

KUKiirin V1 Pro

OPERATING MANUAL

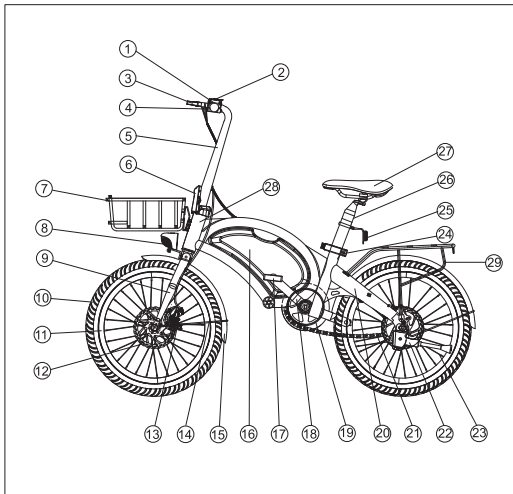
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KUKiirin

www.kukirin.net

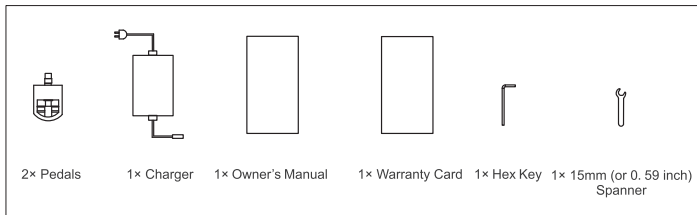
Parts & Components



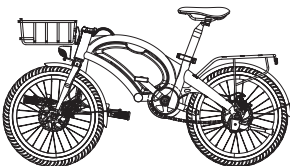
1. Accelerator
2. Display
3. Brake lever
4. Handlebar
5. Tube
6. Tube Buckle
7. Front Rack
8. Headlight
9. Front fork
10. Tire
11. Wheel hub
12. Front Disc Brake Rotor
13. Front Disc Brake Caliper
14. Mudguard Support
15. Mudguard
16. Controller Box
17. Pedal
18. Crank
19. Chain Wheel
20. Chain
21. Frame
22. Kickstand
23. Spoke
24. Seat-post Clamp
25. Rear Light
26. Seat Tube
27. Saddle
28. Head Tube (with frame number)
29. Rear Rack

Note: As we upgrade our eBikes, the one you own may be slightly different from the one shown above, but how you use it will be the same.

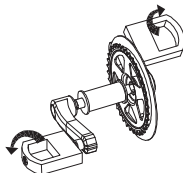
In the Package



Quick Start
Unfold the handlebar



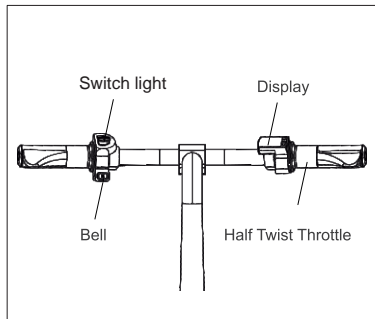
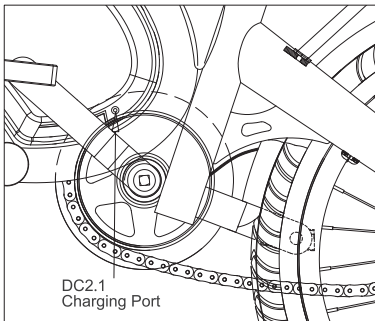
Installing the Pedals



