

User Manual

ECRUIZA





Important Recommendations:

- **Packaging Retention:** It's advised to keep the shipping carton. It will be beneficial for any potential servicing needs or product returns.
- **Keys:** Your e-bike comes with two keys. We suggest keeping them in separate locations. Consider getting a third key made, as direct replacements are not available.
- **Battery Care:** If you plan on not using your e-bike for extended periods, ensure the battery remains charged. This practice aids in prolonging its lifespan. Further details can be found in the instruction section.
- **Instruction Manual:** Dedicate some time to go through the manual thoroughly. It's packed with crucial information on usage and safety measures. Your safety and understanding are paramount to us.



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Congratulations on your new Pedibai e-bike purchase! We're thrilled you chose us. Our commitment to excellence ensures a high-quality product that we believe will bring you countless memorable rides.

At Pedibai, we don't just pride ourselves on the quality and longevity of our bikes; we're also staunch advocates for rider safety. Should you encounter any issues or have concerns, our dedicated team is always here to assist.

This manual is your guide to understanding, operating, and maintaining your e-bike safely. It's essential to thoroughly read and familiarise yourself with the contents before your first ride. Keep this manual handy for future reference.

Safety is paramount, and this guide contains several cautions and warnings to ensure you ride with utmost care. If any aspect of the manual is unclear or raises questions, please don't hesitate to reach out to Pedibai.

While we strive to cover various scenarios and precautions, it's impossible to predict every situation one might encounter on the road. Riding any bicycle comes with inherent risks, and ultimately, safety is the rider's responsibility.

We continuously update our documentation for accuracy and relevance. However, there might be instances where updates or changes aren't immediately reflected. We appreciate your understanding in this matter.

Lastly, it's worth noting that your e-bike has been independently verified and meets the requirements of the UKCA Certification Mark, pertaining to the standards outlined. Pedibai proudly holds the responsibility for the certification and ensures that all necessary measures are taken before the product hits the market. Furthermore, Pedibai tasked with maintaining an effective internal production control to ascertain continued compliance with the Certification.

Thank you for trusting Pedibai, and here's to many enjoyable rides ahead!



Pre Checks

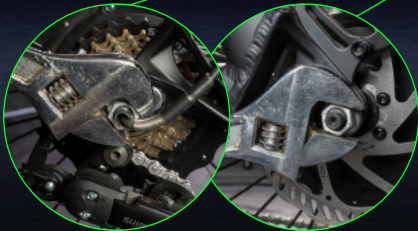
Congratulations on becoming a Pedibai Cruiza Owner. Now you have invested in the new E-bike, we just wanted to remind you of a few important points you should consider every time before you take your new e-bike out for a ride.

It has become apparent many of our customers are new to Electric Bicycles. Like any moving vehicle with moving parts fixing points parts subject to moving/vibration. If it is not checked regularly, it can become loose or detached. So we try to impress that it should become second nature to introduce regular checks on a regular basis or prior to every use as a precautionary measure.

- Always wear a helmet when riding
- Check brakes are secured and work sufficiently
- Check Tyres are inflated between 5- 10PSI depndng on the ride intended
- Check pedals are tight
- Make sure light and reflectors are present/working
- Check handlebars and handlebar furniture are secure

Tighten All Screws Before Riding

Check all fixing points are tight and secure and we have highlighted those in the graphic on this page.





LCD Control Centre

Thumb shift gear selector

Front Brake Lever

Rear Brake Lever

Twist & Go Power Cut Button

Integrated LED Light

Independent Rear Light

Saddle

Front Fork Suspension

Front Disc Brake

Rear Disc Brake Calliper

Pedal

Rear Wheel Hub Motor

Daily Checks

To ensure the safety, make the following functional checks before riding:

Normal operation of the light, brake and power cut system.

Tire pressure [low pressure will effect range and speed].

Wheel axle tightness. Battery charging level.

Check Lights Front/Rear are working.

Braking system adjustment and free operation (wheel should spin freely, and brake levers should have minimal travel before engaging the brake).



