



E Bike Power UK®

**250W, 350W, 1000W, 1500W, 2000W
M12 CASSETTE Kits**

E Bike Power UK®

Installation HANDBOOK

E Bike Power UK®

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Content

Safety Approval	01
Warnings	01
Disclaimer	01
Warrenty	02
Battery Care & Warnings	03
Tools Needed	04
Installation Guide	05-31
Specific Part Detail	CLICK HERE 
Our Manuls Click Here	--
Trouble Shooting	--
Contact Us	--

We own the rights to this manual, it has be created by E Bike Power UK LTD
If you see this being used by others it was us that created it

01 SAFETY & WARNINGS



Safety Approval

- All our battery are EN. ROHS & UN238.8 approved and tested.
- All our motor kits and accessories are full certified to EN standards
- To ensure the highest quality & safety

Warnings

- Please abide by your local E-Bike Laws.
- Install a bell
- Not subtitle for children under the age of 14
- Always wear the correct safety equipment, for example helmet, High visibility vest, belt, jacket or bright clothing. Grooves, Suitable footwear. kevlar pants, jacket coat.
- Use lights to help with visibility and others to see you.
- Some of our kits are for off road use only.
- Have respect for others around you.
- Maintain regular checks to your bike to ensure all components are functioning correctly & safely. If you have any doubts please consult a professional.

Disclaimer

- E Bike Power UK LTD do not take a liability to any damage caused to you other or your bicycle.

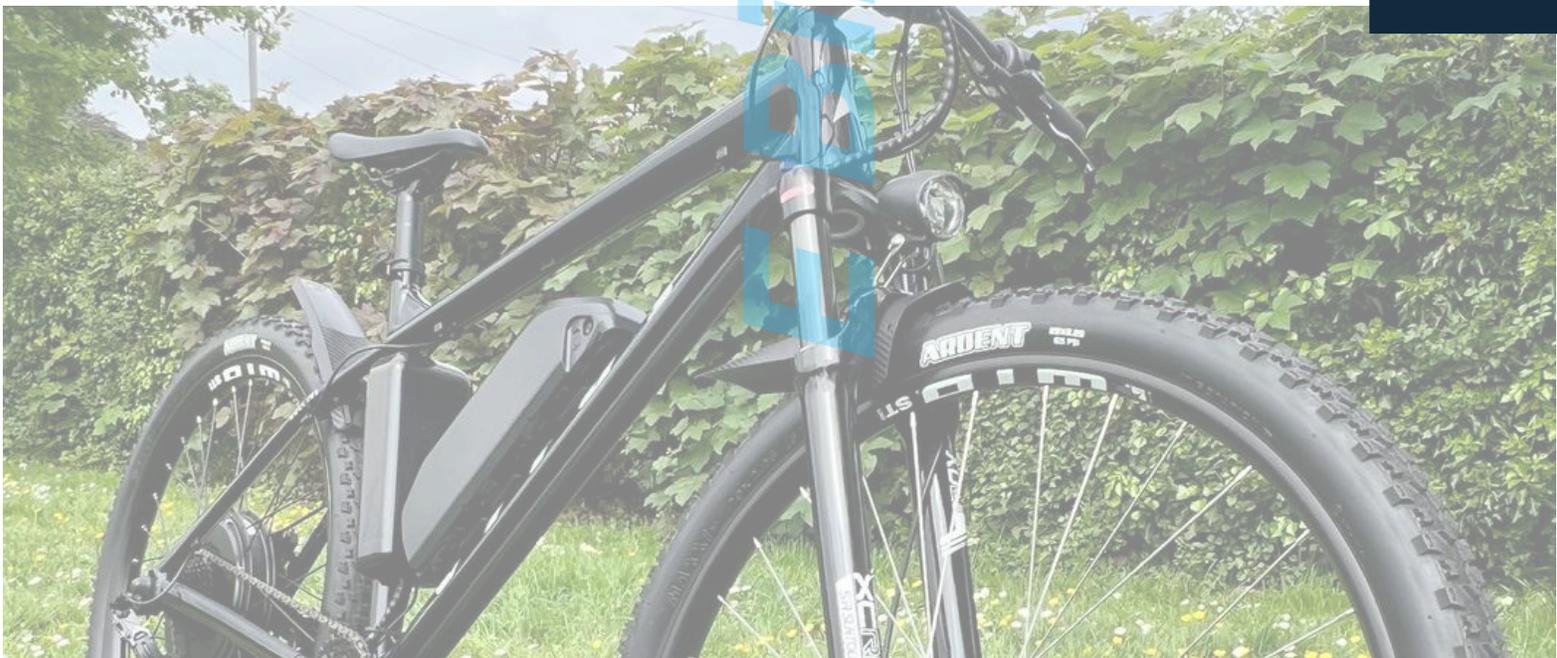


02 WARRANTY



Warranty

- Your warranty start from the day of delivery.
- We offer 12 months warranty on all our battery packs.
- 3 months warranty on all our motor kits & accessories.
- Warranty returns are paid by the buyer.
- In the event you need to make a warranty claim your warranty is only valid for the original delivery date.
- Your warranty will be void if you. Remove and on the original connection. Labels or logos without our consent. Water damage. Abuse or mistreatment use.
- Warranty will not cover abuse or water damage.
- If you remove any of the original OEM connectors or labels or open any closed parts without our consent your warranty will be void!
- The warranty is only covered if the manufacturer will deem the product is faulty.
- We have the right to recall any item if we or the manufacture deem there is any manufacturing defects.
- If you make a warranty claim in the warranty period & we offer you a replacement or a repair the warranty terms only stands for the original warranty period, The original order delivery date.
- Our warranty does not cover the resale of any of our products. The warranty is only offered to the original buyer. This only applies to verified "Wholesale Customers "
- All warranty repairs are covered by us.
- Buyer pays for the shipping.



