



TUTTIO

DIFFERENT CYCLING!

ICT

User Manual

Product Installation video:



Thanks for your purchase of TUTTIO electric bike

We really appreciate your business cooperation with us and we wish you a good time with the TUTTIO e-bike. This manual will help you assemble and operate your new electric bike. Be sure to read all of the information in this manual before riding.

If you have any quality problems, please contact our after-sales service as follows:

Customer service email: ict@tuttiosport.com

WhatsApp account: +12023009345

website: WWW.TUTTIOSPORT.COM

In order to quickly and efficiently solve your problem, please add our WhatsApp account.






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Product Safety Notice









Read This Before You Ride

	Always wear a helmet when riding your electric bike.
	Keep the keys properly. If the unique keys are lost, you will not be able to lock&unlock the battery. If necessary, you should get more spare keys. We cannot guarantee the provision of a backup key.
	Make sure your electric bike has a full battery before riding.
	Please make sure to comply with local traffic laws and regulations while riding.
	Do not ride after consuming alcohol or certain drugs.
	Always respect pedestrians.
	Do not ride in extreme conditions such as rain, snow, or strong winds. The electric bike may slip and cause injury. Wet conditions can damage electronic components and affect the warranty.
	NOTE TO ALL RIDERS UNDER 18 YEARS OF AGE: Please ride the e-bike with your guardian's permission. Persons under 16 years of age are not permitted to ride e-bikes.

Package Contents

Carefully check the package contents, if anything is missing or damaged , please contact TUTTIO Bikes customer service team for assistance: ict@tuttiosport.com

Please retain the packaging box for at least one month.

	
1x bike main body	1x Front wheel
	
1x Tools	2x Pedals
	
1x Key	1x Charger
	
1x Owners manual	1x Pump

Product Overview



Assembly

Handlebar

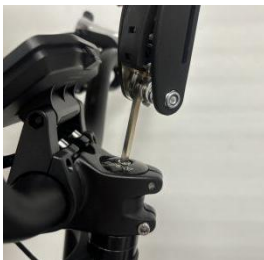


1. Turn the stem to the front. Make sure that the front fork does not turn with the stem, so the front fork arch is at the front of the bike, not at the back.

2. Remove the faceplate of the stem.



3. Ensure that the cables run cleanly from the handlebar and are not twisted. Do not remove or detach the cables. Insert the handlebar then reattach the faceplate of the stem.



5. Tighten the screws on the faceplate. Alternate between the screws to ensure that the faceplate has a consistent gap from the stem along all edges and is securely tightened. The handlebar should be aligned so that once the front wheel is installed, the brake levers are at a 45-degree angle to the ground.

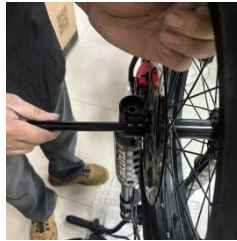
6. Tighten the screw under the black rubber cover on the top of the fork.

7. Align the stem with the front fork and tighten the two screws on the stem.

Front Wheel



1. Turn the bike upside down on the ground. Place soft foam under the handlebar to prevent crushing the display and other parts.
2. Turn Remove the nut at the bottom of the fork. Take out the black shaft,the white hose is not an accessory for the electric bicycle,please ignore it. Loosen the four screws on both sides



3. Lift the front wheel, then insert the disc rotor into the caliper and aim at the holes on both sides to insert the black shaft to ensure that the front fork and the front wheel are correctly connected.
4. Place the nut on the right side of the wheel. Tighten the nut with a wrench to ensure that the turntable is in the center of the caliper when tightening. Then lock the four screws on both sides.
5. The disc rotor should not touch the brake pads. Roll the front wheel; if the disc rotor makes a metal friction sound, check whether you have correctly performed step 4.

