local laws & regulations and to have maintenance/repairs done by an authorized Juiced dealer. Don't use/ride any Juiced Bikes product in ways unintended by the manufacturer and don't exceed the weight limit of any product.



Don't use/ride our product in traffic or any other environment that may present danger until you have built up some familiarity with the product and all installed accessories. Baskets, lights, passenger seats- EVERYTHING!

Use only parts/accessories approved by Juiced Bikes, and have all installation performed by a Juiced-authorized mechanic. Installation of unauthorized parts/accessories may void the product's warranty. In addition, Improper installation of any parts/accessories as well as improper performance of maintenance may void the product's warranty.



NEVER DISASSEMBLE OR MODIFY ANY ELECTRONIC COMPONENT OF THE BICYCLE. DOING SO IS EXTREMELY DANGEROUS AND MAY RESULT IN DEATH, SERIOUS INJURY, OR DAMAGE TO PROPERTY.

Always wear a helmet, whether the law requires one or not!

Juiced Bikes Warranty

At Juiced Bikes, we take great pride in the quality and durability of our products. We're confident that you will be impressed as well, and we stand behind all of our products.

Every bike/e-bike we sell is covered by a limited 2-year warranty against manufacturing defects subject to the terms below:

Covered Products:

1. This warranty applies only to products, parts, & components (hereafter PRODUCTS) that have been manufactured, assembled, or sold in new condition by Juiced Bikes/Juiced Riders, Inc (hereafter, JUICED).
2. This warranty applies only to replacement/repair of PRODUCTS in case of a manufacturing flaw in materials or workmanship, in accordance with the Scope of Warranty Service, and subject to any and all exclusions, limitations, and procedures explained below.
3. This warranty is **not transferable in any way** and may not be exercised by anyone other than the original retail buyer (hereafter BUYER) of the PRODUCTS, only if the BUYER has retained constant ownership of the PRODUCTS since their original purchase of the PRODUCTS and only to PRODUCTS purchased in **new condition** either:
 - A. directly from JUICED, or
 - B. from an authorized dealer of JUICED who in turn purchased or received the bike directly from JUICED (e.g., this warranty does not apply to used or second-hand bikes, nor does it apply to pre-owned PRODUCTS).

Warranty Period:

1. Battery packs are covered under warranty for a period of 2 years, or until the cumulative total lifetime battery charging exceeds 1000 times the battery's initial nominal charge capacity
2. For all other PRODUCTS, this warranty expires 2 years from the date the PRODUCTS were delivered to the BUYER, unless excluded from warranty or otherwise voided from coverage under warranty

Warranty Exclusions:

*The intent of this warranty is to ensure that the BUYER of any **new** PRODUCTS sold by JUICED or any JUICED product sold by an authorized JUICED dealer will receive a quality product, free of manufacturing flaws. This warranty should not be considered to be an insurance policy against any damage occurring after the products are received, nor as explicit or implicit acceptance by JUICED of responsibility for the consequences resulting from the failure of any PRODUCTS, irrespective of whether the failure itself is covered by this warranty.*

In addition, the following situations are excluded from this warranty or lead to exclusion from this warranty:

1. Warranty claims not made in accordance with Warranty Claims Process (explained below)
2. PRODUCTS with technical alterations that have been made without the approval of the manufacturer
3. PRODUCTS with alterations to or additions to which use incompatible or non-original parts
4. Damage to or failure of PRODUCTS resulting from weather or ordinary wear and tear.
5. Theft, robbery, vandalism, intentional damage, damage resulting from bumps and scrapes after possession of the PRODUCTS has been transferred to the BUYER.
6. PRODUCTS that haven't been manufactured or sold by JUICED
7. Incidental/consequential damage or injury
8. PRODUCTS that have been used or transported inappropriately or improperly (e.g., by loading a JUICED bike above the maximum weight recommendation)
9. PRODUCTS with damage resulting from improper maintenance (e.g., storing battery fully discharged over the winter)
10. Any electrical component that has been opened, altered, partially disassembled, or completely disassembled except by JUICED or an authorized JUICED dealer.
11. Any PRODUCTS that have been disassembled in a manner not authorized by JUICED or that have had repairs attempted by anyone not authorized by JUICED.
12. PRODUCTS that have been damaged due to improper adjustment or worn components
13. PRODUCTS with damage resulting from an accident
14. PRODUCTS that have been lent, leased, or rented commercially
15. Bicycles not registered with JUICED by the BUYER **within 90 days of delivery/sale**
16. Warranty shall not apply to PRODUCTS and/or situations in accordance with the terms of a specific sale (e.g., scratches and dents to scratch & dent discounted merchandise)
17. Cleaning of any PRODUCTS
18. PRODUCTS that were not purchased by BUYER in new condition

Scope of Warranty Service

In case of a warranty claim within the warranty period for a non-excluded situation JUICED agrees to: Repair or replace the failed warranted PRODUCTS with equivalent parts/accessories/components at the discretion of JUICED, by JUICED, an authorized JUICED dealer, or by a third-party with the approval of JUICED. **Replacement parts may not be identical to those being replaced.**

Any additional non-warranty work done concurrently with a warranty repair/replacement will be subject to ordinary parts/labor fees. This includes anything not included by the warranty as well as anything excluded from the warranty.

No service, repair, or parts replacement provided under warranty will extend the original warranty period.

Warranty Claims Process

1. Register your bike within 90 days of purchase. Other products do not require registration
2. If you suspect that any part/component is defective, **do not attempt to repair or replace it yourself or to have it repaired or replaced before contacting JUICED**— doing so may invalidate your warranty and may cause additional damage, not necessarily limited to the PRODUCTS in question, and may also create the risk of injury.
3. Contact JUICED using our online warranty claims form, which can be found at: <http://www.juicedbikes.com/issue-warranty-claim/> OR contact any authorized JUICED dealer (a list can be found at <http://www.juicedbikes.com/dealer/>)
4. We will contact you to make plans for inspection and any warranty repairs.

Severability

The invalidity or unenforceability of any provisions of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement, which shall remain in full force and effect. Any provision of this agreement deemed to be invalid or unenforceable shall be interpreted, unless prohibited by law, in accordance with the provision's intent and in consideration of applicable laws and corresponding industry standards.