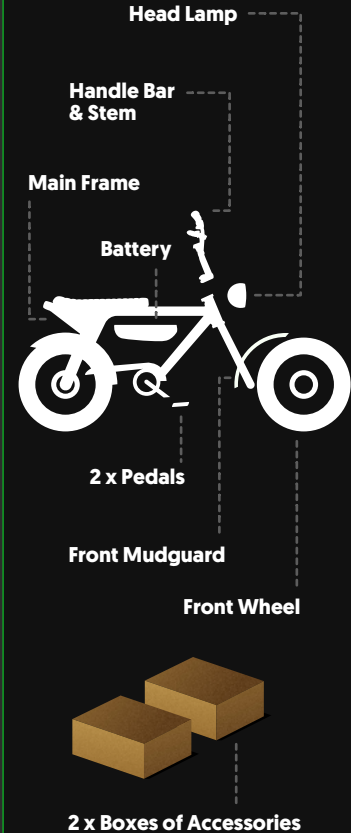
1 Unbox

Before you continue to complete the final assembly please ensure you read the instruction manual carefully.

First step check for any external damaged on the shipping carton then carefully cut the plastic straps and open the top flaps to reveal the bike.



In the Box



Ideally allow sufficient space to allow room to manoeuvre to remove and assemble to bike safely it will take two people to lift and hold the bike during the final assembly, First remove the two accessory cartons then carefully lift the bike away from the carton.



2 Organise

Remove the parts/tools located in the two accessory boxes and check parts received match those identified in the parts list section of the instruction manual.



Box 1:

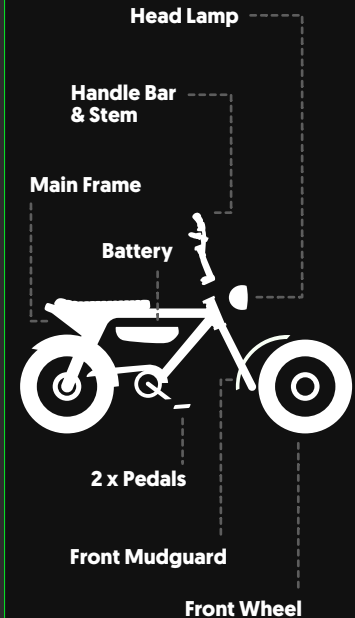
- | | |
|--------------------------------|--------------------------------|
| 1 x Lamp | 2 x Long bracket |
| 2 x short clamp | 2 x bracket fixing bolt |
| 2 x washers | 2 x lamp fixing bolt |
| 2 x washer | 2 x large foam adhesive spacer |
| 2 x small foam adhesive spacer | |



Box 2:

- | | |
|-------------------------------|--------------------------|
| 1 x 54v Charger & power cable | |
| 2 x Pedals [L&R] | 1 x Mudguard fixing bolt |
| 2 x washer | 1 x locking nut |
| 2 x M5 15MM mudguard bolts | |
| 2 x washers | 1 x 15mm spanner |
| 1 x 10mm spanner | 3 x Allen keys |

In the Box



2 x Boxes of Accessories



2 Organise

Carefully remove main packaging to access the components to be assembled please note a hobby knife or cable cutter may be required to remove the cable ties used to secure the bike during transit.



Leave packaging on the frame until other parts have assembled and tested to help protect from damage during assembly.

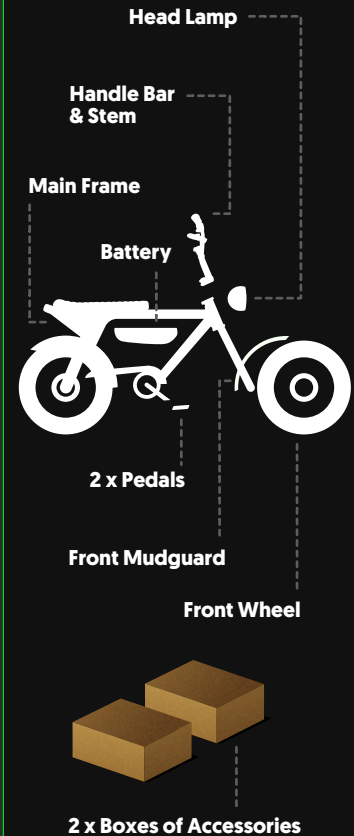


Carefully unclip the front wheel from the frame ready for assemble only after Front mudguard has been fitted.



Prepare all of the parts and fixing components for easy access prior to assembly.

In the Box





3 Handlebar

First assembly point is the handlebar remove the 4 Allen bolts from the headset then remove the headset clamp.

With another person holding the handlebar present the handlebar to the headset and place the clamp in position.

