



**RATTAN**

**Model:Challenger**

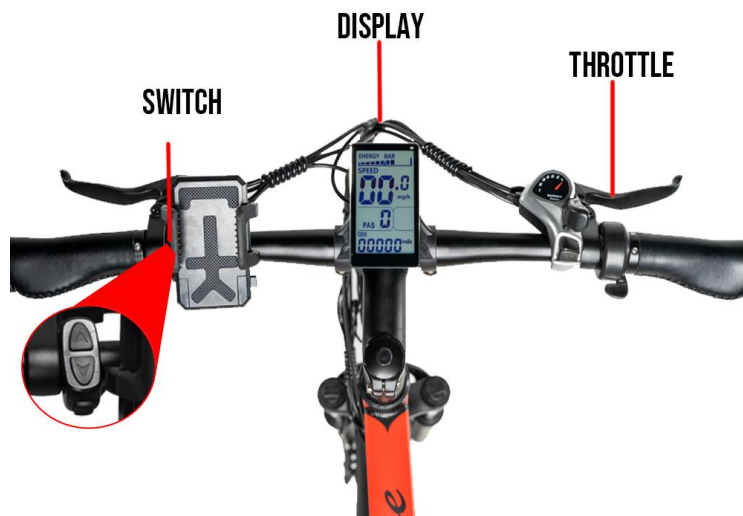
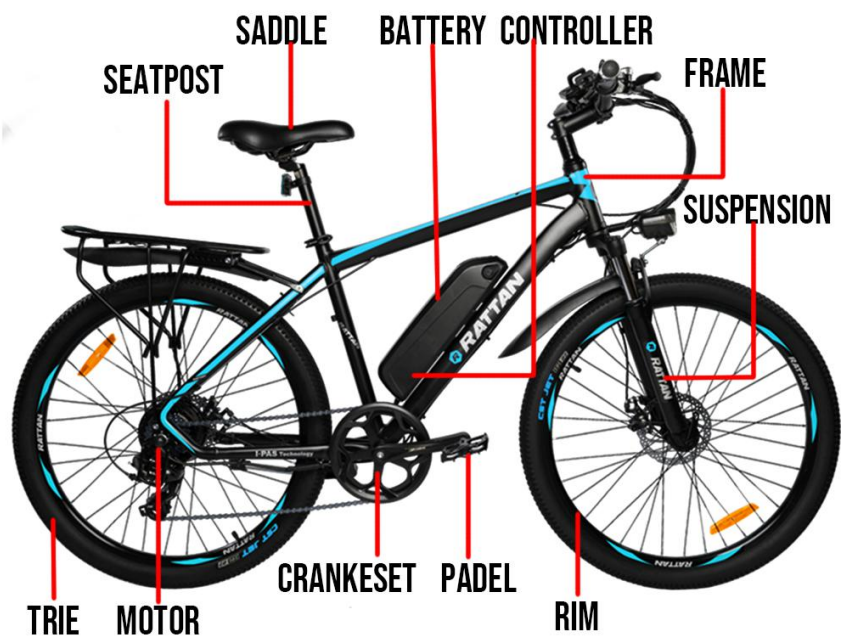
**Owner's Manual  
2020**

**[www.rattanebike.com](http://www.rattanebike.com)**

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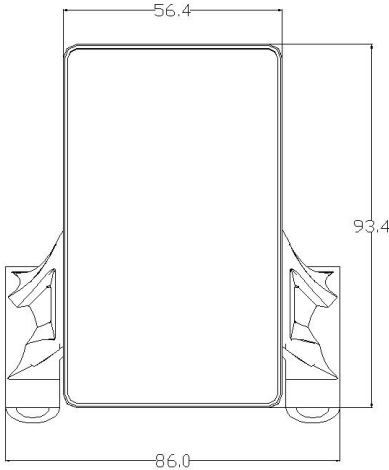
# PART 1 Display instruction

MODEL: LCD-M5

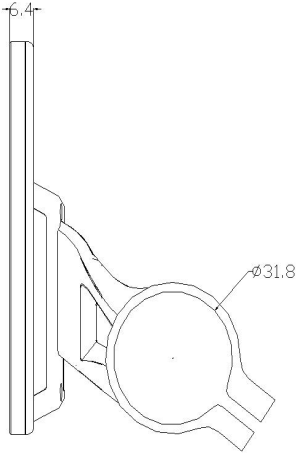
Instructions for operating the manual control panel

## (1) LCD display Size and Material

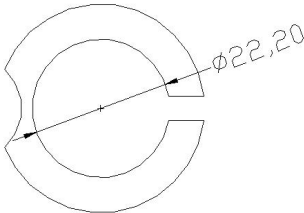
LCD display, material is [ABS] Liquid crystal transparent window material is high hardness acrylic.

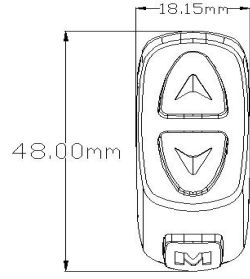


Frontal view

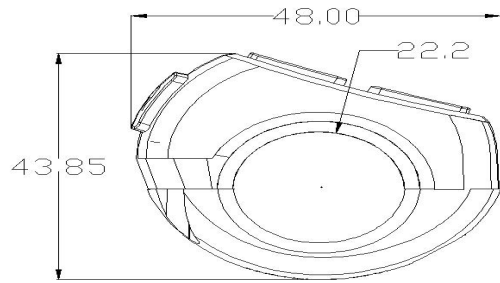


lateral view





Frontal view



lateral View

## (2) Function of bike components


### 1-Turn On Your Bike :



on/off button long press the button turn on/off your bike ,




up&down button.

1. When riding, if you want to modify the power/speed state that through short pressing to  or



. Level 0 is normal bike mode ,the motor will not work,the motor will work on level 1-3,when you using the pedals is PAS mode.,using throttle is E-bike mode.

2. When you turn on the display long pressing the  up button is turn on the light.

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## **2- Function of LCD Display**

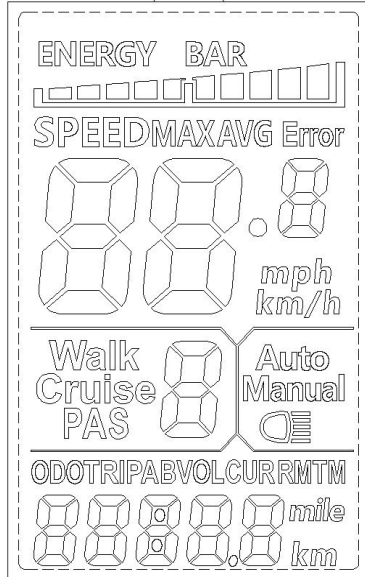
- Speed display.
- Power level display.
- Power indicator.
- Failure warning.
- Total mileage.
- Individual mileage.
- Headlight display.
- Single driving time display.

## **3- Control, setting up functions**

- Power switch control.
- Headlight switch control.
- 6Km/h point control.
- Wheel diameter setting.
- Maximum speed setting.
- Auto idle time setting.
- Backlight brightness setting.
- Voltage level setting.

## 4-Communication protocol : UART

All the contents of the display screen (full display in boot 1S)



Show content introduction



**1.1 Headlight** . The instrument only can be manually turned on.

**1.2 Battery power display** .

**1.3 Multi-functional display area**

ODOTRIPABVOLCURRMTM

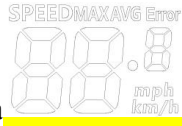
- Total mileage ODO.
- Single mileage TRIP A.
- Single mileage TRIP B.
- Battery current voltage VOL.
- Current operating current CUR.
- Remaining mileage RM.
- Instrument boot time TM.

