

KC7

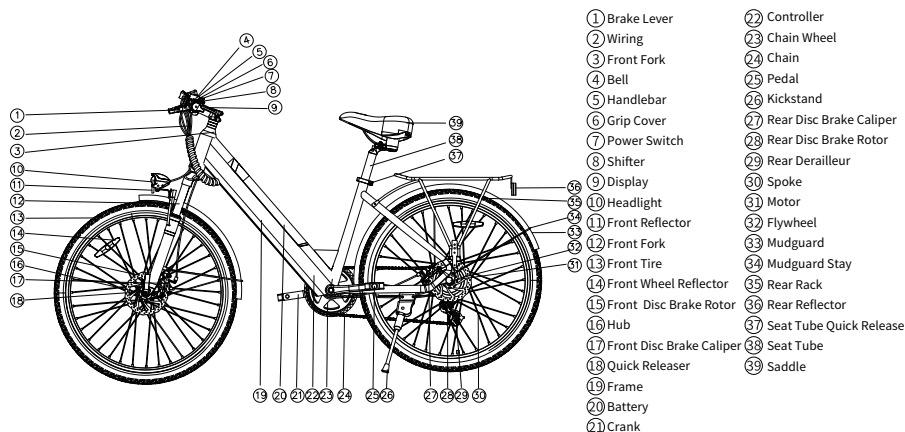
KORNORGE ELECTRIC BIKE USER MANUAL

(Please read the instruction manual carefully and understand the performance of the electric bicycle before using. Please keep the instruction manual properly)



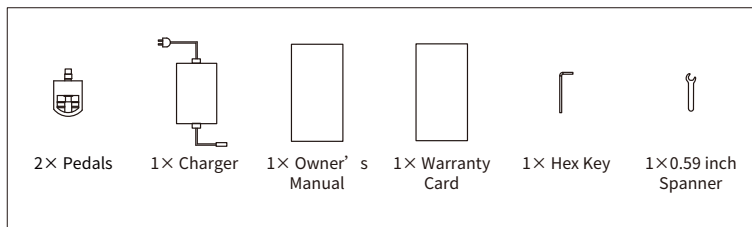
MADE BY KORNOERGE

Smart Electric Bike Instruction Manual

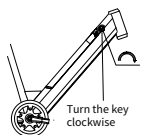


Note: As we upgrade our eBikes, the one you own may be slightly different from the one shown above, but how you use it will be the same.

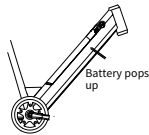
In the Package



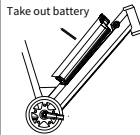
Removing the Battery



1. Open the battery lock.

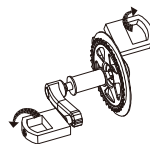


2. The upper part of the battery pops up.



3. Take out the battery as the arrow above indicates.

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. (When the battery does not need charging, do not keep the AC plug connected to the mains and do not keep the charger connected to the battery. Do not charge indoors. When charging outdoors, avoid rain or direct sun on the charger.)

3. Power on and off: Locate the power button on the left handle. Press it to power on, and to power off, press and hold it for three seconds. The eBike automatically powers off upon ten minutes of inactivity

4. Display: The display in the center of the handlebar shows battery level, speed, mode, lights, and failure report.

5. Shifting mode (motor speed): Locate the M button on the left handle. When the power is on, press it to shift the motor speed. Mode E/D/S corresponds to the motor-powered maximum speed of 15 km/h (or 9.32 mph), 25 km/h (or 15.53 mph) and 32 km/h (19.88 mph).

6. Headlight: After turning on the eBike, press the light button located left of handlebar.

7. Cruise control: When the desired uniform riding speed is reached, maintain the position of the throttle for eight seconds to start cruising. Releasing the throttle would not affect the cruising speed. Twist the throttle again to accelerate, or pull the brake levers to stop cruising.

8. Riding modes:

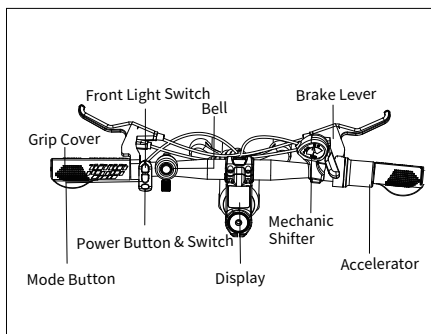
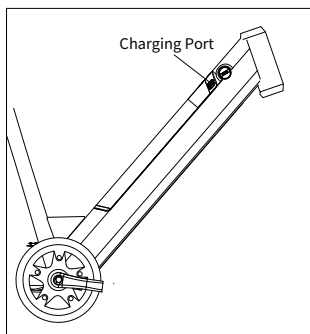
a. Sports Mode: Power is off and there is no motor output. Pedal and exercise.

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.