Mudboards and headlights

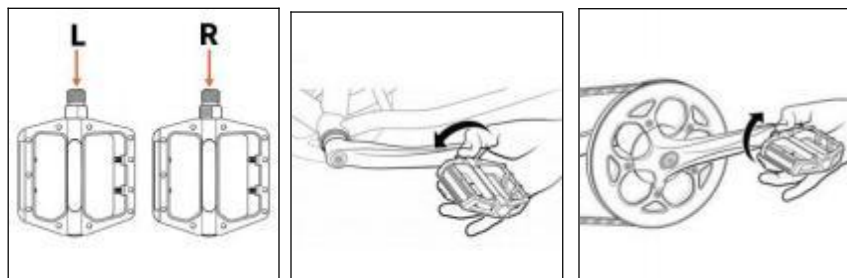


1. Ensure the front fork arch is at the front of the bike, not at the back.
2. Position the fender correctly and tighten the screws.



3. Install the headlamp on the front fork arch.
4. The horn is integrated into the headlight.

Pedals



1. It is important to note that pedals are sided. Remember, this is always from the perspective of the rider. Locate the left-hand side/right-hand side pedal, which is marked "L" and "R".

2. The thread on the left-hand pedal is reversed, so **tighten it counterclockwise**. Install the left-hand pedal into the left crank arm gently by hand, then tighten the pedal with a 15mm wrench.

3. The right-hand pedal has a normal thread, so **tighten it clockwise**. Install the right-hand pedal into the right crank arm gently by hand, then tighten the pedal with a 15mm wrench

Battery

For your convenience, the battery on ARCHON PLUS / VIPER PLUS can be removed with a key.



Lock



Unlock



Install the battery

1. To remove the battery, first insert the battery key into the keyhole. Turn the key counterclockwise to unlock and remove the battery down

2. Carefully card the bottom of the battery into the card slot, and then push up to install the battery

NOTE:

1. Before each use, lock battery and remove the key. If the lock does not lock up or the key cannot be removed, the battery has not been properly installed. Please remove the battery and install it again.
2. When removing the battery, turn the key counterclockwise to unlock. slide the battery upwards and lift it off the down tube.
3. When the battery is removed, be careful not to drop or damage it. Avoid damaging the exposed connector terminals and keep them clear of debris or water.
4. Do not force the battery into the battery holder. Slowly align and push the battery down into the battery holder.
5. Ensure the battery has been properly secured to the bike before each use. Carefully pull upwards on the battery with both hands to test the security of its attachment to the mount.
6. Keep the keys properly. If the unique keys are lost, you will not be able to lock/unlock the battery. It is recommended to store two keys separately. If necessary, you should get more spare keys. We cannot guarantee the provision of a backup key.

Charge Your E-Bike

1. The battery can be charged while attached or detached from the bike. To remove the battery, see the previous "Remove Battery" section for details. You should plug your battery in when you first receive it to ensure it is fully charged prior to your first ride.
2. Remove the rubber cover on the left charging port. Insert the charger output plug into the battery charging port.

3. Plug the charger into a power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger turning red.



4. Once fully charged, the charging indicator light will turn green. Unplug the charger from the power outlet first and then remove the charger output plug from the battery charging port. Avoid leaving the charger plugged in when the battery is fully charged.

WARNING:

1. Do not leave your battery unattended while it is charging.
2. Do not charge the battery with chargers other than the charger provided by TUTTIO Bikes.
3. Only charge the battery indoors in dry spaces that are not excessively hot or cold.
4. Ensure there are no dirt, debris, or flammable items nearby when using the charger.
5. The charger will automatically stop charging once the battery reaches its full capacity.
6. Store the battery indoors in a dry space, away from heat or flame sources and out of direct sunlight.
7. The charger may get hot when charging. Be careful and avoid touching the charger while charging.