#### 1.4 Vehicle mode



- Walk boost mode.
- PAS: Power file position: 1~ 3 ajustable.

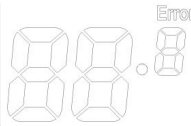
#### 1.5 Speed display area



- Maximum speed MAX.
- Average speed AVG
- Unit MPH.
- KM/H

[The meter will calculate the true speed based on the wheel diameter and signal data]

#### 1.6 Vehicle Status Display Area



- Vehicle Status Code Meaning.


Status Code(Decimal)	State Meaning	Remarks
0	Normal	
1	Reservation	
2	Brakes	
3	Power Sensor Fault(Riding Mark)	Not Realized Here
4	6KM/H cruise	
5	Real-time cruising	
6	Battery under voltage	
7	Motor failure	
8	turn malfunctioning	
9	Controller failure	
10	Communication reception failure	
11	Communication dispatch failure	
12	BMS communication failure	
13	Headlight failure	



## 1.7 Protocol Vehicle Status Code Meaning :

Status Code(Decimal)	State Meaning	Remarks
33	Current anomaly	
34	Turn the anomaly	
35	Motor phase deficiency	
36	Motor Hall anomaly	
37	Brake anomaly.	
30	Communication anomaly	

## 1.8 setting

Into setting menu: Long press  +  , Short press  Switch to Next Parameter; Exit settings and save parameters. If not operated, the modified parameters will automatically exit and be saved after 8 seconds.

**P01:** Backlight brightness, the darkest level 1, the brightest level 3;

**P02:** mileage unit, 0: KM; 1: MILE;

**P03:** Voltage level: 24V, 36V, 48V, 60V, 64V default 36V;

**P04:** Dormancy time: 0, not dormancy; Other numbers are dormancy times, range: 1-60; Unit minutes;

**P05:** Help file bit: 0, 3 file mode: 1,5 gear mode:

**P06:** Wheel diameter: unit, inch;

**P07:** Speed gauge magnetic steel number: Range 1-100.

**P08:** Speed limit: Agreement No. 2 range 0-100km / H, 100 means no speed limit.

**P09:** zero start, non-zero start setting, 0: zero start; 1: Non-zero start.

**P10:** The drive mode is set to 0: Power Drive (how much power is output is determined by the power file bit and the switch is invalid at this time).

1: Electric drive (by turning the handle drive, the power file bit is invalid at this time).

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2: Power Driven and Electric Driven Coexistence.

**P11:** Help sensitivity setting range: 1-24.

**P12:** Help start intensity setting range: 1-5.

**P13:** Power Magnetic Steel Disk Type Setting 5, 8, 12 Magnetic Steel Types.

**P14:** Controller limit value set default 12A range: 1-20A.

**P15:** Controller under voltage.

**P16:** ODO zero setting length press key 5 seconds ODO zero

**P17:**0: No enabling cruising, 1: enabling cruising; Automatic cruise optional (valid for protocol 2 only)

**P18:** Display speed ratio adjustment range: 50 % ~ 150 %,

**P19:** 0 power bit, 0: 0 file, 1: does not include 0 file

**P20:**0:2 Protocol 1:5 S Protocol 2: Standby 3: Standby

**Note: Due to company product upgrades, product content will differ from specifications, but will not affect your normal use.**

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# Part 2 Use and Maintenance

## Precautions for first using :

1. Adjust the optimal height of the seat according to the height of the user.
2. Ensure the brakes work properly.
3. Better not use it in bad weather like rain storm.
4. Check the bicycle for scratches.
5. Check for loose screws.
6. Check the accessories are complete.

## Battery maintenance:

1. When using for the first time, the user must fully charge the battery to activate the battery groups.
2. Do not use the battery in low energy, it will reduce the life of the battery.
3. Must use the specified charger for charging.
4. Do not charge the battery at high temperature (over 212 Fahrenheit/100°C ), charge in a cool place.
5. If you will not use it for a long time, charge the battery at least once a month to keep the battery active.
6. Do not submerge the battery in liquid or anything may damage the battery.
7. Turn off the battery when you are not using it.
8. Better fully charge the battery before use each time, it will extend the life of the battery.
9. If the battery has any problems, do not charge it any more and contact us.

