

GOTRAX

MX1

Electric Bike

USER MANUAL





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: 15mm&18mm open-end wrench, combination wrench.



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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.



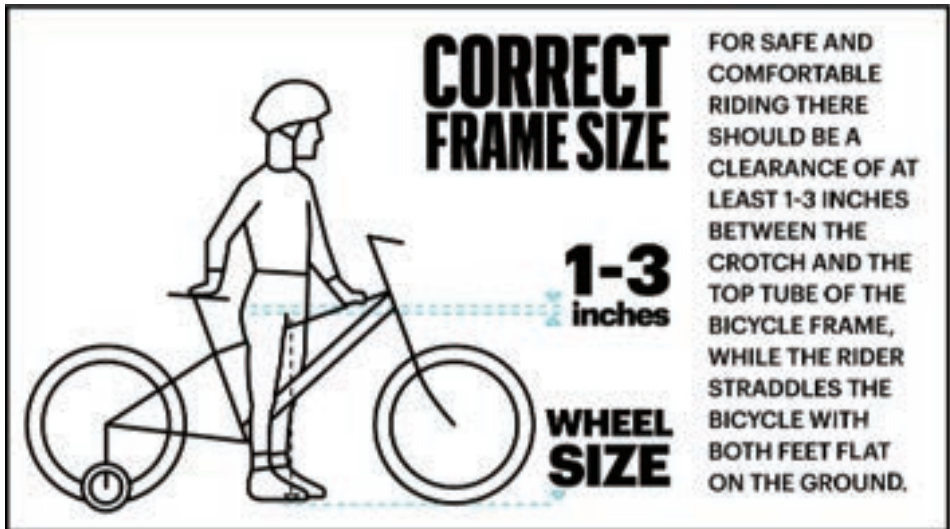
WARNING: Lithium-ion Batteries and/or products that contain Lithium-ion Batteries can expose you to chemicals including cobalt lithium nickel oxide, and nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

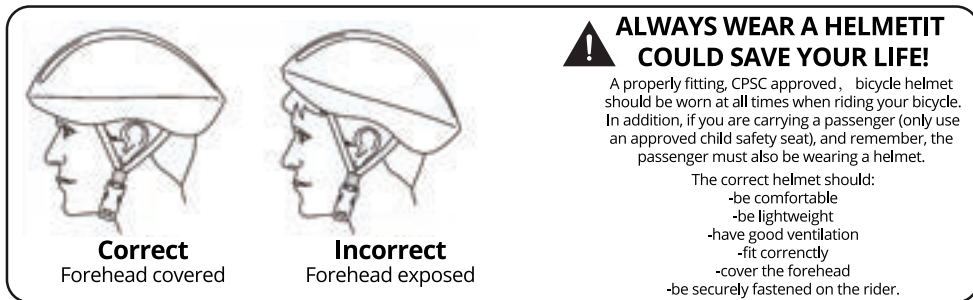


Warning Message

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. **Abuse** - We do not cover physical damage due to negligent care and extreme riding.
4. **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.
5. **Do not modify** the product from the manufacturers original design.
6. **Do not exceed** the posted speed limit and obey all traffic laws.
7. **Avoid touching** the charging port directly and do not let it make contact with a metal object.
8. **Keep hands and all body parts away** from moving parts while operating the electric bike.
9. **Before riding** - be sure to check the electric bike over and make sure the electric bike is operating correctly before each use.
10. **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.
11. **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.
12. **Before riding** - be sure to check that the tires are in good condition, inflated properly, and have sufficient tread remaining.
13. **Never exceed** the 264lbs (120 kg) maximum load rating.
14. **The electric bike should never** be used by children under the age of 16.

15. **Maximum Speed** - Your electric bike goes the maximum speed of 20 mph.
16. **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.
17. **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

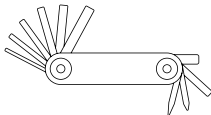
following measures:

- *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.

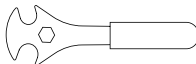


Unpacking and Product Specs

The following accessories are included with your 90% pre-assembled GOTRAX bike.