Keeping your battery safe and healthy

1. Do not submerge the battery in liquid of any kind.
2. Do not touch the terminals at the back of the battery.
3. Remove the battery from the bike if it will not be used for a long time.
4. The battery should not be excessively difficult to attach or remove from the battery mount. Do not force the battery to avoid the risk of damage or personal injury.
5. Battery charging times may increase with battery age and usage.
6. Only grab the charger by the plug, not the cable, when plugging and unplugging it from the wall.
7. If you know you won't be using the battery for more than a few days, keep it charged at about 75% capacity. At 75%, the battery will degrade less than at higher charge levels.
8. Periodically check your battery's charge level about once per month and charge back up to 75% if necessary.
9. If you want to increase the number of cycles your battery will last for, charge your battery to 100% a few hours before you plan to ride it. For example, if you ride the bike and the charge level falls to 50% but you plan to use the bike again in a few days, wait until the night before you plan to use it again to charge it up to 100%.
10. When your battery has worn out and is no longer usable, dispose of it according to your country or district regulations. Country regulations regarding battery disposal vary, so it is important to find out the rules in your country or district. Lithium-ion batteries cannot be put in with normal garbage.

△ Lithium-ion batteries can be dangerous. Take care when using and charging your battery. Failure to follow the above guidelines could result in damage to property and/or serious injury. Please contact Tuttio Bikes immediately if you have any questions regarding battery safety.

How to start the ebike

1. Install and lock the battery , remove and keep the key safe.
2. Insert the key and open the throttle.
3. Press and hold the “POWER ON/OFF” button until the display lights.



Serial Number



Your bike has a one of a kind serial number associated with it. The serial number is located on the head tube or on the bottom axis connecting the pedals. Only you will see this serial number after receiving the bike; we DO NOT know which serial number corresponds to your bike.

Please find the serial number on your bike and write it down on page 1 of this manual. You may be asked for your bike's serial number as a part of warranty requests. You may also be asked to provide this number to law enforcement in the event that your bike is stolen.

Operate Your E-bike

Make sure you read this entire manual before turning on and operating your e-bike.

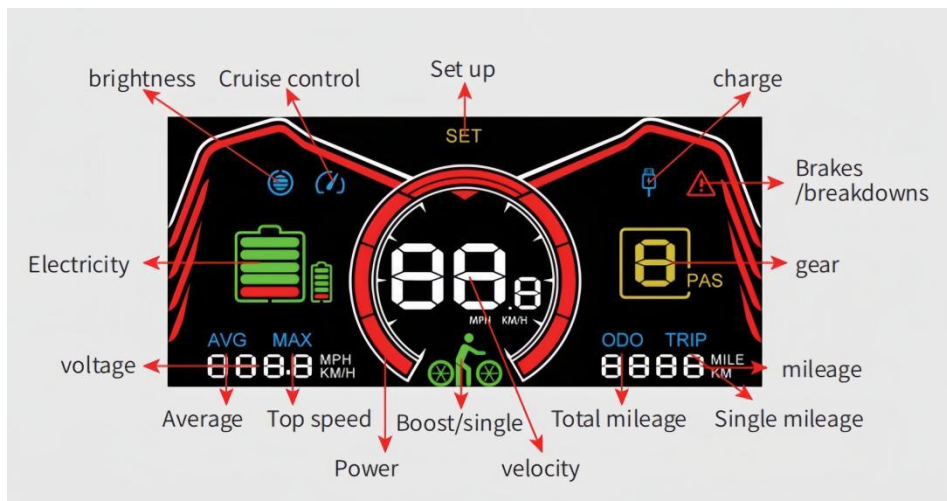
Now that your e-bike is assembled, it is almost time to start riding. TUTTIO bikes are equipped with pedal assist, a twist throttle, and can also be used as regular bikes.

Before learning how to operate your new e-bike, it is important that you know where all of the important controls are located. Below are photos showing where key controls and features are on your e-bike.

Operation Instruments



LCD Display functions





Walk Mode

In general, electric bikes are heavier than regular bikes. This makes walking the e-bike a more strenuous activity. To make walking the e-bike easier, TUTTIO bikes are equipped with walk mode.