## Frame maintenance:

1. Don't let the frame rust, when the frame is exposed to rain, wipe dry after use. Note : only the frame is made by Aluminium, other parties are very easy to rust.

## Brake maintenance:

1. Check brake pads regularly.
2. Check if the brake disc is deformed.
3. **If it is a hydraulic brake, check for oil leakage.**
4. Clean brake regularly.

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## **Motor maintenance:**

1. Do not try to disassemble the motor.
2. If the motor has any problem please feel free to contact us

## **Tire maintenance:**

1. Check regularly for leaks.
2. Check spokes regularly.

## **Derailleur maintenance:**

1. Check the rear derailleur can be change to every gear ( contact us for the video about how to adjust the shifter )
2. Check the rear derailleur guard if bent or not.not effect the derailleur.

## **Riding in raining day:**

- 1.the bike can be use when is raining , the motor is IP67 waterproof , the display is IP64 waterproof , you can use the bike in a not very heavy rain , NOTE , after you using the bike in a raining day , please wipe dry it , or it will be very easy to rust

## Common failures and check

NO.	Problem	Possible cause	Remedy
1	The speed adjuster not works or the maximum speed is too low	<ol style="list-style-type: none"> <li>1. Battery voltage is too low.</li> <li>2. Speed adjusting handle connection becomes loosened.</li> <li>3. the spring is stuck or failure inside the speed adjusting handle.</li> </ol>	<ol style="list-style-type: none"> <li>1. make the battery fully charge</li> <li>2. hold faster after recheck</li> <li>3. exchange the spring</li> </ol>
2	The motor not works	<ol style="list-style-type: none"> <li>1. The connection of the battery wires becomes loosened.</li> <li>2. the left the right brakes didn't return back after the cutting off of the electricity.</li> <li>3. Connecting wire of the motor wheel become loosened or damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair and reconnect.</li> <li>2. Contact our after sale team.</li> </ol>
3	Lack of mileage	<ol style="list-style-type: none"> <li>1. lack of charging</li> <li>2. battery aging or damaged</li> <li>3. More uphill, larger upwind, more frequent braking, starting with too heavy load.</li> <li>4. The tire is lack of pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1. full charged</li> <li>2. replace battery</li> <li>3. suggest pedal</li> <li>4. pump up the tires</li> </ol>
4	Charger not work	<ol style="list-style-type: none"> <li>1. The charger socket goes off or the connection between the plug and the socket become loosened.</li> <li>2. the fuse inside the charger is burn out</li> <li>3. The connecting wire of the battery goes off or the fuse blown.</li> </ol>	<ol style="list-style-type: none"> <li>1. fasten the socket and the connectors</li> <li>2. replace the fuse</li> <li>3. weld the connecting wire and exchange the fuse</li> </ol>
5	The indicating light doesn't turn green ,the battery becomes seriously hot	The charger and the battery parameters don't match	Turn to the supplier for adjustment or replace the charger
6	Others	<ol style="list-style-type: none"> <li>1. When you cannot eliminate the failures according to the above instructions or cannot distinguish the failures.</li> <li>2. When the motor wheel, controller, charger and the battery groups exist inside damages.</li> </ol>	In case of the above conditions, please turn to the designated store or sales dealer for help, and remember not to open the above components by yourself, or it will lose our warranty.