Using the 4mm Allen key tighten the 4 x Allen bolts in a diamond format to ensure even pressure is applied across the clamp when secure.

Position



Parts & Tools





4 Front Mudguard

Part 1 to attach the front mudguard secure the bolt and washers provided through the hole located in the middle of the front forks with the mudguard bracket placed at the front of the fork.



To attach the front mudguard collate the parts, tools and fixings required using the M5 Allen key and 10mm spanner.

Position



Parts & Tools



Part 2 to fix the straightening bars to the fork invert the bike (taking care not to damage the handlebar furniture (levers and gear selectors etc) then locate the fixing point on the bottom of the fork legs using the 5mm Allen bolts and washers provided.





5 Front Wheel

While the bike is still inverted remove the temporary stand to enable the wheel hub to locate in the forks appropriately.



Before locating front front wheel loosen the hub nuts sufficiently and slide the spacer to the outside before presenting to the forks.



Taking care to ensure the brake disc is located in between the brake pads on the calliper and once the wheel hub is located snugly in position tighten the nuts by hand and rotate the wheel to ensure free travel.



Using the 15mm spanner tighten to secure the wheel in position (torque setting detailed in the technical section).

Position



Parts & Tools





6 Front Brake

Once the front wheel is secure if the wheel is not rotating freely there may be a requirement to re-align the front brake calliper.



To align the calliper take the the 5mm Allen key and loosen the two bolts the secure the calliper to the fork to allow lateral movement.



Tighten the brake calliper to the disc using the pad adjuster located on the rear of the calliper until locked to the disc then tighten the two Allen bolts to secure the calliper and lastly



Rotate the wheel to ensure free travel and repeat process with further adjustments if still resistance when rotated.

Position



Parts & Tools





7 Pedal

Prior to assembling the pedals identify the left and right to ensure correct fitting (identified by a L & R) on the pedal plate turning the spindle towards the front of the bike will tighten the pedals onto the crank whatever side the pedal is on.

Before we go on, for the avoidance of doubt:

- The right-hand side or drive-side of the bike is the side with the gears on it
- The left-hand side or non-drive-side of the bike is the side without the gears



Taking care not to cross thread the pedal carefully locate the thread into the crank arm and turn by hand until secure.



Once both pedals are secure use the 15mm spanner to tighten the pedals securely.

Position



Parts & Tools





8 Front Light

Prior to assembling the front light ensure all of the components are to hand (as per list see page 5).

Then once aligned in position attach the large sticky spacer pad in the curved part of the large bracket (left and right).



Next attach peel the backing of the small sticky pad.

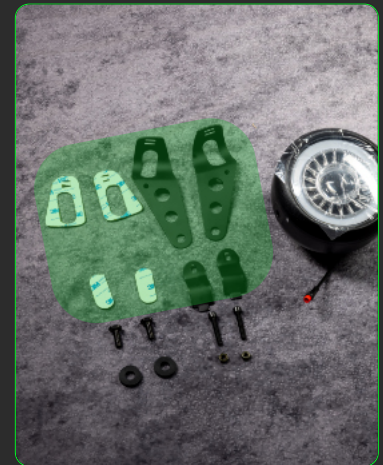


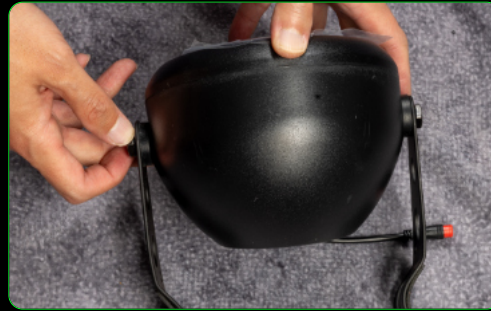
Attached to the small clamp internal on the curve.

Position



Parts & Tools





8 Front Light

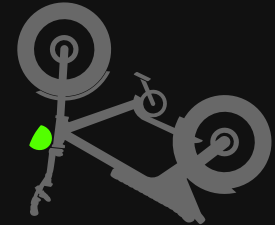
Attached the large bracket (straight edge to the top) to the lamp using the nuts and washers provided.

Repeat for the process for both sides.



Present the brackets to the front forks [just below the headset].

Position



Parts & Tools





8 Front Light

To secure the long bracket insert the small clamp via the slot provided and wrap around the fork.



Using the M5 Allen bolt and washer secure the clamp and bracket.