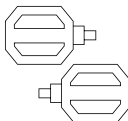
Multi Tool



Pedal / Wheel Wrench



Front Reflector



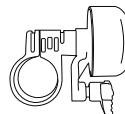
Pedal



Battery Charger



Battery Keys



Small Bell

ITEM	SPECIFICATIONS
Model	MX1
Product Dimensions	1950*720*1155mm (76.8*28.3*45.5in)
Package Dimensions	1560*310*860mm(61.4*12.2*33.8in)
Max Load	120kg(264lbs)
Max Speed	32km/h(20MPH)
Battery	48V 13.6Ah
Pedal-Assist Mode	28mile(45km)
Pure Electric Mode	45mile(72km)
Max Angle of Climb	15 degrees
Charging Time	5 hours
Charger	Input 100-240V 50/60Hz AC Plug; Output 54.6V 3A Three-core charging port
Tire Pressure	35 P.S.I
Bell/Horn Specifications	Bell
Frame Material	6061 Aluminum Alloy
IP Level	IPX4



Get To Know Your E-Bike



1. HANDLEBAR

HANDLEBAR COMPONENTS HAS BEEN PRE-ASSEMBLED

Please tighten and secure all bolts

You will use the 5mm allen key on the multi tool for these steps.



1. Using the 5mm allen key, unscrew bolt and remove cap, bolt, and sleeve. You will need the top cap and bolt in the next step. Leave all spacers in place.



2. Place stem on steer tube & secure with bolt and top cap that was removed in STEP 1. Using the 5mm allen key, secure so no movement in headset area but it moves smoothly.



3. Align stem to the center position and using the 4mm allen key, secure and tighten bolts on both sides of the stem.



4. Tighten and secure ALL bolts on the stem. 7 positions to check and secure.



5. Add top cap to stem bolt.



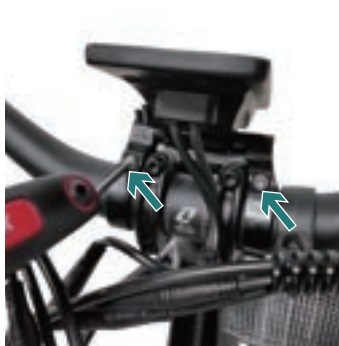
6. Upon final assembly, revisit this step to confirm alignment with stem and front wheel.

You will need the +/-phillips screw driver in the multi tool to install.

You will need the 3mm allen key on the multi tool install.

You will need the +/-phillips screw driver in the multi tool to install.

You will need the +/-phillips screw driver in the multi tool to install.



Monitor Installation.

Remove bolts and place monitor on handlebar with a bracket on each side of the stem. Make sure that you can clearly see the monitor while sitting the seat. Insert the bolts - tighten and secure.



Front Reflector Installation.

Remove the screw and place bracket over the handlebar on the left side closest to the monitor, if you are sitting on the seat. Tighten and secure the screw.



Bell Installation.

Remove the screw and place bracket over the handlebar on the right side closest to the brake lever, if you are sitting on the seat. Tighten and secure the screw.



Light Installation.

Disassemble the hexagonal bolt, reapply the bolt, and use a 4mm hex wrench to tighten the front light. Adjust the angle of the light according to personal preference.

2. SEAT



1. Push the saddle down.



2. Open the folder of the seat tube.



3. Adjusting and rotate the seat.



4. Finally lock the folder.

3. FRONT WHEEL & FRONT BRAKE

YOUR BIKE HAS A BOLT ON MECHANISM



1. Remove packing block from disc brake caliper – Do Not Throw Away – Re-install Packing Block whenever you remove your front wheel.



2. Position the front wheel so it's centered between the front fork legs with the axle resting inside the fork drop outs.



3. Align the disc brake rotor so it is centered in the slot of the brake caliper.



4. Tighten one axle nut part way then tighten the other nut, repeat until both sides are tightened securely. Be sure that the wheel is centered between the fork legs.

CAUTION

Tighten nuts securely to the fork drop outs

4. INSTALL THE FRONT FENDER

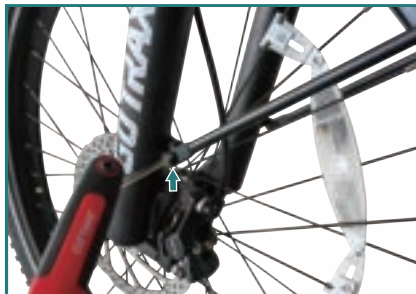
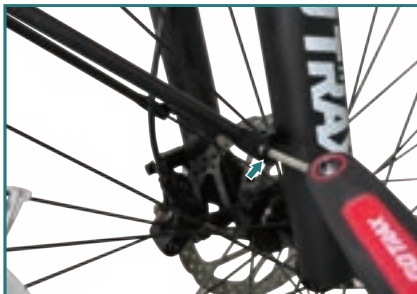


Find and prepare the front mudguard.



