



## **Robocycle 3 User Manual**

## **Thank you for purchasing the Robocycle 3.**

Please read and understand this manual fully before assembling and riding your bike. If you have any questions after reading through this manual, do not hesitate to check out [www.robocycle.co/f-a-q/](http://www.robocycle.co/f-a-q/) or contact us at Robocycle Contact Us page.

Feel free to also email us at: [hello@robocycle.co](mailto:hello@robocycle.co) at any time if you have further questions. We will get back to you and help you with any questions or concerns!

## IMPORTANT NOTICE

You **MUST** read and understand the full manual before assembly or riding the Robocycle 3. Please retain this manual for any future reference.

This manual contains information on details of product, assembly, information on operation, maintenance and other helpful tips for your Robocycle 3. Please familiarize yourself with the manual in order to prevent accidents.

This manual contains many warnings, and cautions concerning the safer operation and consequences if proper setup, operation and maintenance are not performed.



If you do not understand any parts of this manual, please do not use the Robocycle 3 and contact Robocycle immediately. Any sections marked by the Triangular Caution Symbol should be given extra attention.

**PLEASE READ:**

We cannot anticipate every situation or condition while riding a Robocycle, keep in mind that this manual makes no representations about the safe use of bikes under all conditions. There are risks associated with the use of bikes or electric bikes which cannot be predicted, they are the sole responsibility of the rider. Keep in mind that all content in this manual is subject to change or withdrawal without notice as Robocycle makes every effort to ensure the accuracy of its documentation and assumes no responsibility of liability if any errors or inaccuracies appear within. Assembly and first adjustments of your Robocycle requires specialized tools and Robocycle recommends this be done by a certified, reputable mechanic.

Under no circumstances, shall Robocycle be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, including but not limited to physical injury, mental injury, loss of income, monetary damages and injury to a third party whatsoever arising out of or connected with the use or misuse of Robocycle

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## Must read before you begin:

Even if you have the experience, skill and tools to complete putting together your Robocycle, we still recommend a certified and reputable mechanic check over your assembly before you ride.



**Critical:** The Robocycle 3 requires extra steps to secure the front wheel and check the tightness of both the front and rear wheel axle nuts. Both wheels need to be PROPERLY SECURED before every operation of your Robocycle 3. Please check these nuts at minimum every 40 miles (64 kilometers), if they are loose or you are concerned about the tightness of them, please immediately stop using the Robocycle 3 until they are tightened to and checked.

## **Your Local Laws**

Before using your Robocycle, please familiarize yourself with your local laws pertaining to using an electric bike in your region.

## **Changing Components or Attaching Accessories**

Be aware that changing any components that do not come with the original Robocycle 3 can absolutely jeopardize the safety of you and your Robocycle 3. Robocycle does not recommend changing original components or adding third-party accessories to your Robocycle 3. Using third party accessories, may not only damage your bike, but also may void your warranty, create unsafe riding conditions or result in serious injury and/or death. Robocycle does not take any responsibility for any and all injuries or damages resulting from the use of non-original components or third party parts.

## **Electrical Systems**

It is very important for you to familiarize yourself with all aspects of operating a Robocycle 3, and its electrical systems. You must check to see that all aspects of the bicycle are working correctly before every ride. The front and rear brake levers contain power safety power cutoff switches, which disable the hub motor's assistance when applied, please check both levers functionality for correct operation. The throttle should provide smooth acceleration when gradually applied. If the throttle, brake lever cutoff switches, pedal assistance or lighting is not functioning normally, intermittent, or not working, please immediately discontinue using your Robocycle 3 and contact Robocycle for further assistance.

## **Brakes**

Ensure brakes are working correctly, all braking system components are free from damage, and properly secured. When you fully squeeze the brake levers, ensure

either the front nor rear brake levers touch the handlebars. If you do find any issues with your brakes, take your Robocycle to a certified, and reputable mechanic to have your brakes repaired.

## **Tires and Wheels**

Your wheels should function correctly by spinning straight, if you notice your wheels wobble side to side or up and down they must be replaced. Do not attempt to tighten unless you have adequate knowledge, tools, and experience if your wheels become untrue or spokes loosen. Have a certified and reputable mechanic perform all wheel tuning and truing operations on your Robocycle. Before every ride, ensure your tires and inner tubes are in good working condition by visually inspecting and checking for the correct air pressure. Always replace, and do not patch any tires or inner tubes with punctures, cuts, or damage. If your tires do not have the correct amount of air pressure it can reduce performance, increase tire and component wear and make your riding unsafe.

## **Accessories**

Ensure all accessories, and all approved hardware are properly attached per the specific component manufacturer instructions. It's good practice to look over all hardware, straps, and accessories before each ride and if you do discover something is wrong, have it checked by a certified, reputable mechanic.

## **Handlebars, and Set Adjustment**

Check your handlebar, handlebar stem and seat post are properly fastened, aligned and fitted to the user. Ensure all hardware securing the handlebar and seat are properly tightened including all quick release levers.

## **Suspension**

The suspension fork on your Robocycle will affect the handling of the bike so you must understand how it works before you ride

## **Battery Level, Securing the Battery, and Unplugging**

Ensure the battery is fully charged and operating properly. The battery gauge on the LCD display should read the same. Before riding the battery must be secured and locked onto the frame. Ensure the battery charger is unplugged from the battery, outlet and stored in a safe location before you ride.

## Assembly Instructions

The assembly instructions are a general guide to assist in the assembly of your Robocycle, and is not a complete and comprehensive manual of all aspects of assembly, maintenance, and repair. We recommend you consult a certified, reputable bike mechanic to assist in the assembly, repair, and maintenance of your Robocycle. If you have any questions or concerns during any part of these instructions please reach out to Robocycle.



## **Step 1:**

Unpack the bike from the box and carefully set out all contents of the box. Remove packaging material protecting the bike frame and components. Ensure you have received the correct Robocycle before assembling the bike and all the pieces that are included:

- Robocycle 3 Bike
- Front Wheel
- Front Fender
- Charger
- Headlight
- Pedals
- Keys
- Assembly Toolkit

**If any of these parts are missing please contact Robocycle Immediately**

## **Step 2:**

Install Handlebar into handlebar stems. Loosen the 4 bolts that are contracting the areas where the handlebar stems are going to be inserted. Align both sides of the handlebar stems and insert them gently, you may need to wiggle them a tiny bit for smooth insertion. Install the bars until you have completely covered the unpainted parts of the handlebars and adjust to the desired height. Once you are at your desired height, tighten the bolts using the provided and correct size Allen key in your toolkit. The recommended torque for tightening these bolts is 6Nm,





### Step 3:

Install the front wheel components. Ensure the front wheel is properly secured before moving onto the next step. Remove the wheel axle nuts and washers off the front wheel, and install the wheel to make sure the disc brake is lined up with the brake caliper (note: you may have to remove the pad protector that shipped with the bike from the caliper before inserting the disc brake). When properly installed the front wheel should be fully seated in the dropouts of the front fork, and the washers and forks should be on the outside of the fork, please make sure the front wheel is fully secured with both the wheel axle nut and the washer bolt both fastened securely on both sides. Once this has been done, you may plug in the power plug and securely rotate the connector until it is locked.



**Step 4:**

Install the pedals. Locate the pedal marked with an “L” at the pedal axle end, goes on the rider’s left side when riding and facing forward. The pedal is reverse threaded and tightens counterclockwise. Carefully thread the pedals by hand slowly, do not cross thread or damage the thread. Tighten the pedal securely using the pedal wrench provided

The right pedal is threaded so that it is tightened by turning clockwise, and has an “R” stamped into the pedal axle end. Carefully insert it into the rider’s right side of the bike, and thread the right pedal onto the crank of the bike slowly by hand. Tighten the pedal securely using the pedal wrench provided.

## **Step 5:**

Inflate the tires to the desired PSI. Your Robocycle's desired tire pressure is indicated on the tire sidewall. Do not over-inflate or under-inflate the tires.



## **Step 6:**

Check that the battery is locked to the frame of your Robocycle 3 before riding. There are two batteries, and two sets of keys, make sure both batteries are securely locked before turning on or riding your Robocycle.



**Step 7:**

Review the remainder of the manual. Once your bike has been assembled, read, understand and follow the procedures outlined in the remainder of the manual before operating the bike. You can also check out the video assembly tutorial on the Robocycle website.

Please make sure all hardware is tightened properly following recommended torque values and all safety checks are performed before the first use of the Robocycle.

**Important:**

If you have any questions or concerns in regards to the assembly of your bike, please reach out to Robocycle, [hello@robocycle.com](mailto:hello@robocycle.com). If you are unable to view the assembly video on the Robocycle website, please consult a certified, reputable local bike mechanic for assistance in addition to contacting Robocycle for help.



**Important:** Do not extend any of the components including the handlebars stem before the minimum insertion for markings on the handlebars. The markings are etched into the components and are clearly visible. Ensure all hardware is properly tightened to the recommended values and make sure you follow each step carefully before moving onto the next, otherwise damage to the bike, property, serious injury, or death could occur. Robocycle shall not be responsible for any and all injuries. Robocycle shall not be responsible for any and all injuries or damages resulting from hardware not being tightened correctly or components that are not properly assembled.