03 BATTERY CARE & WARNINGS



Battery Care

- Do not charge your battery immediately after a ride. Let your battery cool for at least 1-2 hours.
- Only use the charger that has been supplied with your battery.
- Please contact your original battery supplier if you require a new charger.
- Please store your battery at room temperature, if you plan not to use your battery for more than 1 month, Do not store below 12 degrees.
- Optimal storage temperature is 55-65%
- Do not let the state of charge drop below 50% if you are not using your battery for more than 4 weeks at one time.

Charging

- Turn your battery off.
- Plug the charger in to your battery's charge port.
- Plug your charger into the mains outlet
- Turn on the mains outlet switch.
- Red light indicates your battery is charging.
- Green light indicates your battery is charged.
- Our chargers are designed to turn off automatically when the battery has reached its maximum voltage charge
- We recommend a charging bag for additional safety.
- We recommend to charge your battery under supervision.
- Turn your charger off after charging
- You can also refer to our battery manual.



Battery Warnings

- Do not charge your battery unattended.
- Charge your battery outside. In the garden, Carport, shed or garage.
- Do not leave your battery in Direct light
- Do not leave your battery in a hot room or car
- Do not submerge your battery in water.
- Do not drop your battery.
- Battery's will slowly discharge over time.



04 TOOLS

Your Tool Kit



1



2



3



4



5



6



7



8



1. Tyre pump, To suit your valve type.
2. Rubber Mallet.
3. Allen Key Set + Torx Set
4. Torque/Star drive set
5. Socket or Spanner set
6. Cable Cutters or Pliers, (cutting cable ties, Cable wrap)
7. Adjustable Spanner (Not Essential)
8. Super Glue (Possibly need for the Pedal assist sensor. Thread Lock Glue, Disc rotor bolts.



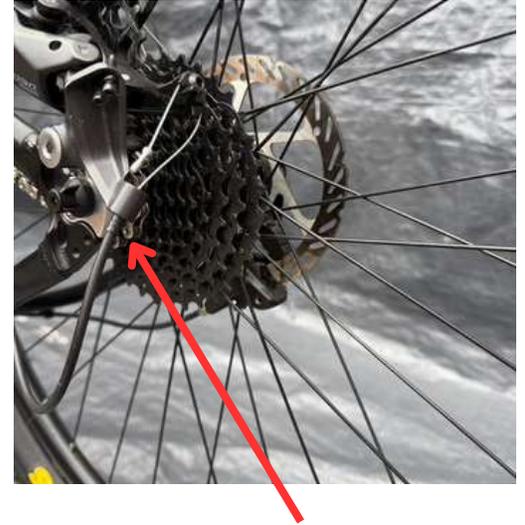
05 INSTALLATION GUIDE



1. Ensure you have a safe & fully functioning bike.
2. Flip your bike upside down on a flat & non slip surface



3. Drop your rear gear to the smallest gear. This will help you remove the rear wheel easier



4. Remove your rear brake caliper, this will make installing your wheel easier





5. Ensure your frame drop are clean, free from damage or any cracks



5, **WARNING!** If there are signs of damage or cracks, we would strongly recommend asking for a second opinion.

6. Use the tyre levers provide to remove your tyre & inner tube.

7. Re-install your tyre to your new wheel. **NOTE,** Tyre direction



8. Pump up to the correct PSI. 28-35 PSI is normal if you can find the original specifications on your tyre



9. Ensure your tyre is fitted correctly & is running the right way,



10. Remove your original brake disc. **NOTE, Please use good downwards pressure when losing these bolts**



NOTE, We recommend to use the original bolts from your original wheel,



12. Re install your brake disc to the hub motor. (NOTE do not use the plastic spacer) please dispose of this) Ensure to use thread lock on all six disc rotor bolts. **WARNING.** Please take care not damaged the motor cable when placing the disc rota over and along the motor cable.

Remove all 6 bolts



Remove the plastic spacer



Re Install your disc rotor, ensure the marking is facing you.

TIP, Re use your original disc bolts if possible, Use thread lock.

WARNING, ensure all 6 bolts are tight.



13. Ensure all 6 bolts are tight



09



14. Use the cassette tools provided to remove your cassette



Chain Whip (Provided)



Secure the Chain Whip

14. Undo the cassette locking ring



15. Slowly remove the locking ring



16. Remove the whole cassette in one stack

17. Grease the cassette & Cassette hub body.



10



18. Install your cassette



19. Install your cassette locking ring

1.



2.



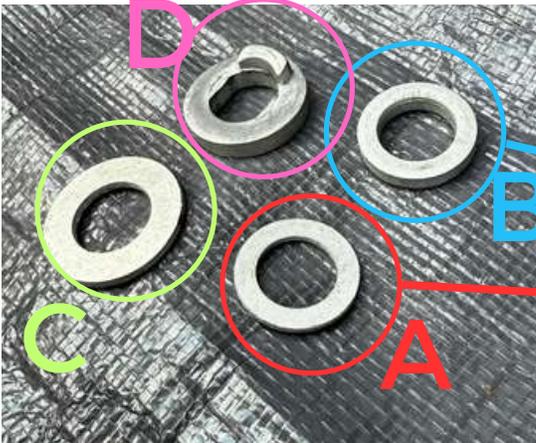
3.



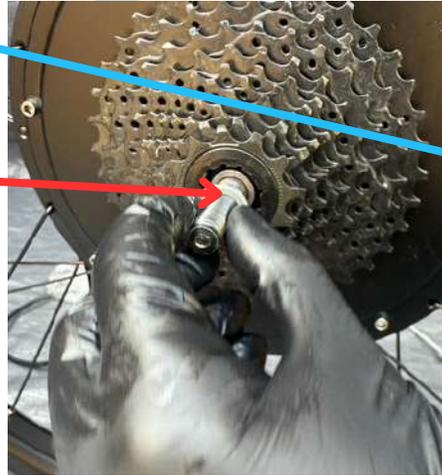
20. This is what you need before add the spacer to your axle.



21. Cassette side first. You need these 4 spacers.



Small thin spacer first



Small thick spacer second



22. It's important that if you use spacer A & B above, I need to protrude past the cassette locking ring as demonstrated here.



23. Spacer C will bind on the cassette if you do not use A & B spacers



24. Some cassettes there is no need to use spacer A.

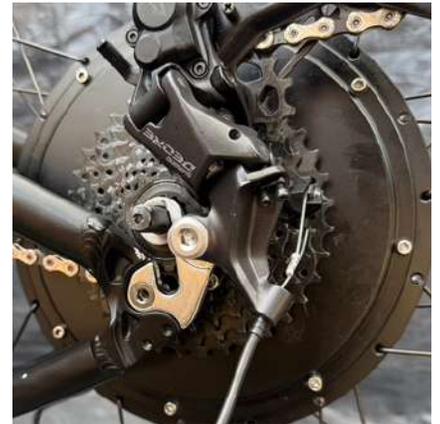
25 Installing the rear wheel.



Slowly lower the wheel down into the frame hold the derailleur back



Release the derailleur



You should have something like this



You need to pull the frame out with your fingers, Push the wheel away from you. Repeat this process both sides

The axle will slowly get closer to dropping down in the frames dropouts



You can use an adjustable spanner on the axle to move the axle back & forth this will help the axle drop in to position.

Use a mallet to tap the axle in place once the gap is almost closed

13

26. Ensure the motor cable is away from all moving parts, E.G, Disc, Disc bolts, Spokes, Tyre,



Slowly Spin the wheel to check if there is nothing rubber or unusual noises.

27. If all is good, then slowly turn the peddles to ensure the wheel is spinning as in should.

28. Time to install the Torque Arm & tighten the the wheel axle nuts

PLEASE NOTE, Click here to see the link to our other manuals

As the Torque Arms we are installing on the bike may differ to yours



[CLICK HERE](#) 

PLEASE NOTE, This is our manul section, you will need to look for the manual you need



Heads up!

This manual isn't 100% finished yet – we're still adding more cool stuff.

But don't worry, what's here already will help you get your build up and running.

 **The most important bit is installing your wheel the right way – and you've got all the key info for that just above.**

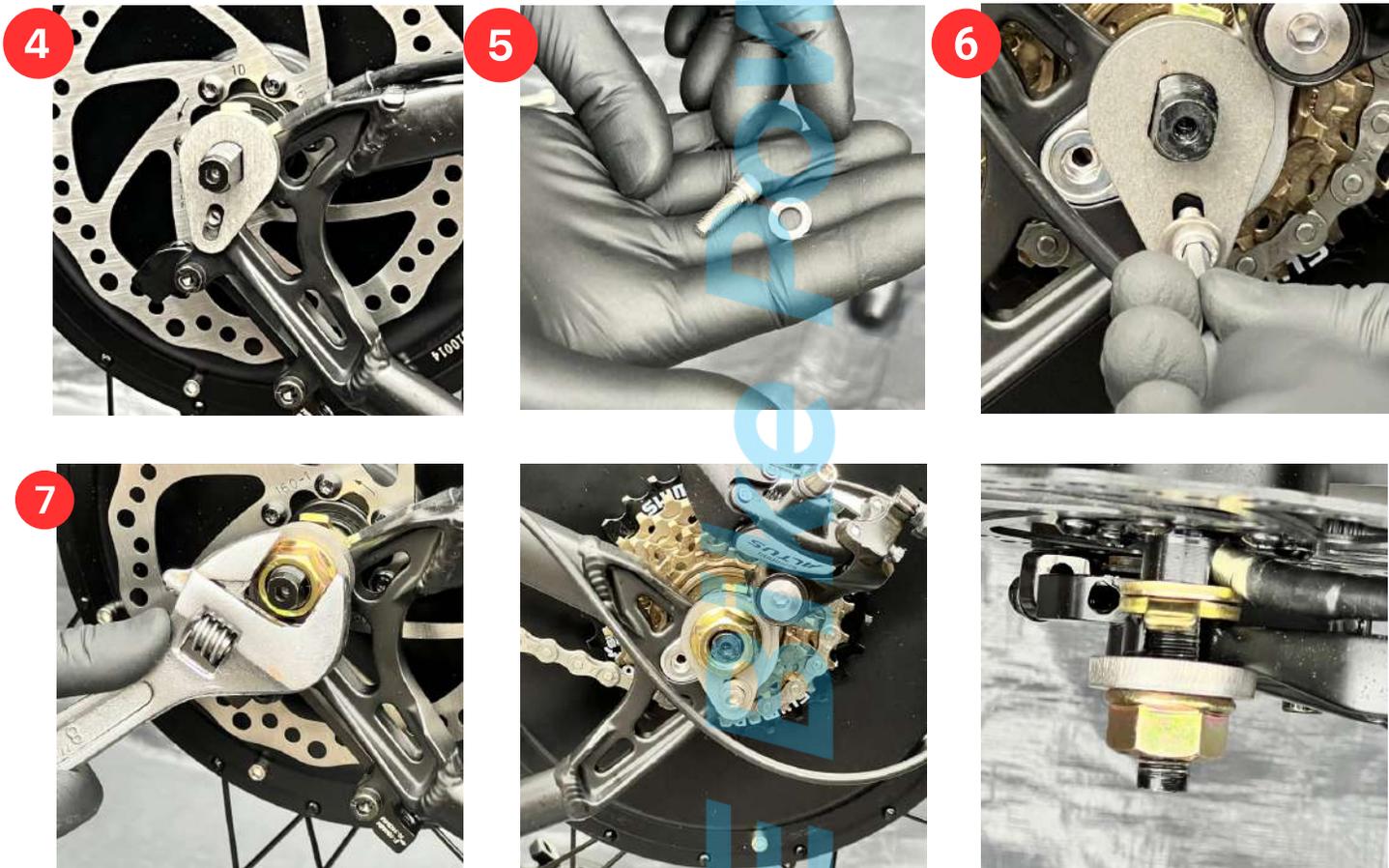
 **Stuck or unsure about something? No stress – just reach out to us and we'll help you out!**

