

GOTRAX

BRAEBURN

ELECTRIC BIKE

USER MANUAL



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Congratulations on your purchase!

This user manual will help you assemble and operate your new electric bicycle. Be sure to read **ALL OF THE INFORMATION** in this manual before riding.

NOTE TO ALL RIDERS UNDER THE AGE OF 18:

It's very important that you get parental permission before riding your electric bicycle.

TOOLS INCLUDED: 2.5mm, 3mm, 4mm, 5mm, 6mm Allen wrench, 13mm&15mm open-end wrench, Flat Head & Phillips dual-purpose Screwdriver.





Don't Ride Until You Read This:



ALWAYS wear a helmet when riding your electric bike.



Make sure your electric bike has a **full battery** before taking it out to ride.



Always be aware of local road laws, and follow them.



Do not ride the bike under the influence of drugs or alcohol.



Always respect pedestrians.



Do not ride under wet conditions. The electric bike may slide from under your feet causing injury. Wet conditions may damage the electronics and void the warranty.



To conserve electricity, use assist mode and avoid zero starting, frequent braking, driving against the wind, carrying heavy loads including other people and riding with insufficient air pressure.



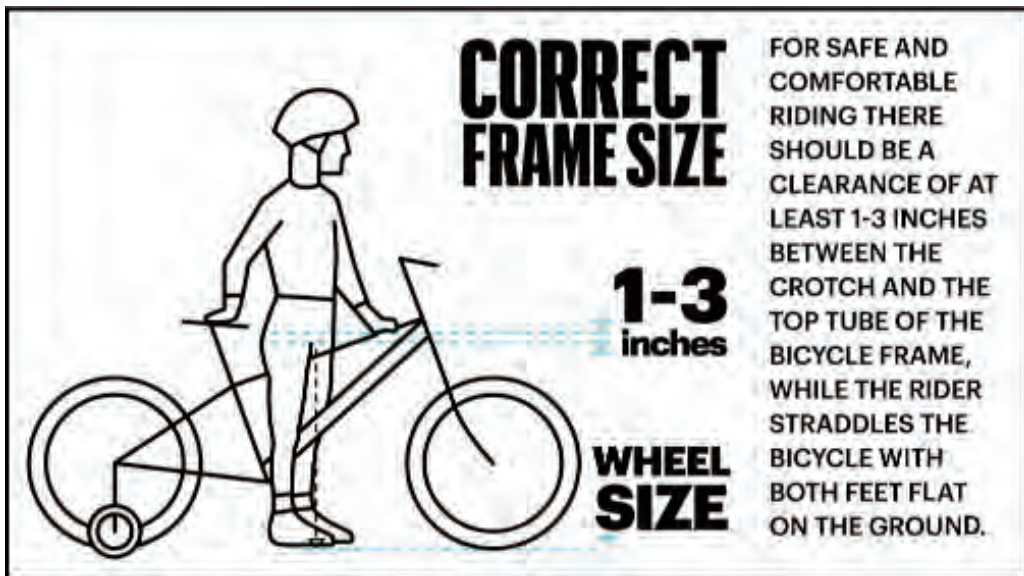
WARNING: Lithium-ion Batteries and/or products that contain Lithium-ion Batteries can expose you to chemicals including cobalt lithium nickel oxide, and nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

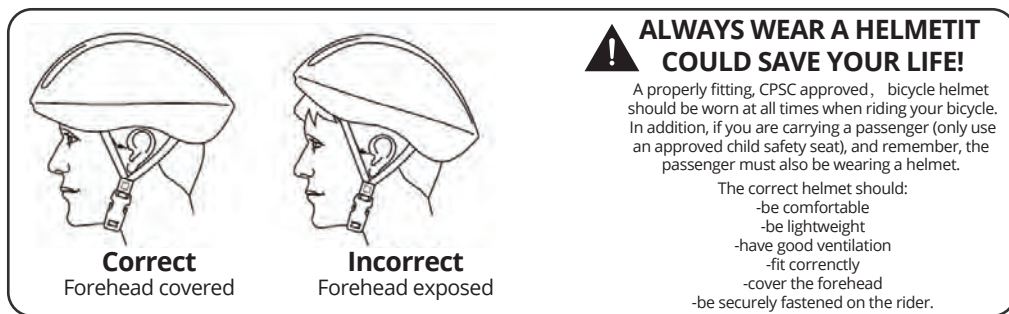


Warning Message

1. **Avoid water** -The electric bike is not waterproof. The electronics may be damaged due to water and water damage is not covered by our warranty. Riding in wet conditions is also very dangerous and may result in injury.
2. **Avoid prolonged exposure** to sun or rain and avoid storage in places with high temperatures or corrosive gas.
3. **Whenever you ride** the **GOTRAX** Electric Bike ,you risk severe injury or even death from loss of control, collisions, and falls. Use caution and ride at your own risk.
4. **Do not modify** the product from the manufacturers original design.
5. **Do not exceed** the posted speed limit and obey all traffic laws.
6. **Avoid touching** the charging port directly and do not let it make contact with a metal object.
7. **Keep hands and all body parts away** from moving parts while operating the electric bike.
8. **Before riding** - be sure to check the electric bike over and make sure all components and function are operating correctly before each use.
9. **Before riding** - be sure to check that the braking system is functioning properly; also be sure to check that all safety labels are in place and you understand the safety warnings.
10. **Before riding** - be sure that any and all axle guards, chain guards, or other covers or guards supplied by the manufacturer are in place and in serviceable condition.
11. **Before riding** - be sure to check that the tires are in good condition, inflated properly, and have sufficient tread remaining.
12. **Never exceed** the 264lbs (120 kg) maximum load rating.
13. **The electric bike should never** be used by children under the age of 16.
14. **Maximum Speed** -Your electric bike accelerates to a maximum speed of 20 mph.

- 15. Make note that additional insurance may be required** to cover situations you encounter while riding an electric bike. It is recommended that you contact an insurance company or broker for advice and consultation.
- 16. To conserve electricity,** use assist mode and avoid zero starting, frequent braking, driving against the wind, carrying heavy loads including other people and riding with insufficient air pressure.





FCC REGULATIONS This device complies with **Part 15 of the FCC Rules**. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

following measures:

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

- Leave it indoor when charging or not riding.
- WARNING - Risk of Fire - No User Serviceable Parts.
- Not intended for use at elevations greater than 2000 m above sea level.

SAVE THESE INSTRUCTIONS

MOVING AND STORAGE INSTRUCTIONS

Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use.

IMPORTANT SAFETY INSTRUCTIONS

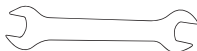
WARNING - When using this product, basic precautions should always be followed including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product.
- d) Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
- e) This equipment is not intended to be used at ambient temperatures less than 0°C (32°F) or above ambient temperatures of 40°C (104°F).
- f) The battery is intended to be charged when the ambient temperature is between 0°C (32°F) and 40°C (104°F). Never charge the battery when ambient temperatures are outside this range.
- g) Instructions indicate that charging of the eBike shall only be performed with the manufacturer's recommended charger.

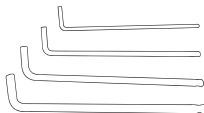


Unpacking and Product Specs

Remove all packaging material, then inspect each item for any accidental damage your box: that may have occurred during shipping. You should find each of item in you box:



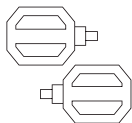
Large wrench



Allen wrenches



Screwdriver



Pedal



Battery Charger



Battery Keys



rear reflector

ITEM	SPECIFICATIONS
Model	BRAEBURN
Unfolded Dimensions	1860*670*1200mm(73.2*26.3*47.2in)
Package Dimensions	1480*275*830mm(58.2*10.8*32.7in)
Max Load	120kg(264lbs)
Max Speed	32km/h(20MPH)
Battery	48V 10.4Ah
Battery Specifications	Input 100-240V 50/60Hz AC Plug: Output 54.6V 2A
Max Angle of Climb	14 degrees
Charging Time	5.5 hours
Tire Pressure	20-45 P.S.I
Bell/Horn Specifications	Bell
Seat	6061 Aluminum Alloy
IP Level	IPX4