<b>Hardware Location</b>	<b>Hardware</b>	<b>Torque Required (Nm)</b>
Handlebar Area	Handlebar Stem Clamp Bolts	10
Handlebar Area	Stem Faceplate Bolts	6
Handlebar Area	Brake Lever Clamp Bolt	6
Handlebar Area	Shifter Clamp Screw	6
Handlebar Area	Stem Angle Adjust	18
Brakes	Caliper Adapter to Frame	6-8
Brakes	Caliper to Adapter	6-8
Brakes	Brake Cable to Caliper Clamp	6-8
Brakes	Disc Brake Rotor to Hub	7
Seat Post Area	Seat Adjustment Bolt	20
Seat Post Area	Seat Post Clamp	7
Front Dropout Area	Front Axle Nuts	40-50

Rear Dropout Area	Rear Axle Nuts	40
Rear Dropout Area	Rear Torque Arm Bolt	5
Rear Dropout Area	Derailleur Hanger Mounting Bolt	6
Rear Dropout Area	Derailleur Mounting Bolt	10
Rear Dropout Area	Derailleur Cable Pinch Bolt	6-8
Rear Dropout Area	Kickstand Mounting Bolts	8
Bottom Bracket and Crank Area	Bottom Bracket and Lockring	60
Bottom Bracket and Crank Area	Crank Arm Bolt into Bottom Bracket Spindle	35
Bottom Bracket and Crank Area	Pedal into Crank Arm	35
Bottom Bracket and Crank Area	Chainring Bolts	10

Bottom Bracket and Crank Area	Controller Mounting Bolts	6
Fenders	All Fender Mounting Bolts and Hardware	6



**Before using the bike, always check to ensure all latches, levers, and quick releases are properly secured and undamaged. Check that they are correctly secured before every ride and after every time the bike is left unsupervised, even for a short time. Otherwise, the handlebar stem and/or seat post may come loose and can result in loss of control, damage to the bike, property, serious injury, and/or death. Robocycle shall not be responsible for any and all damages resulting from any latches, levers, and quick releases not being properly secured or that are damaged.**

## Rear Shocks:

The Robocycle 3 comes equipped with adjustable rear shocks. You can adjust the hardness of the rear shocks by using a shock adjuster (not included in the package).



## **Charging Procedure:**

- 1. Turn the bike off using the power button on the bike**
- 2. Remove the battery charging port covers**
- 3. With the battery on or off the bike, place the charger in a flat, secure place, and connect the DC output plug from the charger to the charging port on either the front or rear battery**
- 4. Plug the charger into the outlet, then the charging port. Connect the charger input plug (110V plug) into the power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger turning RED**
- 5. The charger will automatically stop charging once the battery is full. Once fully charged, indicated by the LED charge status light on the status turning green, unplug the charger from the wall outlet first and proceed to remove the charger output plug from the battery charging port**



**Important:** Battery charging should only take place in temperatures between 50 °F – 77 °F (10 °C - 25 °C) and ensure the battery and charger are not damaged before initiating charge. If you notice anything unusual while charging, please discontinue charging and use of the bike and contact Robocycle for help.



Do not cover up the charger when plugged in or charging. It cools using the air around it and needs to be on a hard, flat surface in an open space. Use the charger with the indicator light facing upwards. Do not use the charger inverted, which can inhibit cooling and reduce charger lifespan.



If the battery is physically damaged, non-functional, performing abnormally, or was dropped or involved in a crash, with or without obvious signs of damage, please discontinue use and charging and contact Robocycle immediately. Robocycle shall not be responsible for any and all damages or injuries resulting from physically damaged, non-functional, abnormally performing, or otherwise damaged batteries.



**Do not open the battery housing, which will void the warranty and can result in damage to the battery, property, serious injury, and/or death. Robocycle shall not be responsible for any and all damages or injuries resulting from opening the battery housing. Before each charge, check the charging cable, charger, and battery for damage before beginning each charge.**

### **Removing Battery**

- Ensure the screen is turned off whenever it is being removed or off the bike
- Do not touch the “+” and the “-” terminal contacts on the bottom of the battery when the battery is removed from the bike
- Be careful not to drop or damage the battery
- Be careful to avoid damaging the exposed connector terminals and keep them clear of debris

## **Installing the battery onto the Bike**

- Do not force the battery on the receptacle; slowly align and push the battery into the receptacle
- Ensure the battery has been properly secured to the bike before each ride by carefully pushing the battery from left to right with both hands to test the security of the attachment of the battery mount



**Important:** Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Robocycle E-bikes Technical Support immediately. Robocycle shall not be responsible for any and all injuries or damage resulting from damaged batteries.

### **Charging Times:**

Keep in mind when the input and output plugs of the charger are connected properly, and the battery is not fully charged, the red charging indicator light should illuminate, indicating the battery is charging. Charging is dependant on the amount of charge left on the battery and could range anywhere from 1 hour to 7 hours for a fully drained battery.

The battery may take longer to charge when fully depleted, when very new, and after 3-5 years of regular use. If your battery does not seem to be charging normally, taking longer to charge than expected, or you are experiencing substantial reduction in range, please discontinue use and contact Robocycle immediately.

### **Charging Best Practices**

- The charger should only be used indoors in a dry, ventilated area, on a flat, stable, hard surface.

- Avoid charger contact with liquids, dirt, debris, or metal objects. Do not cover the charger while in use.
- Store and use the charger in a safe place away from children and where it cannot suffer damage from falls or impact.
- Fully charge the battery before each use to ensure it is ready to go the full range per charge, to extend the life of the battery, and help reduce the chance of over-discharging the battery pack
- Charge the battery with the charger originally supplied with the bike from Robocycle, or a charger purchased directly from Robocycle, designed for use with your specific bike serial number, as approved by Robocycle. Never charge the battery with a different charger, which could cause damage to the battery, bike, property, injury, and/or death. Robocycle shall not be responsible for any and all damages or injuries resulting from the battery being charged from a different charger.

- The charger works on 110/220 V 50/60 Hz standard home AC power outlets and the charger automatically detects and accounts for incoming voltage. Do not open the charger or modify voltage input.
- Do not yank or pull on the cables of the charger. When unplugging, carefully remove both the AC and DC cables by pulling on the plastic plugs directly, not by pulling on the cables
- The charger will get hot when operating as designed. If the charger gets too hot to touch, you notice a strange smell, or any other indicator of overheating, discontinue charger use immediately and contact Robocycle



**Please take special care in charging your bike from Robocycle in accordance with the procedures and safety information detailed in this manual. Failure to follow proper charging procedures can result in damage to your bike from Robocycle, the battery, the charger, personal property, and/or serious injury or death. Robocycle shall not be responsible for any and all damages or injuries resulting from improper charging.**

## **Storing your battery Long-Term**

When you store your Robocycle for longer than two weeks please follow the following procedure to maintain the health and longevity of your battery.

1. Charge (or discharge) the battery to approximately 75% charge
2. Store the battery in a dry, climate controlled, indoor location between 50°F – 77°F (10 °C - 25°C)
3. Check the battery every month, and if necessary, use the charger from Robocycle to charge the battery to 75% charge
4. Do not store the bike or leave the bike while plugged into the charger



**Failure to follow proper battery storage procedures can result in a non-functional battery and replacement will not be covered under warranty. Robocycle shall not be responsible for any and all damages or injuries resulting from improper battery storage procedures.**

## Display Operation



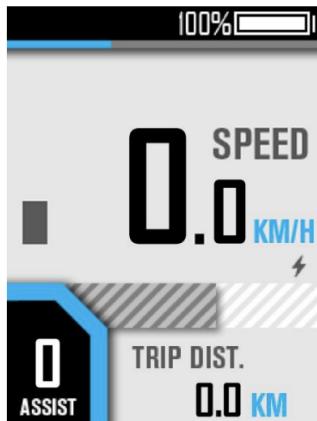
## Button Functionality

Buttons	Name	Functions
	[Power]	1、 Power on/off 2、 Setting confirmation
	[+]	1、 Parameter adjustment 2、 Menu operation
	[ - ]	1、 Parameter adjustment 2、 Push mode on/off 3、 Menu operation

## Power On/Off

Long press the [Power] button to power on, the boot interface will be shown for about 1.5s, followed by the Riding Interface

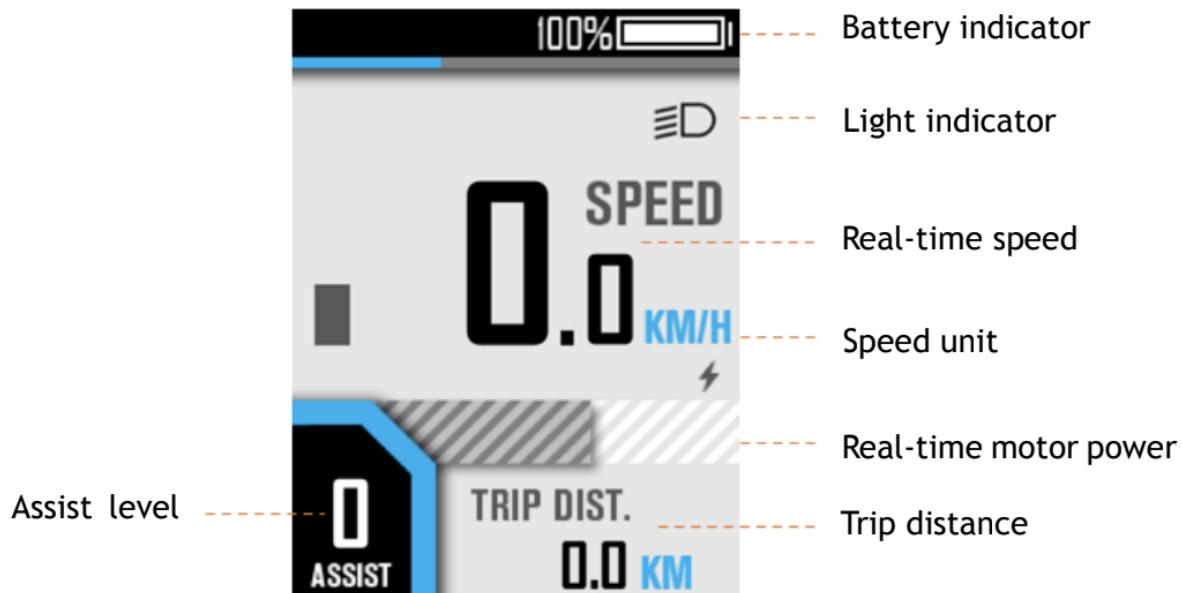
In any interface, long press the [Power] button, the shutdown interface will be shown for about 2s before power off