Position



Tilt / adjust the lamp angle appropriately and tighten once in place .



Lastly connect the in-line plug and socket ensuring the pins are aligned prior to pushing together.

Parts & Tools





9 Rear Light

Again to aid locating the rear light it can be easier to invert the bike as before.



The mounting bracket is located under the bench seat at the rear of the frame, just remove the two fixing nuts and sprig washers locate the lamp and then tighten the nuts using the 10mm spanner.



Final Look.

Position



Parts & Tools





10 Battery

The battery has been designed to fit specifically the docking bracket located underneath the bench seat to secure in place hold and centralise the battery to the dock

Once located then gently slide the battery towards the rear of the bike making sure the lugs are align correctly until is locks in place and should not wobble.



Lastly lock the battery in position using the two keys provided

Position



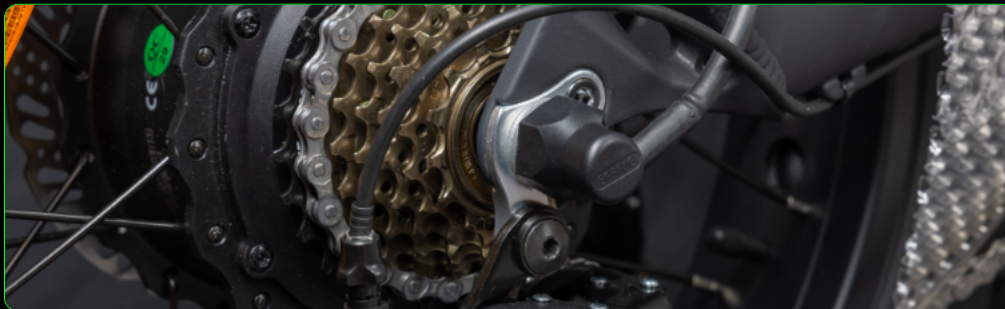


11 Finalise

Remove the plastic transit cap from the rear wheel to reveal the power cable entry point.



Then slide the rubber protective sleeve over the power cable entry on the rear wheel hub.

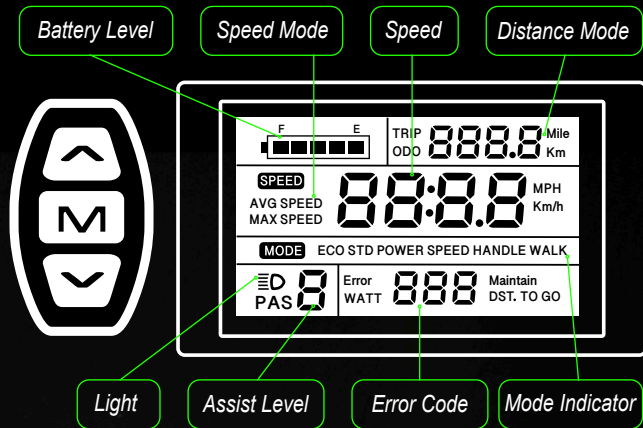


This completes the assembly and just leave you to read the instructive manual to familiarise yourself with the controls and how the bike performs.

Position



Please read this manual before you use your Pedibal e-bike. This manual will guide you to use the product correctly to get the most from your ride.



Throttle Control

Display Operation

Power Button ON/OFF

The switch on the LCD display Press and Hold **M** button for a few seconds until the display illuminates and repeat this process to turn off. Please note the display has a power save setting if not used consecutively for the default power safe mode time setting the power will switch the off the automatically [time can be set by the user].

Front Light

Press & Hold **M** button to turn on the integrated headlight;
 Press & Hold **M** button again to turn off the headlight.
 (rear light is independent and controlled manually).

Pedal Assist Setting

Press **▲** or **▼** button to switch between 5 assist levels providing a set power assistance at varying speed increments [1 being the least assist/power consumption, 5 being the highest assist]. Upon power up the display defaults to assist 1 when powered on, but can also be set to 0 to disengage the power assist completely.

The five assist levels are managed at speed increments 1- 6mph through to 5 - 15.5mph.

Walking mode

Press and Hold **▼** button until WALK flashes - the motor will engage to maintain a maximum speed of 3.7mph. Press and hold **▼** button again or pull a brake lever to cancel this mode. [Throttle Control must be engaged for this function to work] *Throttle Version Only

Speed display



Press & Hold and simultaneously for few seconds to switch between different speed display mode.

- [SPEED] - