

# HD-C2

## ELECTRIC BICYCLE User Manual



# ATTENTIONS

## **Battery and Charging:**

Charge at 0°C ~45°C, discharge at -20°C ~60°C, keep the battery dry. Do not put the battery in acidic or alkaline liquid. Avoid rain and keep away from fire, heat and high temperature environment. It is strictly forbidden to connect the positive and negative poles of the battery reversely. It is strictly forbidden to damage, disassemble the battery or cause short-circuit. Please use the specific original charger for charging, with charging time no more than 6 hours and the charging current no larger than 2A. When not in use for a long time, please store the battery in a cool and dry place, and charge the battery for five hours every month. The user must follow the manual instructions when charging, otherwise the consequences will be at his own risk. Pay attention to the battery type and applicable voltage that the charger can charge, and it is strictly forbidden to mix. When charging, it should be placed in a ventilated environment. It is strictly forbidden to charge in residential buildings, enclosed spaces, or under sunshine and in high temperature environments. When charging, plug in the battery first, then connect to power supply socket; after charge gets full, cut off the socket first, and then unplug the battery. 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 for a long time without charging. During the charging process, if the indicator light is abnormal, there is a peculiar smell, or the charger casing is overheated, stop charging immediately, and repair or replace the charger. During the use and storage of the charger, pay attention to avoid foreign objects entering, especially water or other liquids, so as to avoid a short circuit inside the charger. The charger should not be carried with the bike as much as possible. If it is necessary to carry it, it should be placed in the toolbox after the shock absorption treatment is done. Do not disassemble or replace the accessories in the charger by yourself.

## **Ride:**

Do not use it until you read the instructions carefully and understand the performance of the product; do not lend it to people who can't manipulate the product for riding. Before riding the bicycle, check whether the brakes are working. When you brake, please activate the rear brake firstly, and then the front brake. Pay attention to the brake tightness. If the brake is too loose, use an Allen key to tighten it. Pay attention to increasing the braking distance when riding in rain or snow. Suitable age: Riding between 16 and 65 years old. Please be sure to wear a safety helmet when riding a bicycle, follow the traffic rules, and do not drive on motorized lanes and roads with many pedestrians. Please check the tire pressure before riding. The recommended tire pressure is 35~45 PSI. When riding on downhill and non-paved roads, make sure the speed do not exceed 15KM/h. When using the motor, please be careful not to hit it vigorously and keep the rotating shaft lubricated. It is not allowed to ride with more than the maximum load of the body (the maximum load is 120 KG) After use, the bike can not be parked in the building hall, evacuation stairs, safety exits, and must be parked correctly in accordance with the safety rules.

**Liability statement:**

After riding, please store the bike in a place without sunlight and rain, not in a residential building; Regularly check the motor and brake; Regularly check bike's screw , especially those need to be tightened, and tighten them regularly. Recommended torque: (unit: kgf. cm) Steering handlebar screws 60-80, stem screws 175 ~ 200, seat cushion screws 175 ~ 200, wheel screws 320 ~ 450; The front and rear wheels of the vehicle should align with the central axis of the front fork or frame; Regularly check if there is scratches, cracks or excessive wear in tires. The inner tube and valve should be perpendicular to the wheel hub and not crooked. Damaged or excessively worn tires need to be replaced immediately, please find a professional technician to replace your tires, if your tires accidentally puncture and leak, please contact a professional technician for repair or replacement.

**Maintenance:**

The company reserves the right to modify and interpret the product models, specifications or related information mentioned in this manual;The functions of a specific model mentioned in this user manual are only applicable to that specific model;The product models, specifications or related information mentioned in this user manual are subject to any modification or change without prior notice;Without the prior written permission of the company, the contents of this manual may not be copied, modified, reproduced, transmitted or published in any form. Please read this manual carefully before using the product, and operate in accordance with the manual, otherwise the company will not be responsible for product damage or personal and property damage caused by improper use or mistakes.

# PRODUCT FUNCTION DIAGRAM



- |                |                    |               |                |
|----------------|--------------------|---------------|----------------|
| 1. Display     | 6. Wheelre flector | 11. Sprockets | 16. Tail light |
| 2. Handle bar  | 7. Disc brake pad  | 12. Battery   | 17. Seat clamp |
| 3. Brake leve  | 8. Disc brake      | 13. Chain     | 18. Seat tube  |
| 4. Front light | 9. Frame folding   | 14. Motor     | 19. Saddle     |
| 5. Front fork  | 10. Pedal          | 15. Rear Rack |                |

**Charging:** Unscrew the plastic cover on the battery (Picture 1), connect the charger to start charging, when the battery is full and the indicator light of the charger changes from red to green, it means it is fully charged.



