



ELECTRIC BICYCLE

Bodywe BW-T16PRO



User's Manual

ENGLISH MANUAL



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1. Preface

1.1 Welcome

Congratulations on your purchase of a Bodywel® E-Bike and welcome to the Bodywel community.

Bodywel is committed to providing electric bicycles with state-of-the-art design, and world-class quality. Our corporate goal is to offer everyone a happy and enjoyable ride, which will form some of your memorable moments in your life. Either riding along the beach with loved ones, or riding in a national park with grand-children will all become a source of happiness when you recall such moments down the road in life. It is this commitment to our customers that inspires us to constantly improve the quality of our products and services, and to continuously innovate in order to serve our customers better.

1.2 About this manual

This manual contains important safety, performance, service and maintenance information. Please read all information in this manual before you start riding your new e-bike. Please pay full attention to the safety instructions in this manual and do not overlook them. This manual would give you a thorough understanding of the general functionalities and features of the e-bike and how it should be operated and maintained.

1.3 Symbols used in the manual



WARNING: Warns about a situation that can cause death, serious physical injury and/or material damage if one does not follow the safety instructions.

1.4 Service & technical support

If you have questions after reading this manual, please contact the Bodywel Help Center.

We are always here to support you.

Bodywel Help Center:

- www.bodywel.com

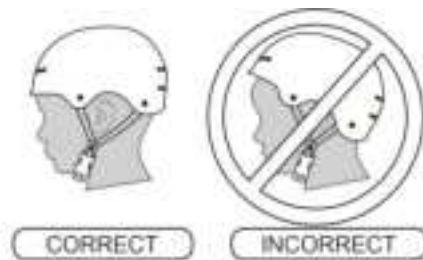
- www.bodywel.co.uk

Happy Riding Bodywel® ,

2. Safety

2.1 Safe Use of the E-bike

- 1) You need to check the traffic rules and regulations in your area, including but not limited to regulations about bicycle lighting, licensing of e-bikes, riding on sidewalks, laws regulating bike path and trail use, helmet laws, child carrier laws, special e-bike traffic laws. It is your responsibility to know and obey the laws.
- 2) Always wear a helmet when riding your e-bike. Ensure that the helmet fits your head and is securely tightened down. If you attach a seat for children to the e-bike, they must also be wearing a properly fitted helmet at all times.



Always read the user manual of the helmet to make sure it is fitted and attached properly to the wearer's head according to the fitting instructions described in the user manual.



Warning: Failure to wear a helmet when riding may result in serious injury or death.

- 3) Before using the e-bike on the road, ride the e-bike in a secure area to get familiarized with riding the e-bike with electric pedal assistance and its functionalities.
 - Conduct mechanical and electrical checks following the before riding checklist in Section 4 of this manual to ensure the e-bike is safe to use.
 - This bicycle is made to be ridden by one rider at a time for general transportation and recreational use. It is not made to withstand the abuse of stunting and jumping.
 - Wet weather impairs traction, braking and visibility. The risk of an accident is dramatically increased in wet conditions. Ride slowly with caution, especially when turning.
 - Riding a bicycle at night is much more dangerous than riding during the day. It is recommended to not ride at night if possible. If you indeed to ride at night, you need to install a tail light on the e-bike and ensure it has sufficient battery power. Ride at slow speed. Do turn on the head light, and tail light when riding at night. It is recommended for the riders to use additional night lighting system such as flashing light on helmet, adding additional reflectors on the e-bikes on all facets.



Warning: Keep both hands on the grips on the handlebar and the brake levers within reach while riding. Failing to do so can cause you to lose control over the e-bike, and may cause serious injury or death.



Warning: Never exceed the maximum permissible load of the e-bike. Failing to do so may result in structural failure, and cause serious injury or death.



Warning: When pushing the e-bike on pedestrian pathways, the rider needs to turn off the power to avoid any accidental activation of the electric motor, which may result in injury to you or other pedestrians.