Screw in the right pedal clockwise,
and the left counter-clockwise

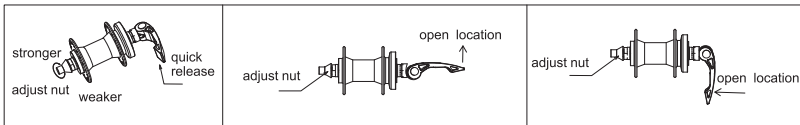
Getting Started

1. Assembling: 1) Open the box, take out your eBike, and remove the packaging. 2) Mount the front wheel to the front fork, and tighten the screws to lock into place. 3) Assemble and align the handlebar upon the riser, and lock into place. 4) Walk the eBike to ensure no abnormal sound from the turning wheels. Gently pull the brake levers for a couple of times to ensure both the front and rear brakes function normally. 5) Adjust the seat tube to desired height, and lock the quick release. 6) Install the pedals and tighten up. (Please wear a helmet when riding the eBike.)
2. Charging: Connect the DC jack of the original charger to the charging slot of your eBike, and the AC plug to the mains. The charger light turns from red to green when charging is complete. (Please do not charge your eBike indoors. For outdoors charging, please avoid rain and strong direct sun over the charger.)
3. Power switch: Locate the switch on the left handle. Toggle forward to power on and the display will turn on accordingly. Toggle switch back to power off.
4. Headlight: Locate the light switch on the display at the left handle. When power is on, press and switch the headlight on and off.
5. Cruise control: When riding, when you reach the desired speed and maintain it, keep the shifter in the same position for five to eight seconds to start cruising. During cruising, you may release the shifter. To stop cruising, turn the shifter again to accelerate, or pull the brake levers.
6. Shifting mode (motor speed): Press "M" in the display to shift the motor speed. Mode 1/2/3 corresponds to the motor-powered maximum speed of 25 km/h (or 15.53 mph) and 35 km/h (or 21.74 mph) and 45 km/h (27.96 mph)
7. Display: The display in the right of the handlebar shows battery level, speed, mode, mileage.
8. Riding modes:
 - a. Sports Mode: Power is off and there is no motor output. Pedal and exercise.
 - b. Throttle Mode: When the power is on, twist the throttle to accelerate and start the ride without pedaling.
 - c. Pedal Assist Mode: When the power is on and while you are pedaling, the motor also provides power for an easier and more energy-efficient ride.
9. Power cut-off brakes: When you pull the brake levers, the controller cuts off the motor output. The mechanical disc brakes are also engaged. As long as the brake levers are not completely released, Pedal Assist Mode or Throttle Mode remains disabled.



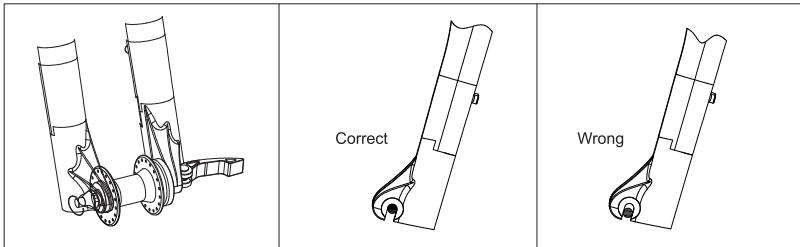
Installing the Front Wheel

I. Basic mechanical principle with the hub and anchor nuts Turn the anchor nuts clockwise to increase clamping, and anti-clockwise to decrease.

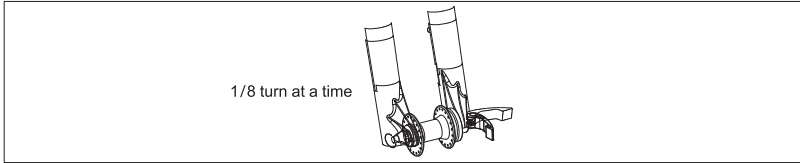


II. How to install

1. Manually turn the anchor nuts anti-clockwise to loosen for space, and insert the front wheel all the way into the dropouts of the front fork.

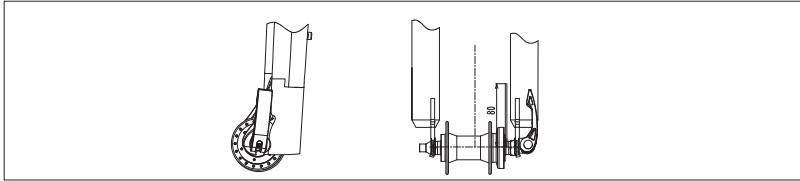


2. Manually turn the anchor nuts clockwise to fasten up. Ensure that the front wheel is located at the very center of the front fork and that the disc brake rotor is parallel to the disc brake caliper towards the end of the front fork with space in between. Keep some space on both sides, and tighten into place with a spanner as indicated below.



3. Fasten Quick Release





While holding the fork leg, press the quick release until it is fastened. The word "CLOSE" printed on the quick release should be facing outside. Quick release should be located in front of fork, and make sure it is parallel with the fork as the image shown below.





Display

See below meter screen:



Item	Image	Description
Current mileage		Mileage of a single ride will be displayed (range: 0.0-9999 km); When number is less than 1000, range will be: 0.0-999.9 km; When number is over 1000, range will be 1000-9999 km
Total mileage		Total mileage will be displayed (range: 0.0-9999 km) When number is less than 1000, range will be: 0.0-999.9 km; When number is over 1000, range will be 1000-9999 km
Current speed		Current speed
Current battery		Current battery level





Buttons

Item	Image	Description
Functional Button		Shift riding mode and energy-saving
Adjusting Button		ODO; TRIP; Power voltage; failure report and adjustment display

When E-bike is cruise mode, the images **ECO** **MID** **HIGH** will blink and give notification.

When cruise mode stops, images stop blinking.

Battery

Battery percentage	> 70%	50%~70%	30%~50%	< 30%
Display				

When battery level falls under 30%, a warning will be displayed on the screen.

Failure code

Failure code will blink and display as follows:

"EE-1" Display failed in receiving report.