Get To Know Your E-Bike





Handlebar Assembly



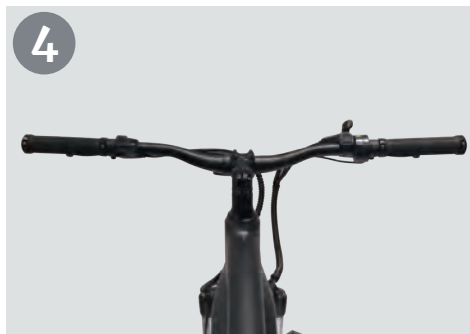
Disassemble the package, unscrew the bolt by 5mm hex wrench and remove the cover, bolt and paper tube, leaving all spacers in place; Put the handlebar riser into the front fork riser pipe according to the figure;



Adjust the handlebar to the riding angle and tighten the bolts at the top of the riser to secure it directly in front of the bike by 4mm hex wrench.



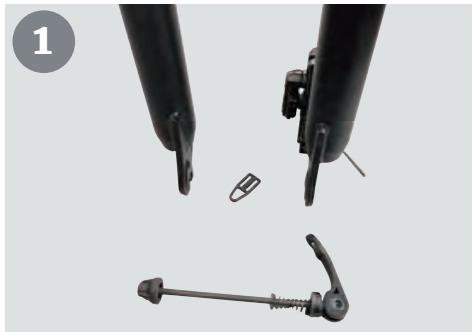
Use a 4mm hex wrench to lock the screws on the left and right ends of the stem to secure the handlebars.



Check whether the handlebar is aligned with the front wheel. If not, repeat above steps to adjust;



Front Wheel Assembly



Find the front wheel quick-release locking bolt from the toolkit, Remove packing block from disc brake caliper - Do Not Throw Away - Re-install Packing Block whenever you remove your front wheel.



Remove the transportation fixing plastic sheet from the front wheel, Align the brake disc of the front wheel with the brake groove, and then slowly install the wheel into the front fork.



Insert the quick-release screw into the front wheel axis. Please note that the screw is equipped with two springs. Install one spring on each side of the wheel axis and tighten the screws.

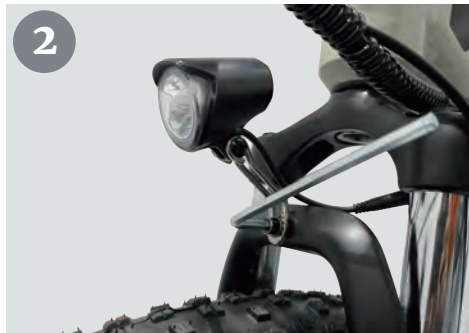


And then pull the quick-release screw inward to fix it. Confirm proper operation of the wheel.

Headlight Installation



Use a 5mm hex wrench to remove the bolt on the shoulder of the front fork.



Locate the front light and use a 5mm wrench to install it on the front fork.



Instrument Panel Installation

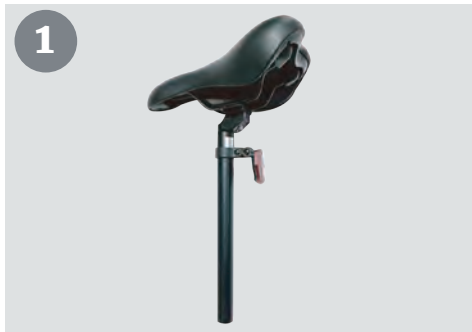


Locate the instrument panel and use a 2.5mm hex wrench to remove the locking bolts on both sides of the instrument panel.



Install the instrument panel locking bracket on both sides of the handlebar, adjust the instrument panel to a comfortable viewing angle, and use a 2.5mm hex wrench to tighten (Note: Tighten the bolts with moderate force, and adjust the angle of the instrument panel according to different riding postures).