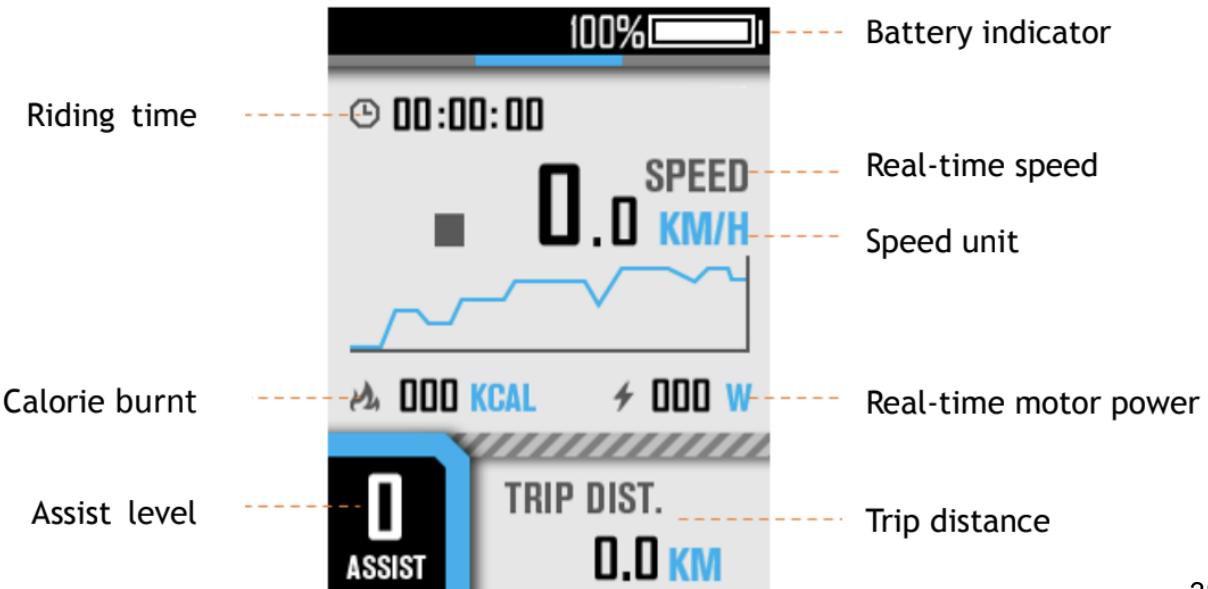
## Riding Interface

The display provides various styles of riding interface, which can be switched by clicking the [Power] button

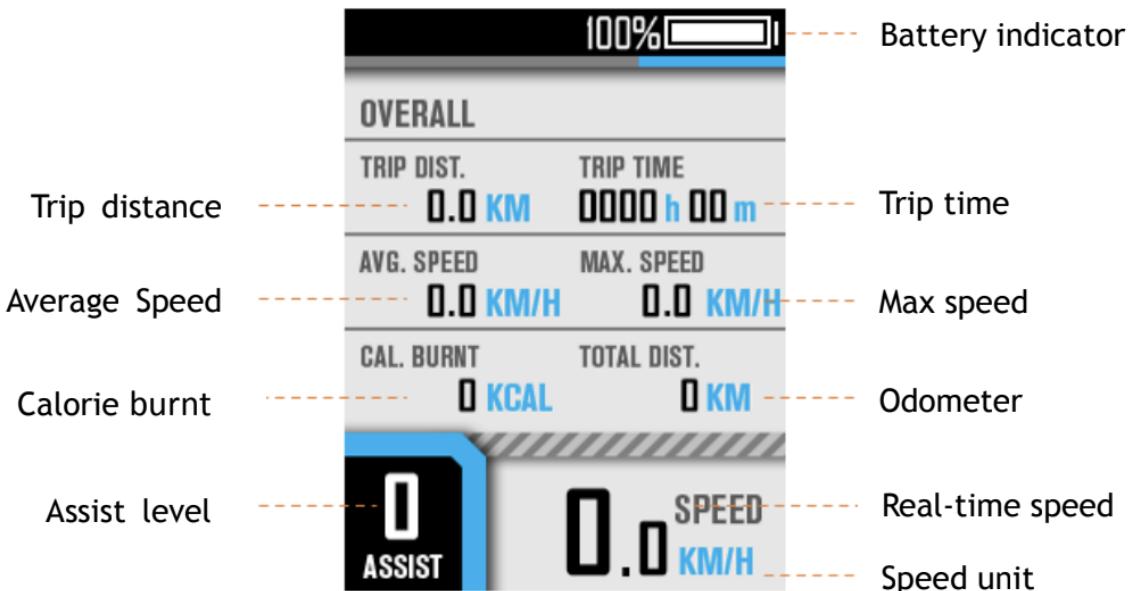
### 1. Simple Display Mode



## 2. Sports Display Mode



### 3. Statistical Display Mode



## Assist Mode

Click [+] or [-] to switch assist levels;

Press and hold the [-] button to enter the push mode, and release to exit.

## Error Codes

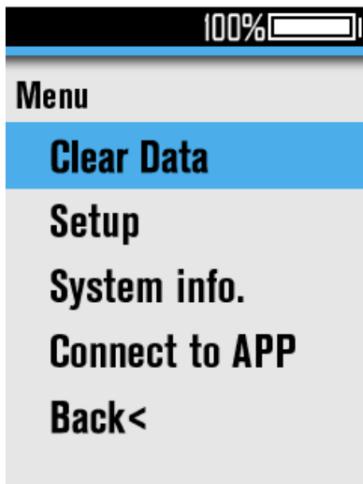
Robocycle 3 can show a warning message on the display and show an error code at the bottom of that fault. Please see the table below.

Error Code	Meaning
02	Brake Error
06	Low-voltage protection
07	Motor Phase Error
08	Throttle Error
09	Current or Mos Error
14	Motor Hall Error
30	Communication Error

Error Code	Meaning
21	Current or Mos Error
22	Throttle Error
23	Motor Phase Error
24	Motor Hall Error
25	Brake Error
26	Low-voltage protection
30	Communication Error

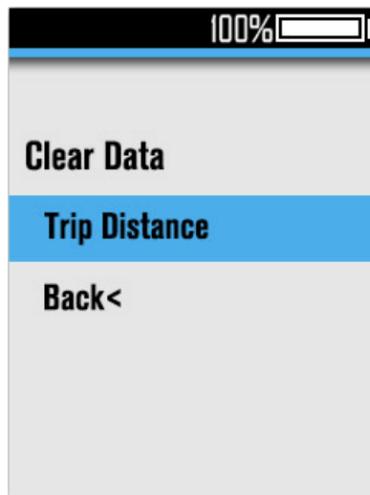
## Display Menu

To enter the user menu, please long press the [+] and [-] combination buttons for 2s on the riding interface when you are stationary. To ensure the user's safety, it can only be accessed when static (when the speed is 0). In this interface, you can switch the submenu by clicking the [+] or [-] button, and enter the submenu by clicking the [Power] button

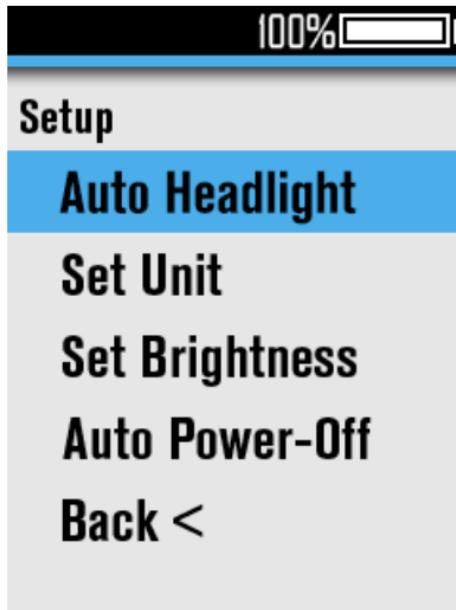


## **Clear Trip Data**

Select "Trip Distance" and click the [Power] button to enter it, you can clear the trip distance or not under the guidance of the interface prompts

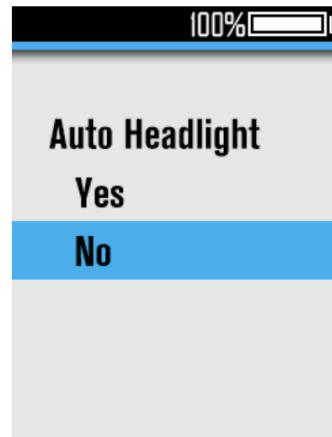


**Setup**



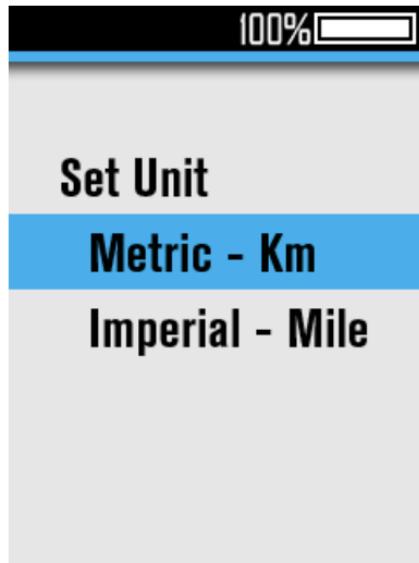
## **Auto Headlight**

Select Auto Headlight and click the [Power] button to enter the submenu, you can enable or disable the automatic headlight function



## **Set Unit**

Select Set Unit and click the [Power] button to enter the submenu, you can select the unit



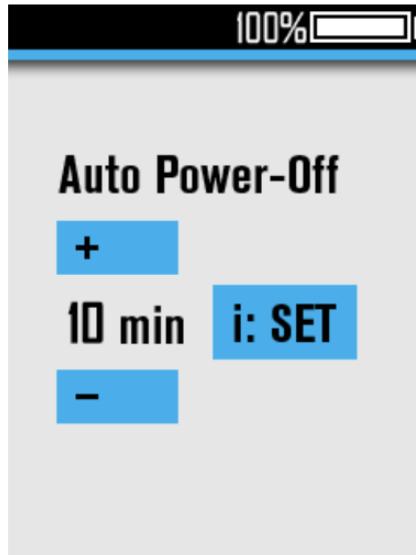
## **Set Brightness**

Select Set Brightness and click the [Power] button to enter the submenu, you can use the [+] or [-] button to adjust the backlight brightness level in the range of 0-5



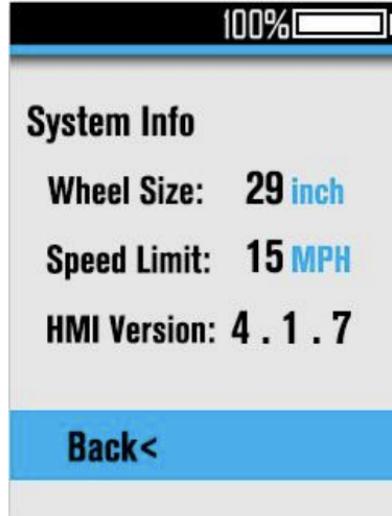
## **Set Auto-Power Off**

Select Auto Power-Off and click the [Power] button to enter the submenu. You can use the [+] or [-] button to adjust the automatically power off time in the range of 0-99, where 0 means not to automatically power off



## **System Info**

Enter System Info, to view system information





**PLEASE READ:**

- 1. Be sure to power off before connecting or disconnecting the display, or you will permanently damage the display and connectors**
- 2. Do not get water onto the display, as it may damage how the display operates and can potentially damage the controller**
- 3. The display may be wiped with a soft cloth, do not use chemical sprays or detergents as they will damage the display**

## **Robocycle Electric Bike Operation**

Do not perform any of the steps in the operation section of this manual until you have read this entire manual, there are important steps and details outlined in this manual that must be read and understood before operation related to safety.



**To use the Robocycle 3, you must become accustomed to the bike's power control system before you operate. Using the throttle mechanism allows for full power to be experienced from a stop and inexperienced users should take extra care when first applying the throttle. The pedal assist feature is also very powerful and not to be used until the user understands the full functionality and how it operates. Not taking care to familiarize yourself and practice the operation of the power system, starting gradually with low power and then slowly adding power, can lead to death or serious injury. Please heed this warning. Robocycle shall not be responsible for any and all injuries and damages resulting from your improper use of a Robocycle Electric Bike.**

## **Starting up the Robocycle**

After the bike has been assembled following the assembly instructions, all components are secured correctly, and you have read this entire manual, you may turn the bike on using the following steps:

1. Test the security of both batteries and make sure they are secured to the bike
2. Turn the bike on by holding the power button for about 1-2 seconds until the LCD begins to power on
3. Select your desired Pedal assist level between 0 through 5 by using the “+” and “-” buttons. Level 0 means the pedal assist is completely off, up to level 5 which gives you the full power of pedal assist. Start with either level 0 or 1
4. To turn on the headlight hold the “+” button for about 2 seconds until the light illuminates. To turn off the headlight follow the same procedure and hold the “+” for 2 seconds.

5. Once you are familiar with the bike and with the proper safety gear, you can now proceed to riding your Robocycle. Begin by pedaling the bike in the appropriate drivetrain gear with pedal assist at 0 or 1, once you reach your desired speed you may use the throttle very gently to accelerate and maintain your desired speed
6. Do not use the throttle unless you are safely riding your bike

## **Driving Range**

The range of your Robocycle is the distance the bike will travel on a single full charge of the onboard battery pack. The range values are estimates based on Robocycle expected usage characteristics. Some of the factors which affect range include changes in elevation, speed, payload, acceleration, number of starts and stops, and ambient air temperatures. Tire pressure and terrain are also important variables to consider.

## **MAXIMUM PAYLOAD CAPACITY FOR ROBOCYCLE 3**

The total maximum weight limit, or payload capacity of the Robocycle 3 is 350 lbs. That includes the weight of the rider as well as clothing, riding gear, cargo, accessories, and a passenger (only if your passenger is also wearing safety gear, and understands the bike's functionality)



**You must hold onto the bike whenever loading cargo and/or a passenger. The kickstand is not designed to be used for loading cargo. Do not assume the bike is stable and balanced when using the kickstand. Always hold onto the bike when cargo is being loaded, in place, or attached to the bike. Robocycle shall not be responsible for any and all injuries or damages resulting from cargo being loaded, in place, or attached to a Robocycle electric bike.**



## Carrying Cargo/Passenger

Carrying a cargo load or a passenger involves additional risks, which require special attention and care to mitigate and manage. Braking, acceleration, and balancing are all significantly affected by the addition of cargo or a passenger loaded on the Robocycle 3. You must become accustomed to the braking, steering and operational adjustments required to safely operate the Robocycle 3 with cargo or a passenger. Users should practice riding on a flat and open area with light cargo before attempting to carry heavier loads. Robocycle shall not be responsible for any and all injuries or damages resulting from carrying cargo using a Robocycle electric bike, regardless of whether or not the cargo is properly attached, placed, or loaded onto the bike. Robocycle shall not be responsible for all injuries, damages, or death from carrying a passenger, whether or not the passenger is wearing full safety gear, and understand the rules of the road. Carrying cargo or a passenger is **HIGH RISK** in any scenario and therefore you assume the risk of all potential injuries or damages that may occur and absolve Robocycle of all liability associated with that risk.

### **Tips for Carrying Cargo:**

- Cargo should be loaded as low as possible to lower the center of gravity and improve stability, but cargo should not interfere with any moving components or the ground
- Ensure your loads are properly secured and periodically check that nothing loosens, risks interfering with any moving components, or could risk touching or dragging on the ground
- Plan your route accordingly since a rider's hill climbing ability, steering, and braking are all impacted when cargo is loaded on your Robocycle. Hills that are normally easy to climb and descend without cargo can become challenging and dangerous once cargo is loaded onto the bike
- Become proficient at controlling the Robocycle 3 with the cargo load in a flat and open area before riding on roads or hills



The kickstand is not designed to be used for loading cargo or passengers. You **MUST** hold onto the bike whenever loading cargo, especially when loading precious cargo and children. Do not assume the bike is stable and balanced when using the kickstand. Always hold onto the bike when cargo is being loaded or in place.



**BRAKE WARNING: DO NOT USE THE FRONT BRAKE BY ITSELF.** Use both brakes for all braking purposes, and operations. Braking with only the front brake can cause excessive stress on components, damage to the bike and parts, and/or loss of control. RObocycle Shall not be responsible for any and all damages or injuries resulting from using the front brake by itself or for any excessive stress that is placed on the components, damages occurring to the bike or parts and/or damages or injuries that occur from loss of control.

## **Parking, Storage, and Transport**

Please follow these basic parking, storage and transport tips to ensure your bike is well cared for on and off the road. Robocycle shall not be responsible from any and all injuries or damages resulting from improper parking, storage, and/or transport.

- Turn off the power when pushing or carrying the bike manually to avoid accidental acceleration from the motor
- In order to conserve battery, switch off the power and lights. Make sure the battery is secure by locking the battery in place and removing the key or remove the battery and bring it with you for extra security
- Robocycle should be parked indoors. If you cannot park indoors, and/or park in rain or wet conditions, do not ride your Robocycle until it has dried off for a few hours in a dry location to allow the system to dry out. If you use the bike in wet conditions, this mandates more regular maintenance schedule in order to ensure your bike does not become rusty, corrode and ensure all systems are working safely
- Please follow all local rules and regulations if you park in a public place

- Do not carry your Robocycle on a vehicle rack during rain or wet conditions as this will cause water damage to the electrical components.
- When transporting your bike on a vehicle rack, remove the battery pack to reduce the weight and inertia of the bike, this will make lifting and loading easier and protects the battery from the external elements
- Use a rack that is compatible with the size and weight of your bike. **Check the weight capacity and tire width compatibility of your rack before using it with your Robocycle**
- Robocycle should always be locked up and secure to reduce the chance of theft. Robocycle makes no claims or recommendations on the proper hardware or procedures to secure your bike, we recommend that you take the appropriate precautions to keep your Robocycle safe from theft

## **Basic Bike Care**

Robocycle recommends that in order to ensure safe riding conditions you must properly maintain your bike. Follow these basic guidelines and see a certified, reputable bike mechanic at regular intervals to ensure your bike is safe for use and fun to ride.