Status Code(Decimal)	State Meaning	Remarks
0	Normal	
1	Reservation	
2	Brakes	
3	Power Sensor Fault(Riding Mark)	Not Realized Here
4	6 KM/H cruise	
5	Real-time cruising	
6	Battery under voltage	
7	Motor Failure	
8	turn malfunctioning	
9	Controller failure	
1	Communication reception failure	
11	Communication dispatch failure	
12	BMS communication failure	
13	Headlight failure	

**Protocol Ebike Status Code Meaning:**

Status Code(Decimal)	State Meaning	Remarks
33	Current anomaly	
34	Turn the anomaly	
35	Motor phase deficiency	
36	Motor Hall anomaly	
37	Brake anomaly	
30	Communication anomaly	

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# Part 3 After Sales and Warranty

## After Sales

Dear customer, thank you for choosing Rattan Ebike for your green travel solution, let`s ride together to keep our earth and home green.

- If you have any question about our product and want newest information`s, please contact us or follow us:

[www.rattanebike.com](http://www.rattanebike.com)

500 S Etiwanda Ave

Ontario, CA 91761

Service hotline: +1 909 235 8465



: rattan ebike



: rattan ebike

Service email: [info@rattanebike.com](mailto:info@rattanebike.com) ( Official Store )

[reibokservice@gmail.com](mailto:reibokservice@gmail.com) (Amazon store)

[Petreill2019@gmail.com](mailto:Petreill2019@gmail.com) (Amazon store)

- In order to provide the best customer service and reply in time, please email us according to which store your bike was purchased from.

## Warranty

The main parts of the warranty provisions

Component	Warranty period	Depreciation rate /day	Performance failure	Remark
Frame fork handle bar	2year	0.2%	<ul style="list-style-type: none"> <li>Natural sealing off.</li> <li>Fracture key parts crack.</li> <li>Fork fracture.</li> </ul>	Except human destroy
Motor	2year	0.2%	<ul style="list-style-type: none"> <li>Internal gear break.</li> <li>Bearing broken.</li> <li>The wheel hub shell cracking.</li> <li>Coil burned.</li> <li>Magnets off.</li> <li>clamping stagnation or have serious noise, not the normal operation</li> </ul>	Except human destroy
charger	2year	0.3%	Not be charged	Disassemble personally will not be replaced
controller	2year	0.3%	<ul style="list-style-type: none"> <li>Short circuit or open circuit.</li> <li>Burnout.</li> <li>Coaster related protection function failure.</li> </ul>	Disassemble personally will not be replaced
Battery	2year	0.3%	Not working	Disassemble personally will not be replaced
Display	2year	0.2%	Not working, no display	Disassemble personally will not be replaced

## Common part warranty

Component	Warranty period	Depreciation rate/day	Performance failure	Remark
Switch	1year	0.1%	Not work	



Freewheel ,chain	1year	0.1%	Skid ,fracture freewheel stagnation	Except human destroy
Crank	1year	0.1%	Not work	
Expansion brake	1year	0.1%	Not work	
Throttle	1year	0.1%	Not work	
Front and middle axle	1year	0.1%	Quality problem	
Rim. Hub	1year	0.1%	Bending, breaking	

## Other parts warranty:

- Stem, seat post, pedal, kickstand, disc brake ,for quality problems or electric plating damage fracture blister of large area to replace in six months(except for artificial damage)
- Saddle, luggage carrier, seat post clamp, spoke and fender for quality problem will be replacing in six months.
- Inner tire with leakage will be replaced in one month. The outer tire will be replaced in three months if it cranks naturally.

**Failure caused by the following cases are not included in the warranty contents. However, the designated store or sales dealer has the responsibility and obligation to provide paid repair service:**

- Without invoice and the warranty.
- Using and maintaining without complying with the user's manual.
- Using the electrical bicycle for other purposes or dangerous acts.
- Dismantling the parts without permission or improperly use and storage.
- Without using the original parts.
- Traffic accidents or other accidents.
- Anti-rust layer damage caused by abnormal use, which leads to the corrosion and fracture of the parts.
- Riding on the abnormal road conditions.
- Commercial rental use.
- Irresistible natural disasters.

**At last, we express our top regard to you for choosing Yamee ebike. Our planet is becoming cleaner because of you, keep going.**