2.2 Battery and Charger Safety

- Keep the battery & charger away from water, open window, and open fire.
- Do not use the battery & charger for other purposes other than powering the e-bike.
- Only use the original charger to charge the Bodywel e-bike battery.
- Do not connect terminals.
- Do not open the battery casing.
- Do not attempt to repair the battery unless you are a specially trained and licensed technician.
- Keep the battery away from children and pets.
- Avoid shock and impact to the battery & charger (e.g. by dropping, smashing).
- Stop the charging procedure immediately if you notice a strange smell or smoke.
- In the unlikely case that the battery is on fire, do NOT try to extinguish with water. Use sand or Carbon dioxide extinguisher instead and call emergency hotline immediately.



Warning: Water may cause the short circuit to the battery, may result in fire and other consequences. Avoid water when using or handling batteries

2.3 Changing Components or Adding Accessories

- Changing the components on your e-bike with non-genuine replacement parts may compromise the safety of your e-bike and may void the warranty. Check with Bodywel customer service before changing the components on your bike
- Please take note that the use of a third-party trailer may cause extra load stress on your e-bike, which may affect the safe use of your e-bike. Do not modify any original parts of the e-bike to accommodate a third-party trailer. Do not exceed the total permissible load weight of the e-bike as stated elsewhere in this user manual.
- Please note that the use of a child seat can cause extra load stress on your e-bike, which may affect the safe use of your e-bike. Do not modify any original parts of the e-bike to accommodate a third-party child seat. Do not exceed the total permissible load weight of the e-bike as stated elsewhere in this user manual. If a child seat is used, there is a risk of trapping the child's fingers or feet into the wheel. Please take appropriate steps to prevent the trapping of the child's fingers or feet. Always follow the child seat manufacturer's instructions for installation, usage and safety.

2.4 Tuya Smart APP

- The application used to control Bodywel e-bike is named “Tuya Smart”. Pleased download this app from the Google Play Store or Apple iOS Store. Below is the app icon.



Download APP



Tuya Smart

3. Unboxing & Assembly

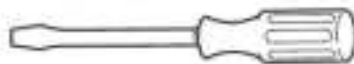
Tools Needed



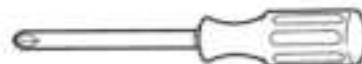
Small Adjustable Wrench
(Jaws must open at least 9/16 inch.)



Open-End Wrenches



Flat-blade Screwdriver



Phillips Screwdriver



Slip-Joint Pliers



Metric Allen Wrenches

You need to follow the unboxing and assembly instruction video that was sent to you via email upon your purchase of the bike. You can also find the video on our product page, under the ‘Manual and Assembly Videos’ section.

If you are unable to find the assembly video, please check your spam/junk folders. You may also write in to us at info@bodywel.com



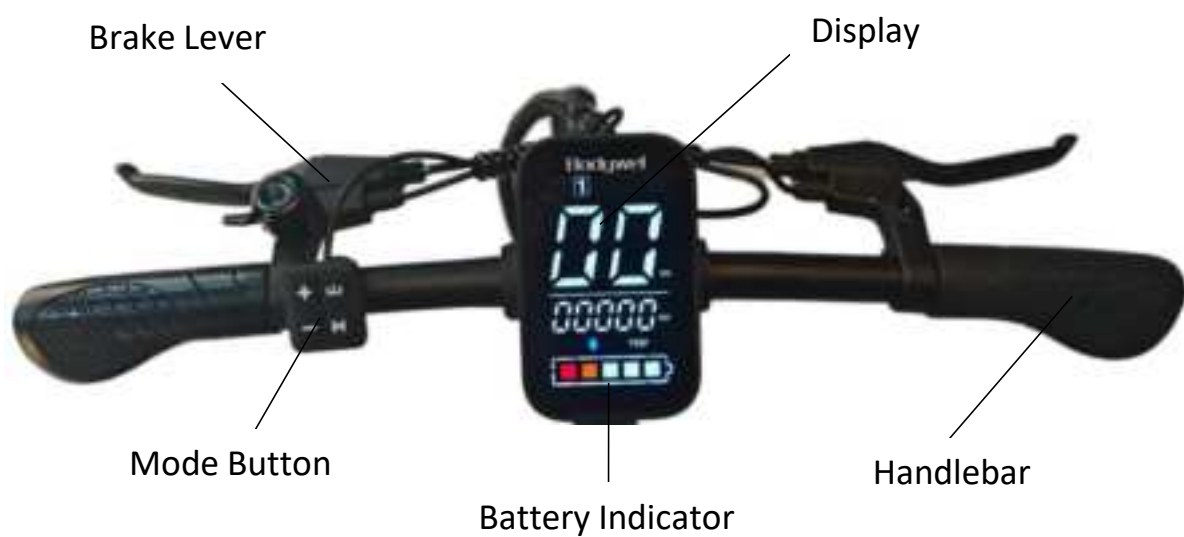
<https://www.bodywel.com/videos>

3.1 Overview



3.2 Cockpit

BW-T16 Pro :