15

Type three supplied with 1500W 2000W kits



Image 3, you can use a spanner on the axle to move the axle back & forth to help line up the fixing hole in image 4.



Type three is best suited to a flat style frame with a small offset hole.



16

24. Ensure both axle nuts are tight, 50 Nm if you have a torque wrench.



25. Re install your brake caliper



TIP. Apply your brake to centralize your brake caliper.

TIP. If you need to fine tune your caliper you can add a 6mm washer here.

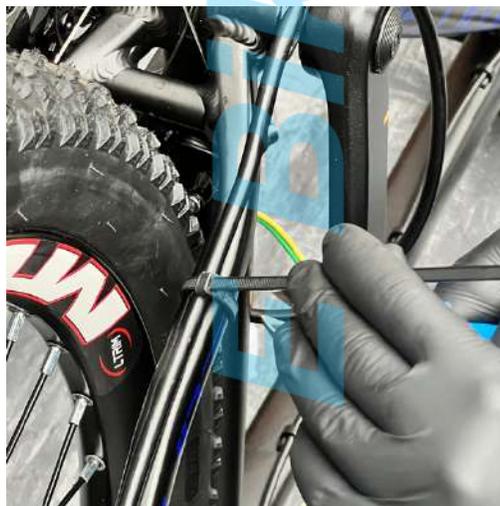
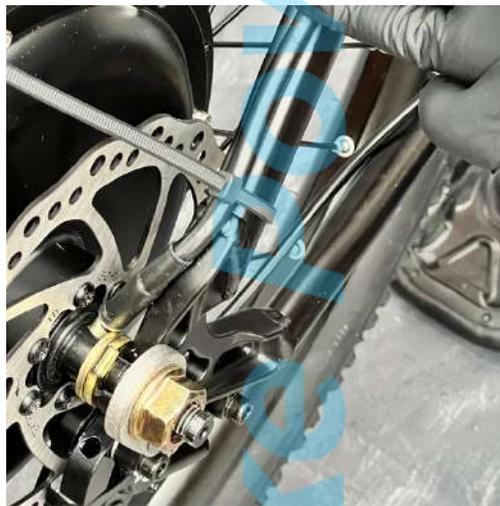


17

25. Now spin the wheel slowly by hand & visually look and listen for any signs or catching or rubbing



26. Route your motor cable, Fix a cable tie around 4 inch intervals.



Cut the excess cable tie

WARNING. Do not do these too tight, enough to hold the motor cable in place.



These are some examples.

Best practices to use the longest route possible, to avoid any excesses cables in the controller bag or box.

WARNING, Do not coil the motor cable as this can get hot.

There is no rule to suit all bikes on this, as the frame size and controller placement will differ bike to bike.

27. You will need to adjust your derailleurs to ensure your gears are working correctly.

WARNING, SHIFT THE GEARS SLOWLY TO AVOID THE DERAILLEUR HITTING THE MOTOR.



The high & low limit screws are designed to stop your derailleurs from over travel.

derailleurs to differ bike to bike.

If your having issue, we would recommend contacting a local bike shop or someone with a good understanding of bike maintenances

19



28. Install the pedal assist sensor, Skip this step if you don't want to install the sensor.

THIS IS THE NON DRIVE SIDE

You will need the crank removal tool that we supply with ever kit



Remove the cover cap

Remove the crank bolt

insert crank tool

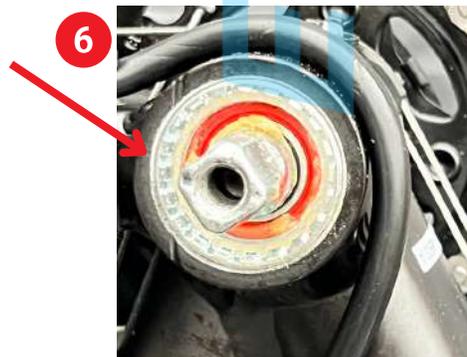


NOTE, Ensure the thread is clean
Do not cross theard
Ensure the black part is fully in.

Tighten the silver parts slowly
This will pull the crank arm off
the crank shaft



Ensire the face is clean



20

Take your sensor & magnet ring, Apply a bead of glue on the back side of the sensor



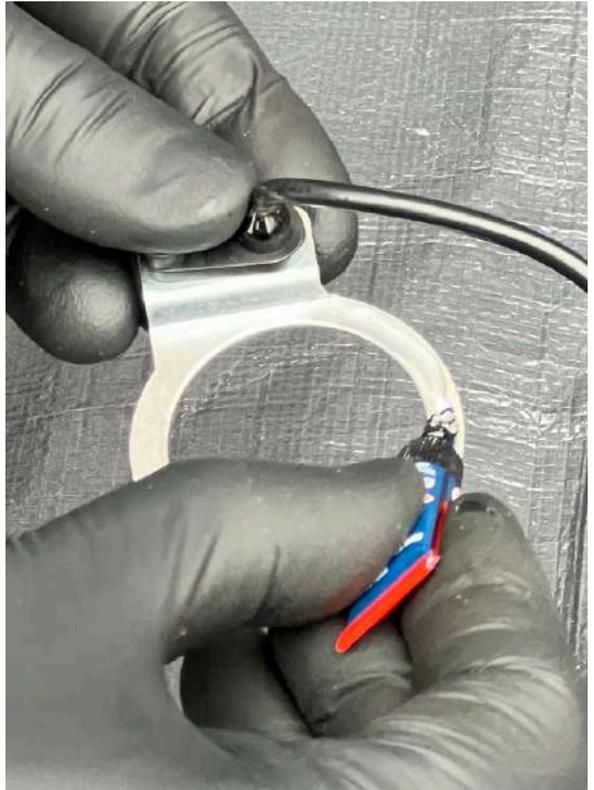
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8

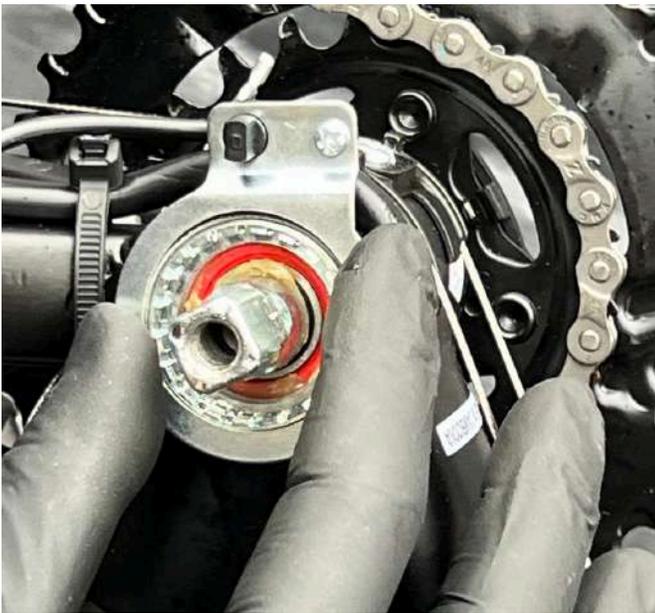


9



Hold the sensor in place while the glue starts to work

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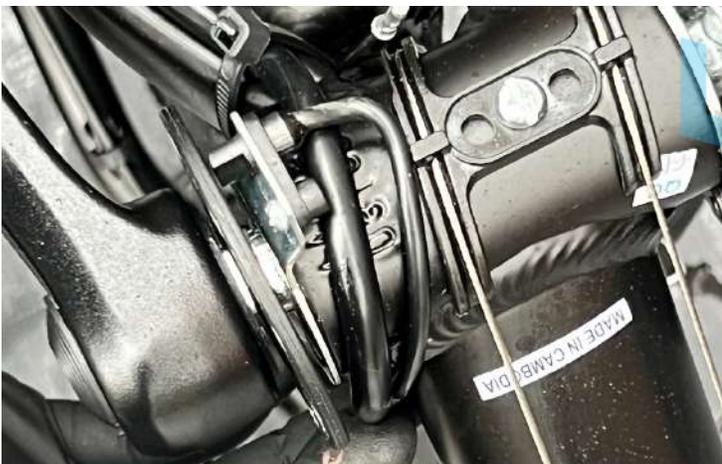
Install the magnet ring so the arrows are facing you & are running anticlockwise

