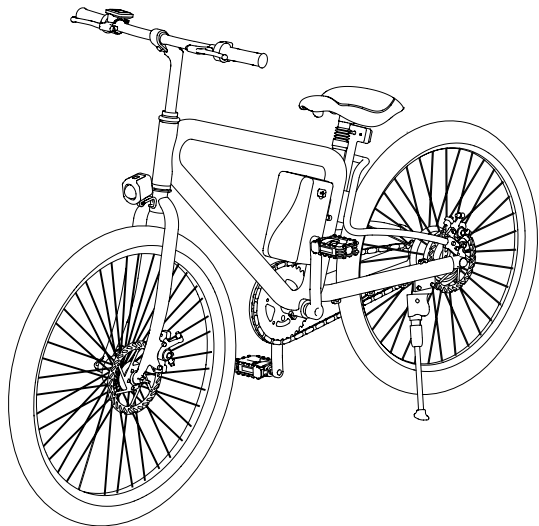
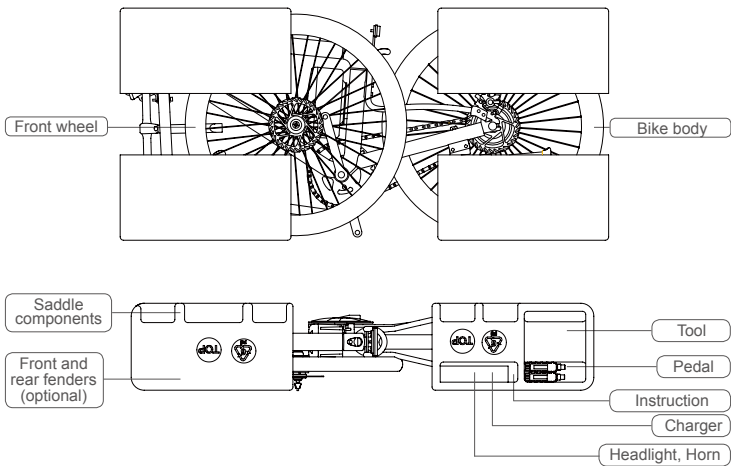


Airwheel R8-SERIES

EN USER MANUAL



Check Packing Contents

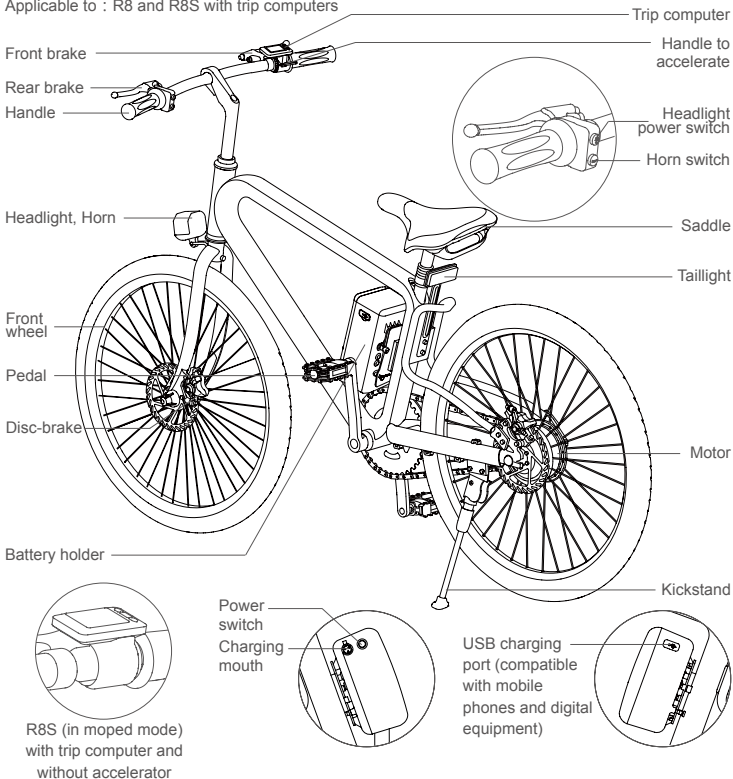


Packing list

Bike body	1 pcs	Tool	1 unit
Charger	1 pcs	Saddle components	1 unit
Front wheel	1 pcs	Pedal	1 unit
Instruction	1 unit	Headlight, Horn	1 pcs
Front and rear fenders (optional)	1 unit		

