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# Safety Information

## Warning!

- Install and operate this equipment **ONLY** in accordance with these instructions. Read them completely prior to installation and use. Contact customer service if any point is unclear.
- **ALWAYS** obey all applicable local and national laws and regulations while riding. Your area may require certain speed limits to be observed in order to use this equipment without moped or motorcycle registration and licensing. Do not ride your modified bicycle in any area prohibited to electric bicycles. Always wear your helmet and other required protective gear. Always maintain your reflectors and other required safety equipment.
- **ONLY** use this equipment with bicycles with fully functioning brakes. Even after power is cut to the motorized wheel, the inertia of the bike will often require active braking power.
- **ALWAYS** ensure all fasteners and components are intact and securely tightened before and after every use.
- **DO NOT** ride your bicycle if any part of this equipment is damaged or malfunctions. Repair or replace worn and broken parts before further use.
- Pay attention to the remaining power before setting out and during use. Recharge your battery as needed to ensure it never runs out of power at a moment where you are taken by surprise.
- **DO NOT** allow children or persons unfamiliar with these instructions to operate your modified bicycle without strict supervision.
- **DO NOT** wear loose footwear or clothing that may become caught in the motorized wheel.
- It is recommended that you not ride your bike faster than about 15 mph or 25 km/h when getting started. This can be ensured by connecting wires i & j on the control hardware and setting the bike's maximum speed to this level until you are fully familiar with your new motorized bike and its controls.
- **ALWAYS** be alert for people, animals, or any obstacles that may appear in front of you while riding your bicycle. Be aware that pedestrians and drivers may not expect the speed or responsiveness of your motorized bike. Adjust your behavior accordingly. It is advisable to install warning devices to draw their attention, but always be ready to turn safely out of their way if needed. Do not focus on the LCD display for extended periods of time while riding.
- **NEVER** ride at a speed where your stopping distance exceeds your visibility. We do not recommend that you ride your bicycle at night or in an environment with poor visibility. If you have an emergency that makes it necessary to do so, keep your light on and limit your speed appropriately.
- **NEVER** use the motorized wheel, in any situation, road condition, or terrain where doing so might impair your control of your bicycle.

# Specifications

<b>Model Name</b>		<b>EBK-N005-FT</b>		<b>EBK-N005-RR</b>	
<b>Wheel Location</b>		Front		Rear	
<b>Wheel Diameter</b>		26 in.	66 cm	26 in.	66 cm
<b>Recommended Tire Size</b>		26×1.75	47-559	26×1.75	47-559
<b>Compatible Forks</b>	<b>Fork Width</b>	3.5–3.9 in.	90–100 mm	5.3–5.6 in.	135–142 mm
	<b>Slot Width</b>	0.4–0.5 in.	10–12 mm	0.4–0.5 in.	10–12 mm
<b>Compatible Battery Types</b>		48V Lead-Acid or Lithium		48V Lead-Acid or Lithium	
<b>Rated Power</b>		500W		500W	
<b>Max. Speed</b>		15.5 mph	25 km/h	15.5 mph	25 km/h

# Package List



No.	Name	Qty.
A	Motorized Wheel	1
B	Bag	1
C	Control Hardware	1
D	Brake Levers	2
E	Lower Power Cable	1
F	Upper Power Cable	1
G	Cable Cover	1
H	Ties	5
I	Handlebar Grip with Thumb Throttle	1
K	Handlebar Grip	1
J	Pedal Assist Sensor	1

# Assembly

## Installing the Motorized Wheel

1. Make sure your bicycle is fully functioning and has a front or rear fork compatible with the model of your kit.



2. Turn the main frame of your bicycle upside down and separate the wheel to be replaced from the frame. Note that front and rear motorized wheels are not interchangeable. **DO NOT** replace your bicycle's front wheel with a motorized rear wheel or replace your bicycle's rear wheel with a motorized front wheel.
3. In the case of disc brakes, disconnect them from the removed wheel and attach them to the new motorized wheel (A). Make similar adjustments for other styles of brakes. Test the brakes carefully before use and **NEVER** use your motorized bicycle if its brakes fail to catch or perform badly during testing.

