



E-BIKE

MANUAL

XT600DL



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• Profile

Introduction:

Thank you for choosing our products. To ensure your safety and health, please use this E-bike correctly. It is important to read this entire manual before assembling and using the equipment. Safe and effective use can only be assured if the E-bike is assembled, maintained, and used properly. It is your responsibility to ensure that all users of the E-bike are informed of all warnings and precautions. Before each ride, especially if you may travel a long distance, inspect your e-bike.

IMPORTANT:

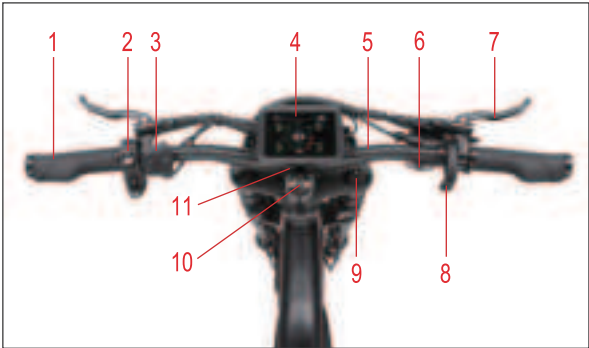
- Check the tires for proper inflation and cracks of the tires. Keeping the tires properly inflated and maintained will help prevent flats and damage.
- Check all cables and cable housings for fraying, breaks, rust, or corrosion and replace if necessary.
- Check the brakes to make sure that both are working properly. Additionally, check the brake pads for any damage as they will be worn over time and eventually need replacement.
- Check all nuts and bolts are taut and properly fastened to prevent injury and unnecessary wear and tear on your e-bike.
- Do not at any time dismantle or assemble any of the above e-bike components!
- Comply with local laws and regulations when riding this product. Do not ride where prohibited by local laws.
- To reduce risk of injury, you must read and follow all "CAUTION" and "WARNING" notices in this document. Do not ride at an unsafe speed. Under no circumstance should you ride on roads with motor vehicles.
- Anyone whose weight is over the limits (see Specifications) is prohibited from riding.
- Use only approved parts and accessories. Do not modify your E-bike. Modifications to your E-bike could interfere with the operation of the E-bike, could result in serious injury.
- E-bike cannot be used as off-road vehicles or extreme cycling sports.

Don't change the default speed setting of the E-bike for your safety concern. Wear a helmet and protective gear when riding.

- This manual is intended as a general guide to your new e-bike and not a comprehensive reference guide. For technical support, including service, maintenance, and repair information, please contact us for more information about our e-bike.

• **Structural features and working principle**

Working principle of the structure components



- 1 : Grip
- 2: Combination Switch
- 3: Display keys
- 4: Display
- 5: Handlebar
- 6: Gear shifter
- 7: Brake Lever
- 8: Throttle
- 9: Front fork damping switch
- 10: Headset
- 11: Stem



- | | | | |
|-----------------------|------------------------|-------------------------|---------------------|
| 12: Waterproof cables | 16: Disc brake caliper | 20: Tail light | 24: Rear derailleur |
| 13: Headlight | 17: Motor | 21: Rear shock absorber | 25: Chain |
| 14: Front Fork | 18: Battery | 22: Tire | 26: crank set |
| 15: Disc | 19: Saddle | 23: Freewheel | 27: Pedal |

◆ Electric Pedal bicycle is green and environmentally friendly, which functions with pure electric drive combined with electric power, pedal and pedal drive .

◆ Electric drive: Press the throttle on the handlebar, the controller receives the speed control command and allocates the corresponding power output by the motor

◆ Electric power with pedal: When the power is turned on, by stepping on the Pedal, the controller reads the rotation signal of the sprocket sensor, and controls the motor to output the

corresponding power.