Picture 1



Picture2





Picture3

2. Power on: refer to Picture 2, turn on the battery switch; refer to Picture 3. press

and hold  button to turn on/off.

3. Power display: After powering on, the dashboard lights up to display the power, and the power is divided into 5 grids, corresponding to high, medium and low power.

4. Headlights: refer to Picture 3, long press the  button for turn on and off the headlights.

5. Start: power-assisted riding, short press  to adjust to 1st gear after power on, step on the bicycle sprocket, start motor to assist. If motor assistance is not required, turn off the power or turn off the battery or set the gear to 0.

## PRODUCT PARAMETERS

	Parameter	Standard Version
<b>Outlook &amp;Dimension</b>	Body Material	Steel
	Color	Black
	Unfolding Size	1690mm*570mm*1210mm
	Folding Size	900mm*500mm*740mm
	Hub Form	Spoke Wheel
	Wheel Size	20 inches
	Package Size	960mm*380mm*745mm
<b>Performance Parameters</b>	Gross/Net	34.5kgs/28kgs
	Maximum Load	120kg
	Maximum Speed	25mph for US
	Maximum Speed	15.6mph for UK
	Maximum Speed	25km/h for EU
	Mileage	≅ 35mile max range
	Maximum Climbing Angle	25 degree
	Proper Temperature	-10-45 °C
	Waterproof Level	IP54
<b>Electrical Specifications</b>	Battery Type	18650 lithium ion power battery
	Battery Capacity	12Ah
	Battery Rated Voltage	48V
	Motor	800W
	Motor Form	Assist mode
	Motor Type	20 inch/high speed gear wheel brushless motor
	Motor Rated No-Load Speed	430±10r/min
	Charger Output	54.6V 2.0A
	Charger Input	100~240V 50/60Hz 3.0A
	Undervoltage Protection Value	39V
	Overcurrent Protection Value	15A±1A
	Charging Time	5.5-6 Hours
	<b>Features</b>	Instrument Display
Front Lighting		YES
Braking Method		Front disc brake + Rear disc brake
		Pneumatic tires
Tire Specifications		Tire: 20x3.0 Air Valve: 20x3.0 The inner tube valve is AV
Front Fork		Shock fork
Gear		Single speed

Remarks: The factors, including Battery power capacity, load, tire pressure, road conditions, chain and lubrication between wheel and axle, etc. will affect the maximum speed; the cruising distance indicated in this manual file is the test result from the riding test conducted uninterruptedly with load of 60kg, at the speed of 15-25km/h, and on the flat and hardened road surface, from full charge to full power consumption.; Driving habits, temperature, load, tire pressure, road condition and other factors will affect the actual cruising distance.

## MANUAL CONTROL INSTRUMENT



### Function description

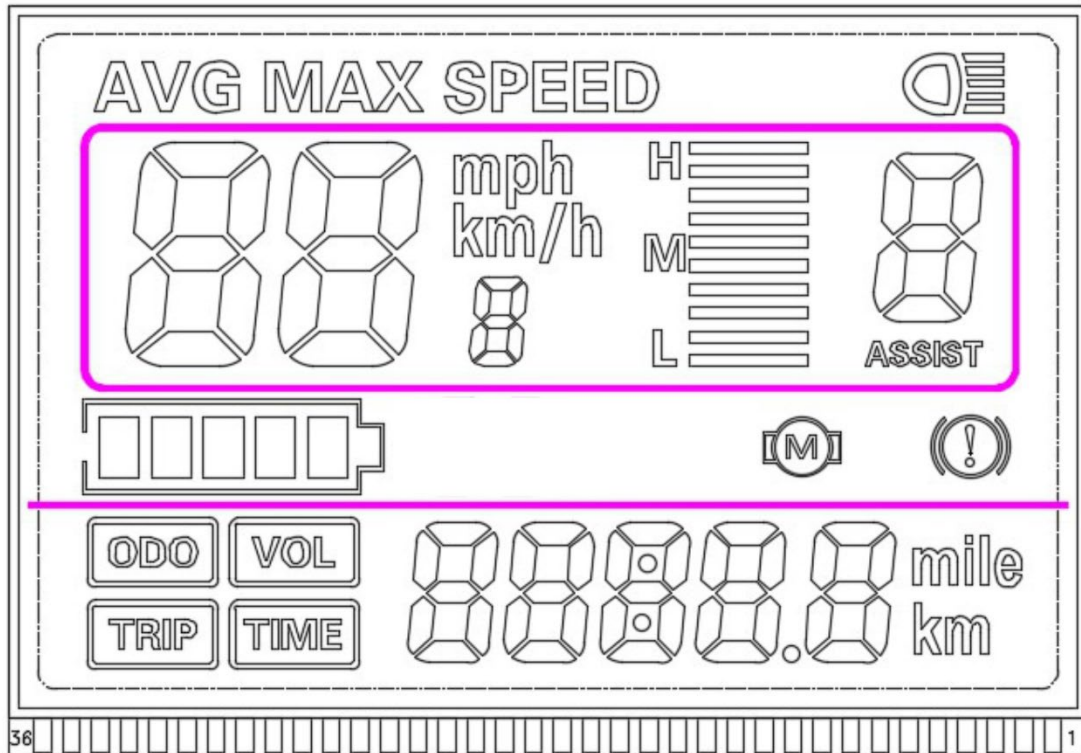
#### 1. Display function

Speed display, power assist display, power indicator, fault prompt, mileage display, voltage display, single boot time, 6Km/h boost, cruise control, brake indication, headlight display.

#### 2. Control, set function

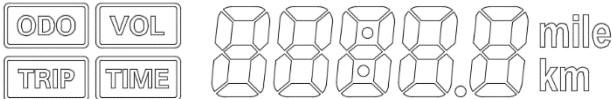
Power switch control, headlight switch control, 6Km/h booster setting (WALK mode), cruise control setting, 3-speed booster ratio setting, speed display switching, mileage and single boot time and voltage display switching.

#### 3. All contents of the display screen (full display within 1s after booting).

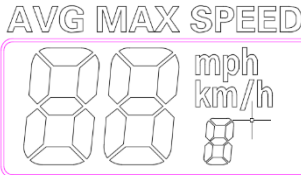


**Display content introduction**

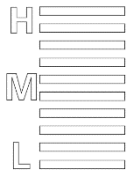
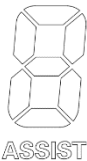
1. Voltage status level POWER 

2. Multifunctional display area 

Total mileage ODO, single mileage TRIP (unit: mile, km), single boot time TIME, battery voltage VOL

3. Speed display area 

AVG: Average speed, MAX: maximum speed, SPEED: current speed; unit Mp/h, km/h

4. Bike power-assisted gear adjustment ,  ,  , 0-3 digital display and gear bar display;



## 5. Bike status display area



## 6. Instrument Status Code Meaning:

Status Code	State Meaning
E00	Normal Status
E06	Battery Undervoltage
E07	Motor Failure
E09	Controller Failure
E10	Communication Reception Failure
E11	Communication Sending Failure

## 二、 Button Introduction:



The specific combination of buttons is as follows





Use Introduction Button operation is divided into short press and long press.

### Specific operation explanation


#### I. Switch LCD

1. In the off state, press and hold the  button to turn it on;
2. In the power-on state, press and hold the  button to turn it off.


#### II、 Change the assist gear In power-on state


1. Short press the , button to turn it on. assist gear will be + 1
2. Short press the , button to turn it on. assist gear will be -1


### III、 Switch speed display area content

In the power-on state, long press the  buttons at the same time to complete the display switching between the average speed, the maximum speed and the instantaneous speed.

### IV、 Set/release 6Km/h boost, cruise control, switch headlights

1. When the bike is stationary, press and hold the  button to enter the 6KM/h boost cruise mode. Press any brake to exit this mode.

2. When the bike is in the power-assisted running state, press and hold the  button to enter the cruise control mode. Press any brake or turn the accelerator to exit cruise mode.

3. Press and hold the  button to turn the headlights on or off.

### V、 Switch the content of the multi-function display area

1. In the power-on state, short press the  button to switch the display data in the multi-function area.

#### **Note:**

1. Due to the upgrade of the company's products, the display content of the product you get may be different from the manual, but it will not affect your normal use. Everything is subject to the real object, and the company reserves the right of final interpretation.
2. The parameter settings of the instrument have been set at the factory. Please operate according to the instructions in the manual, and do not change the original settings of the instrument. The company is not responsible for any abnormal function or function damage caused by not following the instructions in the manual.
3. Do not immerse the instrument in water, or use a waterjet to clean the meter. When cleaning, wipe with a soft cloth dampened with water. Do not wipe with any cleaning agent.
4. Do not dispose of the instrument or any other E-bike accessories as resident waste. Please comply with local laws and regulations and dispose of or recycle Ebike accessories in an environmentally friendly manner.

**PLEASE ALWAYS KEEP THE BOX FOR ANY POSSIBLE  
FUTURE AFTER-SALES SHIPMENT.**

<u>Warranty Card</u>			
Dear user, Thanks for using our electric bicycles. Please fill in the form below clearly for sake of better after-sale services.			
User	Name		Workplace
	TEL		
	ADD		
Date of Purchase		Serial number	
Model		VIN	
Invoice Number		Battery serial number	
Distributor	Name		
	Contact		
Note:			

**Shenzhen Tianshengle Robot Co., Ltd.**



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