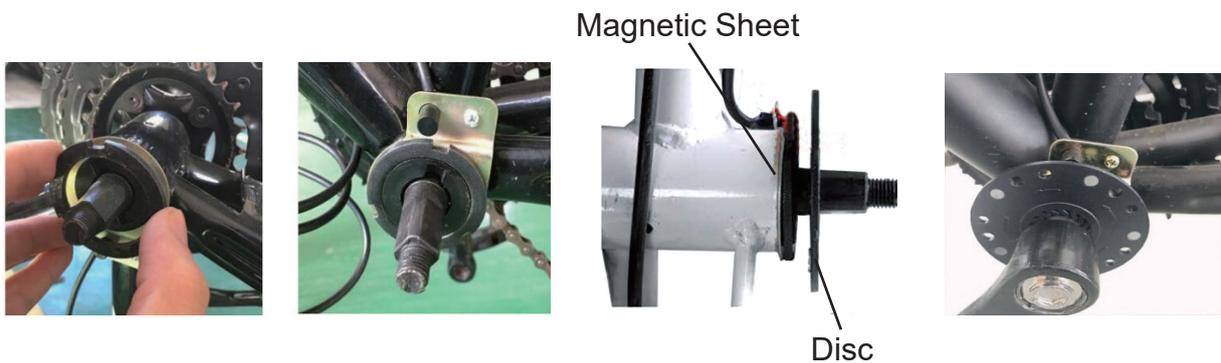


4. Loosen the caps, nuts, and washers on the motorized wheel hub.
5. Fit the motorized wheel onto the appropriate fork of the frame, securing it using its washers, nuts, and caps. Use an adjustable wrench/spanner (not included) as needed to fully retighten all fasteners. When installing rear wheels, attach your chain to the included cassette.



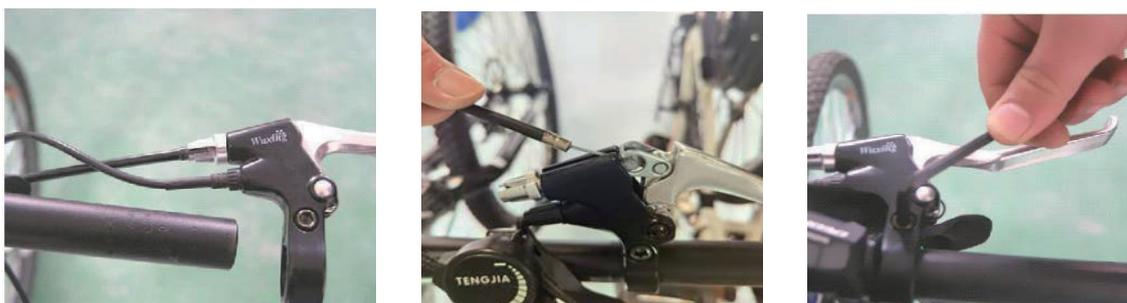
## Installing the Pedal Assist Sensor

1. Remove either crank arm from the pedal axle of your bicycle's main frame.
2. Attach the magnetic sheet of the pedal assist sensor (J) to the axle, sliding it completely forward.
3. Secure the magnetic sheet by mounting the removed washers back into place.
4. Fit the sensor disc onto the axle, keeping it 0.05–0.1 inches or 1–2 mm away from the magnetic sheet.
5. Replace the crank arm onto the pedal axle and secure it with its previously removed fasteners.



## Installing the Brake Levers

1. Disconnect the original brake levers from your bicycle. Separate them from their brake cables.
2. Open the clamp of one brake lever (D) by removing its nut and bolt with your adjustable wrench and M5 hex wrench/key.
3. Fit the appropriate brake cable to the appropriate handlebar for your jurisdiction. For instance, in the United States the left handlebar should control the front brake but in the UK it should control the rear brake. Close the clamp, replacing and retightening its previously removed bolt and nut.
4. Fit the brake cable onto the brake lever by passing its round metal head through this lever.
5. Install the other brake lever on the other handlebar and connect it to the other brake cable in the same fashion.