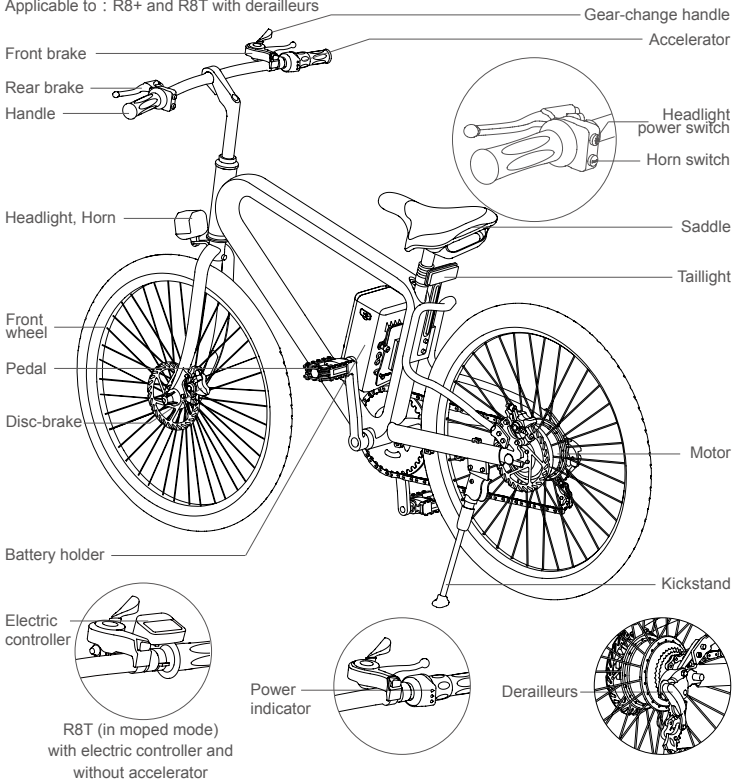
Diagram

Applicable to : R8 and R8S with trip computers



Diagram

Applicable to : R8+ and R8T with derailleurs



Specifications

Main Technical Parameters

Size	1730mm×630mm×1100mm	Item weight	~19.5kg
Tire size	26 inch	Max. load	100kg
Charging voltage	AC100-240V 50-60Hz	Max. permissible gradient	~15°
Charging time	About 120min	Applicable temperature	-10°C ~40°C
USB output voltage	5V	Battery capacity	R 8 / R 8 S / R 8 + : 162.8Wh R8T/R8+: 214.6Wh

Main Technical Parameters Of Storage Battery

Storage battery type	Lithium battery	Nominal voltage	36V
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Main Technical Parameters Of Motor

Motor type	Brushless motor	Nominal voltage	36V
Continuous power output	200W	Rated output torque	9N.M
Rated speed	210r/min		

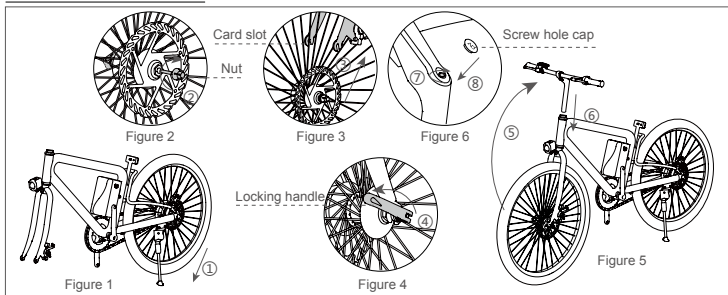
Main Technical Parameters Of Controller And Charger