- Maintain proper charge in your battery between uses of up to two weeks apart
- Never immerse or submerge the bike or any components in water or liquid as the electrical system may be damaged
- Periodically check wiring and connectors to ensure there is no damage and the connectors are secure
- Wipe the frame with a damp cloth to clean. If needed, apply a mild non-corrosive detergent mixture to a damp cloth and wipe the frame. Dry by wiping clean with a clean, dry cloth
- Store under some sort of shelter, and avoid leaving the bike in rain or exposed to corrosive materials
- If you ride your Robocycle in winter with salted roads or near a beach in coastal areas, your bike is at much greater risk for salt corrosion. Wipe down your bike

frequently and/or spray all unpainted parts with anti-rust treatment. Damage from corrosion is not covered under warranty so special care should be given to extend the life of your bike when used in coaster areas with salty air or water or in winter riding with salted roads

- If the hub and bottom bracket bearings have been submerged in water or liquid, they should be taken out and re-greased, this will prevent accelerated bearing deterioration
- Use touch up paint to prevent rust if the paint has become scratched or chipped to the metal
- Regularly lubricate and clean all moving parts, tighten components, and adjust as required

## **Tire Replacement and Inflation**

The Robocycle 3 comes with 20"x4" rubber tires with inner tubes. The tires are designed for durability and safety for regular cycling activities and the tires need to be checked before each use for proper inflation and condition. Proper inflation, care and timely replacement will help to ensure that your bike is well maintained and is safe to use.



**It is critically important that you always maintain proper air pressure in your tires. Do not overinflate, do not underinflate your tires. Low pressure may result in loss of control, and overinflating may cause tires to burst. If you fail to maintain proper air pressure as indicated by the air pressure rating on your tires it may result in tire or even wheel failure. Robocycle shall not be responsible for any and all damages or injuries resulting from under inflating or over inflating tires. To inflate your tires use a regulated air source with an available pressure gauge. Do not use an inflating mechanism without a pressure gauge as this may result in over inflating or under inflating your tires.**



**Ensure that all air pressure has been removed from the inner tube when changing a tire or tube prior to removing the tire from the rim. Failure to remove all air pressure from the inner tube could result in serious injury. Robocycle shall not be responsible for any and all damages or injuries resulting from not removing all air pressure from the inner tube or from incorrectly changing the tire tube.**

## Pre-Ride Safety Check List

Safety Check	Basic Steps
1. Brakes	<ul style="list-style-type: none"><li>○ Ensure front and rear brakes work properly.</li><li>○ Check brake pads for wear and ensure they are not over-worn.</li><li>○ Ensure brake pads are correctly positioned in relation to the rims.</li><li>○ Ensure brake control cables are lubricated, correctly adjusted, and display no obvious wear.</li><li>○ Ensure brake control levers are lubricated and tightly secured to the handlebar.</li><li>○ Test brake levers are firm and that brake, motor cutoff functions, and <i>brake light is functioning properly.</i></li></ul>
2. Wheels and Tires	<ul style="list-style-type: none"><li>○ Ensure tires are inflated to within the recommended limits displayed on the tire sidewalls and holding air.</li><li>○ Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage.</li><li>○ Ensure rims run true and have no obvious wobbles, dents, or kinks.</li><li>○ Ensure all wheel spokes are tight and not broken.</li><li>○ Check axle nuts and front wheel quick release to ensure they are tight. Ensure the locking lever on the quick release skewer (if any) is correctly tensioned, fully closed, and secure position.</li></ul>

<b>3. Steering</b>	<ul style="list-style-type: none"> <li>○ Ensure handlebar and stem are correctly adjusted and tightened and allow proper steering.</li> <li>○ Ensure the handlebar is set correctly in relation to the forks and the direction of travel.</li> </ul>
<b>4. Chain</b>	<ul style="list-style-type: none"> <li>○ Ensure the chain is oiled, clean, and runs smoothly.</li> <li>○ Extra care is required in wet, salty/otherwise corrosive, or dusty conditions</li> </ul>
<b>5. Bearings</b>	<ul style="list-style-type: none"> <li>○ Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling.</li> <li>○ Check headset, wheel bearings, pedal bearings, and bottom bracket bearings</li> </ul>
<b>6. Cranks and Pedals</b>	<ul style="list-style-type: none"> <li>○ Ensure pedals are securely tightened to the cranks.</li> <li>○ Ensure the cranks are securely tightened and are not bent.</li> </ul>

<b>7. Derailleurs</b>	<ul style="list-style-type: none"> <li>○ Check that the derailleur is adjusted and functioning properly.</li> <li>○ Ensure shifter and brake levers are attached to the handlebar securely.</li> <li>○ Ensure all brake and shift cables are properly lubricated.</li> </ul>
<b>8. Frame, Fork, and Seat</b>	<ul style="list-style-type: none"> <li>○ Check that the frame and fork are not bent or broken.</li> <li>○ If either frame or fork are bent or broken, they should be replaced.</li> <li>○ Check that the seat is adjusted properly, and seat post quick release lever is securely tightened.</li> </ul>
<b>9. Motor Drive Assembly and Throttle</b>	<ul style="list-style-type: none"> <li>○ Ensure hub motor is spinning smoothly and motor bearings are in good working order.</li> <li>○ Ensure all power cables running to hub motor are secured and undamaged.</li> <li>○ Make sure the hub motor axle bolts are secured and all torque arms and torque washers are in place.</li> </ul>
<b>10. Battery Pack</b>	<ul style="list-style-type: none"> <li>○ Ensure battery is charged before use.</li> <li>○ Ensure there is no damage to battery pack.</li> <li>○ Lock battery to frame and check to see that it is secured.</li> <li>○ Charge and store bike and battery in a dry location, between 50-80 degrees Fahrenheit. Let bike dry completely for using again.</li> </ul>

<b>11. Electrical Cables</b>	<ul style="list-style-type: none"> <li>○ Look over connectors to make sure they are fully seated, free from debris or moisture.</li> <li>○ Check cables and cable housing for obvious signs of damage.</li> <li>○ Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed.</li> </ul>
<b>12. Accessories</b>	<ul style="list-style-type: none"> <li>○ Ensure all reflectors are properly fitted and not obscured.</li> <li>○ Ensure all other fittings on bike are properly secured and functioning.</li> <li>○ Inspect helmet and other safety gear for signs of damage.</li> <li>○ Ensure rider is wearing helmet and other required riding safety gear.</li> <li>○ Ensure mounting hardware is properly secured if fitted with rear rack.</li> <li>○ Ensure taillight and taillight power wire are properly secured if fitted with rear rack.</li> <li>○ Ensure fender mounting hardware is properly secured if fitted with fenders.</li> <li>○ Ensure there are no cracks or holes in fenders if fitted with fenders.</li> </ul>



**Always have a certified, reputable bike mechanic perform a tune-up on your robocycle 3 after your initial break-in period of 50-100 miles (80-160 km). Your cables, spokes, and chain will stretch after the initial break in period. Regular inspections and tune-ups are particularly important for ensuring that your bike remains safe and fun to ride.**

## Recommended Service Intervals

Interval	Inspect	Service	Replace
Weekly, 100-200 miles	<ul style="list-style-type: none"><li>- Check hardware for proper torque: See Recommended Torque Values chart.</li><li>- Check drivetrain for proper alignment and function (including the chain, freewheel, chainring, and derailleur).</li><li>- Check wheel trueness and for quiet wheel operation (without spoke noise).</li><li>- Check condition of frame for any damage.</li></ul>	<ul style="list-style-type: none"><li>- Clean frame by wiping frame down with damp cloth.</li><li>- Use barrel adjuster(s) to tension derailleur/brake cables if needed.</li></ul>	<ul style="list-style-type: none"><li>- Any components confirmed by Ariel Rider E-bikes Technical Support or a certified, reputable bike mechanic to be damaged beyond repair or broken.</li></ul>

<p>Monthly, 250-750 miles</p>	<ul style="list-style-type: none"> <li>- Check brake pad alignment, brake cable tension.</li> <li>- Check bike is shifting properly, proper derailleur cable tension.</li> <li>- Check chain stretch.</li> <li>- Check brake and shifter cables for corrosion or fraying.</li> <li>- Check spoke tension.</li> <li>- Check accessory mounting (rack mounting bolts, fender hardware, and alignment).</li> </ul>	<ul style="list-style-type: none"> <li>- Clean and lubricate drivetrain.</li> <li>- Check crankset and pedal torque.</li> <li>- Clean and optionally lubricate brake and shift cables.</li> <li>- True and tension wheels if any loose spokes are discovered.</li> </ul>	<ul style="list-style-type: none"> <li>- Replace brake and shift cables if necessary.</li> <li>- Replace brake pads if necessary.</li> </ul>
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Every 6 Months, 750-1250 miles	<ul style="list-style-type: none"> <li>- Inspect drivetrain (chain, chainring, freewheel, and derailleur).</li> <li>- Inspect all cables and housings.</li> </ul>	<ul style="list-style-type: none"> <li>- Standard tune-up by certified, reputable bike mechanic is recommended.</li> <li>- Grease bottom bracket.</li> </ul>	<ul style="list-style-type: none"> <li>- Replace brake pads.</li> <li>- Replace tires if necessary.</li> <li>- Replace cables and housings if necessary.</li> </ul>
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The Key to ensure your Robocycle functions are intended, regular inspection and maintenance are paramount. Recommended service intervals are meant to be used as guidelines. Real world wear and tear, and the need for service, will vary with conditions of use. We generally recommend inspections, service, and necessary replacements be performed at the time or mileage interval that comes first in the troubleshooting table below.

