

1000W, 1500W, 2000W M14 Freewheel Kits

Installation HANDBOOK

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01 SAFETY & WARNINGS



Safety Approvel

- 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



- · 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 charger 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 your planing 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 your 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







- 1. Tyre pump, To suit your valve type.
- 2. Rubber Mallet.
- 3. Allen Key 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

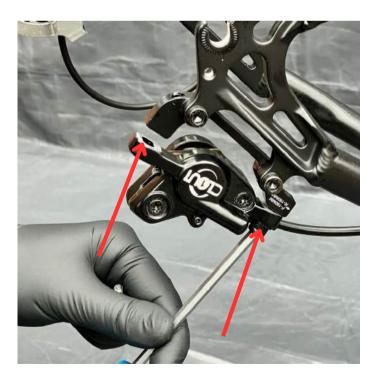


3. Drop your rear gear to the smallest gear. This will help you remove the rear wheel easier





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 cranks, we would strongly recommend asking for a second opinion.
- 6. User 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



10.Remove your original brake disc. NOTE, Please use good downwards pressure when losing these bolts 9. Install your freewheel. WARNING. Be Careful not the cross thread this. NOTE, This will self tighten when ringing.







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. Install one flat gold spacer





14. Install one locking spacer







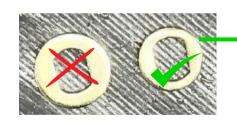
15. Install your freewheel, This will be a clockwise direction thread, WARNING, Do not cross thread this,

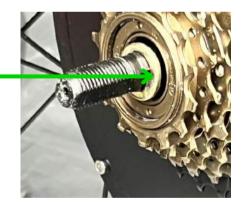
NOTE, Some kits come already installed.

NOTE, This will self tighten once you start riding.

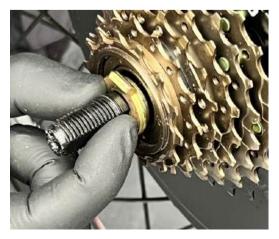


16. Install one small flat spacer





17. Install the locking washer









18. Install the rear wheel.



The motor cable needs to face away from you and run along the bikes frame.

The locking washer need to be facing up Use your left hand to hold the chain up out the way, your right hand to lower the wheel in place.



19. Your wheel is in roughly in the right postion.





20. Now use your thumb or the palm of your hand to apply pressure to the end on the motors axles, your finger to pull the frame out so your axle will drop into the wheels dropout slot.

Repeat this process on the other side.

TIP. You can use your order hand to help position the wheel in to place.





Ensure the gold spacer are setting between the inside of your frame & the motor.





TIP. You can use a spanner on the flat sides of the motor axle to rock back & fouth to help the motors axle drop in place.



21. Use a rubber mallet to tap both sides of the axle down to close the gap as best as possible.









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





23. Torque arms. Torque arms are designed to strengthen your frames dropout & evenly distribute load through your bikes frame

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We off 3 types,

Type one supplied with 1000W kits



Type two supplied with 1500W 2000W kits



Type three supplied with 1500W 2000W kits



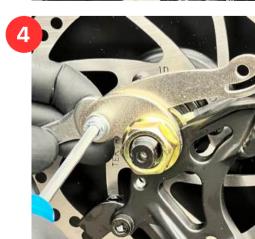
These are designed to be universal, however there are many ways to fit these, we will demonstrate some examples

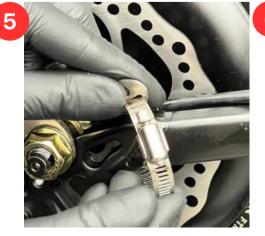
Type one supplied with 1000W kits







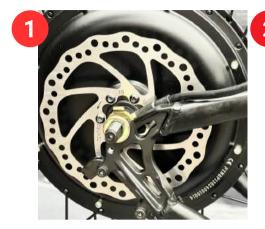






Type two supplied with 1500W 2000W kits







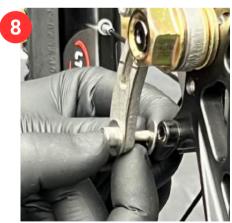


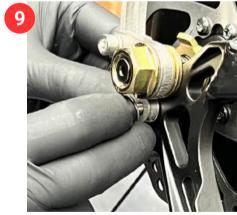
















Type two is best suited to a step style frame

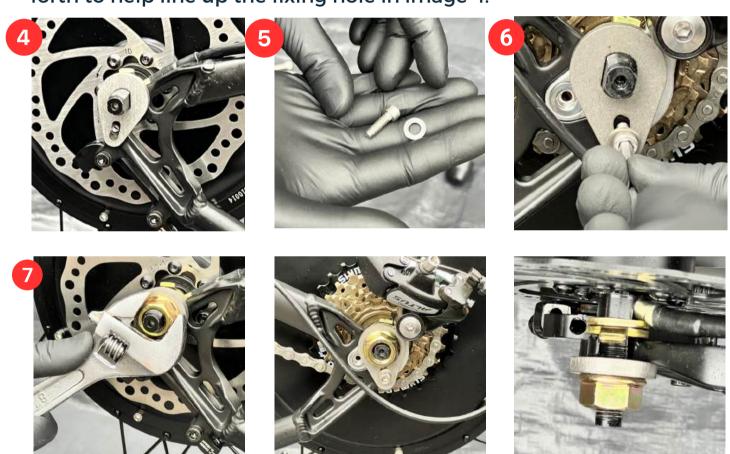






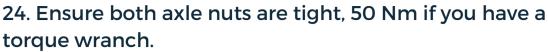


Image 3, you can use a spanner on the axle to move the axle back & forth to help line up the fixing hole in image 4.

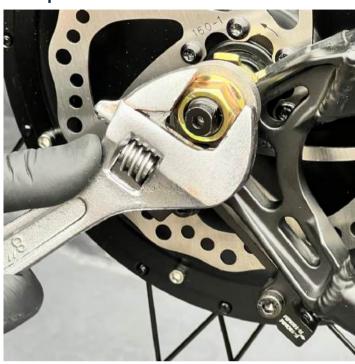


Type three is best suited to a flat style frame with a small offset hole.











25. Re install your brake caliper







TIP. Apply your brake to centralize your brake caliper.

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





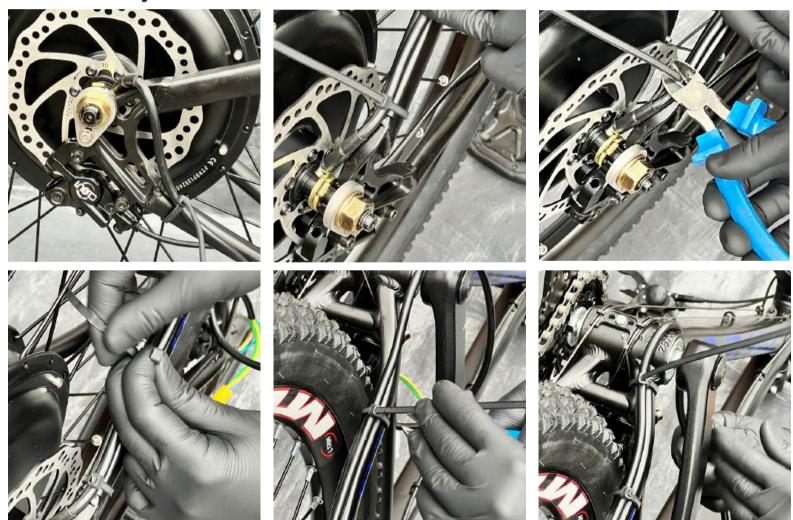
25. Now spin the wheel slowly by hand & visually look and listen

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

1826. Cable route examples







These are some examples.

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

WARRING, 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 derailleur to ensure your gears are working correctly.

WARRING, SHIFT THE GEARS SLOWING TO AVOID THE DERAILLEUR HITTING THE MOTOR.





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

derailleur to differ bike to bike.

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



THIS IS THE NON DRIVE SIDE

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

Remove the cover cap



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



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









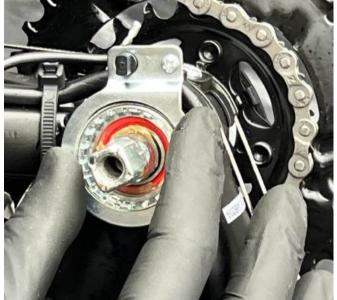


9



Hold the sensor in place while the glue starts to work





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





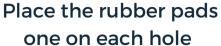
you will need a 1-2 mm gap between the magnet ring & sensor



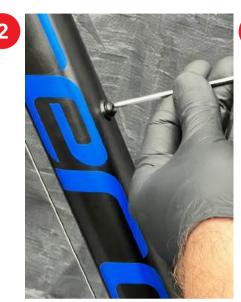


29. Install your battery. Flip your bike the correct way & ensure its stallbe & will not fail or roll.

Remove the bolt hold bolts

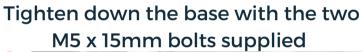




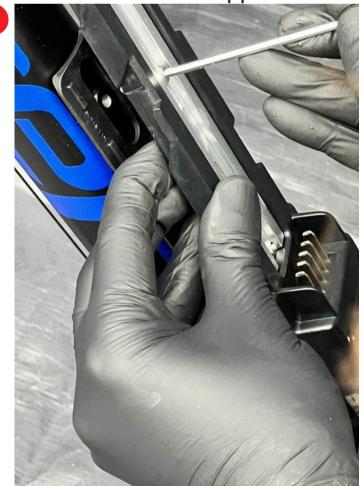




Line up the battery base to your desired position







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









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



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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



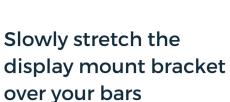
48V 20ah & 52V 20ah example



30. Mount your display.



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





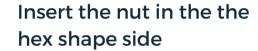
Repeat on the second side



The 2 larger allen bolts & nyloc nuts



Install the display control panel





WARRING. Do NOT over tightened these bolts



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



Repeat on the second side

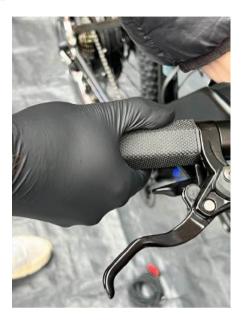
31. Installer your throttle.



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

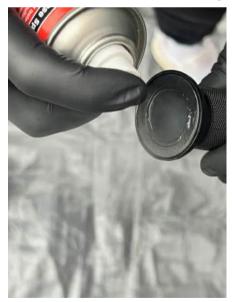


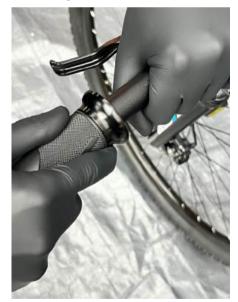




In can be Tedious to remove your old grips, Use a lubricant to help work your old grips off

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







31. Installer your throttle.







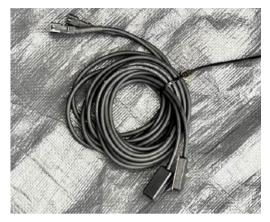


Slide the throttle over your bars Move to your desired position.

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.





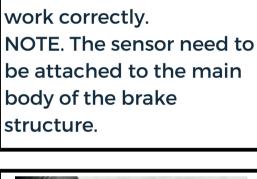




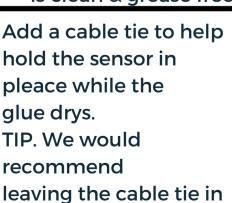
Remove the red protective film from the back of the sensor



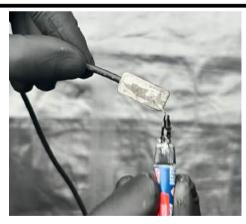
Stick the sensor in position.
NOTE. ensure the area is clean & grease free.



achieve for the sensor to



place

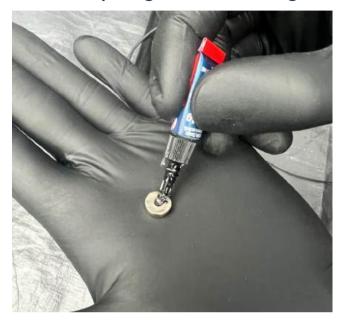


You may need to add some add some glue to help the sensor stick securely.