Position the front fender fixing hole onto the front fork fixing hole, tighten the screw to secure it (the screw is already installed on the front fork, remove the screw for installation).

Fix the front fender support to the frame (the screws have been installed on the frame, remove the screws and install).



5. PEDALS



1. Drive side of bike select R-Right pedal
2. Insert pedal into Crank/Drive side and start to turn CLOCKWISE.
3. Once hand tight apply pedal wrench to pedal and tighten and secure.



1. NON drive side of bike select L-Left pedal
2. Insert pedal into Crank Arm/NON- Drive side and start to turn COUNTER CLOCKWISE.
3. Once hand tight apply pedal wrench to pedal and tighten and secure.

MATCH PEDAL and CRANK ARM CAREFULLY

Right pedal is applied to drive side/side with crank and gears and threads/twist on CLOCKWISE

Left pedal is applied on NON-DRIVE side/side with disk rotors and twist COUNTERCLOCKWISE

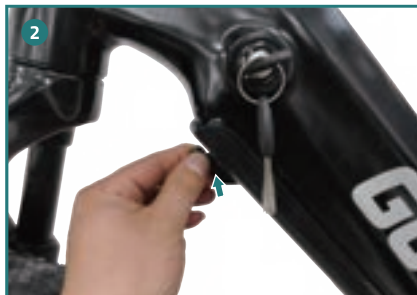
USE PEDAL WRENCH AND CONFIRM PEDALS ARE TIGHTENED AND SECURE

Check frequently

6. TAKE OUT THE BATTERY



Turn the key clockwise to turn the key switch on



Pull the battery top safety lock valve and pull the battery top out of the frame.



Pull the battery out of the frame and remove the battery.



There is no battery in the frame. Check whether the warehouse bottom linker and the bottom of the battery are normal.

7. INSTALLATION THE BATTERY



There is no battery in the frame. Check whether the warehouse bottom linker and the bottom of the battery are normal.



Install the bottom of the battery into the frame firstly



And then push the top of the battery into the frame.



The battery should be fully mounted into the frame until a click is heard indicating that the battery is in place (no key is required for installation).

Charge your E-Bike

Before using the electric bike, you must fully charge the battery.



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 hours.

Charge your Battery



Plug one end of the charger into the battery and the other end into the power supply.



Red light shows the battery is charging, green light is full.



Battery indicator: press the button to display the power level, the indicator lights are all lit to indicate full power, and the remaining red light indicates low power.



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.

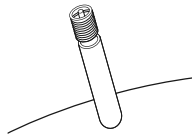


WARNING: NEVER INFLATE A TIRE BEYOND THE MAXIMUM PRESSURE MARKED ON THE TIRE'S SIDEWALL. EXCEEDING THE RECOMMENDED MAXIMUM PRESSURE MAY BLOW THE TIRE OFF THE RIM, WHICH COULD CAUSE DAMAGE TO THE BIKE AND INJURY TO THE RIDER AND OTHERS. THE BEST WAY TO INFLATE A BICYCLE TIRE TO THE CORRECT PRESSURE IS 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.

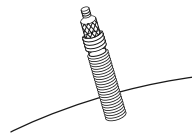
Tire pressure is given either as maximum pressure or as a pressure range. How a tire performs under different terrain or weather conditions depends largely on tire pressure. Inflating the tire to near its maximum recommended pressure gives the lowest rolling resistance; but also produces the harshest ride. High pressures work best on smooth, dry pavement. Very low pressure, at the bottom of the recommended pressure range, gives 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 you bike. To inflate a Schraeder 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

Maintenance & Repair

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 take 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 lubricant to prevent dirt build up. Never use a degreaser to lubricate your chain (WD-40™)