## Trouble Shooting

	Symptoms	Possible Causes	Most Common Solutions
1	<b>It doesn't work</b>	<ol style="list-style-type: none"><li>1. Insufficient battery power</li><li>2. Faulty connections</li><li>3. Battery not fully seated in tray</li><li>4. Improper turn on sequence</li><li>5. Brakes are applied</li></ol>	<ol style="list-style-type: none"><li>1. Charge the battery pack</li><li>2. Clean and repair connectors</li><li>3. Install battery correctly</li><li>4. Turn on bike with proper sequence</li><li>5. Disengage brakes</li></ol>
2	<b>Irregular acceleration and/or reduced top speed</b>	<ol style="list-style-type: none"><li>1. Insufficient battery power</li><li>2. Loose or damaged throttle</li></ol>	<ol style="list-style-type: none"><li>1. Charge or replace battery</li><li>2. Replace throttle</li></ol>
3	<b>When powered on the motor does not respond</b>	<ol style="list-style-type: none"><li>1. Loose wiring</li><li>2. Loose or damaged throttle</li><li>3. Loose or damaged motor plug wire</li><li>4. Damaged motor</li></ol>	<ol style="list-style-type: none"><li>1. Repair and or reconnect</li><li>2. Tighten or replace</li><li>3. Secure or replace</li><li>4. Repair or replace</li></ol>

4	<b>Reduced range</b>	<ol style="list-style-type: none"> <li>1. Low tire pressure</li> <li>2. Low or faulty battery</li> <li>3. Driving with too many hills, headwind, braking, and/or excessive load</li> <li>4. Battery discharged for long period of time without regular charges (aged or damaged)</li> <li>5. Brakes rubbing</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust tire pressure</li> <li>2. Check connections or charge battery</li> <li>3. Assist with pedals or adjust route</li> <li>4. Replace the battery</li> <li>5. Adjust the brakes</li> </ol>
5	<b>The battery won't charge</b>	<ol style="list-style-type: none"> <li>1. Charger not well connected</li> <li>2. Charger damaged</li> <li>3. Battery damaged</li> <li>4. Wiring damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the connections</li> <li>2. Replace</li> <li>3. Replace</li> <li>4. Repair or replace</li> </ol>
6	<b>Wheel or motor makes strange noises</b>	<ol style="list-style-type: none"> <li>1. Damaged motor bearings</li> <li>2. Damaged wheel spokes or rim</li> <li>3. Damaged motor wiring</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace</li> <li>2. Repair or replace</li> <li>3. Repair or replace motor.</li> </ol>



## SAFETY AND WARNINGS

**It is recommended that users pay special attention to the points outlined below. Robocycle shall not be responsible for any and all injuries or damages resulting from failing to adhere to all general operating guidelines before, during and/or after operating your Robocycle.**

- 1. When riding obey, the same road laws as all the other road vehicles applicable by law in your area**
- 2. For additional information regarding traffic/vehicle laws, contacts traffic authority in your area**
- 3. Ride predictably, in a straight line, and with the flow of traffic, never against traffic**
- 4. Use correct hand signals to indicate turning**
- 5. Ride defensively; to other road users you may be hard to see**

6. Concentrate on the path ahead, avoid pothole, gravel, wet or oily roads, wet leaves, cribs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards and puncture risks
7. Cross train tracks at a 90-degree angle or walk your bike across
8. Expect the unexpected such as opening car doors or vehicles backing out of driveways or parking spots
9. Be careful at intersections and when preparing to pass other vehicles or cyclists
10. Familiarize yourself with all the features and operations of your Robocycle bike. Practice and become proficient at shifting gears, applying the brakes, using the power assist system, and using the throttle in a controlled setting before riding in riskier conditions
11. Wear proper riding clothes and gear including closed-toe shoes. If you are wearing loose pants, secure your bottom of your pants with clips or elastic bands to prevent them from being caught in the gears of your Robocycle
12. Do not use items or covers on your ears that may restrict your hearing

- 13. Do not perform wheelies, and always have both tires in full contact with the road surface to safely ride your Robocycle. Robocycle shall not be responsible for any injuries and/or death due to performing a wheelie or riding with one or both wheels off the road surface for any maneuver, trick or jump.**
- 14. Check your local rules and regulations before carrying cargo or a passenger**
- 15. When braking apply the rear brake first then the front brake. If brakes are applied incorrectly your may lose control**
- 16. Maintain a comfortable stopping distance from all other objects, riders and vehicles. Safer braking distances are based on forces such as road surface and light conditions among other variables**



## **SAFETY GUIDELINES**

**Failure to review these safety notes can lead to serious injury or death.**

**Robocycle shall not be responsible for any and all damages or injuries resulting from your misuse of Robocycle electric bike, including but not limited to the examples of misuse set forth below.**

- Robocycle users must read and understand this entire manual PRIOR to their first use of the bike
- Ensure that you understand and comprehend all instruction and safety notes and warnings
- Ensure that the bike fits you properly before your first use, you may lose control or fall if your bike is too big or too small
- Always wear an approved bicycle helmet whenever using this product and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death
- Ensure correct setup and tightening is performed on your bike before first use, and check the setup up, tightening and condition regularly

- It is your responsibility to familiarize yourself with the laws and requirements of operating this product in the area where you ride
- Ensure that the handlebars are undamaged and properly installed. Loose or damaged handlebars may cause to lose control and fall
- DO NOT use this product with standard bike trailers, stands, vehicle racks or accessories that Robocycle has not tested for safety and compatibility and have verified as safe and compatible with the bike. Contact robocycle to check if your equipment will be compatible with a Robocycle electric bike
- **Off-roading on a Robocycle electric bike is absolutely prohibited and Robocycle shall not be responsible for any and all injuries or damages resulting from off-roading**
- **Engaging in extreme riding is extremely dangerous and should be avoided. Although many articles/ advertisements/ catalogs depict extreme riding, this is mostly done by professional riders in a closed circuit and should not be attempted under any circumstances. No wheelies or jumping the Robocycle Electric bike is ever recommended nor permitted, and you can**

**be seriously injured or killed. Robocycle shall not be responsible for any and all injuries or damages resulting from extreme riding**

- All bikes and bike parts have strength and integrity limitations and extreme riding should not be performed as it can damage the bike components and/or cause or lead to dangerous riding circumstances in which you may be seriously injured or killed
- Failure to perform proper installation, compatibility, proper operation, or maintenance of any components or accessory can result in serious injury or death
- After any collision, or any incident, you must consider your bike unsafe to ride and unsafe for any use until you consult with a certified, reputable bike mechanic for a comprehensive inspection for all components, functions and operations of the bike
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation

- You should check the operation of the brake motor cutoff switches before each ride. The brake system is equipped with an inhibitor which cuts off power to the electric motor whenever the brakes are engaged. Check proper operation of the brake motor cutoff switches before every ride
- You should take extreme care of the pedal assistance sensor and throttle mechanism on your Robocycle. Ensure you understand and are prepared for the power assistance to engage as soon as pedaling is underway
- Users must understand the operation of the thumb throttle and pedal assistance sensors before using the bike and take ample care in their usage in respect to traveling at speeds appropriate for the usage area, riding conditions and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power
- Robocycle does not approve any aftermarket changes to your bike and users will void the warranty and create an unsafe riding experience implementing aftermarket changes. Robocycle shall not be responsible for any and all

damages or injuries resulting from aftermarket changes to your Robocycle electric bike

- Due to the fact that electric bikes are generally heavier than non-electric assisted bikes because of the motors and batteries, they require extra caution and care and riding and braking. Special caution should be given when caring cargo or a passenger
- Riding in wet conditions is not recommended by Robocycle, your feet or hands may become wet and slip in wet conditions and lead to serious injury from a fall or death
- Do not remove any reflectors or audible signals such as the bell or horn



## Helmets

It is REQUIRED that all riders wear a properly fitting ANSI or SNELL approved bicycle safety helmet when riding your bike. **Always wear a properly fitted helmet which covers the forehead when riding your Robocycle. Different regions require specific safety devices, it is your responsibility to familiarize yourself with the local laws, rules and regulations where you ride to comply with all your local laws, including properly equipping yourself and your bike as the law in your region requires. You are REQUIRED to wear a helmet and you assume the risk of all injuries or damages resulting from refusing to protect yourself from head or neck injuries caused from not wearing a helmet, or wearing one incorrectly.**



## **GENERAL WARNINGS THAT MUST BE READ AND UNDERSTOOD PRIOR TO FIRST USE OF ROBOCYCLE**

- Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the whole manual that must be followed to prevent dangerous situations, accidents, and possible injury and/or death. Robocycle shall not be responsible for any and all damages or injuries resulting from your use of the Robocycle Electric bike
- As in any sport, bicycling involves risk of damage, injury and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know and practice the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of damage, injury and death
- Biking and controlled substances DO NOT MIX. Never operate your Robocycle Electric Bike while under the influence of any amount of

**alcohol, drugs or any substance or condition that could impair motor functions, judgment or the ability to safely operate a bike/vehicle**

- **The Robocycle 3 is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time and mental capability to ride safely and manage traffic, road conditions, sudden situations and respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability (eg. Visual impairment, hearing impairment, physical impairment, cognitive/language impairment, seizure disorder etc.) contact your physician before riding any bike**



## Riding in Wet Conditions

**Robocycle does not recommend riding in wet weather, only ride in wet weather if absolutely necessary. Your Robocycle electric bike is not meant for use in puddles, heavy rain or snow. Never immerse or submerge this product in water or liquid as the electrical system may be damaged. Please follow the following recommendations if you must ride in wet conditions:**

- In wet weather you need to take extra care when operating this bike
- Decrease riding speed to help you control your Robocycle in slippery conditions
- Brake earlier since it will take longer to stop than when operating in dry conditions
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights
- Road hazards are more difficult to see when wet; always use extreme caution when riding in wet conditions

## **Riding at Night**

- Do not ride at night unless it is completely unavoidable
- If your Robocycle is equipped with a front headlight, always turn it on at least 30 minutes before sunset
- Slow down and use familiar roads with street lighting, if possible
- Ensure a tire wall, pedal and other installed reflectors are unobstructed
- Ensure the headlight and tail light are functioning correctly before proceeding

## **For Parents and Guardians:**

- As a parent/guardian you are responsible for the safety of your child
- The Robocycle 3 is not designed for use by children
- If you are carrying a passenger in a child safety seat they must ALWAYS be wearing a helmet

## **Consumer Misuse**

Robocycle waives any and all liability for injuries resulting from consumer misuse of a Robocycle Electric Bicycle (“Bike”). The subsequent information provides consumer use requirements pursuant to electric bicycle state laws, however the states requirements are not exhaustive and merely serves as a reference for misuse which Robocycle shall accept no liability for

## **Riding an Electric Bike in Canada**

The Canadian government first addressed electric bikes via legislation in the year 2001, as part of Canada’s Motor Vehicle Safety Regulations. Up until that point, there was confusion as to what exactly constituted an electric bicycle and therefore, what rules applied to their usage. The legislation defined electric bikes as “power assisted bicycles”, setting them apart from other kinds of motorized vehicles that might have a similar look but, in 2021, the government decided to repeal its definition of

“power-assisted bicycle” leaving it up to each province and territory to define the characteristics of an ebike and other eclectic based mobility vehicles.