◆ Pedal drive: When the power is OFF you can pedal and Have a Cycling trip

Specification

	XT600DL
Frame	Aluminum Alloy Full Suspension Frame
Motor	52V 750W+750W
Battery	52V 25AH
Maximum range	40 Miles
Maximum range with PAS	70 Miles
Max speed	35 MPH
Tire	26"*4.0 Chaoyang Snow Fat Tire

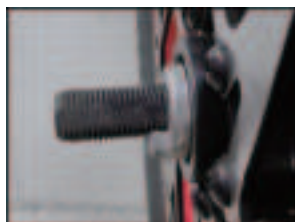
• Riding Safety

Operation

- Before riding, it is necessary to check whether the fasteners of the vehicle are loose or abnormal, and whether the electrical components are abnormal. Only when there is no abnormality, you can ride and safely use the Electric Bicycle.
- Electric bicycle users must abide by local traffic laws and regulations and pay attention to driving safety.
- It is recommended to wear a helmet when riding. When riding in rain or snow, the braking distance will be extended. Pay attention to slow down, heavy rain and other bad weather, and try to avoid traveling.
- Do not park electric bicycles in building entrance halls, evacuation corridors, walkways or exits of security doors.
- Electric bicycles should not be charged or parked in residential buildings. When charging, keep away from combustibles. The charging time should not be too long. When charging, the red light of the charger indicates that it is charging, and the green light indicates that the power is fully charged.
- Do not use a powerful faucet to rinse, avoid direct water rinsing the electrical components of the electric bicycle, and try to avoid letting water entering the battery box.
- It is forbidden to use wet hands and touch the metal conductors or touch the live parts of the electric bicycle such as the battery box socket, the battery box connecting wire socket, and the charger power socket and other parts.
- Used batteries should not be dismantled without authorization, and should be handed over to the relevant professional departments for recycling.

• Installation and adjustment

How to install the front wheel



① Adjust the position of the front wheel hub parts.



② Arrange one anti-rotation plate on each side of the wheel, with the boss facing outward.



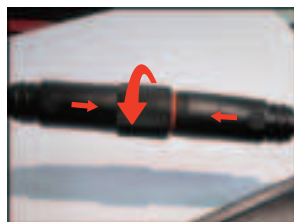
③ Align the front fork and the axle in the center of the wheel, ensure that the axles on both sides are inserted into the front fork.



④ Install the anti-slip screws, washers and cap nuts on each side in sequence.



⑤ Tightening torque of anti-slip screws MAX 6-8N.M, tightening torque of cap nuts MAX 45-55N.M



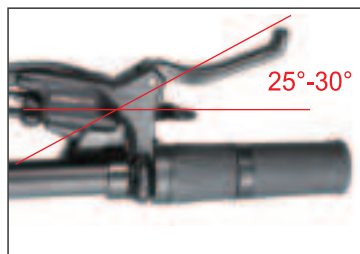
⑥ Loosening the motor cable connector, align the "arrow" mark on both sides of the plug, pushing and connect both side of the plug, then lock the connector.

How to install the Handlebar

◆ Arrange the gear shifter and brake cables, insert the stem into the head tube, tighten the headset screws, align the handlebars to the tires angle at 90°, and tighten the fixing screws on both sides from the stem. Torque $\approx 8\text{M.N}$

⚠ Warning: Before each ride, please ensure the frame lock, seat post lock, and head tube lock are locked completely, please check whether the brake system in normal, and whether the tires are fully inflated to ensure safe riding.

◆ The angle of the handlebar can be adjusted by twisting the 4 screws at the front end of the stem. The locking sequence is diagonal locking. It is recommended to adjust the brake handle to a comfortable angle of 25°-30°.