10. Removing and installing the battery: This battery is removable. To remove it, open the battery lock, and the upper part of the battery pops up. Take out the battery in the upward direction. To install the battery, start with the bottom of the battery and slide it down through the battery tube. Make sure the discharge port is connected well with the plug of the connector. Push in the upper part, clip it in to the battery tube, and lock the battery. (For battery replacement upon damage, please contact our official customer service.)

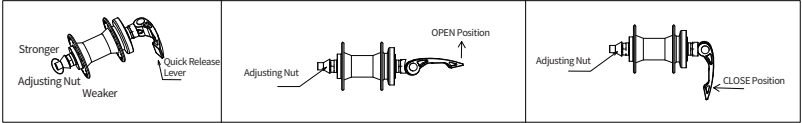


Installing the Front Wheel

I. Basic mechanical principle with the quick release lever

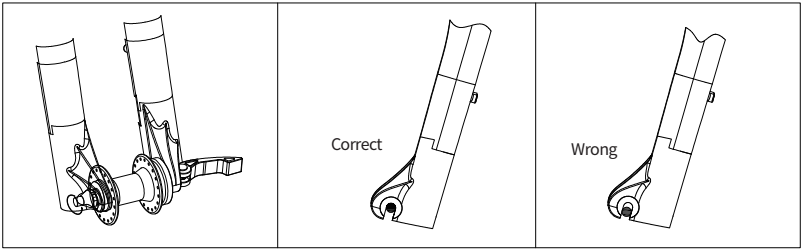
Turn the adjusting nut clockwise to increase clamping, and anti-clockwise to decrease.

For the quick release lever to be in the CLOSE position, turn the adjusting nut clockwise. As the nut screws inwards, the wheel is clamped onto the frame and locked into the correct position.

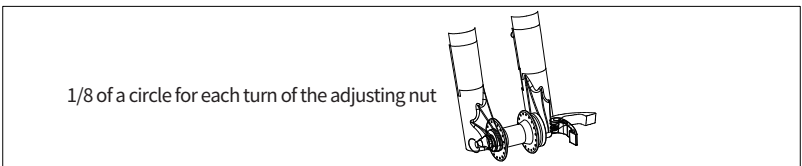


II. How to install

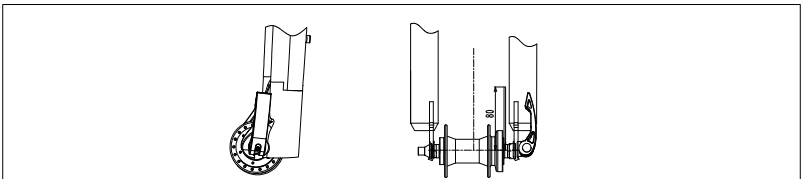
1. Open the quick release lever, and insert the front wheel all the way into the drop-outs of the front fork.



2. With your left hand, turn the adjusting nut clockwise to fasten up, and with your right hand, close the quick release lever. Continue to turn the adjusting nut till the lever runs parallel to the hub (as indicated below) and resistance from the lever is felt.



3. Hold the legs of the front fork with your fingers, and use your palm to press on the quick release lever to lock into place. The CLOSE mark should face outwards, and the lever should be ahead of the legs or parallel to them (as indicated below).



Gears

Some KORNOERGE eBikes come with gears, which consists of:

- Rear sprocket cluster, called freewheel or cog set
- Rear derailleur
- Shifter
- Control cable
- Front sprocket, called chaining
- Drive chain

The gear mechanism differs in ergonomic design, performance and price.

A downshift is a shift to a lower or slower gear, which makes pedaling easier. An upshift is a shift to a higher or faster gear, which makes pedaling harder. In practice, you can upshift to go faster, and you can downshift to go uphill.

A shift is possible only when you are pedaling forward, i.e. the drive chain is moving forward and under some tension.

CAUTION

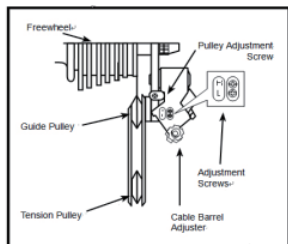
Never shift when pedaling backward. Also, do not pedal backwards after a shift. Either action may jam the chain and cause serious damage to your eBike.



Derailleur System

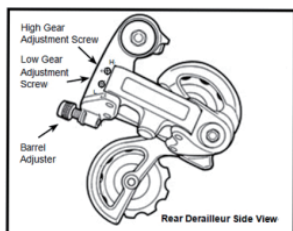
The derailleur system includes front and rear derailleurs, shift levers, and derailleur control cables. For smooth shifting, all components must function properly.

Although the front and rear derailleurs are initially adjusted in the factory, you need to inspect them before each ride.









To begin, twist the shifter to the largest number indicated, and the cable shall loosen the anchor bolt on the rear derailleur, placing the chain on the smallest sprocket. Adjust the high limit screw so that the guide pulley and the smallest sprocket are lined up vertically. Re-tighten the cable, pull out any slack, and re-tighten the anchor bolt securely. Shifting through the gears, making sure that each gear is achieved quietly and swiftly.