Based off the previous federal government’s definition however, an *electric bike* or *power assisted bicycle* in Canada would be considered as follows:

- Must have operable pedals, and an attached electric motor of 500 watts or less.
- They must not exceed 32 km/hr from the motor on level ground (going downhill is a different story, since it doesn’t speak to motor capabilities).

Electric bikes with 750W or 1000W motors appear to be allowed in some off-road areas but there are restrictions. In a nutshell, ebikes with over 500 watts are not considered street-legal in Canada.

There are exceptions based on area but for the most part, ebikes in Canada are limited to a 500 W output and cannot travel faster than 32 km/h (20 mph) on motor power alone

on level ground, each provincial state or territory has the authorization to include their own laws and regulations.

Riding an ebike is allowed in numerous Canadian parks, and different provinces have their own set of restrictions. For example, Class-1 e-bikes are permitted on any BC Parks trail where mountain bikes or other cycling is allowed, while Class 2 and 3 e-bikes are only permitted on trails and/or roads designated for motorized vehicles. \*This chart (shown below) is featured on the BC Parks [website](#).

Class	Max Continuous Motor Wattage	Max Speed Before Motor Cut-off	Motor Actuator Method
Class 1	500 W	32 km/h	Pedal-assist only (no throttle)
Class 2	500W	32 km/h	Pedal assist and/or throttle actuated
Class 3	500W	45 km/h	Pedal assist and/or throttle actuated

Canadian provinces do not require a license for you to operate an ebike, with one exception. The province of Quebec stipulates that riders between the ages of 14 and 17

should obtain a class 6D license (this license allows people to additionally operate a moped or motorized scooter, in that province).

### **Is There a Minimum Age Requirement to Operate an E-Bike in Canada?**

Similar as in the US, there are certain age restrictions that are applicable in terms of unsupervised riders under the age of 18. Below is a chart based on age and province to help make this information more clear.

**Must be over 12 years old**

**Alberta.**

**Must be over 14 years old**

**Manitoba, Quebec, Saskatchewan.**

**Must be over 16 years old**

**British Columbia, Ontario, Prince Edward Island.**

***\*Provinces not mentioned above have no known age restrictions, to date.***

It's important to note that in all areas of Canada, you must abide by the helmet regulations set forth by the government. This means that a helmet must be properly secured and must fit on the rider's head while making use of their bike or ebike - unless specifically stated.

### **Riding and Electric Bike in USA**

For those residing in the state of Washington, you must comply with RCW 46, which provides that:

- a. You must ride the Bike on sidewalks unless there is no alternative way to travel;
- b. You shall not operate the Bike on fully controlled limited access highways;
- c. You shall not tamper with or modify the Bike so as to change its speed capability;

- d. You shall not operate a Class C Bike if You are under 16 years old; 91
- e. You shall not operate a Class 3 Bike on a shared-use path, except where local jurisdictions may allow the use of Class 3 electric-assisted bicycles;
- f. You shall not operate the Bike where motorized vehicles are prohibited;
- g. You shall not ride the Bike on a trail that is specifically designated as non motorized and that has a natural surface tread that is made by clearing and grading the native soil with no added surfacing materials.

Moreover, pursuant to RCW 7.72 and applying to those residing in Washington, Robocycle shall not be liable for injuries resulting from the fault of the manufacturer in any scenario, including but not limited to (1) if there is no solvent manufacturer subject to service of process under the laws of the claimant's domicile or the state of Washington, (2) if the court determines that it is highly probable that the claimant would be unable to enforce a judgment against any manufacturer, (3) if Robocycle provides plans or specifications for the manufacture or preparation of the product and such plans

or specifications were a proximate cause of the defect in the product, or (4) if the Bikes are marketed under a trade or brand name of Robocycle

For those residing in the state of Texas, You must comply with Texas Transportation Code Sec. 551, which provides that:

- a. You shall not ride the Bike only on or astride a permanent and regular seat attached to the Bike;
- b. You shall not use the Bike to carry more persons than the Bike is designed or equipped to carry;
- c. You shall not use the Bike to carry an object that prevents the person from operating the Bike with at least one hand on the handlebars of the bicycle;
- d. You shall not attach either the person or the Bike to a streetcar or vehicle on a roadway;
- e. You shall not impede the normal and reasonable flow of traffic on the roadway when You and someone else are riding next to each other;

- f. You shall not operate the Bike nighttime unless the bicycle is equipped with the safety equipment designated in Sec. 551.104(b)(1)-(2);
- g. You shall not operate the Bike unless the electric motor disengages or ceases to function either (1) when You stop pedaling or (2) when the brakes are applied;
- h. You shall not operate a Class 3 Bike unless You are at least 15 years of age;
- i. If You are operating the Bike on a roadway and are moving slower than the other traffic on the roadway, You shall ride as near as practicable to the right curb or edge of the roadway, unless the exceptions in Sec. 551.103(a)(1)-(4) apply.

Moreover, pursuant to TX CIV PRAC & REM §82.003 and applying to those residing in Texas, Robocycle shall not be liable for any product liability action due to the fact that electronic bicycles are products known to be unsafe by the ordinary consumer who consumes the product with the ordinary knowledge common to the community.

For those residing in the state of California, You must comply with AB-1096, which provides that:

- a. You shall not operate the Bike on a bicycle path or trail, bikeway, bicycle lane, equestrian trail, or hiking or recreational trail, unless it is within or adjacent to a roadway or unless the local authority or the governing body of a public agency having jurisdiction over the path or trail permits, by ordinance, that operation;
- b. You shall not operate a Class 3 Bike if You are under 16 years of age;
- c. You shall not operate a Class 3 Bike or ride as a passenger unless wearing a properly fitted and fastened bicycle helmet that meets the requirements set forth in AB 1096 Section 21213;
- d. You shall not tamper with or modify the Bike so as to change the speed capability of the Bike, unless You appropriately replace the label indicating the Classification required in subdivision (c) of Section 312.5.

For those residing in the state of Colorado, You must comply with C.R.S. 42-4, which provides that:

- a. You shall not use the Bike to carry more persons at one time than the number for which it is designed or equipped;

- b. You shall not attach Yourself to any motor vehicle upon a roadway;
- c. You shall not ride next to another electronic bike operator except on paths or parts of roadways set aside exclusively for bicycles;
- d. You shall not ride a Class 3 Bike upon any street, highway, or bike or pedestrian path if You are under 16 years of age, unless You are a passenger;
- e. You shall ride in the right-hand lane when operating on a roadway at less than the normal speed of traffic, subject to the conditions in Section 42-4-1412(5)(a);
- f. You shall keep at least one hand on the handlebars at all time;
- f. You shall comply with the parking requirements of Section 42-4-1412(11); h. You shall wear a bicycle helmet if You are under 18 years of age, and
  - i. That helmet shall must conform to the specifications in Section 42-4-1412(15)(b)(II)
  - ii. That helmet must be secured properly on Your head with a chin strap while the Class 3 Bike is in motion

Moreover, pursuant to CO Rev. Stat. §13-21-402.5 and applying to those residing in Colorado, Robocycle shall not be liable for injury, death, or property damage that occurs as a result of use in a manner or for a purpose other than that which was intended and which could not reasonably have been expected, with such misuse as the cause of the injury, death, or property damage.

For those residing in the state of Illinois, You must comply with SB 0396 Sec. 11, which provides that:

- a. You must operate a Class 2 Bike in a manner so that the electric motor is disengaged or ceases to function when the brakes are applied;
- b. You must operate a Class 1 and Class 3 Bike in a manner so that the electric motor is disengaged or ceases to function when You stop pedaling;
- c. You shall not operate a low-speed Bike on a sidewalk;
- d. You shall not operate a Class 3 Bike if You are under 16 years of age; however, You may ride as a passenger

Moreover, pursuant to IL ST CH 735 §5/13-213 and applying to those residing in Illinois, Robocycle shall not be liable for injury or damages claimed to have resulted from an alteration, modification, or change of the Bike, when that injury or damage is claimed to have resulted from said alteration, modification, or change of the Bike.

For those residing in the state of New Jersey, You must comply with N.J.S. §39:4-14.16, which provides that:

- a. You shall not tamper with or modify a low-speed Bike so as to change the motor-powered speed capability or engagement of a low-speed electric bicycle, unless You appropriately replace the label indicating the Classification required in subsection b. of N.J.S. §39:4-14.16;
- b. You shall not operate the Bike on a trail designated for nonmotorized traffic if such trail has a natural surface tread made by clearing and grading the soil and no surfacing materials have been added;
- c. You may not park the Bike on the sidewalk so as to impede the normal movement of pedestrian or other traffic upon the sidewalk.

Moreover, pursuant to NJ Rev Stat §2a:58C-3 and applying to those residing in New Jersey, Robocycle shall not be liable for avoidably or unavoidably unsafe aspects of the Bike, regardless of whether or not Robocycle provides adequate warning or instruction. Robocycle shall not be responsible for injuries resulting from unsafe aspects of the Bikes, regardless of whether or not such unsafe aspects are an inherent characteristic of the product or are such that an ordinary person who uses the Bike with the ordinary knowledge common to the Class of persons for whom the product is intended is aware of such aspects.