How to install headlight

◆ Plug in the corresponding waterproof cable connector, orange connect to orange, green connect to green, use tools to tighten the screws to fix them on the bracket, the tightening torque is $\approx 8\text{m.N}$

◆ The connector in orange color with red circle is the right side indicator connector, and the green one is the light connector

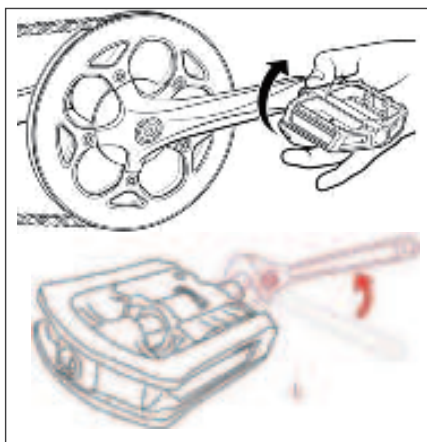
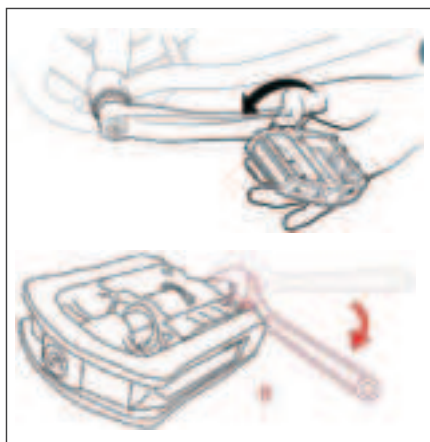
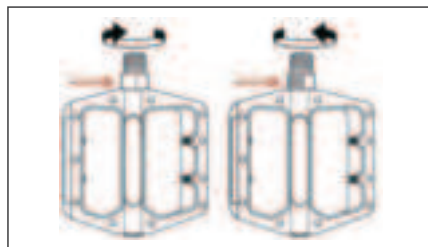
⚠ Warning: Please pay attention to the "→" arrow marks, it must be align on both sides of the connector when plugging to avoid damaging the internal precision pins.



How to install the pedal

◆ Before installing the pedals, first distinguish between the crank side and the crank side of the sprocket, (the L mark next to the screw port is the left crank; the R mark is the crank side of the right sprocket), use a 15# wrench to tighten according to the installation direction, and tighten the L side counterclockwise, the R side is clockwise tight, and the pedal locking force is not less than 18N.m.

⚠ Warning: Unlocked pedals may cause a crash, and it is strictly forbidden to ride without locked pedals.



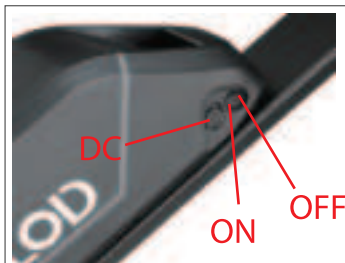
How to install the battery

Align the battery with the guide rail, push down until the bottom touches the back base, and turn the key clockwise to lock the battery.



How to charge the battery

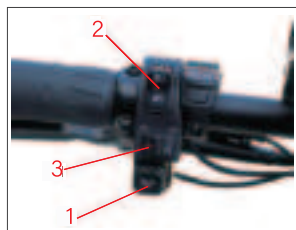
- ◆ DC charging port on the right side of the battery
- ◆ Power switch at "—" means the power is turned on, press the left side of the battery level button to check the green light to see the battery level. Power switch at "O" means the power is turned off, when remove the battery, the battery switch needs to be turned OFF.
- ◆ On the left side of the battery, there is the battery level display lights, press the button to check the remaining battery level



◆ Use the charger with the corresponding voltage and current, insert the DC plug of the charger into the battery, and insert the power plug into the mains socket, the charger light shows red when it is charging, and green when it is fully charged.



How to use the combination switch



① Horn switch

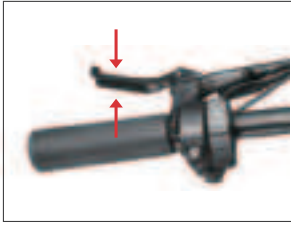
② After long pressing the "+" key to turn on the headlight, switch between high and low beams.

③ Toggle to the left to turn on the left indicator, toggle to the right to turn on the right indicator.