Undervoltage protection value	≥ 30.5V	Over-current protection value	≤ 18A
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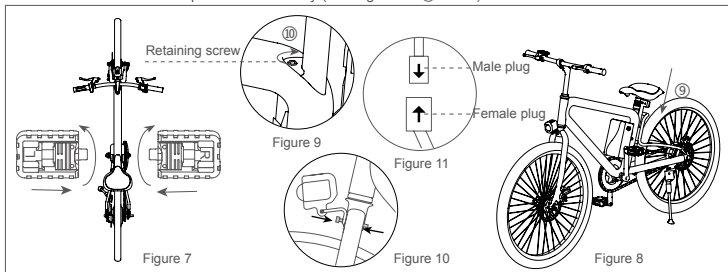
Warning

Please do not throw away the waste battery, so as not to pollute the environment. The waste lithium battery of the product is to be recycled by the enterprise or dealer, and the government designated outlets.

Use the Bicycle



① Take R8-SERIES's main frame, front wheel and bike head from the box, unfold the kickstand (see Figure 1 - ① arrow). Take down the protective jacket of front wheel disc brake, unscrew the nut, put centre shaft into front wheel and put nut into centre shaft. Adjust it clockwise (see Figure 2 - ② arrow). Take down the protective jacket of front fork, put front wheel into slot (see Figure 3 - ③ arrow), adjust the distance, tighten the locking handle upward (see Figure 4 - ④ arrow) to fasten the front wheel. Remove the protective jacket of riser, push the bike head to the vertical (see Figure 5 - ⑤ arrow), and insert to the bike body (see Figure 5 - ⑥ arrow), straighten the head and adjust height, tighten the screws with hex wrench clockwise (see Figure 6 - ⑦ arrow), and install the screw hole caps of the accessory (see Figure 6 - ⑧ arrow).



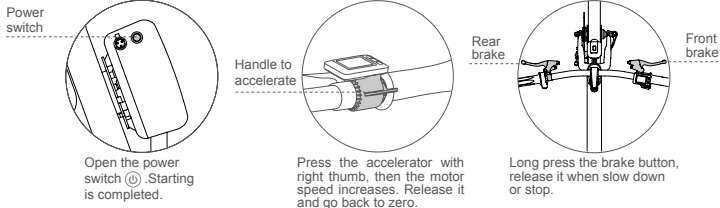
② Install the pedals (See Figure 7), L for left and R for right. Please pay attention to the installation of the screw-tooth. The left pedal is tightened counter clockwise, right pedal tightened clockwise, and the recommended pedal torque is 35 ~ 40N.m. Put the saddle into the frame and adjust height accordingly (see Figure 8- ⑨). Tighten the screws with hex wrench clockwise (see figure 9 - ⑩ arrow). Tighten the headlight with screws and nuts (see figure 10), and install the male plug and female plug as the direction shown by the arrow (see figure 11).

Get Started

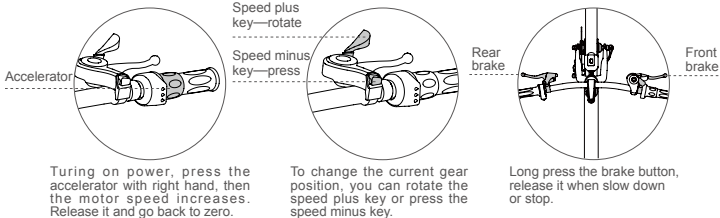
R8 and R8+ in R8-SERIES provide three ride modes.

1. Electricity-assisted mode

Set right the head, fold kickstand and fasten frame. Adjust bike head and saddle position to ensure a comfortable riding experience. Find the power switch in the one side of the batter, start it and hold the handle. First sit on the saddle and step on the pedals one foot by one foot. When riders are ready to ride it, they can push the accelerator in the right handle to accelerate.



R8+ ride operation



2. Man-powered mode

Set right the head, fold kickstand and fasten frame. Adjust bike head and saddle position to ensure a comfortable riding experience. Find the power switch in the one side of the battery, start it and hold the handle. First sit on the saddle and step on the pedals one foot by one foot. Rides can pedal it to go forward. In the pedaling mode, there is no need to turn on power.