11



you will need a 1-2 mm gap between the magnet ring & sensor

12



21

29. Install your battery. Flip your bike the correct way & ensure its stable & will not fall or roll.



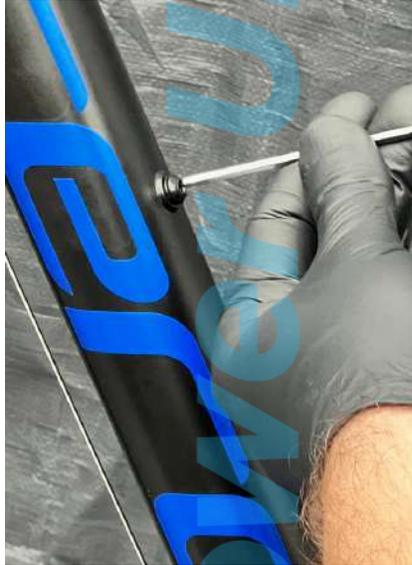
Remove the bolt hold bolts

Place the rubber pads one on each hole

1



2



3



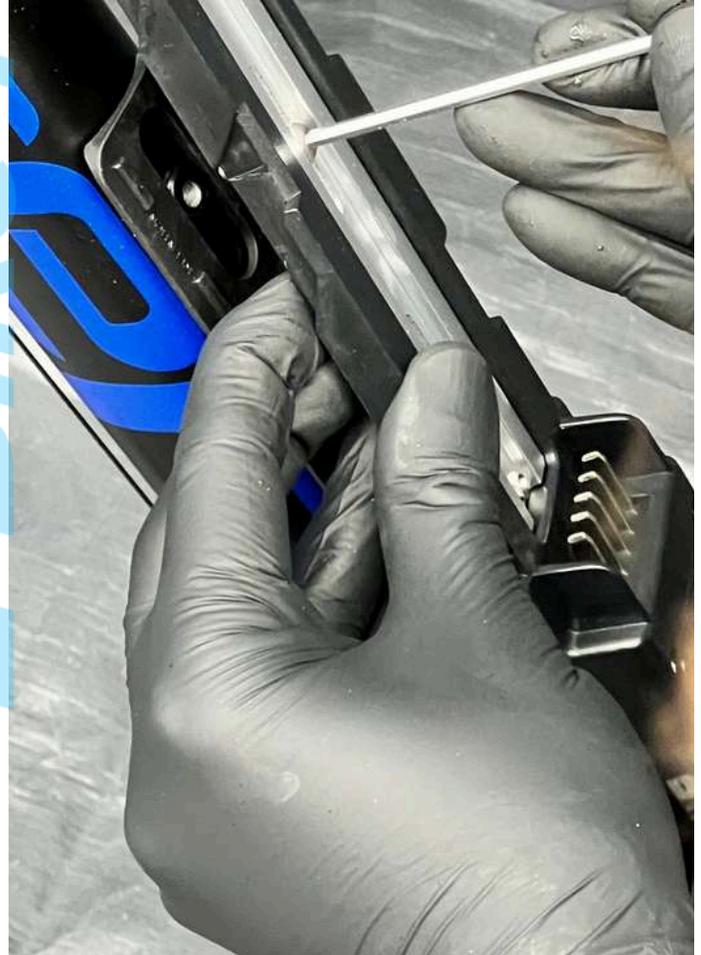
Line up the battery base to your desired position

Tighten down the base with the two M5 x 15mm bolts supplied

4



5



22

You will need to slide the battery base up or down to sure a perfect fitting battery.



Range of movement



Position the top of the battery, so it drops in place



Drop the bottom of the battery in place



Push the battery down to close this gap



check the gap between your frame & battery you need a gap to ensure your battery locks correctly



Use the key to lock your battery



Adjust the base if your battery will not lock into place



48V 13ah example



48V 20ah & 52V 20ah example



24

30. Mount your display.



Most bikes have a 31mm handle bar, If yours is smaller, please use the rubber inserts provided

Slowly stretch the display mount bracket over your bars



Repeat on the second side

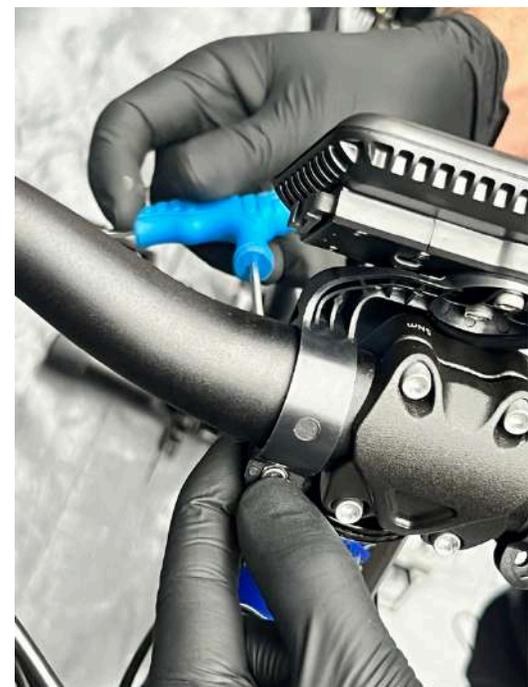


The 2 larger allen bolts & nyloc nuts

Insert the nut in the the hex shape side



Hold in place with your thumb & tighten with a 3mm allen key



Install the display control panel

WARNING. Do NOT over tightened these bolts



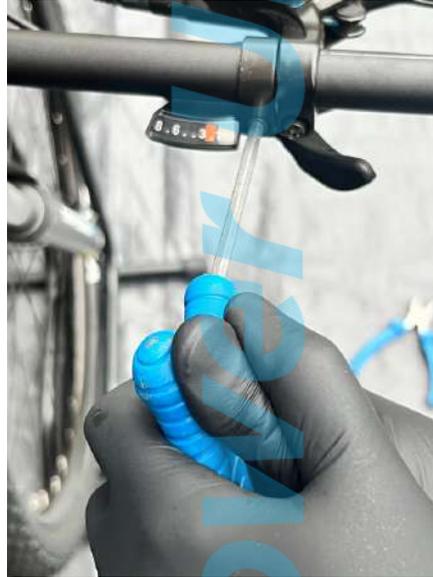
Repeat on the second side

25

31. Installer your throttle.



Remove your old grips & loosen your brake levers & gear shifter controls



It can be tedious to remove your old grips, Use a lubricant to help work your old grips off

Use a lubricant to help work on your new left hand grips.



26

31. Install your throttle.

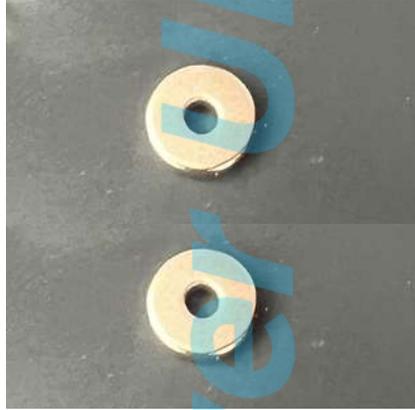


Slide the throttle over your bars
Move to your desired position.

3mm allen key to lock the throttle in place



32. Brake sensors, Skip this part if you are choosing not to use them. These are designed to fit many types of cable & hydraulic brakes
NOTE. It can be difficult to install to some models of bikes.