Seat Assembly



Take the seat post and seat tube;



Loosen the seat quick releas clamp;



Insert seat post into seat tube, adjust position; Adjust the seat height. Clamp secure/tighten the quick release clamp;
(NOTE: YOU NEED TO EXCEED THE MINIMUM INSERTION MARK WHEN INSERTING)



Clamp secure/tighten the quick release clamp. Attention: The depth of insertion must reach the minimum safety insertion mark.

Pedals Assembly



Check the L-Left and R-Right pedal;



Take 15mm wrench out of toolbox;



Drive Side of Bike select R-Right pedal;
Insert Pedal into Crank/Drive side and
start to turn CLOCKWISE;
Once hand tight apply 15mm wrench to
pedal and tighten and secure;



NON Drive Side of Bike select L-Left pedal;
Insert Pedal into Crank Arm/NON- Drive side
and start to turn COUNTER CLOCKWISE;
Once hand tight apply 15mm wrench to pedal
and tighten and secure;



Removing the Battery



Turn the key counterclockwise.



The battery will automatically pop up; lift it upward to remove.



After removing the battery, keep the battery compartment clean and avoid exposure to rainwater.



After removing the battery, you can charge it separately. Proper storage of the battery is crucial when not in use.



Charge Your Battery



Insert the output end of the charger into the battery and the input end into the power supply;



Red light indicates that the battery is charging, and green light indicates that the battery is fully charged.



Power indicator:

Press the button to light up.

The three-color light corresponds to the power:
blue(high),green(middle)and red(LOW).



Tire Inflation Instructions

Tires and Tubes

After assembling your bike, it will be necessary to inflate the tires. Check the sidewall of the tire for the correct tire pressure (PSI) and inflate tires accordingly with a MANUAL BICYCLE PUMP. **Improper inflation is the biggest cause of tire failure. Due to the slightly porous nature of bicycle inner tubes, it is normal for your bike tires to lose pressure over time. For this reason it is critically important to maintain the proper tire inflation on your bike.**

1. Your bicycle has been equipped with tires which the bike's manufacturer felt were the best balance of performance and value for the use for which the bike was intended. The tire size and pressure rating are marked on the sidewall of the tire. CAUTION: Pencil type automotive tire gauges and gas station air hose pressure settings can be inaccurate and should not be relied upon for consistent, accurate pressure readings. Instead, use a high quality dial gauge.

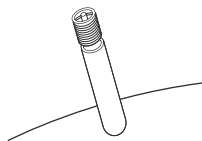


WARNING: NEVER INFLATE A TIRE BEYOND THE MAXIMUM PRESSURE MARKED ON THE TIRE'S SIDEWALL. EXCEEDING THE RECOMMENDED MAXIMUM PRESSURE MAY BLOW THE TIRE OFF THE RIM, WHICH COULD CAUSE DAMAGE TO THE BIKE AND INJURY TO THE RIDER AND OTHERS. THE BEST WAY TO INFLATE A BICYCLE TIRE TO THE CORRECT PRESSURE IS WITH A BICYCLE PUMP. NEVER USE A SERVICE STATION AIR HOSE TO INFLATE A BICYCLE TIRE. IT IS DESIGNED FOR LARGER TIRES AND IT CAN EXCEED THE RECOMMENDED MAXIMUM PRESSURE AND IT MAY BLOW THE TIRE OFF THE RIM.

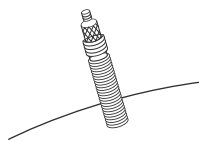
Tire pressure is given either as maximum pressure or as a pressure range. How a tire performs under different terrain or weather conditions depends largely on tire pressure. Inflating the tire to near its maximum recommended pressure gives the lowest rolling resistance; but also produces the harshest ride. High pressures work best on smooth, dry pavement. Very low pressures, at the bottom of the recommended pressure range, give the best performance on smooth, slick terrain such as hard-packed clay, and on deep, loose surfaces such as deep, dry sand. Tire pressure that is too low for your weight and the riding conditions can cause a puncture of the tube by allowing the tire to deform sufficiently to pinch the inner tube between the rim and the riding surface.