How to adjust the brakes



① Insert the Allen Wrench into the screw hole where the brake is fixed to the frame, and turn the screw gently to the left first according to the direction of "loose on the left and tighten on the right" to loosen the brake slightly.



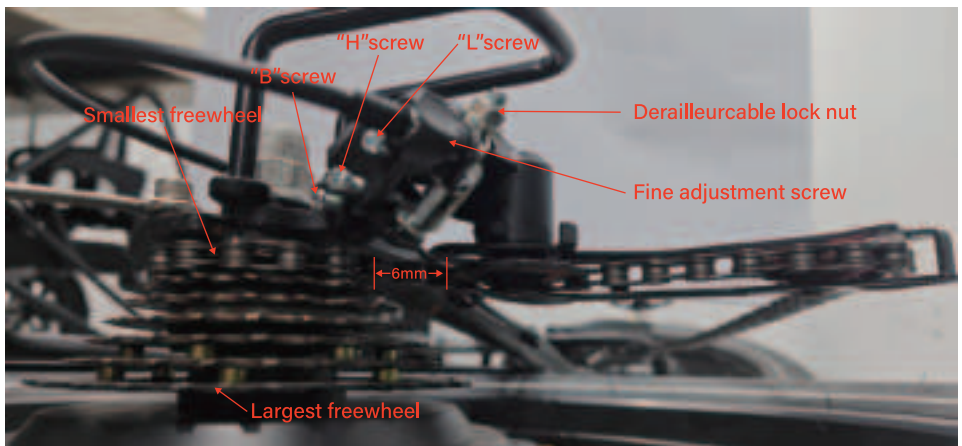
② Then squeeze the brake lever with your left hand to make the rear brake close to the brake pad, and keep squeezing it tightly, do not release.



③ Use the Allen Wrench to tighten the brake to the right until the brake is fixed, then release the brake lever, the brake will automatically return to its original position, the brake pad will be in the correct direction, and it will not wear out.

How to adjust the derailleur

- ◆ Use a cross screwdriver to adjust the "H" screw so that the upper guide tip is aligned with the outer side of the smallest freewheel tip.
- ◆ Use the gear shifter change to the largest freewheel, and use a cross screwdriver to adjust the "L" screw so that the upper guide tip is aligned with the outer side of the largest freewheel tip.
- ◆ Use a cross screwdriver to adjust the "B" screw so that the distance between the upper guide wheel and the largest freewheel tip should more than 6mm.
- ◆ Use the gear shifter change to the smallest freewheel, loose the derailleur cable lock nut to tighten the derailleur cable, and adjust the tension through the fine adjustment screw.