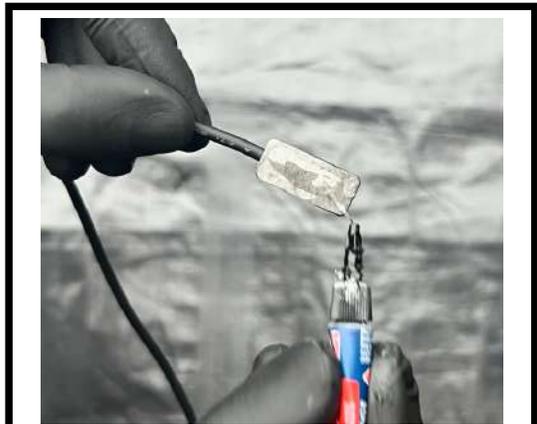


Remove the red protective film from the back of the sensor



Stick the sensor in position.
NOTE. ensure the area is clean & grease free.

This is what you need to achieve for the sensor to work correctly.
NOTE. The sensor need to be attached to the main body of the brake structure.



You may need to add some glue to help the sensor stick securely.



Add a cable tie to help hold the sensor in place while the glue dries.
TIP. We would recommend leaving the cable tie in place

28

Magnet install



Add a dap of glue to the magnet



Remove the adhesive paper from both sides of the small sticky pad provided



Position the magnet on to your brake lever, Note this needs to be as close as possible to ensure that the sensor will work correctly.



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29



33. Cable management. Use the cable wrap & cable ties provided to keep all the cable protected, clean & positioned safely.



If you have this style plug, we would recommend not to wrap this.

This will make it easier if you have need to remove the display

Keep widening the cable wrap to make all your cables nice a tidy.

You can also wrap the cable to any brake or gear cable line if you wish.

We recommend to route your cables to where you have planed to mount your controller.



30

Cable management.



Utilizes the frames cable points (where possible) to hold the routed cables in place.

Cut down any cable ties

BOUBLE CHECK EVERYTHING IS TIGHT

ENKOY & RIDE SAFE



31

Controller management.

Now connect all the relevant components,
Motor Phase, MT60
Motor Hall, 6 Pin,
Throttle. 3 Pin,
Display. Flat 5 Pin,

If you have opted to install the below.

Pedal assist sensor

Brake sensors

Headlight (If supplied)

Remote limit switch.

Please don't be intimidated by the wiring.

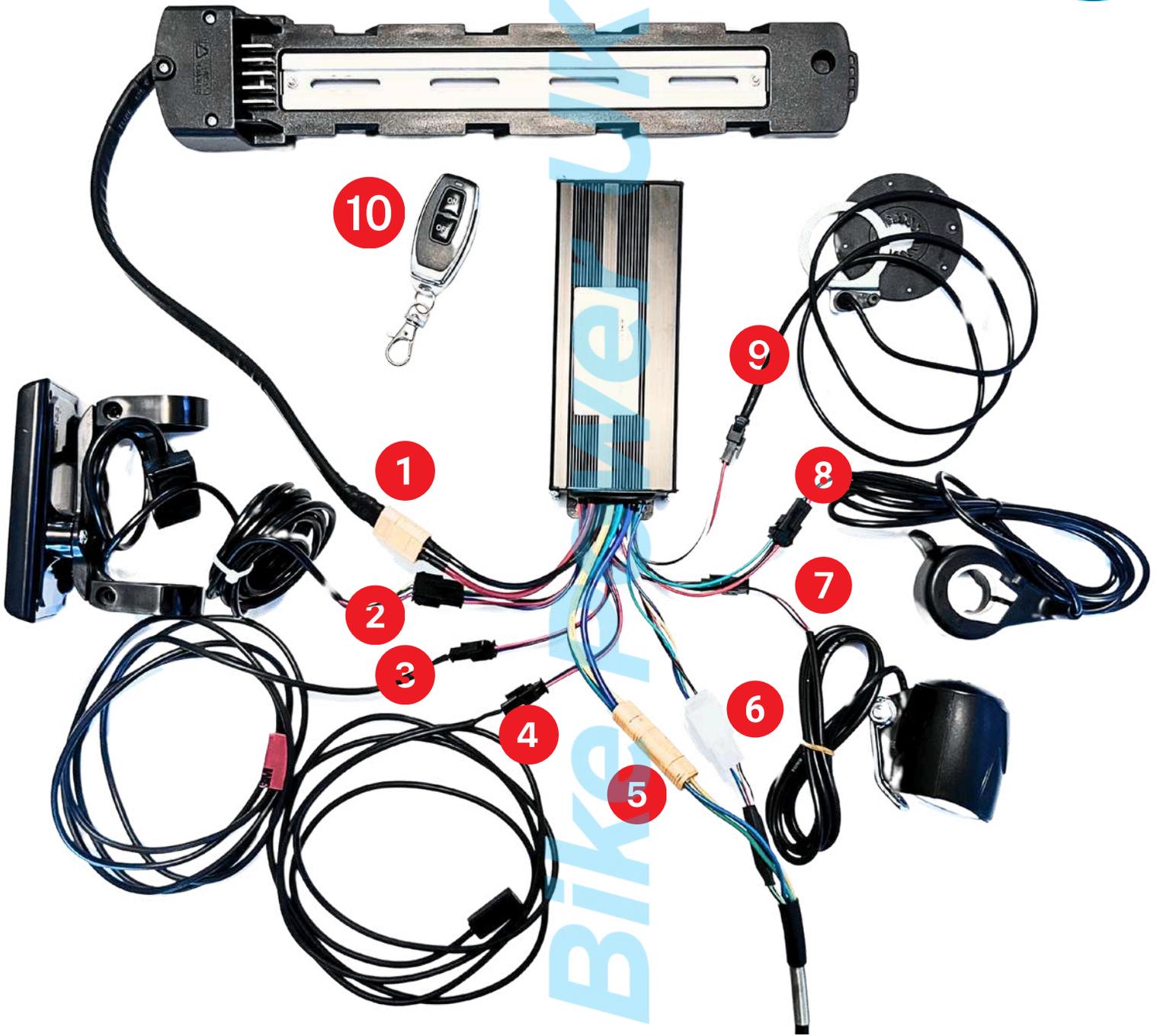
We have designed all the connection to only connect to there designated function.