Some special high-performance tires have unidirectional treads: their tread pattern is designed to work better in one direction than in the other. The sidewall marking of a unidirectional tire will have an arrow showing the correct rotation direction. If your bike has unidirectional tires, be sure that they are mounted to rotate in the correct direction.

2. The tire valve allows air to enter the tire's inner tube under pressure, but doesn't let it back out unless you want it to. There are primarily two kinds of bicycle tube valves: The Schraeder Valve and the Presta Valve. The bicycle pump you use must have the fitting appropriate to the valve stems on your bicycle. The Schraeder is like the valve on a car tire, this is the type of valve stem you should have on your bike. To inflate a Schraeder valve tube, remove the valve cap and push the air hose on your bike. To inflate a Presta valve tube, remove the valve cap and push the air hose or pump fitting onto the end of the valve stem. To let air out of a Schraeder valve, depress the pin on the end of the valve stem with the end of a key or other appropriate object.



Schraeder Valve



Presta Valve



User Maintenance Instructions

Correct routine maintenance of your new bike will ensure a longer life for your bike and a safer ride for you.

Every time you ride your bike, its condition changes. The more you ride, the more frequently maintenance will be required. We recommend you spend a little time on regular maintenance tasks. The following schedules will assist you in knowing what tasks need to be performed and how often. **If you have any doubts about your abilities to accomplish these tasks, we recommend you task your bike to a professional bicycle mechanic periodically to have them done.**

Schedule1 - Lubrication

Frequency	Component	Lubricant	How to Lubricate
Weekly	chain derailleur wheels derailleurs brake calipers brake levers	chain lube or light oil chain lube or light oil oil oil oil	brush on or squirt brush on or squirt oil can 3 drops from oil can 2 drops from oil can
Monthly	shift levers	lithium based grease	disassemble
Every Six Months	shift levers brake cables	oil lithium based grease	2 drops from oil can disassemble
Yearly	bottom bracket pedals derailleur cables wheel bearings headset seat pillar	lithium based grease lithium based grease lithium based grease lithium based grease lithium based grease lithium based grease	bicycle mechanic disassemble disassemble bicycle mechanic bicycle mechanic disassemble

Note: The frequency of maintenance should increase with use in wet or dusty conditions. Do not over lubricate-remove excess bubricant to prevent dirt build up. Never use a degreaser to lubricate your chain (WD-40T™)

Schedule2 - Service Checklist

NOTE: Many instructions for adjustments can be found in the assembly portion of this manual.

Frequency	Task
Before every ride	check wheel and pedal tightness check tire pressure check brake operation check wheels for loose spokes, loose axle nuts or quick release make sure all fasteners are tightened securely
After every ride	quick wipe down with damp cloth
Weely	lubrication as per schedule 1
Monthly	lubrication as per schedule 1 check derailleur adjustment check brake adjustment check brake and gear cable adjustment check tire wear and pressure check wheels are true and spokes tight check hub, head set and crank bearings for looseness check pedals are tight check handlebars are tight check seat and seat post are tight and comfortably adjusted check frame and fork for trueness

	check all nuts and bolts are tight
Every six months	lubrication as per schedule 1 check all points as per monthly service check and replace brake pads, if required check chain for excess paly or wear
Yearly	lubrication as per schedule 1

NOTE: OWNERS ARE RESPONSIBLE FOR ALL MAINTENANCE AND SERVICE OF THE BICYCLE. FAILURE TO DO SO MAY VOID YOUR WARRANTY, CAUSE DAMAGE TO YOUR GIRA OR ITS COMPONENTS, AND MAY CAUSE AN ACCIDENT.

Charge Your E-Bike

You can also charge your battery installed in the bike using the exterior charging port.



1. Locate the charging port.
2. Plug one side of the charger into the charging port and plug the other into an outlet.
3. A red light indicates the battery is charging, green indicates the battery is full.
4. Charging Time: 5.5 hours.