If you depress the down button on the display control pad, the motor will be engaged at a speed similar to that of a slow walk. Once you release the down button, the motor will stop running.

To deactivate walk mode, please press and hold the down button again.

Display Settings

To change display settings, hold the up and down button simultaneously to enter the advanced settings menu. In this menu, clicking the up and down button to toggle from P01 to P18. Clicking the  button to flash the value number. To adjust the value of each setting, click the up and down accordingly. *After changing the value, hold the  button within 10 seconds to save changes. If there is no save or no action within 10 seconds, you will automatically exit the advanced settings without saving values.*

Setting	Function	Default	Explanation
P01	Brightness	04	0:Automatically adjust the screen through light sensing by default. 1 - 4: Manually adjust the backlight brightness from level 1 to level 4.
P02	Distance Units	01	Distance Units. 0: KM; 1: MILE.
P03	Voltage Setting	60	Voltage of the motor.Do not change it .
P04	Sleep	0	Other numbers represent the sleep time,ranging from 1 to 60;unit:minutes
P05	PAS Gear	0-5	The pedal assist level ranges 0 to 5.Do not change it.
P06	Compute Value	20.0	Used by the electronics to compute speed and distance Traveled.Do not change it.
P07	Speed Measure	01	Magnetic steel number of the speed sensor.Do not change it.

Setting	Function	Default	Explanation
P08	Speed Limit	100 on km, 63 on mile	When using km units, 100 indicates no restriction. When in mile units, 63 means no limit. For example, 100 indicates no speed limit. 25 or a value below 25 indicates that the maximum running speed of the vehicle will not exceed 25 km / h.
P09	Throttle Zero Start	0	0: throttle active from standstill 1: throttle active only when already moving
P10	Drive mode setting.	02	0: PAS Active, Throttle Inactive 1: PAS Inactive, Throttle Active 2: Both PAS and Throttle Active
P11	PAS sensitivity	01	Sensitivity of PAS
P12	PAS Strength	05	Strength of PAS mode. When set to higher numbers, the motor will come on stronger. On lower numbers, it will be more gentle.

Setting	Function	Default	Explanation
P13	Types of PAS Sensor Magnetic steel	05	Types of PAS Sensor Magnetic steel.
P14	Controller current limit value	20	Not open to users. The modification is invalid. Do not change it.
P15	Controller Under voltage value	50	The controller will shut down when the voltage is lower than 39.5V.
P16	ODO reset setting	00	00–non reset 01–reset
P17	Automatic cruise	0	0: Disable cruise, 1: Enable cruise, Automatic cruise is optional
P18	Speed ratio	100	Display speed ratio adjustment range
P19	0 gear enable bit	0	0: There is gear 0. 1: There is no gear 0.

Please note: We do not recommend that you change the settings if your bike works well. Changing the settings may cause your bike to stop working properly. If your bike doesn't work properly after you change the settings, please return to the default settings. TUTTIO may change the default values in production without notice. If you need any help, please contact us.

Changing the Top Speed


You must check your local laws and regulations to determine if it is lawful to ride this bike on public roads before adjusting


the bike's top speed. Laws vary by trail, path, and road, so be sure to check in each new location where you will be riding.

To change the top speed of the e-bike:

1. Access the settings menu by pressing and holding the up and down buttons on the display simultaneously until the screen shows "P01".

2. From here, you can cycle through settings by clicking the up and down buttons on the display to adjust the settings to "P08".

3. Please go to setting "P08" and click the  button to flash the value number of "P08". Change the value from 100 to 25 (Suppose you want to adjust the maximum speed to no more than 25 km/h).

4. Hold the  button on the control pad until the main screen is shown once again.

5. Turn the bike off by holding the power button to save the settings you have just changed.

Battery Capacity Display

On the top of the LCD display, a battery indicator bar can be found which is labeled "energy bar". This battery indicator shows the estimated charge left in the bike's battery. As the battery depletes, tick marks will begin to disappear according to approximately how much charge has been used. The various charge level indicator states are shown below. The battery display will flash when there is no charge remaining.

