

Installation Instructions

1 Rim Installation

1.1 Flywheel Installation



Remove the nuts and sensor cap from the cassette.



Install the cassette flywheel and lock the flywheel with the sensor cap. Note that it must be installed with the flywheel sensor cap of the system, otherwise there is no power output.



Screw the nut to the innermost.

1.2 Disc brake Installation (if V brake, just skip this step)



Remove the plastic gasket indicated by the arrow (take care of the 6 screws)



Install the disc brake using the 6 screws in previous step.

Note that it is necessary to use the disc brake screws from the motor, using other disc brake screws may cause the motor unable to work due to the excessive length of the screws.

1.3 Tire installation

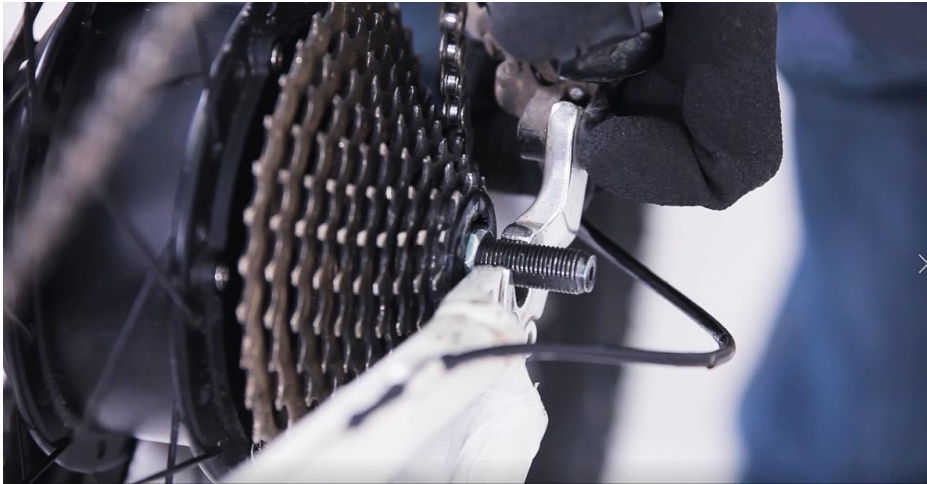


Install the tire cushion



Install inside and outside tire, be careful to install according to the direction of the tire.

1.4 Frame Installation



As shown in the picture, install the wheelset into the bike.



Lock the wheel.

2 Controller Installation

Please install according to the controller type.

2.1 SMA-Q



Install the controller bracket to the position of the kettle hole in the frame.

2.2 SMA-R



Install the controller bracket to the kettle hole position.

2.3 RANGER-S



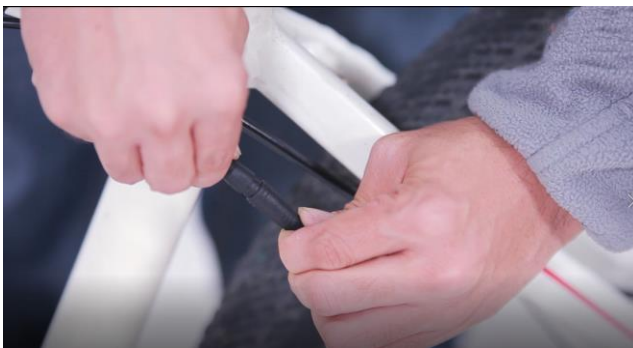
Install the controller in the controller box, and then fix it.

3 Display Installation



Install the display to the handlebar.

4 Connection



Connect 2 wires from controller to display and motor. Note that there is arrow mark on the joint, connect arrow to arrow.

Fasten the wiring along the frame with the strap.

5 Battery Installation



Install the battery on the battery holder.

6 Set system parameters.

6.1 Open the display

Long press the middle button to start up.

6.2 Enter the setup interface.

Long press both the "+" and "-" buttons to enter the instrument setting interface, and press the middle key to switch the parameter page.

6.3 Setting wheel diameter

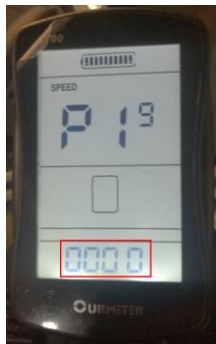


Switch to the P06 interface, press the "+" and "-" buttons to set the wheel diameter. If the wheel diameter is 26 inches, it is set to 26.0.

6.4 Sensor calibration

The system shall be calibrated for the first time installation, after then no need to calibrated.

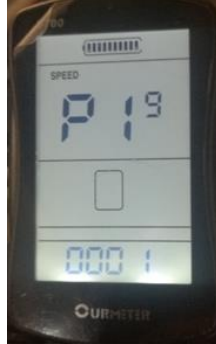
A) 830 and 850 meters switch to P09 interface, and M3 and S700 meters switch to P19 interface



830 and 850 meters

M3 and S700 meters

B) press the "+" key to set the value to "1" (calibration mode), then turn the chainwheel forward for 5-10 laps, the motor shall have the power output in PAS level 1-5;



830 and 850 meters

M3 and S700 meters

C) Repeat step A), set value to 0, exit calibration mode



Q/A

1 Why there is no assistance when riding?

- a) Make sure the motor and display are properly connected to the controller.
- b) Please confirm whether the display is open.
- c) Please confirm whether the PAS level is 0. If yes, press "+" to set PAS level to one of the 1-5 level and then check if it is helpful.
- d) Raise the rear wheel and long press the "-" button to see if the rear wheel is electrically driven. If there is no electric drive, it can be confirmed that the controller is faulty. Please send the controller back.
- e) Confirm whether the system is equipped with a 100G's sensor cap according to section 1.1, if not, please reinstall the sensor cap.
- f) Recalibrated the sensor and recheck if there have assistance according to section 6.4.

2 Why there is electric power while reversing flywheel?

This is because the sensor is not properly calibrated, please calibrate according to section 6.4.