Function Definition



Power On/Off: Press and hold the  button for 2-3 seconds to activate the display and press the  button again for 2-3 seconds to turn off the display (the bike will automatically power off , if there is no activity for 10 minutes in a stationary state).

Display Data Switching: After the display panel is powered on, it defaults to displaying real-time, speed and total mileages. Press the  button shortly to switch between total mileage, single trip mileage, max speed, and average speed in the displayed information.

Power Assist Pushing: Long press the  button, and the electric bike enters the power assist pushing mode. The electric bike will travel at a constant speed of 6 kilometers per hour. At the same time, the screen will display the  power assist icon. Release the  button to exit the power assist mode, and the  power assist icon will go off.

Turning On/Off Headlights: Shortly press the  button to turn on the headlights, and the display panel backlight will dim. Press the  button again to turn off the headlights, and the display panel backlight will return to its normal brightness.

Power Assist Gear Selection: There are a total of 0-5 gear positions, and the default on startup is 0, which is a neutral position with no power output. Shortly press the  or  button to increase or decrease the gear position. (In power assist mode 1-5, there are gear distinctions, while in electric mode 1-5, there are no gear distinctions).

Battery Display: In a fully charged state, the battery display shows 5 levels of charge. As the battery level decreases, the bars are reduced accordingly. When the border is flashing, it indicates critically low battery and requires immediate charging.

Fault Codes: When there is a malfunction in the electric bike's electronic control system, the display screen will automatically show "ERROR" along with an error code. Only when the fault is resolved can you exit the fault display screen. After a fault occurs, the electric bike will not be able to continue to operate. Please contact the GOTRAX after-sales team for assistance or seek the help of a professional technician to diagnose and rectify the issue.

Setting Mode:

1. Simultaneously hold the  or  button for more than 2 seconds to enter the personalized parameter selection interface.
2. Shortly press the  or  button to switch between personalized parameter settings. Press the  button to enter the parameter change mode.
3. Shortly press the  or  button to select parameters. A long press of  for continuous increase and long press of  for continuous decrease.
4. Press the  button shortly to save the parameter settings and return to the personalized parameter selection interface.
5. Long press the  button to save the parameter settings and exit the personalized parameter selection interface.

Metric/Imperial Unit Setting: "01P" is the option for selecting metric or imperial units. "00" represents metric and "01" represents imperial. Use the  or  button to make the selection, and press the  button shortly to save the parameter setting and return to the personalized parameter selection interface.

Speed Limit Setting: "02p" is the option for setting the speed limit in power assist mode, and the adjustable range for the vehicle speed limit is 1 to 32 km/h. The factory default is 32 km/h, and the maximum limit is 32 km/h. This mode allows you to adjust the speed limit only for power assist mode, as the electric mode has a maximum limit of 32 km/h, which is not adjustable.



How to use the transmission



A total of 7 speed gears, press the shifting finger to change the flywheel gear and adjust the riding speed.

(**Note:** This operation is prohibited in the static state or non-pedal riding state)



Function Mode:

1. **Three Riding Modes:** Electric Assisted Mode, Pedal-Assisted Mode, Bicycle Mode.
2. **Throttle Assisted Mode:** When you turn the bike on, the assist level will be at 0. Press the up arrow (**+**) on the controller to increase the level of assist, use the down arrow (**-**) to reduce the level of assist. As you increase the level of assist, the speed of the bike will increase. Press the throttle level to engage the motor and move the bike.
3. **Pedal-Assist Mode:** When you turn the bike on, the assist level will be at level 0. Press the up arrow (**+**) on the controller to increase the level of assist, use the down arrow (**-**) to reduce the level of assist. As you increase the level of assist, the speed of the bike will increase. As you start to pedal, the motor will automatically engage. When you stop pedaling, the motor will automatically disengage.
4. **Bicycle Mode:** When riding in the off state or neutral, the motor has no power output.



Battery Information

Before using the charger locate the voltage selector switch (li-ion chargers only) on the back of the charger. Select either 115 volts or 230 volts depending on your country of residence. Using the wrong voltage setting will permanently damage the charger and/or electrical components on the hybrid electric bicycle.

BATTERY ASSEMBLY

1. Use the matching charger.
2. Insert the round plug into the E-Bike first and then insert the charger plug into the electrical socket.
3. A red light indicates the battery is charging.
4. A green light indicates the battery is fully charged.
5. The Key lock position will vary from model to model.
6. The battery is removable, the battery can be charged attached to the E-Bike or pulled out and charged separately.

CHARGING THE BATTERY

1. When using the charger for the first time, carefully check whether the rated output voltage of the charger is consistent with the battery voltage and check whether the charger input voltage is consistent with the grid voltage.
2. When charging, first put the charger in a ventilated place, then insert the charger output plug into the charging port. Plug the electrical power plug into the 100-240V 50/60Hz AC Power Supply. Be sure to keep the input plug in contact with the AC outlet.
3. After charging, the input plug of the charger shall be pulled out first, and then the output plug connected with E-Bike shall be pulled out. Do not leave the charge plugged in.



Precautions For Battery Protection

1. Do not place anything on the battery and charger when charging, otherwise the charger may overheat and cause serious damage.
2. Only use the charger supplied by the original factory to charge the battery, if you use a different charger your battery will be disqualified from warranty.
3. You can charge your battery at any time if the battery loses power.
4. If you do not use or charge your battery for an extended period of time, battery performance will decrease. If you do not plan to ride your bike for an extended period of time it is recommended to plug in and charge the battery Insert Care/Maintenance section an extended period every 4-6 weeks.
5. Protection can make your battery maintain about 80% of its capacity after more than 500 cycles. But overall decline is inevitable.
6. If the battery remains in a status not charged a long time, it will lead to permanent loss of performance.
7. If you want to store your battery for an extended period, please store and discharge it in a cool and dry place.
8. Keep the temperature between 50-70 and avoid direct sunlight. Take the battery out for charging every 30 days.
9. Do not intentionally short-circuit the battery which will cause very serious damage and void the warranty.
10. Dispose of your batteries responsibly. Research local recycling regulations.
11. If you have questions about battery use, maintenance, or storage, please contact customer service.
12. Only use the battery supplied with this electronic bike.
13. Never charge a lithium battery unsupervised.



Troubleshooting Guidance

When the E-bike electric control system fails, the display will show the error codes, and only when the fault is removed can you exit the fault display program.

After the fault occurs, the E-bikes can't able to continue working.

Troubleshooting tips	Code meaning	Troubleshooting clearing
E001	Controller anomaly	Check if cables to the controller are properly connected.
E002	The display communication faulire	Check if the connection cable between the display and the controller is abnormal, and replace the display if there is no abnormality .
E003	Motor hall signal is abnormal	Check the motor connection cable, if the connection cabel is normal, replace the motor.
E004	The throttle abnormal	Check the throttle connection cable. If the connection cable is normal, replace the throttle.
E005	The brake faulire	Before power on the vehicle please check the brake lever if reset and the connection cable is normal, if they're not have any issues ,replace the brake levers.
E006	The motor phase line failure	Please check the motor connection cable at firstly. If the connection cable is normal, replace the motor.

Warranty

Please contact our customer service team if you are experiencing problems or need more detailed information.

US team after-sales email: **support@gotrax.com**

CA team after-sales email: **canada@gotrax.com**

1. Users should operate in accordance with the product manual. In case of any performance fault caused by production quality, the company shall perform the obligations of the three guarantees in accordance with the provisions of relevant laws and regulations of the state.
2. The company is still responsible for the after-sales service of the faults beyond three guarantees and the major components in the three guarantees, but there will be a cost for repair.
3. If the battery replacement is over the warranty time, our company will supply the battery at factory price. To ensure safety, and avoid pollution.
4. We do not cover physical damage due to negligent care and extreme riding.



(US) W W W . G O T R A X . C O M
(CA)www.gotraxcanada.com

#RideGOTRAX





(US)GOLABS,INC

GOTRAX.com
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(CA)Tao Motor Canada Inc.

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