Schedule2 - Service Checklist

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

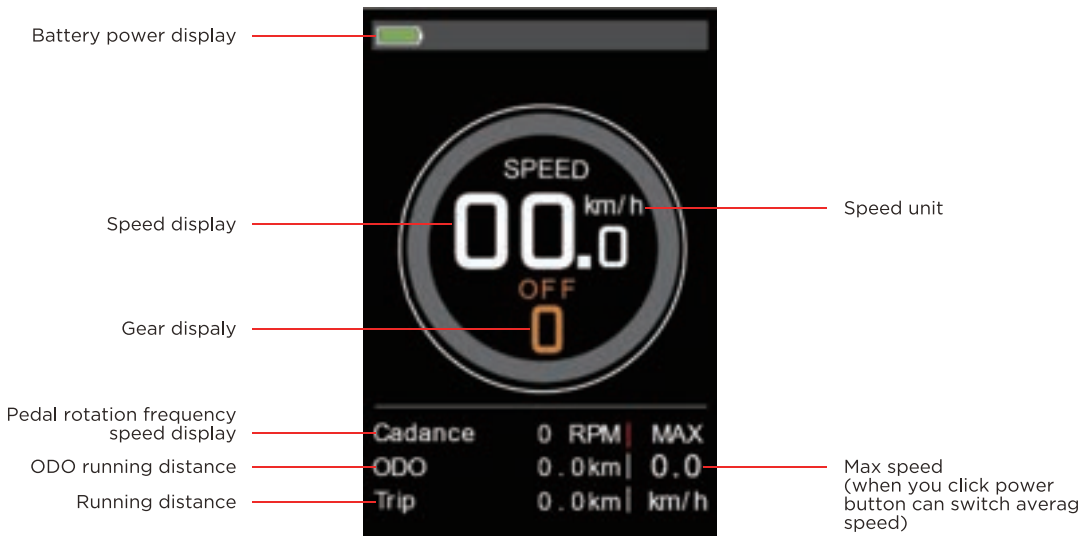
Frequency	Task
Before every ride	check wheel and pedal tightness check tire pressure check brake operation check wheels for loose spokes, loose axle nuts or quick release make sure all fasteners are tightened securely
After every ride	quick wipe down with damp cloth
Weekly	lubrication as per schedule 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 BIKE OR ITS COMPONENTS, AND MAY CAUSE AN ACCIDENT.



Meter Function



Power on/off:

After press and hold  for 2 seconds, the display will light up , In the power-on state, press and hold the  to turn off the power of the E-bike. The bike will automatically shut down after 10 minutes of inactivity.

Power-Assist Mode:

Click once the  button firstly, and then press and hold on  button , the electric bike into the electric power assisted state. The electric bike travels at a constant speed of 6 km/h (3.7mph)per hour. Release the button to exit.



Power -assisted mode can only be used when the user running the electric vehicle, do not use in the riding state.



Power-Assist gears selection:

Press the  or  button to switch the E-bike power-assist gears and change the output power of the motor. (Electric mode without gear distinction)

Battery status :

The battery power level is displayed in the form of an energy bar. At low power, red indicates a reminder to charge.

Error code display:

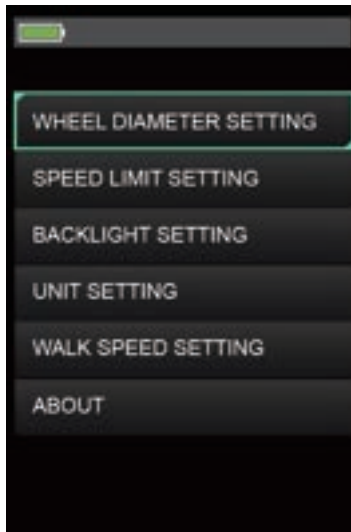
When the electric control system of the bike fails, Display will automatically show the error code when . See the attached table for the detailed error code definition.