For those residing in the state of Michigan, You must comply with Michigan Vehicle Code Chapter 257, which provides that:

- a. You shall not tamper with or modify the Bike so as to change the manufactured motor-powered speed capability or motor engagement of the Bike without replacing the label required under subsection (2) with an appropriate label printed in Arial font and in at least 9-point type;

- b. You shall not operate a Class 3 Bike if You are under 14 years of age; however, You may ride as a passenger;
- c. You must wear a properly fitted and fastened bicycle helmet that meets federal standards established by the United States Consumer Product Safety Commission or the American Society for Testing and Materials if You are under 18 years of age;
- d. You shall not operate the Bike on a trail that is designated as non motorized and that has a natural surface tread that is made by clearing and grading the native soil with no added surfacing materials;
- e. You shall only operate a Class 2 or Class 3 electric bicycle on a linear trail that has an asphalt, crushed limestone, or similar surface, or a rail trail if authorized by the local authority or agency of this state having jurisdiction over the trail.

Moreover, pursuant to the Revised Judicature Act of 1961 – §600.2946 and applying to those residing in Michigan, Robocycle shall not be responsible for failure to warn of a material risk that is or should be obvious to a reasonably prudent Bike user or a material

risk that is a matter of common knowledge to those in the same or similar position as the person upon whose injury a claim is premised on. Robocycle shall not be liable for injuries resulting from product defects that could have prevented harm through the use of practical and technically feasible alternative production practices. Robocycle shall not be 100% liable in a product liability claim for harm caused by misuse, alteration, or change of the Bike, regardless of whether or not the misuse was reasonably foreseeable.

For those residing in the state of Florida, You must comply with CS/SB 1148(4), which provides that:

- a. You shall not tamper with or modify the Bike so as to change the motor-powered speed capability or engagement of the Bike, unless the label indicating the Classification number required in subsection (3) of CS/SB 1148 is replaced after such modification.

For those residing in the state of Oregon, You must comply with ORS 814, which provides that:

- a. You shall not operate the Bike on any portion of a roadway that is not a bicycle lane or bicycle path when a bicycle lane or bicycle path is adjacent to or near the roadway;
- b. You shall not operate the Bike and carry more persons on the Bike than the number for which it is designed or safely equipped;
- c. You shall not operate the Bike and carry a package, bundle or article which prevents You from keeping at least one hand upon the handlebar and having full control at all times;
- d. You shall not operate the Bike if You are under 16 years of age;
- e. You shall not operate the Bike on a highway or on premises open to the public without wearing protective headgear of the type approved by ORS 815.052 if You are under 16 years of age;
- f. You shall not commit the offense of unsafe operation of the Bike on a sidewalk, which includes but is not limited to:

- i. Operating the Bike so as to suddenly leave a curb or other place of safety and moving into the path of a vehicle that is so close as to constitute an immediate hazard;
- ii. Not giving an audible warning before overtaking and passing a pedestrian, and not yielding the right of way to all pedestrians on the sidewalk;
- iii. Operating the Bike in a careless manner that endangers or 102 would be likely to endanger any person or property;
- iv. Operating the Bike on a sidewalk;
- v. Operating the Bike at a speed greater than an ordinary walk when approaching or entering a crosswalk, approaching or crossing a driveway or crossing a curb cut or pedestrian ramp and a motor vehicle is approaching the crosswalk, driveway, curb cut or pedestrian ramp (note this does not require reduced speeds for the Bike at places on sidewalks or other pedestrian ways other than places where the path for pedestrians or bicycle traffic approaches or crosses that for motor vehicle traffic).

Moreover, pursuant to ORS 30.915 and applying to those residing in Oregon, Robocycle shall not be responsible for foreseeable and unforeseeable modifications, alterations, and/or changes to the Bike, regardless of whether or not Robocycle provided warning associated with modifications, alterations, or changes to the Bike.

For those residing in the state of Massachusetts, You must comply with Massachusetts Code, Ch. 85, Sec. 11B, which provides that:

- a. You shall not ride a Class 3 Bike on a bike path or shared-use path unless permitted by the municipality, local authority or state agency having jurisdiction over that path;
- b. You shall not tamper with or modify the Bike so as to change the motor-powered speed capability or engagement of the Bike, unless You appropriately replace the label required by subsection (3) of Massachusetts Code, Ch. 85., Sec 11B;
- c. You shall not operate a Class 3 Bike if You are under 16 years of age; however, You may ride as a passenger;

- d. You must wear a properly fitted and fastened bicycle helmet that meets the standards provided by either the United States Consumer Product Safety Commission or the American Society for Testing and Materials, or standards subsequently established by those entities, if You are operating or riding a Class 3 Bike, regardless of Your age and whether or not You are an operator or 104 passenger;
- e. You must ensure that the municipality or local authority having jurisdiction over the streets, roads, or ways You are operating a Class 3 Bike on allow the operation of Class 3 Bikes on those streets, roads, or ways.

**Notwithstanding, even if you reside in a country, state, or province that does not explicitly make any of the following activities illegal, You represent and warrant that:**

- a. **You shall not tamper with or modify the Bike so as to change the motor-powered speed capability or engagement of the Bike;**

- b. You shall wear a properly fitted and fastened bicycle helmet that meets the standards provided by either the United States Consumer Product Safety Commission or the American Society for Testing and Materials, or standards subsequently established by those entities, regardless of Your age and whether or not You are an operator or passenger;
- c. You shall not operate the Bike in a careless manner that endangers or would be likely to endanger any person or property;
- d. You shall not operate the Bike and carry a package, bundle or article which prevents You from keeping at least one hand upon the handlebar and having full control at all times;
- e. You shall not operate the Bike and carry more persons on the Bike than the number for which it is designed or safely equipped;
- f. You shall keep at least one hand on the handlebars at all time;
- g. You shall not operate the Bike on fully controlled limited access highways;
- h. You shall not operate the Bike where motorized vehicles are prohibited.



You represent and warrant that You must not operate the Bike with recklessness, carelessness, or disregard for the safety of Yourself or others, including but not limited to wheelies, burnouts, stoppies, rolling stoppies, donuts, hand drags, duanes, cartoon stoppies, tail drags, heel clicks, knee draggins, stand ups, left leg crossovers, stand up wheelies, sit down wheelies, rear peg wheelies, fender grabs, sidesaddle wheelies, high chair wheelies, flamingos, rolling burnouts, crossup burnouts, switchbacks, arches, tank headstands, rolling endos, droppies, christs, reverse christs, leap of faiths, 106 leap of deaths, and any other stunt or activity, known now or in the future, that puts You at risk for injury.

## **Warranty Information**

All Robocycle Electric bikes are covered by a manufacturer's one year all inclusive warranty. For the **original** owner against all manufacturing defects. Warranty details are subject to change at any time; for the most current version visit the "Warranty" section on the Robocycle website. Robocycle warrants this product, including all individual components against defects in material or workmanship as follows: bikecomponents including frame, forks, stem, handlebar, headset, seat post, seat saddle, brakes, lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display, kickstand, reflectors, and hardware are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase date.

Robocycle lithium ion batteries are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase.

**The battery does not include damage from power surges, use of improper**

**charger, improper maintenance or other such misuse, disassembly, normal wear, or water damage.**

## **Warranty Exclusions**

- Liability for material defects does not cover normal wear and tear, which occurs from the manufacturers' intended use of the product. Components such as the battery pack, motor system, braking system, drivetrain system, seat, grips and pedals are all subject to intended use-related wear and are not covered under the warranty from normal wear.
- Damage arising from the use of the bike in a competition or other applications outside of normal intended use.
- Damage arising from improper tools, improper assembly, or improper maintenance performed on the bike.
- Damage resulting from adding non-standard equipment, parts, or modifications

## **Additional Warranty Terms**

This warranty does not cover any damage or defects resulting from failure to follow instructions in the owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, wear and tear, installation of parts or accessories not originally intended or compatible with the bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance. This warranty does not include normal wear and tear or consumable parts designed to wear down over time, including tires, tubes, brake pads, cables and housing, spokes, and handlebar grips. Robocycle will not be liable and/or responsible for any damage, failure, or loss caused by any unauthorized service or use of unauthorized parts. In no event shall Robocycle be responsible for any direct, indirect, or consequential damages, including without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, or product liability in connection with their products. All claims to this warranty must be made through Robocycle. Proof of purchase is required with any warranty request.

Components of the Robocycle 3 are subject to higher wear when compared to bikes without power assistance. This is because the Robocycle 3 can travel at higher average speeds than regular cycles and has a greater weight. Higher wear is not a defect in the product and is not subject to warranty. Typical components affected are the tires, brake pads and rotors, suspension forks, spokes, wheels, and the battery pack.



**When the useful life of a component is surpassed it can cause unexpected loss of function. This can result in serious injuries or even death. Therefore, pay attention to wear characteristics such as cracks, scratches, or changes in the color or operation of components which could indicate useful life has been exceeded. Worn components should be replaced immediately. If you are unfamiliar with regular maintenance, a certified, reputable bike mechanic should be consulted. Robocycle shall not be responsible for any and all damages or injuries resulting from use of a Robocycle past its useful life.**

**If you have any other questions, or concerns do not hesitate to reach out BEFORE you ride, at any time!**

[hello@robocycle.co](mailto:hello@robocycle.co)

## **WARRANTY REGISTRATION**

To qualify your purchase for your warranty you must email the following information to  
[hello@robocycle.co](mailto:hello@robocycle.co)

**Customer Name:**

**Date of Purchase**

**Order #:**

**Serial Number of the bike:**

**Serial Number of the battery/batteries:**