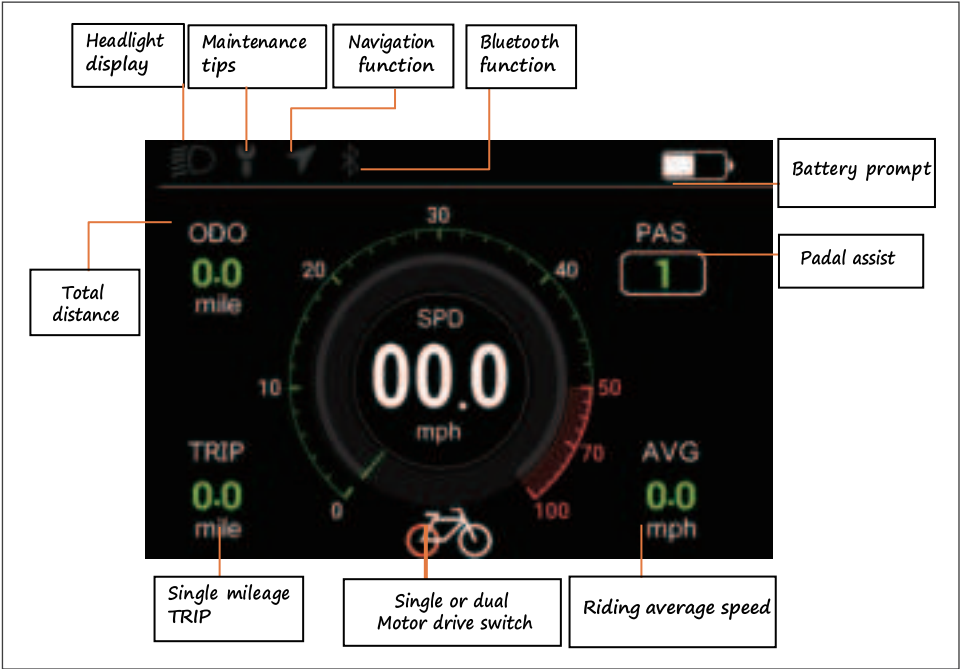
Intelligent display Instructions

Note: Due to the upgrade of the company's products, some of the contents displayed in the products you get may be different from the instructions, but it will not affect your normal use.

Product appearance

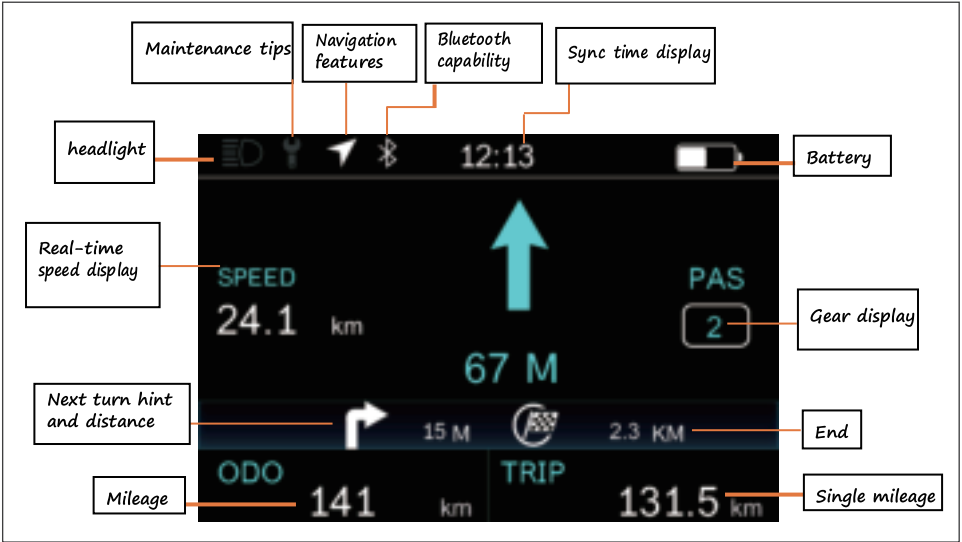


The main features



- ◆ Headlight display: display the headlight on/off status, display the logo when the system headlight is on, and hide the logo when it is off;
- ◆ Maintenance tips: display maintenance prompt signs;
- ◆ Navigation function: the mobile phone APP is connected to the Bluetooth of the meter, and the instrument displays the logo when the mobile APP starts navigation
- ◆ Bluetooth function: Bluetooth on/off status display, display identification after successfully connecting the instrument Bluetooth;
- ◆ Battery prompt: prompt real-time power level;
- ◆ Real-time speed display: display real-time speed values;
- ◆ Pedal assist: display the Pedal assist level;
- ◆ Single mileage trip: shows the mileage of this ride;
- ◆ Total distance: Total distance over time.
- ◆ Riding average speed: shows the average riding speed this time;
- ◆ Single or dual motor drive switch: default rear drive, click the power button to switch change front drive or dual drive

When the mobile phone app is connected to the Bluetooth of the display, select the destination to start navigation after entering the navigation interface, and the main interface display changes as follows:



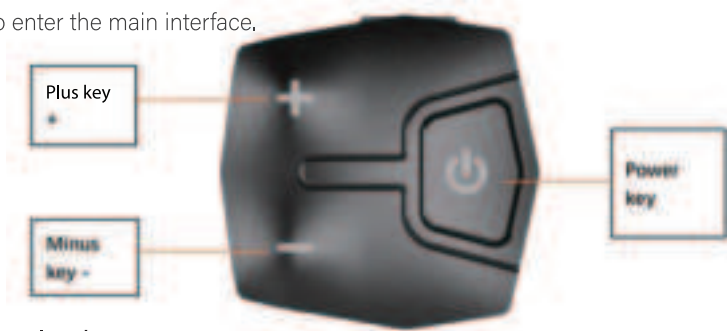
General operations

① Power On/off

◆ There are three keys on the control panel corresponding to the display,  the power on/off key,  plus key,  minus key

◆ After long pressing , the display starts working and connects to the controller. In the power-on state, long pressing  can turn off the power of the electric bike.

◆ After the display is turned on, the default power-on password of the display is "0000", press  or  key to select the numbers, click  to confirm the number. After entering the password, click  to enter the main interface.



② Gear selection

After entering the main interface, short press the  or  key to change the electric bike power gear, thereby changing the motor output power. The gear of the Display is 0-5 gear and booster gear , gear selection interface as showing below.



③ Boost Mode

When the display is power on, short press the  key to gear 0, and then Long press and hold the  key, the electric bike enters the boost mode. The electric bike travels at a constant speed of 6 kilometers per hour. At the same time, the screen displays . Release the key and the electric bike will immediately stop the boost mode, and if within 5 seconds do not press the  key, it will automatically return back to gear 0.



④ Turn on or turn off the headlight

The display with light sensing function, will automatically turn on the headlights according to the brightness of the external environment, once the headlights are manually switched on or off, the automatic headlight function is temporarily invalid, and the automatic headlight function will works again only after the display restarts.

Turn on the headlight: Long Press and hold the  key for 3seconds, the headlight will turn on and the headlight symbol on the display will light up.

Turn off the headlight: Long Press and hold the  key for 3seconds, the headlight will turn off and the headlight symbol on the display will dimmed.



⑤ Switch the single motor drive mode or dual motor drive mode

After turning on the electric bike, automatic defaults to rear motor driving mode, press the  power key to choose between front motor drive, rear motor drive or dual motor drive mode.



•Bluetooth settings

Download “BIKEGO” APP from the iPhone App Store, download BIKEGO from the Android Google App Store, or scan the following QR code to download.



BIKEGO-Android
Google Play



BIKEGO IOS端

After turning on the electric bike, long press and hold the  and  key together at the same time for 3 seconds to enter the Bluetooth settings, then scan the QR code on the display to connect the electric bike to the mobile phone APP.

If the electric bike off working for more than 10 minutes, the display will automatically shut down. But after the APP connected to the electric bike, the display will not automatically shut down till manually turn off or Bluetooth disconnect.



• Maintenance and Troubleshooting

Daily Maintenance

- ◆ In order to extend the service life of the E-bike and make it safe and comfortable to drive, please check it regularly. When the E-bike is stopped to use for a long time, it should also be checked regularly. When the electric bicycle runs for 300KM, it should be inspected and maintained.
- ◆ Check whether the brake clearance is within the specified range (10-15MM). If it is not correct, it should be adjusted. The brake pads are seriously worn (more than 2/3) and need to be replaced in time.
- ◆ Electric bicycle tires are often in contact with the ground. Any stones, glass, nails, etc. on the ground will cause certain damage to the electric bicycle. Therefore, you must pay attention to inspections when driving. In addition, you must always check whether there are obvious cracks on the ground and whether there are cracks in the tires. , damage, whether nails, glass, etc. have penetrated, whether there is abnormal wear and tear caused by long-term driving.
- ◆ The battery is a key component of an electric bicycle. It should be used correctly and properly protected, and can be charged as needed. If the daily driving distance is greater than 20KM, it should be charged every day. If the driving mileage is 100KM, special chain oil needs to be added to the chain.
- ◆ Riding without oil the parts will wear out the chain, sprocket and freewheel,
- ◆ The chain will wear after being used for 10,000KM. The length of the chain will affect the smoothness of the speed change. Use a chain ruler to measure the wear and need to replace it in time.
- ◆ After riding on a rainy day, you need to wipe the water marks on the electric bicycle in time to avoid acid rain corroding the accessories.
- ◆ When using the battery, it is strictly forbidden to over-discharge, under-charge or over-charge it to avoid damaging the battery and shortening its service life.