Error Code	Symptom	Troubleshooting
0x90	Stop motor output	Torque sensor issue
0x11	Stop motor output	Torque sensor issue
0x92	Switch to cadence mode	Torque sensor issue
0x13	Report error only	Gear sensor issue
0x15	Report error only	Speed sensor issue
0x18	Stop motor output	Cadence sensor issue
0x20	Reduce motor output	Motor high temperature
0xA1	Stop motor output	Motor overheat
0x22	Reduce motor output	Temperature sensor issue
0x25	Reduce motor output	Motor high temperature
0xA6	Stop motor output	Motor overheat
0xA7	Stop motor output	Motor internal flash error
0x80	Stop motor output	Motor Communication issue
0x32	Stop motor output	Lora Communication issue
0x01	Stop motor output	Motor Communication issue

0x40	Stop motor output	Motor issue
0x41	Stop motor output	Motor issue
0xC2	Stop motor output	Motor issue
0x43	Stop motor output	Motor issue
0xD0	Stop motor output	Battery issue
0x51	Stop motor output	Battery issue
0x52	Stop motor output	Motor issue
0xE0	Stop motor output	Battery issue
0xE5	Stop motor output	Display issue

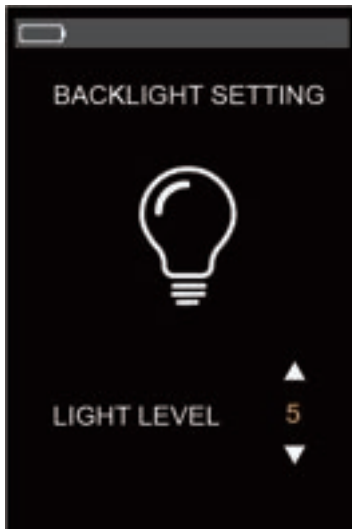
Setting Interface:

In the power-on state, press the  and  at the same time for 2 seconds, the meter will enter the setting state. In the setting list interface, press  and  to switch the setting items. (Wheel diameter value cannot be adjusted)



Display background brightness setting:

Short press  to enter the setting item. Press  or  button to switch the background brightness items in the setting list interface. Short press  button settings to take effect. There are 5 options whose brightness increases with the number increasing. Press and  hold for 2 seconds save and back.



Range unit setting :

Short press  will access the settings ,In the setting list short press  or  you can choose “km” and “mile” different range unit ,Press and  hold for 2 seconds save and back.



Wheel diameter setting:

Because adjusting wheel diameter will lead to inaccurate data and on formation on display, so this setting is for reference only, not adjustable.



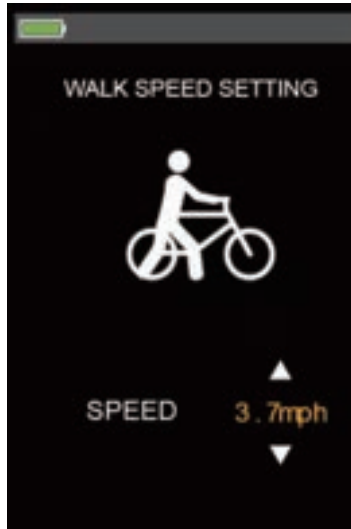
Speed limit setting:

Short press  to enter the settings item. The factory default is 32km/h (20mph), and the speed limit value of the assist mode can be adjusted by pressing  or the  key, and the adjustment range is 16-45km/h (10-28mph). The electric mode defaults to 32km/h (20mph) and is not adjustable.



Boost speed setting:

factory default 6Km/h (3.7mph) is not adjustable.



Exit Setting:

Press and hold  on the setting list interface to save and exit. If no operation is performed within one minute, the instrument automatically exits the setting state.

Instructions for using the finger transmission:

As shown in the picture, the flip button can adjust the flywheel gear.

Note: Gears need to be switched sequentially, and multiple gears cannot be switched consecutively.





Function Mode

1. Three Riding Modes: Electric Assisted Mode, Pedal-Assisted Mode, Bicycle Mode.

2. Throttle assist mode: Power start on and gear state, pedal riding speed greater than 5Km/h (3.1mph), press the throttle to start the assist mode (The 0 position status is not assisted, 1-5 gear assisted level is the same.)

3. Pedal assist mode: Power start on and have a gear state, pedal riding speed greater than 8Km/h (5mph), the pedal assist mode will be start automatically, you can click  or  adjust the assist level. (1-5 assist levels, The 0 position status is not assisted.)

4. Bicycle Mode: When bike model 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°F 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.

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.



WWW.GOTRAX.COM

#RideGOTRAX





(US) GOLABS, INC

GOTRAX.com
2201 Luna Rd.
Carrollton, TX 75006

(CA) Tao Motor Canada Inc.

170 Bartor Road, Unit 1 North York,
Ontario M9M 2W6,
Canada.