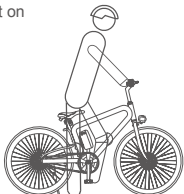
3. Moped mode

Turn on the power switch. When pedalling with the riding ring exceeding 1.5 rings and the speed being over 3km/h, the power-assisted mode is activated. According to different riders' force, the level of power assistance changes. When braking, it is out of power-assisted mode. If pedals reverse, it will realize a faster exit of power-assisted mode. The power-assisted mode is to make riding easier.

The pure electricity mode is not applicable to R8S and R8T.

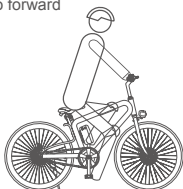
Learning Skill

Get on



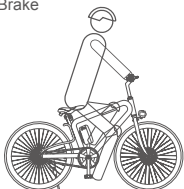
Fold the kickstand, open the power switch and step on the pedal one foot by one foot.

Go forward



Turn the accelerator handle down with right hand to accelerate.

Brake



Hold the brake.

Operating steps for beginners (electricity-assisted mode)

1. Fold the kickstand and turn on the power switch. Hold the handle and sit on the saddle.
2. One foot steps on the pedal and look straight ahead. Turn the accelerator handle down with right hand to accelerate.
3. When riders need to slow down or stop R8/R8+, riders put their fingers on the brake handle, and press the brake handle hard until the it scooter slows down or stops.
4. When the brake is started, the accelerator will automatically cut off power.



- Avoid using this product in bad weather conditions (e.g., rain, snow, or ice).
- Please confirm whether the brake can be used normally when riders want to use it.

Safety

Please read User Manual carefully and follow riding requirements during the R8-SERIES ride. Please do not use it until riders have read User Manual carefully and learned the performance well. Do not lend it to those who cannot manipulate e bikes.

Important Note:

No urgent acceleration, rapid deceleration and sharp turns. Do not excessively lean forward and backward. Do not overspeed. When the electric quantity displays less power in the App or power switch lights flash, it is recommended that the rider stop riding. If riding, please keep a low constant speed. If there is a risk of falling, please protect personal safety first, do not consider R8-SERIES. R8-SERIES may produce wear and tear which may influence on the performance in the process of riding and parking. So before riders ride the R8-SERIES, it is necessary to do the following inspections:

1. Rider needs to check whether the R8-SERIES is installed firmly, and is damaged or not.
2. Do not place the front wheel's quick release on the side with disc brake, in case of accident.
3. To install pedals, 35~40N.m is the recommended torque. Please make sure the pedals have been fastened before use. If not, the rear screw tooth will be damaged and the pedals will fall off from the bike which is not included in the Warranty.
4. Rider needs to check the brake function and tyres, and to check whether the handle and folding lock is fastened. If not, please tighten the screws.
5. The chain should be tightened meaning that the distance between chain prolapse and tension is 10~15mm.
6. Brake should be reliable and flexible to reset and it should increase the braking distance in rainy, snowy and downhill riding.
7. Adjust the handlebar, saddle height, and it must not be higher than the safety points on the vertical pipe and the saddle tube. After adjustment of the horizontal pipe, the vertical pipe, saddle and saddle tube, they should be fastened, $\geq 18\text{N.m}$ is the recommended torque.
8. Rider needs to find an open space to practice, at least $4\text{m} \times 20\text{m}$ area, indoor and outdoor.
9. Rider needs to have a full understanding of the surrounding environment to avoid the interference from the vehicle, pedestrians, pets, bicycles and other obstacles.
10. Rider needs a skilled assistant in the side. The assistant is proficient in riding R8-SERIES and familiar with the guidelines for the use of scooters in all matters needing attention and riding method.

You need lots of practice to grasp the skill before you ride R8-SERIES safely. If you are not skilled, or fail to follow the user guide of this product, it may cause rider or others injury or property loss. Our company only takes the responsibility for product defects or damage, and we are NOT responsible for physical injury or property loss related with using products.