"EE-2" Display failed in sending report

"EE-3" Controller has issue

"EE-4" Motor has issue

"EE-5" Motor fault - phase issue

"EE-6" Throttle has issue

"EE-7" Brake lever has issue

"EE-8" Pedal assist sensor has issue

"EE-9" Motor has low voltage

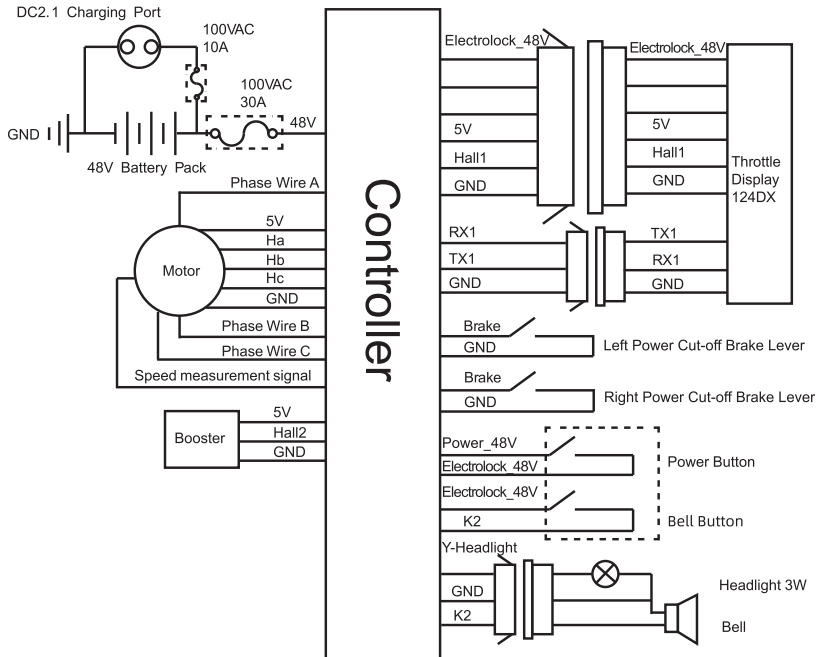
Specification

Build	Model	V1-Pro
	Body material	Aluminum alloy frame
	Expanded size	1450*570*1130 (or 57.08*22.44*44.49 inches)
	Packing size	Inner size: 1220*250*630 (or 44.09*9.84*24.80 inches) Outer size: 1235*260*650 (or 48.62*10.23*25.59 inches)
	Wheelbase	915 mm (36.02 inches)
	Pedal ground clearance	160 mm (or 6.3 inches)
	Wheel hub	20 inches
	Body Color	Black

Performance	Load	120 kg (or 264.55 lbs.)
	Average speed	35 km/h (or 21.74 mph)
	Max design speed	45 km/h (or 27.96 mph)
	Power consumption per hundred kilometers	1.08 kWh
	Range in throttle mode	26km±3 (or 57.32±6.61 mi)
	Range in pedal assist mode	39km±3 (or 85.98±6.61 mi)
	Hill climbing capacity	15 degrees
	Operating temperature	-10~45 degrees Celsius (or 14-113 degrees Fahrenheit)
	IP rating	IP54
Core	Battery type	18650 lithium-ion
	Battery capacity	7.5Ah
	Battery rated voltage	48V
	Charging voltage	DC54.6V
	Charger input voltage	AC100~220V
	Charging time	4-5 hours
	Motor rated power	350W
	Motor rated speed	450 r/min
	Motor rated voltage	48V
	Controller under voltage value	41±0.5V
	Controller over current value	15±1A
Features	Headlight	Yes
	Rear Rack	Yes
	Cruising	Yes
	Speed sensor	Yes
	Adjustable seat height	Yes
	Braking	Front and rear disc brakes
	Customized stickers	Optional

Note: The max speed may vary, depending on the battery level, load, tire pressure, terrain, lubrication state of the chain and bearings, etc. The ranges are determined upon tests at the ambient temperature of 25°C (or 77°F), at the speed of 15 to 20 km/h (or 9.32 to 12.43 mph), on smooth and firm terrain, with a load of 75 kg (or 165.35 lbs.), and within an uninterrupted period from full to zero battery level. The ranges may vary, depending on your riding behavior, ambient temperature, load, tire pressure, terrain, etc.