Troubleshooting

	Error	Failure Diagnosis	Troubleshooting
1	Throttle defective or the maximum speed is too low	1. The battery voltage is low 2. The throttle is continuously loose 3. The spring in the throttle is stuck or failed	1. Fully charge the battery 2. Step up after inspection 3. Replace the throttle

2	The motor does not work	1. The motor connection wire is loosen 2. The brake lever failure 3. The plug of hub motor wire is loose or damaged	1. Plug in the connecting wire tightly 2. Check whether the brake lever power cord is disconnected 3. Tighten the plug or replace it
3	Reduced range	1.Low tire pressure; battery low power, charger failure 2.Low or faulty battery 3.Driving with too many hills; strong headwinds; frequent braking and starting; excessive load and low temperature. 4.Battery discharged for long period of time without regular charges aged, damaged.	1. Pump air; charge battery or check the charger connections 2. Check connections or charge battery 3. Assist with pedals or adjust route 4. Contact Product Support if range decline persists.
4	The battery will not charge	1. Charger not well connected 2. Charger damaged 3. Battery damaged 4. Wiring damaged	1.Adjust the connections 2. Replace 3. Replace 4. Repair or replace
5	The battery power is full but voltage is low, and the hub motor does not work.	1. The voltage is lower than 30V when starting the motor 2. The battery switch wire falls off 3. The display connector falls off 4. Controller failure	1. Replace with new battery 2. Reconnect/tighten 3. Replace the display 4. Replace controller
6	Error Code E02/E37	1. Brake intervention during power outage 2. In braking state 3. Brake lever failure	1. Adjust the power-off brake lever screw 2. Release the brake handle 3. Unplug the brake lever connection wires
7	Error Code E06	1. Battery low power 2. The value set in the display setting menu P03 does not match the battery parameters.	1. Use the original charger to charge the battery pack 2. Enter the display setting and set the P03 value to the corresponding voltage of the battery pack, consult MEELOD support team

8	Error Code E07/E36	1. The motor wire does not connected 2. Motor Hall failure 3. The motor wire is broken	1. The motor connection cable is not plugged in properly. Re-plug the connector between the controller and the motor. 2. Replace the motor 3. Check whether the motor wire at the motor shaft is damaged and re-solder the connecting wire.
9	Error Code E08/E34	1. Throttle Hall failure 2. The connecting cable comes off	1. Plug in throttle harness 2. Plug the orange wire harness into the main wire plug
10	Error Code E09	1. Controller failure 2. The pin of main integrated cable deformation	1. Replace the controller 2. Unplug the main integrated cable and check whether the pin of main integrated cable are deformed or broken.
11	Error Code E10/E30	1. Communication reception failure 2. The pin of main integrated cable broken 3. The display and controller protocols do not match	1. Replace display and controller 2. Correct the main integrated cable pins or replace main integrated cable 3. Copy the correct protocol

•Cautions

General Operating Rules

 **Notice:** Pay attention to all the general operating rules below before operating your E-bike.

- ◆ When riding, obey the same road laws as all other road vehicles as applicable by law in your area.
- ◆ For additional information regarding traffic/vehicles laws, contact the road traffic authority in your state.
- ◆ Ride predictably in a straight line, and with the flow of traffic. Never ride against traffic.
- ◆ Use correct hand signals to indicate turning.
- ◆ Ride defensively to other road users you may be hard to see.