Adjustment and maintenance:

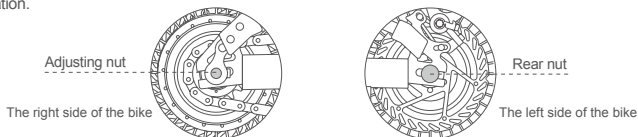
- Newly purchased vehicles should be adjusted in good condition, if there is any question, please refer to the aftersales staff.
1. The adjustment method of the brake is the same as the ordinary bicycle. The key is not only to be able to brake effectively, but also to release the brake without block (otherwise it will consume a large amount of electric energy) and make sure the brake-power off function is effective.
To replace tires, it is the same as ordinary bicycle. Due to the rear wheel hub and circuit, riders need to pay attention to the lines and press the two screws in the rear axle. The torque of the rear wheel is recommended $\geq 30\text{N.m}$, and ensure the front wheel's locking handle is fixed.
 2. Have a maintenance and a comprehensive examination every 800 km. Check whether the front and rear wheel screw is locking, check whether the pattern of cover tyre is worn; check whether spoke loosens; check whether the tire pressure is appropriate, the drive system is smooth, and each part of the joint is normal; check whether the brake line zip-fastener is used in lubrication. And inject suitable amount of lubricant to the central axis, the front axle, rear axle, flywheel, fork, rotating parts and brake wiring. 40# oil and butter as a lubricant are recommended.
In the use and maintenance, if you find that you cannot solve the problem, please contact the aftersales staff.
 3. Unauthorized demolition of Airwheel caused the failure and damage, is not in the company's free warranty.
 4. When the vehicle is used for a period of time, it should be requested professional or designated service station for a comprehensive inspection and adjustment to ensure the comfort, safety and normal service life.

Parking note:

1. When you get off, you should turn off the power in case of accident caused by the bike accelerates suddenly.
2. The power should be turned off when parking.
3. For your riding safety and for the R8-SERIES's superb condition, please maintain and clean it regularly.

Chain adjustment:

Rotate to loosen the nuts. Adjust the nut forwards or backwards to find the suitable looseness. When adjusting the chain, it must also be aligned with the rear nut and adjusting nut and keep the front and rear wheels in a straight line. After adjustment, refasten the nut in the rear wheel, lock the adjusting nut to have a final check. The chain sag between the two chain wheels should be 10~15. Clip mouth is back to the installation.



Battery usage:

1. Auxiliary charge: such as short delivery time, users can directly use the battery. If the delivery time is longer (2 months or longer), the battery will lose power during storage and transport. It is better to charge the battery before use. To charge it requires plugging the exclusive charge to the battery charging hole and connecting AC100-240V power source for 2~4 hours until the charger is full.
2. The normal charge of the battery: the operation of R8-SERIES is also the discharge process of the battery. The battery should be charged immediately after the use of the power-assisted vehicle.
3. Please turn off the power if not riding.
4. The connectors of the battery box should be fixed tightly according to the requirements (the battery box connecting line has been reliably connected before ex-factory). Loosened or wrong connection will cause the related parts abnormal and lead to serious damage.
5. Lithium batteries can not be close to open fire or high temperature heat source, can not be thrown into water and can not be exposed in the sun in high temperature season.
6. Do not disassemble and decompose, as the internal part of them lithium battery has been packaged intactly.
7. The waste lithium battery of the product is to be recycled by the enterprise or dealer, and the government designated outlets. Please do not throw away the waste battery, so as not to pollute the environment.
8. Before long-period storage, make sure it is fully charged, and charge it every 2 or 3 months.

Charger usage:

1. Carefully check whether the charger's rated input voltage (AC100-240V) and the grid voltage is consistent.
2. When the vehicle needs charging, first connect the battery to the charger, and then connect the charger to AC power source. The charging indicator is red meaning it is charging. When it turns green, it will take 15 minutes to be fully charged. The charging time is about 2 hours (depending on the quantity of remaining battery).