Circuit Diagram



Attention

Battery & Charging

- Do not connect the positive to negative, or vice versa. Do not damage, disassemble, or short-circuit the battery. Avoid water, other liquid, or other foreign matter inside the battery to prevent short circuit.
- Instructions in this manual must be followed when charging the battery, otherwise the owner shall take sole responsibility for any consequences.
- Charge the battery only at the temperature between 0°C (or 32°F) and 45°C (or 113°F), and discharge at the temperature between -20°C (or -4°F) and 60°C (or 140°F). The charging current should not exceed 2A. Charge only in a well-ventilated area, away from sun and heat.
- Use the original charger from the package to charge the battery. Connect the charger and battery before plugging the charger into the mains. Do not charge the battery for over 6 hours each time.
- When charging, if the charging indicator appears abnormal, a smell is released, or the charger overheats, stop charging immediately. Service or replace the charger.
- To stop charging, unplug from the mains before disconnecting the charger and battery.
- When the charging indicator turns green, stop charging.
- Do not leave the charger connected to any AC power source when not charging.
- When not in use, store the battery in a dry (relative humidity at 65±20%) and cool (temperature at 10-35°C, or 50-95°F) place. Keep away from fire, heat and high temperature. Do not put the battery in acid or alkaline liquid. Make sure to charge the battery for two hours each month.
- Before using the charger to charge a different battery, note the battery type and voltage that the charger may apply to.
- It is advisable not to carry the charger with your eBike. If you must, place the charger in a toolbox upon shock absorption treatment.
- Do not disassemble the charger or replace the parts and components in the charger on your own.
- Waste battery is classified as hazardous. Do not disassemble the waste battery on your own. It should be collected and recycled properly.
- The provided lithium battery can be recharged for a minimum of 800 times, with a typical lifespan exceeding 1000 times with regular use. There might be a potential risk of danger when charging the lithium battery indoors. Therefore, it is strongly advised to perform the charging process outdoors.

Riding your eBike

- Do not use the eBike before reading this manual carefully and knowing your eBike thoroughly.
- **This eBike is designed for riders aged 16-45. Anyone aged below 16 is strictly forbidden to ride this eBike.**
- **Please wear a helmet.**
- Do not lend your eBike to anyone who do not know how to use it, so as to avoid harm.
- When adjusting the steerer tube and seat tube, do not expose the minimum insertion marks.
- Before riding, check the tire pressure. It is advisable to maintain at 35-45 PSI.
- Before riding, ensure the power, lights, handles, brakes, wheels, reflectors and others are in good condition.
- Before carrying people or objects on your eBike, learn the local laws and regulations, and abide by them.
- Do not exceed the load capacity of 120 kg (or 264.60 lbs.).
- Wear a helmet, and obey traffic rules.
- Obey local traffic rules to keep to the right or left.
- Do not ride on any motorized lane or in any pedestrian crowd.

Attention

- It is advisable not to go over 15 km/h (or 9.32 mph) when riding on any non-motorized lane, downhill, or paved road.
- Slow down in rain or snow as required braking distances increase.
- It is advisable not to ride in storms or any extreme weather.
- Avoid impact on the motor.
- Keep the bearings lubricated.
- Do not park your eBike in any lobby, walkway, evacuation stairway, or emergency entrance/exit.
- Do not charge or park your eBike inside any residential building. Keep away from combustibles when charging. Charging should not exceed 6 hours each time.
- Users should strictly adhere to traffic laws and regulations while cycling. If there are special local laws and regulations, users should comply with them accordingly.

Maintenance

- The front and rear wheels should be aligned to the center of the front fork and frame.
- Park away from direct sunlight and rain.
- Do not rinse the eBike. Wipe with a damp cloth to clean.
- Check the motor and brakes frequently. Do not oil the braking system.
- Regularly check all screws and keep them fastened.
- Recommended torque specs: handlebar screw 60-80 kgf.cm (or 52.08-69.44 lbf.in), steering stem screw 175-200 kgf.cm (or 151.90-173.60 lbf.in), saddle screw 175-250 kgf.cm (or 151.90-217.00 lbf.in), and wheel screw 320-450 kgf.cm (or 277.70-390.60 lbf.in).
- Regularly check the tension of the chain, which can be adjusted via the chain regulator.
- Frequently check the tires for scratches, cracks or excessive wear. The inner tube and valve should be perpendicular to the wheel hub. Punctured, damaged or excessively worn inner tube and tire must be replaced immediately. Please contact professional technicians.
- It is forbidden to modify key structural parts including the frame, front fork and steerer tube, and any electrical parts. If damaged, replace with identical parts from our factory. Otherwise, the warranty shall be void and the owner shall take sole responsibility for any consequence.

Disclaimer

- Our company reserves the right to modify and give final interpretation to the product model, specification, and other information contained in this manual.
- The functions of the specific model referred to in this manual apply to this specific model only.
- The product model, specification, and other information contained in this manual is subject to any modification or change without notice.
- Without the prior written permission of the company, the contents of the manual may not be copied, modified, reprinted, disseminated or published in any form.
- Please read this manual carefully before using the product, and operate in accordance with the manual. Otherwise, the company shall not be liable for any personal or property damage, including damage to the product, caused by misuse or abuse.