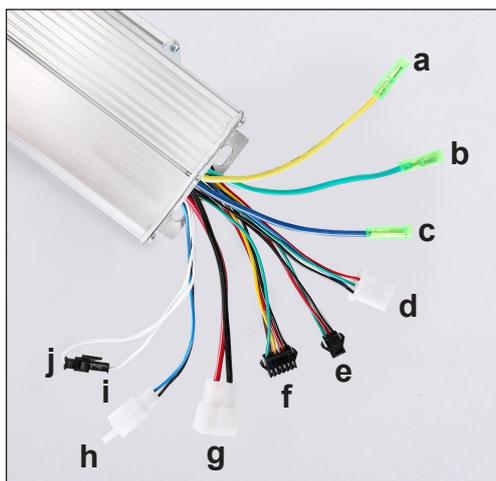


## Installing the Grips

1. Take off your bike's handlebar grips.
2. Slide the handlebar grip with thumb throttle (I) onto your right handlebar. Secure it with an M3 hex wrench/key.
3. Slide the other handlebar grip (K) onto your bike and turn it back and forth while pressing in until it is securely attached. This step can be skipped if your bicycle is incompatible with the inner diameter of the new handle (about 0.9 inches or 22.2 mm).



## Installing the Control Hardware

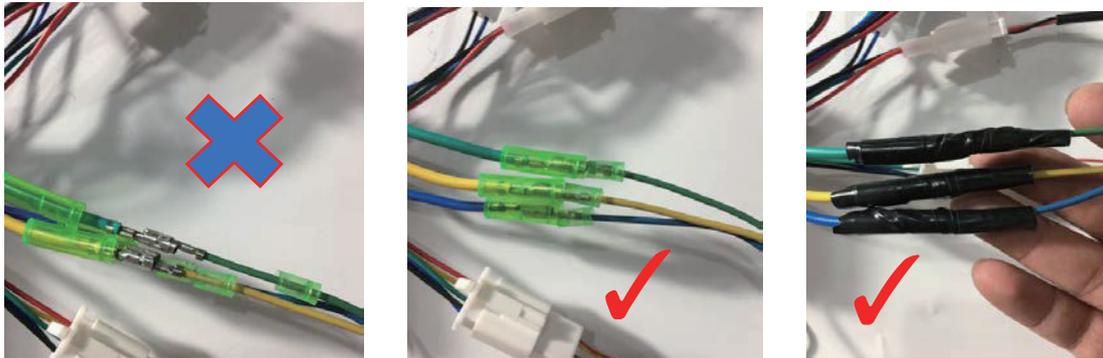


1. Fit the control hardware (C) into the provided bag (B), running wires a–j from the hole of this bag.
2. Connect these wires as shown:

No.	Wire(s)	Connector	Connected Part(s)
a	Yellow	Female, Silver	Motorized Wheel
b	Green		
c	Blue		
d	Green, Yellow, Blue, Black, Red	Female, White	
e	Green Black Red	Female, Black	Pedal Assist Sensor Sheet
f	Black, Red, White, Yellow, Brown, Green	Male, Black	Throttle
g	Black	Male, White	Positive Battery Cable Terminal
	Red	Male, White	Negative Battery Cable Terminal
h	Black, Blue	Male, White	Throttle
i	White	—	Wire i
j	White	—	Wire j