Matters needing attention in charging:

1. When charging, please put it out of children's reach.
2. In low battery, it is not suggested to ride in electric mode.
3. Do not use other brands of chargers, and other brands of batteries are not suitable for the use of the charger.
4. Do not disassemble, as the charger contains high voltage circuit.
5. Prevent liquid and metal particles from penetrating into the inside and be aware of falling and impact, so as not to cause damage during use and storage.
6. When charging, do not affix any items.

Attention:

1. Do wear helmet, gloves, elbow/knee pads or other necessary protection gears.
2. Do confirm the reliability of brake, saddle, frame, handle and wheels in case of accidents.
3. Riders should pedal it when climb bridge, ride against the wind and overload.
4. Do not ride on the bumpy and wet roads, such as earth road, cobbled road or snowing and watery roads, in case of accidents and danger.
5. Do not put items in the handles as it may be out of control.
6. R8-SERIES is only suitable for one person to ride.
7. Do not ride Airwheel in extremely cold winter.
8. Do not ride Airwheel in the rain.
9. Don't ride overspeed in the downhill. If brake, do not use the front brake in high-speed riding, in case of danger.
10. Do not inject oil in the brake in case of braking failure.
11. Do not allow pregnant woman, children under 15 or the aged above 60 to ride Airwheel.
12. Drunk or drug riding Airwheel is prohibited. People with constrained action and reaction capacity are not allowed to ride Airwheel.
13. Do not ride Airwheel in other unadvised situations.
14. R8-SERIES is not suitable for long-distance travel.
15. Develop good habits to charge in time. Before ride, please ensure R8-SERIES has enough electricity. It is very important to form the habit of charging in time every day so that the battery can serve you a longer period of time.
16. Almost all kinds of batteries will be affected by the environment. In general, the electric discharge performance is better when the R8-SERIES temperature is high. When the temperature drops to 0 degrees centigrade, battery power may fall more than 1/3. So, in winter or in cold area, mileage reduction is normal. When the temperature rises to 20 degrees above, the range will recover.
17. Do not insert metal objects (such as wires, keys etc.) into the battery charging hole or put in the +/- contact, so as to avoid the short circuit of the battery, ignition and safety loopholes.
18. Do not use other brands chargers and accessories or there may occur accidents and Airwheel is not responsible for the accidents.
19. Lithium batteries cannot be close to open fire, and flammable and explosive corrosive gases.
20. Do not disassemble and decompose the battery, so as not to damage the internal parts.
21. It is strictly prohibited to use wire or conductor to connect the battery, so as to avoid danger and damage to the battery.

22. The lithium battery should be handled with care, to avoid accidents.
23. To charge, first connect the battery charge interface, then the power source.
24. It needs power off to store. It needs to charge no more than 3 months and then store it.
25. The company shall not be liable for any loss or damage resulting from self-refit and self-repair, which may cause you to lose your free warranty scope. If something goes wrong, please contact aftersales personnel.
26. This product might be limited to use on private road (check the regulations in force in the territory of use). We recommend using suitable protective equipment.

Airwheel reserves the right of final interpretation of all the terms and conditions of this User Manual.

Download APP



Scan QR code to download

*Support Android 4.3 or higher, iOS 7.0 or higher.

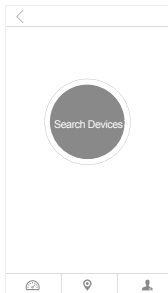
Applicable to: R8+ and R8T with derailleurs.


APP Instructions

1. Turn on R8+/R8T power button, and start App as well as Bluetooth.
2. Click the search button and do as the follows to connect
(verify password is 11111111).
3. Refer to official website or give calls for details.



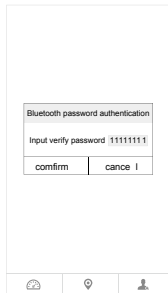
Click the Intelligent scooter in the App interface.



Click the search button or .



Search Airwheel nearby, click the searched Airwheel model to connect.



Input the verify password: 11111111 to connect.

Other Functional Instructions

- Trip computer (Applicable to : R8, R8S)

Introduction of Keys

Open the battery switch, and the dashboard can be seen. Short press the option key, the interface switching among the ODO, VOL, E (error), A (warning) and DIS.