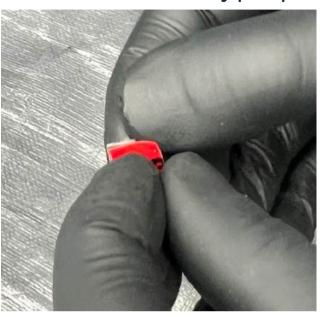




Add a dap of glue to the magnet



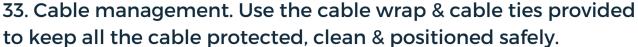
Remove the adhesive paper from both sides of the small sticky pad provided

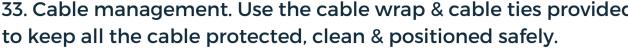


Position the magnet on to your brake lever, Note this needs to be as close as possible to ensure that the sensor will work correctly.















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

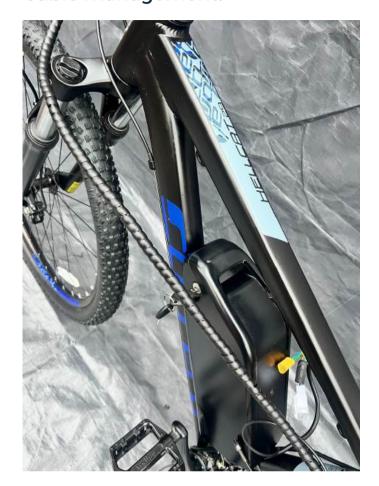
You can also wrap the cable to any brake or gear cable line if you wish.

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



30Cable management.







Utilizes the fames cable points (where possible) to hold the routed cables

in place.

Cut down any cable ties

BOUBLE CHECK EVERYTHING IS TIGHT

ENKOY & RIDE SAFE



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.

1000W 30A CONTROLLER





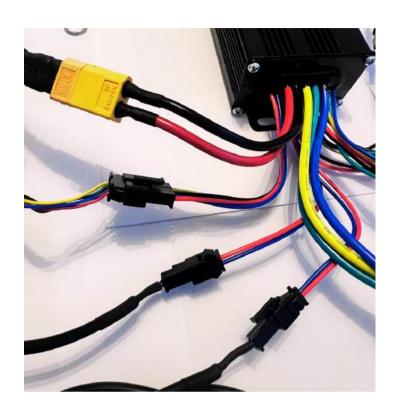
- 1.BATTERY
- 2. DISPLAY
- 3.BRAKE
- 4.BRAKE
- **5. MOTOR PHASE**
- **6. MOTOR HALL**
- 7. HEALIGHT
- 8.THROTTLE
- 9. PEDEL ASSIST

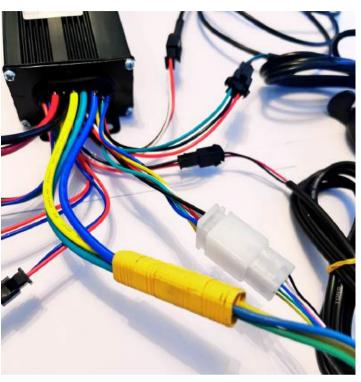
10. IS THE REMOTE KEY

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







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



35DISPLAY TYPE



UKC1



SW900 NON COLOUR



SW900 COLOUR



FOR MORE IN DEPTH INFORMATION PLEASE HEAD OVER TO OUR WEBISITE]

TO THE USER MANUAL SECTION

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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