If necessary, use the barrel adjuster to fine tune the cable tension by turning it the direction you want the chain to go. For example, turning clockwise loosens cable tension and moves the chain away from the wheel, while turning counter-clockwise tightens cable tension and direct the chain towards the wheel.



Display

<p>Display Sample</p>		
Item	Image	Description
Headlight		<p>The icon lights up when the headlight is on, and off when the headlight is off.</p>
Current Speed		<p>Current speed</p>
Current battery level		<p>Current battery level</p>
Current mode		<p>Current riding mode</p>
Failures		<p>E1: Abnormal phase wire E2: Abnormal current E3: Abnormal braking E4: Abnormal throttle E5: Abnormal motor Hall-effect E6: Communication failure</p>

Buttons

Item	Icon	Description
Power button		Press and hold for three seconds to power on or off the eBike.
M button		Press to switch among modes
Light button		Press to turn on/off the front light

Display Setting

1. When the power is on, press and hold both the power button and M button at the same time to change unit of speed between km/h and mph.
2. When the power is on, press and hold both the power button and the light button at the same time for about twenty seconds to clear mileage.

Specification

Build	Model	KC7
	Body material	Aluminum alloy frame
	Expanded size	1790*640*1060 mm (70.47*25.19*41.73 inches)
	Packing size	1510*240*790 mm (59.44*9.44*31.10 inches)
	Wheelbase	1123 mm (44.21 inches)
	Pedal ground clearance	120 mm (4.72 inches)
	Wheel hub	26 inches
	Body color	Black / White
Performance	Weight	41 kg (90.39 lbs.)
	Load	120 kg (264.55 lbs.)
	Average speed	25 km/h (15.53 mph)
	Max Speed	32 km/h (19.88 mph)
	Power consumption per hundred kilometers	1.08 kWh
	Range in throttle mode	50 ± 3 km (31.06 ± 1.86 mi)
	Range in pedal assist mode	60 ± 5 km (37.28 ± 3.11 mi)
	Hill climbing capacity	15 degree
	Operating temperature	-10~45 degrees Celsius (14-113 degrees Fahrenheit)
	IP rating	IP54

Specification

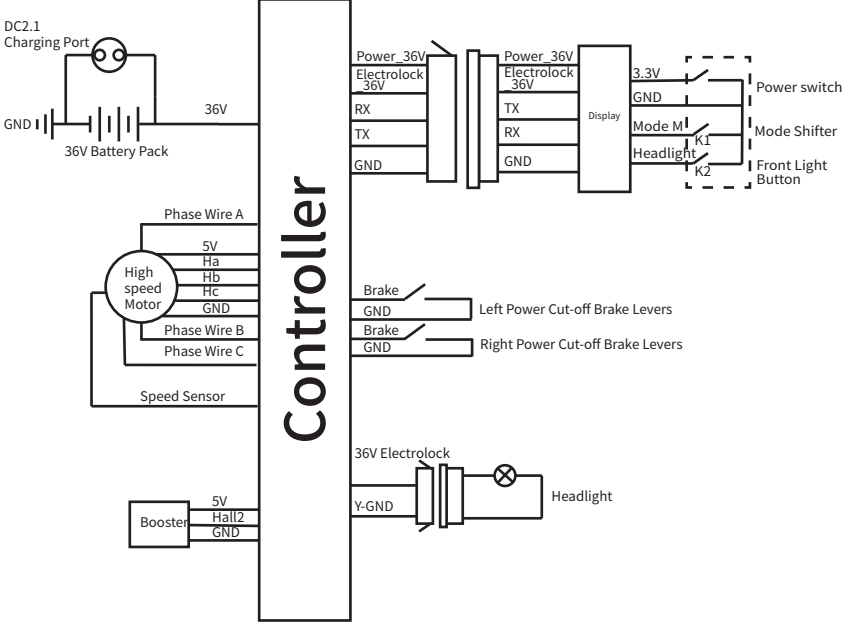
	Model	KC7
Core	Battery Type	18650 lithium ion
	Battery Capacity	12.5Ah
	Battery rated voltage	36V
	Charging voltage	DC42V
	Charger input voltage	AC100-220V
	Charging time	6-7Hours
	Motor Type	Independent high speed spoke motor
	Motor rated power	350W
	Motor rated speed	260 r/min
	Motor rated Voltage	36V
	Controller under voltage Value	31±1V
	Controller over current value	15A
Features	Headlight	Yes
	Rear light	No
	Cruise	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 120 kg (or 264.55 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 and cool 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.

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.**
- 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.
- 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.

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 52.08-69.44 lbsf.in, steering stem screw 151.90-173.60 lbsf.in, saddle screw 151.90-217.00 lbsf.in, and wheel screw 277.70-390.60 lbsf.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.
- For more information, please visit our official website: www.kornorge.com



kornorge.com



kornorge.support