3. When connecting wires and terminals, be sure everything matches match exactly.

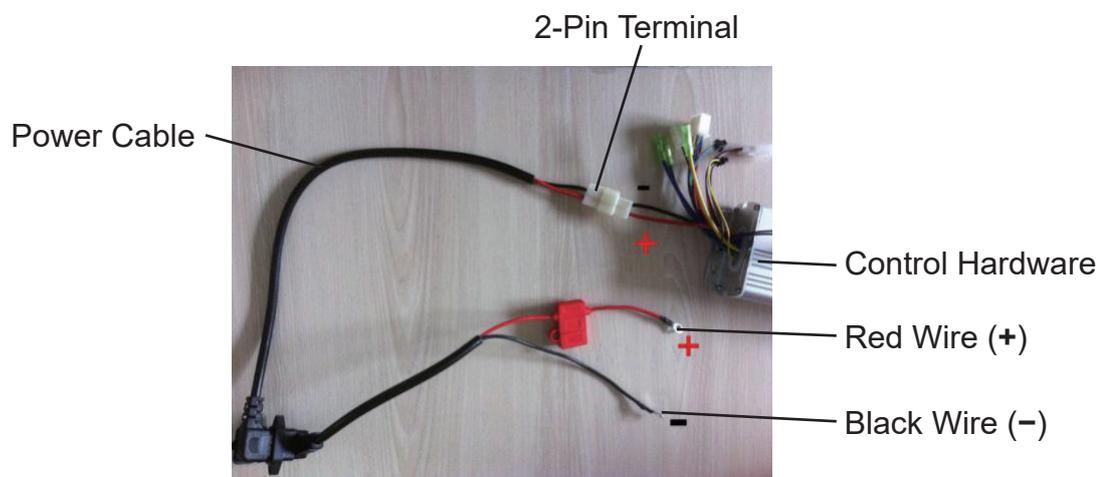
4. For exposed connectors (a–c), cover them securely with the provided sheaths and with electrical tape or other durable insulation. It is recommended that the cable cover (l) be used to join all the motorized wheel wiring after they are fully connected and wrapped.



5. Hang the bag from the main frame of your bicycle using its velcro straps.

## Installing Your Battery

1. Ensure that your bicycle battery is compatible with your model of motorized wheel.
2. Fully charge it according to its separate instructions.
3. Install your battery in a convenient position on your bicycle.
4. Connect the upper power cable (F) to the to the control hardware's battery cable (g) and then connect the lower power cable (E) to the upper power cable and to your battery's terminals, ensuring its red (+) and black (-) ends are securely attached to its anode and cathode respectively.
5. Fully insulate these connections.



## Binding the Wires and the Brake Cables

For best results, bind all loose wires and cables using the provided cover (J) and ties (K) with other fasteners.



## Operation

### Riding with Manual Control

To ride your bike normally, simply do not turn on the motorized wheel.

### Riding with Throttle Control

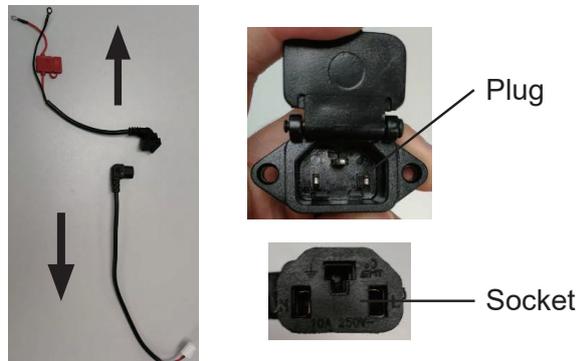
1. Hold the red button on the throttle until the battery light turns on to show your battery's power level.
2. Push the thumb throttle to activate the motorized wheel.
3. To speed up, push the thumb throttle further down. The bicycle will not exceed the maximum speed for its gear on flat pavement but may do so on slopes.

To slow down, ease the thumb throttle back up and/or press your brake levers. Pressing either brake lever completely will cut off all power from your battery to the motorized wheel, temporarily leaving it in neutral. Release the brake to restore power at its previous gear.

4. To stop your bicycle, release the thumb throttle completely and apply your brakes as needed.
5. To turn off the motorized wheel, release the throttle and brake levers while the bike is completely stopped. Hold the red button until the battery light turns off.

# Maintenance

- For best results, disconnect the motorized wheel from its battery between uses. While the wheel and battery are disconnected, close the plug cover.



- Check the parts for any signs of looseness, wear, or damage between uses. Tighten, repair, or replace any problematic parts before further use.
- Periodically clean all parts with a soft damp cloth. Do not use abrasive cleaners or caustic chemicals.

# Troubleshooting

Problem	Possible Solutions
Control Hardware Failure	1. Retighten the appropriate wire connection(s). 2. Replace the problematic part with a new identical one.
Motor Failure	
Throttle Failure	
Battery Failure	1. Recharge your battery. 2. Replace your battery with a new fully compatible one.

# Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at [help@cs-supportpro.com](mailto:help@cs-supportpro.com) and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