- ◆ Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- ◆ Expect the unexpected such as opening car doors or cars backing out of driveways.
- ◆ Be careful at intersections and when preparing to pass other vehicles or cyclists.
- ◆ Familiarize yourself with all the features and operations of the E-bike by MEELOD E-bike. Practice and become proficient at shifting gears, applying the brakes, using the pedal assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- ◆ Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- ◆ Check your local rules and regulations before carrying cargo.
- ◆ When braking, use the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up and lead to you losing control and/or falling.
- ◆ Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on factors such as road surface and light conditions among other variables.

Notice:

- ◆ Users must follow the instruction manual during charging the battery.
- ◆ Reminder: The original charger must be used.
- ◆ Pay attention to the type and applicable voltage of the batteries that the charger can charge, and it is strictly forbidden to mix them.
- ◆ When charging, it should be placed in a ventilated environment. It is strictly forbidden to charge in a confined space or in a hot sun and high temperature environment. Do not place the charger in the saddle and tail box for charging.
- ◆ When charging, plug in the battery first, then plug in the power supply, cut off the power supply first, and then pull out the power plug.
- ◆ When the green light is on, the power supply should be cut off in time, and it is forbidden to connect the charger to the AC power supply with no load for a long time without charging.
- ◆ During the charging process, if the indicator light is abnormal, or there is a peculiar smell or the case of the charger/discharger is overheated, the charging should be stopped immediately, and the charger/discharger should be repaired or replaced.
- ◆ During the use and storage of the charger, avoid the entry of foreign objects, especially avoid the inflow of water or other liquids, so as to avoid short circuit inside the charger, try not to carry the charger with the car, if it needs to be carried, it should be Placed in the toolbox after shock absorption treatment.
- ◆ In heavy rainy weather, avoid the rear wheel motor soaking in water during riding. The water flowing over the motor shaft will easily lead to water ingress, resulting in damage to the motor and controller, which is not under the scope of Guarantee.

◆ During the use and storage of the charger, avoid the entry of foreign objects, especially avoid the inflow of water or other liquids, so as to avoid short circuit inside the charger, try not to carry the charger with the car, if it needs to be carried, it should be Placed in the toolbox after shock absorption treatment.

◆ In heavy rainy weather, avoid the rear wheel motor soaking in water during riding. The water flowing over the motor shaft will easily lead to water ingress, resulting in damage to the motor and controller, which is not under the scope of Guarantee.

• Warranty

If the product has problem with the following forms during the warranty period, we will provide customer service as part of the product quality guarantee.

Accessories	Quality problem	Warranty period	Service content
Motor	Motor will not be able to use	12 months	Free delivery of parts
Controller	Failure occurs under normal use	12 months	Free delivery of parts
Charger	Failure occurs under normal use	12 months	Free delivery of parts
Lithium Battery	Discharge under normal use	12 months	Free delivery of parts

Notes:

If the fault is caused by the quality issues during the warranty period, please send the photos or videos of the defective product to support@meelod.com, the replacement parts will send at free of cost.

This warranty does not cover:

Products used other than in accordance with their intended use or the use instructions / parameters set out in the relevant User Manual;

Products that have been misused, involved in an accident, neglected or abused;

Products used for competition including but not limited to racing or trials;

Products used for rental purposes or any commercial application;

Products that have been improperly assembled;

Products that have not been maintained or serviced in accordance with the instructions set out in the relevant User Manual;

Products altered or modified in any way from the manufacturer's specifications; Parts requiring replacement or repair as a result of normal wear and tear,

****The pictures in the instruction manual are only for demonstration , please refer to the actual electric bicycle received!**

Company: Miami International Co., Ltd
Address: 5604 Huddart Ave, Arcadia, CA91006
Website: <https://www.meelod.com>
Email: support@meelod.com (Customer Service)
business@meelod.com (Dealer & Distributor)