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32

1000W 30A CONTROLLER



- 1. BATTERY
- 2. DISPLAY
- 3. BRAKE
- 4. BRAKE
- 5. MOTOR PHASE
- 6. MOTOR HALL
- 7. HEADLIGHT
- 8. THROTTLE
- 9. PEDEL ASSIST

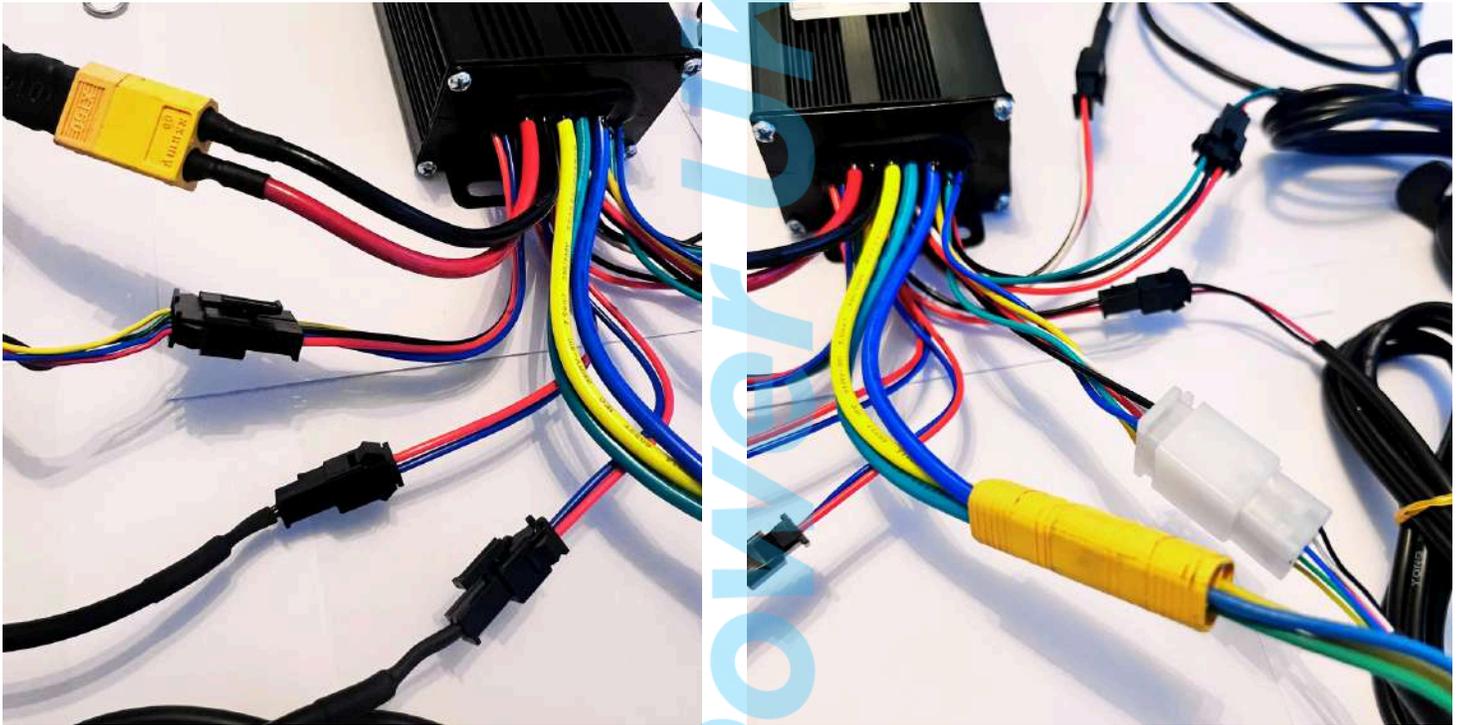
10. IS THE REMOTE KEY

THERE IS ONLY ONE KEY, SO PLEASE
LOOK AFTER THIS,

IF YOU LOSE THIS KEY YOU WILL HAVE
TO BUY A NEW CONTROLLER IF YOU
WANT THE KIMIT FUNCTION TO WORK

33

30A CONTROLLER CONNECTIONS



PLEASE NOTE, KEEP THE MOTOR PHASE CABLE AWAY FROM ALL THE OTHER CABLES AS THIS CAN GET HOT



35 1500W CONTROLLER

Please see our User Manual at
<https://ebikepoweruk.com/user-manuals/?v=7885444af42e>



35

DISPLAY TYPE



UKC1



SW900 NON COLOUR



SW900 COLOUR



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FOR MORE IN DEPTH INFORMATION PLEASE HEAD OVER TO OUR WEBSITE]
TO THE USER MANUAL SECTION

<https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

36 SPECIFIC PART DETAIL



Display

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Controller

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Battery

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Pedal Assist

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Brake Sensors

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Torque Arms

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>

Throttle

- Please see our User Manual at <https://ebikepoweruk.com/user-manuals/?v=7885444af42e>



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