Mode setting

Long press the key 1 and key 2 (about 3 seconds) simultaneously to set the mode

P01: backlight brightness, 1 darkest, 3 lightest;

P02: Number of speed measuring magnets: Range: 1-255; the number of magnet of R8/R8S is set to be 6;

P03: wheel diameter: unit inch; precision: 0.1; range: 5.0-50.0; the wheel diameter of R8/R8S is set to be 26.

P06: Power switching mode

0000: electricity mode is closed. (moped-mode)

0001: electricity mode is opened. (The moped mode has no such function.)

Parameter modification

In a certain parameter state, short press key 1 and key 2 to switch parameters. After modification, short press the option key to switch to the next parameter, and save the previous parameter; when parameter modification is completed, long press key 1 and key 2 to exit the settings interface. Or wait 10 seconds to automatically exit and save the parameters.

Gear adjustment

Long press the Key 2 to switch the ride modes between electric mode and power-assisted mode in the dashboard.

In the dashboard interface, short press key 1 and key 2 to adjust gears from 1-9 (moped-mode gear).

The In the dashboard interface, short press key 1 and key 2 to adjust gears from 1-9, A, B, C, D, E, F and H, a total of 16 gears (electric-mode gear).(The moped mode has no such function.)

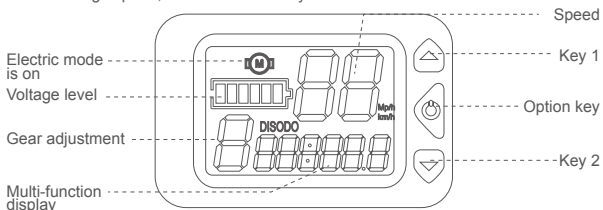
Note: H refers to high speed, choose it cautiously!



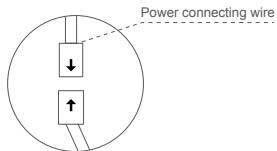
(Moped-mode gear)
Gear display



(Electric-mode gear)
Gear display

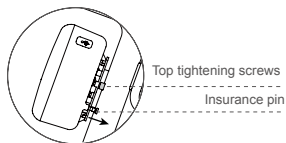


- Battery box can be disassembled. Separate the battery box wire and frame line before removing the battery box (to install battery, insert the battery box first and then connect).



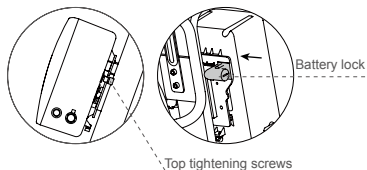
- 20 batteries (standard)

First loosen the top screws, pull down the insurance pin (as shown in the figure), remove the battery box to the negative direction of the insurance pin, then take out the battery box to charge.

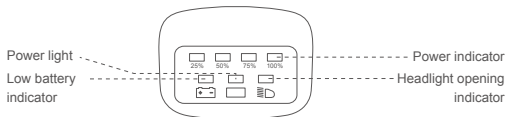


- 40 batteries (customized)

First loosen the top screw, open the battery lock with R8-SERIES's matched key, and then move the battery box in the opposite direction of the battery lock (as shown in the figure), then take out the battery box to charge.



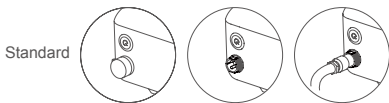
- E-bike status Indicator
(Applicable to: R8T)



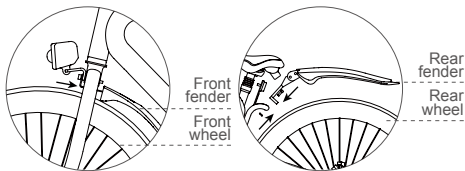
- **Power indicator**
When the power indicator is red, it is suggested not to ride.
(Applicable to: R8+)



- **Uncover the dust cap in the battery box and connect the charger to charge.**



- **Fender (optional, if any)**
Align the front fender and rear fender respectively to the round holes in front and rear wheel, and tighten it with screw and nut.



Front fender



Rear fender