4. Operations

4.1 Product Specifications

Battery	36V 7.8AH Lithium Battery	Charger	U S Standard 2.0A smart charger, Certified
Range	25~50 km	Controller	36V / 13A
Electric Bike Class	Class 2	Display	Adjustable-Angle, Backlit, Grayscale, LCD
Hub Motor	250W brushless geared motor	Frame	Aluminium 6061
Charging Time	3~ 4 Hours	Pedal Assist Intelligent	0~3 level pedal assist
Total Payload Capacity	25 kg	Top Speed	25 kph by default
Recommended Rider's Height	5' 0"~ 6' 0"; 152~183 cm	Net Weight	20 kg

4.2 Mechanical Checklist

Before each ride and after every 50 kilometers of riding, we recommend the following safety checks tabulated in the below tables.

Fasteners	Check that all fasteners and components are securely tightened
Brakes	Check and Test to ensure front and rear brakes work properly Check and ensure the brake pads are not over-worn and are correctly positioned. Ensure brake cables are lubricated, properly adjusted, and has no obvious sign of wear. Ensure brake levers are lubricated and tightly secured to the handlebar. Test that when applying brake, motor cuts off
Wheels and Tires	Ensure tires are inflated within the recommended limits posted on the tire sidewalls and do not leak air. Ensure tires have good tread, have no bulges or excessive wear, and are free from any other visible damage. Ensure rims rotate smoothly without any abnormal noise and have no obvious wobbles, dents, or kinks. Ensure all wheel spokes are tight and not broken. Ensure axle nuts are tighten properly and front wheel quick release is correctly tension, fully closed, and secured.
Seat	Ensure the seat mounting bolts are tightened to the recommend torque value. Ensure the seat quick release lever is properly tightened and secured and check that the seat cannot move.
Steering	Perform a handlebar twist test to ensure the handlebar stem is secure. Ensure the handlebar is set correctly in relation to the fork and the direction of travel.
Chain	Ensure the chain is adequately lubricated, clean, and has no visible damage.

Bearings	Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling. heck headset, wheel bearings, pedal bearings, and bottom bracket bearings.
Cranks and Pedals	Ensure pedals are securely tightened to the cranks. Ensure the cranks are securely tightened and are not bent
Derailleurs	Check that the derailleur(s) are adjusted and working properly. Ensure shift cables and brake levers are properly lubricated and securely attached to the handlebar.
Battery Pack	Ensure battery is charged before use. Ensure there is no damage to battery. Lock battery to frame and ensure that it is secured. Charge and store bike and battery in a dry location, between 50 °F – 77 °F (10°C-25°C).