Note: The energy bar will not always be accurate. The energy bar updates every few minutes based on the voltage of the battery. The voltage of the battery will change constantly while it is in use. When the current drawn from the battery increases, such as on an uphill slope, the voltage will decrease. So it is normal for the battery bar to suddenly decrease when going uphill.

FULL



EMPTY



TIPS WHEN RIDING TO INCREASE RANGE

To get the maximum range out of your bike, there are some simple things you can do:

- ✓ Ride with pedal assist instead of throttle.
- ✓ Ride in a lower level of pedal assist.
- ✓ Use lower assist levels and pedal when climbing hills.
- ✓ Pedal when starting from a standstill.
- ✓ Set your max speed lower than 15 mph on the LCD display.
- ✓ Keep the tires at proper pressure.

The range that the bike can go on a single battery charge may vary significantly due to factors such as riders, terrain, wind conditions, user input, and additional payload weight.

Troubleshooting

If your bike is not operating normally, there are some simple steps that can be taken to remedy the situation quickly. There may or may not be an error code that pops up on the screen depending on the issue. Solutions to common problems, as well as error code meanings, can be found below. If you have any questions at all regarding the basic troubleshooting below, reach out to TUTTIO Bikes customer support.

Symptoms	Possible Causes	Most Common Solutions
The bike does not work	<ol style="list-style-type: none"> 1. Battery not fully installed into frame mount receptacle 2. Battery switch turn off 3. Insufficient battery power 4. Faulty connections 5. Improper turn on sequence 6. Brakes are applied 7. Blown discharge fuse 	<ol style="list-style-type: none"> 1. Install battery correctly 2. Turn on the battery switch 3. Charge the battery 4. Clean and repair connectors 5. Turn on bike with proper sequence 6. Disengage brakes 7. Replace discharge fuse
Irregular acceleration and/or reduced top speed	<ol style="list-style-type: none"> 1. Insufficient battery power 2. Loose or damaged throttle 	<ol style="list-style-type: none"> 1. Charge or replace battery 2. Replace throttle
The motor does not respond when the bike is powered on	<ol style="list-style-type: none"> 1. Loose wiring 2. Loose or damaged throttle 3. Loose or damaged motor plug wire 4. Damaged motor 	<ol style="list-style-type: none"> 1. Repair and or reconnect 2. Tighten or replace 3. Secure or replace 4. Repair or replace
Reduced range	<ol style="list-style-type: none"> 1. Low tire pressure 2. Low or faulty battery 3. Driving with too many hills, headwind, braking, and/or excessive load 4. Battery discharged for long period of time without regular charges, aged, damaged, or unbalanced 	<ol style="list-style-type: none"> 1. Adjust tire pressure 2. Check connections or charge battery 3. Assist with pedals or adjust route 4. Balance the battery; contact customer support if range decline persists
The battery will not charge	<ol style="list-style-type: none"> 1. Charger not well connected 2. Charger damaged 3. Battery damaged 4. Wiring damaged 5. Blown charge fuse 	<ol style="list-style-type: none"> 1. Adjust the connections 2. Replace 3. Replace 4. Repair or replace 5. Replace charge fuse
Wheel or motor makes strange noises	<ol style="list-style-type: none"> 1. Loose or damaged wheel spokes or rim 2. Loose or damaged motor wiring 	<ol style="list-style-type: none"> 1. Tighten, repair, or replace 2. Reconnect or replace motor.

Error Codes

Error Code	Meaning	Most Common Solution
Error 06	Under-voltage Fault	Battery Discharge
Error 07	Motor Fault	Check if the motor cable is damaged. Check whether the connector of the motor cable is loose and the pins are good
Error 08	Throttle fault	The throttle is not in the original position before startup;The plug is loose;The throttle is damaged
Error 09	Controller fault	Check the cable harness connection of the controller or replace the controller with a new controller
Error 10	Communication Receiving Fault	check the plug condition;The controller is damaged;The instrument power lock is damaged;Short circuit of other 5V devices at the controller end causes the controller to crash)
Error 11	Communication Sending Fault	check the plug condition; The instrument is damaged;3The controller is damaged

Safety

Helmets and Local Laws

Always wear a helmet when riding your e-bike. Ensure that the helmet fits your head and is securely tightened. Before riding, read local laws and comply with all rules relating to cycling and e-biking in your area. If you attach a seat for children to the bike, they must also be wearing a properly fitted helmet at all times.

Pre-ride Safety Check and Inspection

Before each ride, make sure to inspect your e-bike to ensure there are no loose fasteners or accessories. Specifically, check that both the front and rear axles are secure. Also, make sure both the handlebar and the handlebar stem are not loose. Check the tire pressure of both wheels before riding to ensure the tires are inflated to the recommended pressure printed on the sidewalls of the tires. Pull the brake levers to make sure your brakes are working properly and adjust if necessary. Ensure both your seat post and handlebar stem are inserted past their minimum insertion points as indicated by the markings on them.

Riding in Wet Conditions

This electric bike can withstand light rain and small splashes but is not designed to be subjected to inclement weather, extremely heavy showers, or submersion in water. Use caution when riding in wet conditions as it will take longer to use the brakes to slow down, and also when turning as the tires may slip. The electrical components on the bike are not waterproof. The entire bike has an IP rating of 65. Water damage is not covered under warranty.

Riding at Night

Riding at night comes with more risks than riding during the day due to decreased visibility, so riders are encouraged to exercise increased caution. Before riding at night, make sure that reflectors

are installed on your e-bike. To increase visibility, also ensure the front headlight and rear tail light are turned on and adjusted so that other people on the road can see them clearly. Riders should wear bright-colored clothing at night.

Max Weight

The bike can safely carry a total weight of 330lbs. If the rear rack is attached to the bike, the maximum weight it can hold is 66lbs. Therefore, if you have a payload that is 66lbs, the maximum rider weight is 265lbs. Failure to adhere to these weight limits may invalidate your warranty, cause damage to the bike or rack, or cause serious injury to the rider. Note that range and top speed will be affected by the total weight being carried by the bike. **If you are over 265lbs, please lock out the suspension fork before riding.**

WARRANTY & DISCLAIMER

TUTTIO Bikes should be operated in accordance with the TUTTIO Bikes owner's manual provided with the bike. TUTTIO Bikes warrants to the original registered purchaser that TUTTIO Bikes shall be free from all defects in material and workmanship for a period of 12 months from the date of shipment, when used in accordance with the owner's manual and for the intended purpose. All other obligations, conditions, or liabilities, including obligations for consequential damages, are hereby excluded. The warranty is non-transferable and only applies to the original owner. This warranty gives you specific rights, and purchasers may also have other rights, which may vary by location. Damage caused by failing to adhere to instructions and warnings issued by TUTTIO Bikes is not covered under warranty.

Parts covered by the warranty: frame, forks, stem, handlebars, headset, seat post, saddle, brakes (excluding brake pads), lights, bottom bracket, crankset, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display (excluding damage due to water), kickstand, reflectors, and hardware. The battery warranty does not include damage from power surges, use of third-party chargers, improper maintenance, or other such misuses, normal wear, or water damage (including rust). Stolen bikes are not covered under warranty. Necessary precautions must be taken to ensure the bike and battery are not exposed to severe weather conditions. Exposure to very wet, hot, or cold conditions may void the warranty.

We will replace parts deemed to have been damaged during shipping. Shipping damage must be reported to TUTTIO Bikes within 14 days of the shipment's arrival. This applies to all products, including bikes and accessories. You will NOT be refunded as compensation for your time or efforts in replacing damaged parts. Replacement parts will not be sent until

photographic evidence has been provided to TUTTIO electric bikes. TUTTIO electric bikes may request additional documentation (such as video) to assist with accurately diagnosing the problem and processing the warranty claim.

Items including the chain, tires, wheels, tubes, battery handle, brake pads, cables and housing, grips, and spokes are considered wear items. These items wear down with normal use and are not covered under warranty. You are responsible for replacing and maintaining these worn items.

Any unauthorized alterations or repairs are not covered and may void this warranty.

For warranty services , please contact TUTTIO Bikes support team by email at **ict@tuttiosport.com**

Bikes or parts returned without proper documentation may result in delayed service or denied warranty coverage. Warranty return shipping costs, along with duties and taxes , are the responsibility of the claimant. All unauthorized returns will be refused.

Note that your insurance policies may not provide coverage for accidents involving TUTTIO Bikes. To determine if coverage is provided , you should contact your insurance company or agent. Damage as a result of an accident is not covered under this warranty, and TUTTIO Bikes is not responsible for the repair or replacement of damaged bikes or parts.

TUTTIO Bikes reserves the right to change its warranty at any time and without notice.

Return Policy:

To start the return process, the following conditions must be met:

All returns and refunds must be completed within 30 days of receiving the bike.

All bikes with a total mileage of more than 10 miles are not returned.

All returns require the original packaging materials and original shipping box. The packed box size and weight should not exceed 127.87 lbs and 59.05*12.2*34.25 (IN) .

The bike must not have any wear, dirt or scratches and must be in the same packaging and condition as when you received it and must contain all items in the box (battery, charger, keys, hardware, etc.)

All returns are subject to a 10-20% restocking fee and \$250 shipping per bike at your expense. (Not quality issues)

PLEASE NOTE

For shipping damage:

TUTTIO will do its best to provide you with service and provide all necessary parts. TUTTIO will do its best to provide you with service and technical support to solve simple problems.

Note: The following situations will be considered normal and are not applicable to the free replacement or refund policy:

- A) Minor damage to the outer packaging.
- B) The product has minor scratches or paint peeling.
- C) Parts or wearable parts are damaged due to excessive use.
- D) Parts or wearable parts are damaged after a certain period of time or number of uses

*****In order to better understand the problem and solve it effectively, photos and/or videos are required as evidence. Please believe that we can perfectly solve the after-sales problems you encounter!*****

Bike Performance Disclaimer

The listed range and top speed of the bikes are estimates (not guarantees) of expected performance. The performance will vary with rider weight, cargo weight, rider/cargo shape (both contribute to drag), terrain, tire pressure, brake adjustment, throttle vs PAS usage, pedal power, battery charge level, ambient temperature, and wind conditions. Under certain conditions, it is possible to get ranges and top speeds that are different from the listed estimates.

Liability Disclaimer

Riding any kind of bicycle comes with inherent risks and dangers that cannot be predicted or avoided. These dangers could result in a serious accident, injury, or death of the rider. It is the sole responsibility of the rider to become properly educated and prepared to ride safely.

Once in possession of the bike, TUTTIO Bikes strongly encourages and recommends that all customers have a certified and reputable bicycle mechanic complete a full inspection of each component on the bicycle to ensure it is safe for operation.

TUTTIO Bikes makes no claims or guarantees that the brakes, battery, frame, motor, motor controller, LCD display, electrical cables, electrical cable housings, fasteners, grips, fork, stem, shifters, headset, seat post, seat post clamp, handlebar stem clamp, saddle, wheel hubs, handlebars, spokes, rims, tires, tubes, derailleur, freewheel, cassette, throttle, kickstand, lights, reflectors, hardware, bottom bracket, or any other part or accessory, will be properly secured and adjusted upon arrival. Before every ride, fully inspect your bicycle to ensure everything is secured and adjusted properly.

Under no circumstances is TUTTIO Bikes responsible for any damage resulting from damaged, defective, or improperly secured parts. This includes, but is not limited to, damage to personal property, personal injury, or death.