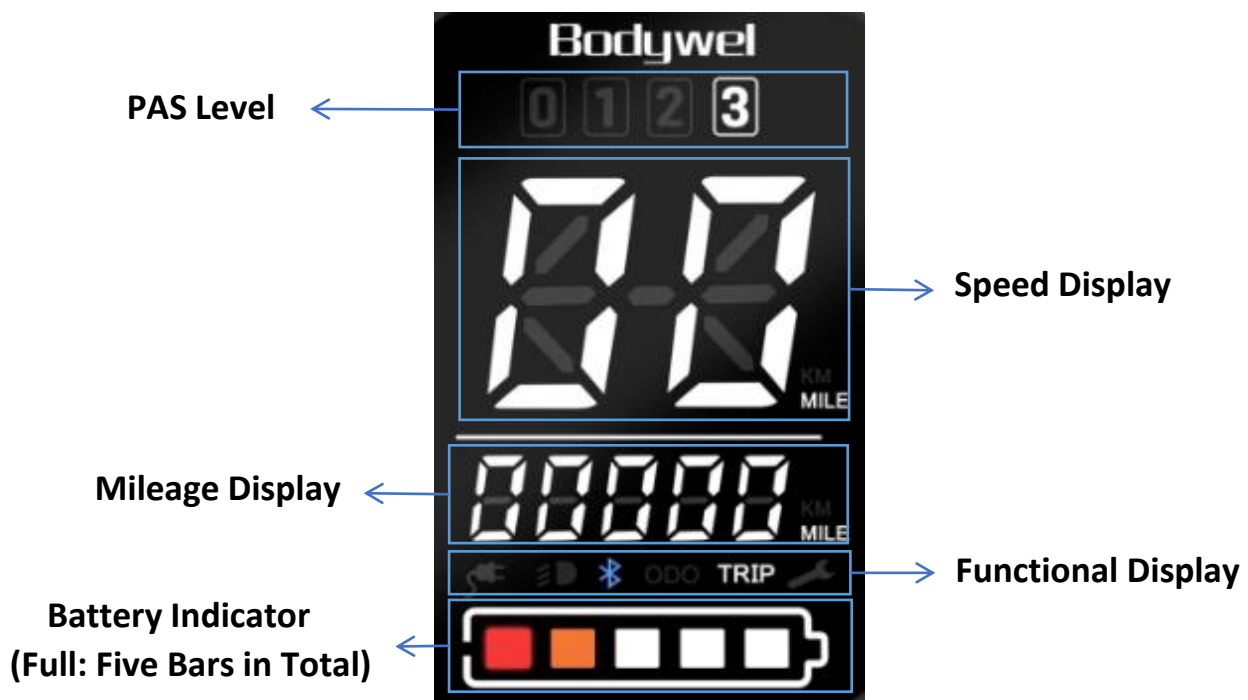
4.3 First Ride




For your first ride,

1. You need to fully charge your battery before use. Charge it until the LED on your charger turns green.
2. Press and hold the power button on the display control pad located on the left handlebar until the display turns on
3. Select your preferred level of pedal-assist using the +(UP) and –(DOWN) button on the display control pad, with Level 1 being the lowest , and Level 5 being the highest. Level 0 provides no assistance to the rider.
4. To turn on the headlight and taillight, press and hold the UP button to turn them on. To turn them off, press and hold the UP button again.
When you close any of the brake levers, the rear brake light will be lit.
5. When the ebike comes to a complete stop, turn off the power by long pressing the power button on the display control pad until the LCD display turns off. This is to ensure that the motor will not be accidentally activated.

4.4 Bike Display and Controls

4.4.1 Functional Description of the Display







- **PAS Level:** It shows the current pedal-assist level (0 ~ 3), with 0 being no pedal-assist, 3 being the highest pedal-assist
- **Speed Display:** It shows the speed value in KM/H or MPH
- **Mileage:** It shows the mileage value (Trip, ODO, or Running Time)
- **Battery Indicator:** It shows the power level of the battery. The corresponding voltage for each level can be adjusted by the user.
- **Headlight:** When the headlight is on, this symbol  will show up.
- **Bluetooth:** When the Bluetooth is on, this symbol  will show up.
- **Error alarm:** When the system detects a fault, this symbol  will show up.

4.4.2 Display Control Pad



4.4.3 Function Settings

Button	Instructions
	Press the power button for 2 seconds to switch on. The dashboard will switch off automatically after 10 minutes when the motor is stationary and the dashboard is not operated.
	One Click: Control the front headlight on/off.
	Double Click: Switch speed unit (Mile/KM).
	Triple Click: Switch between single trip and total mileage display (TRIP/ODO).
	Click and hold "+" and "-" together, click "M" three times: Reset ODO (Total Mileage).
	Click and hold "+" and "-" together, click "M" six times: Reset Bluetooth
	Gear change from level 1 to level 3 by one click.
	Gear change from level 3 to level 1 by one click.
	Press and hold the "-" button to activate the 6km/h walking assist mode. Release the button to turn off the walking assist mode.

4.4.4 Fault Code Description

E0	Hall failure	E5	Motor failure
E1	MOS failure	E6	Communication failure
E2	Brake failure	E7	Zero abnormal fault
E3	Turn handle failure	E8	Stuck fault
E4	Undervoltage fault	E9	Overvoltage fault

⚠ Important Considerations

1. The interface connection of the instrument must be correct, and the connection must be secure without any looseness.
2. Ensure that the meter receives a stable power supply voltage within a reasonable range to maintain proper meter operation.
3. When installing the instrument, always wear an electrostatic wrist strap to prevent component damage and ensure uninterrupted functionality.

4.5 Installation Instruction

When open the bike's carton box, take out the e-bike and use tools to cut off the package strings.

4.5.1 Install the handlebar

Unscrew the screws on the handlebar lock, Adjust the handlebar to the center position, adjust the handlebar angle to your most comfortable position and lock them properly.



4.5.2 Install the front fender and headlight

Install the front fender and headlight on the front fork bracket with screws and tighten them.



4.5.3 Install front wheel

Remove the protector from the front fork (Please note: Front fork protector is used to prevent the forks from being deformed during transport. It belongs to the packing material. You can just throw away this accessory.) Install the front wheel on the fork, Make sure the fork is attached to the axle and make sure the disc is placed in the middle of the brake.



Tighten the nuts at both ends and lock them in a clockwise direction with a wrench.



4.5.4 Install the seat post

Adjust seat post to the height that suits your riding position best and tighten quick release. (Please make sure that the quick release is tightened firmly.)

*Before installing the seat, confirm whether the groove of the seat pipe clamp is aligned.



4.5.5 Install pedals

Check the two pedals, the one imprinted "L" should install on the left side and "R" on the right side. The left pedal is tightened counter clockwise and the right pedal is tightened clockwise.



4.6 Battery and Charging

4.6.1 Charging

To charge the battery,

- You need to charge it at room temperature , preferably around 68 °F. Charging below 32 °F or above 104 °F may significantly shorten the lifespan of the battery
- Do not charge it immediately after use. It is recommended to leave it there for half an hour after riding the bike, before charging the battery.
- Plug in the charging cord into the charging port located at the right hand side of the main frame
- Connect the charger to the main power outlets, and switch on the power.
- When the LED on the charger is red, it shows charging is in progress. When the charger LED turns green, it shows the battery is fully charged.

5. Transportation & Storage

5.1 Transportation

CAUTION: Batteries are not designed to be on the bike during transportation by car. Batteries must be taken off the bike(s) and transported inside the car.

5.2 Storage

Store the bike in a location where it is protected from snow, rain, sun etc. Snow and rain can cause the bike to corrode. The ultraviolet light from the sun can fade the paint or crack any rubber or plastic on the bike.

If the ebike is not used for a long period of time (one month or more), the battery should be stored:

- At 50%- 60% of its capacity (you should have 4 bars left on the battery indicator)
- Separate from the bike
- At temperatures between 32°F – 105 °F (0°C-40°C), preferably between 50 °F – 77 °F (10°C-25°C).

NOTE: Check the battery every month by looking at its battery level shown on the battery LED indicator. Charge the battery if necessary.

CAUTION: Charge the battery every 3 months. Negligence to do so may void the warranty of the battery.

7. Maintenance

7.1 Inspection and Safety Check

Before every ride and after every 80 kilometers of ride, the e-bike should be checked regularly following the checklist as described in Section 4.2. Regular inspections and tuning are crucial to ensure that your ebike remains safe and fully functional.

7.2 Cleaning

Use a soft cloth with a neutral solution to wipe the dirt off the bike surface. After that, wipe it dry with a clean soft cloth.

CAUTION:

Do not use high-pressure water jets for cleaning. It can cause water ingress into electric components, which may damage them.

Do not wash the E-bike components with excessive water. If water penetrates into the internal electrical parts, it may cause low insulation, and lead to power draining out fast, or battery damage.

Riding on the beach or in coastal areas will expose your bicycle to salt which is very corrosive to metals. Wash your bicycle frequently and wipe or spray all unpainted parts with anti-rust treatment. Damage from corrosion is not covered under warranty so special care should be given to extend the life of your bike especially when used in coastal areas.

7.3 Lubrication

To properly maintain your bike, it is highly recommended to lubricate the rotating components regularly.

NOTICE: Do not over lubricate. If oil gets on the wheel rims or the brake shoes, it will reduce brake performance and a longer distance to stop the bicycle will be necessary. Injury to the rider or to others can occur.

What	When	How
Pedals	every six months	Put two/three drops of oil where the axles go into the pedals
Chain	every six months	Put one drop of oil on each roller of the chain. Wipe off all excess oil with a clean soft cloth.
Shift levers	Never	Do not lubricate the shift levers
Derailleurs	every six months	Put one drop of oil on each pivot point of the derailleur. Wipe off all excess oil with a clean soft cloth.
Brake and Brake Cables	every six months	Apply two / three drops of oil into both ends of the cable. Allow the oil to penetrate into the cable.
Brake levers	every six months	Put one drop of oil on each pivot point. Wipe off all excess oil with a clean soft cloth.

8. Product Warranty

We at Bodywel proudly stand behind the quality and reliability of our products while promising you some of the best customer service experiences in the industry.

As with all mechanical components, Electronically Power Assisted Cycles (EPAC) are subject to wear and high loads. Different materials and components can respond to wear or fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail and potentially cause injury. Any form of cracking, scratching or color changing in heavily loaded areas indicates that the component has reached the end of its service life and should be replaced.

Changes to components of your bike, such as the fork or the frame can make the particular parts or the entire bike insecure. A poorly installed or modified component can increase the load on all other components, thereby greatly increasing the likelihood of failure. Changes can also negatively affect the handling of the bike, resulting in loss of control, falls and serious injuries. Please do not add, remove or modify any components of your bike in any way. Find a trained bicycle mechanic if necessary. Furthermore, we recommend that you contact us (Bodywel) in advance before changing or adding any components to ensure the safety of riding.

The manufacturer is not liable for incidental or consequential loss or damage due to direct or indirect use of this product.

9. Safety Disclaimer

Electric bicycles are powerful machines designed for use by adults in fully controlled and safe environments. Most electric bicycles can be ridden where other non-motorized bikes are allowed, but it is your responsibility to check and obey all local laws. Your electric bicycle should only be ridden in safe areas where all laws are being followed and all required permissions are given.

Because it is impossible to anticipate every situation or condition which can occur while riding, Bodywel, Inc. makes no representation about the safe use of their electric bicycles under all conditions. It is the responsibility of the riders to ensure the ebike is properly assembled as per our instruction manuals or videos, and ensure all bolts, nuts, fasteners, quick release clamps are securely fastened before riding. There are risks associated with the use of an electric bicycle which cannot be predicted or avoided, and which are the sole responsibility of the rider.

Bodywel does not accept any liability or responsibility for any accident or injury incurred as a result of the use of any of their electric bicycles or any other product.

LIMITATION OF LIABILITY: TO THE FULLEST EXTENT PERMISSIBLE PURSUANT TO APPLICABLE LAW, Bodywel, INC. LLC, THEIR AFFILIATES, FAMILY AND FORMER AND CURRENT EMPLOYERS NOR ANY OTHER PARTY INVOLVED IN CREATING, PRODUCING OR DELIVERING Bodywel PRODUCTS IS LIABLE FOR ANY DIRECT, INCIDENTAL, CONSEQUENTIAL, INDIRECT, EXEMPLARY, OR PUNITIVE DAMAGES ARISING OUT OF A USER'S ACCESS TO, OR USE OF Bodywel PRODUCTS.

BATTERY USE RISK

Improper use, care, or charging of a lithium-Ion battery could cause serious injury to the product, property, or persons. If the battery is tampered with or damaged in any way, do not use the product and find a hazardous waste removal center immediately. It is the responsibility of the purchaser to maintain safe storage and treatment of the battery at all times. Only use the charger that came with your product. Just because a charger fits in your device doesn't mean that it is safe to use.

Keep your device out of extremely high or low temperature locations. Do not place the battery in direct sunshine, or store the battery inside cars in significant hot or cold weather.

Do not expose the battery to water or allow the battery to get wet.

Do not continue charging the battery if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, explode, or ignite.

Do not use your device if you notice any damage to the battery after dropping it. If you suspect damage to the battery, email our support or dispose of the battery and order a replacement.

Do not disassemble or modify the battery in any way. Modifying your electronic significantly increases the risk of explosion and will also void all warranties.

OWNER'S MANUAL

Please reference this Owner's Manual which provides important information regarding safety and maintenance of your electric bike. Please read through the entire manual prior to operating your electric bicycle and save the manual for future reference.

If at any time you have questions or need assistance with the maintenance of your product, you may contact us at info@bodywel.com or you may contact the manufacturer using the information included in this Owner's Manual.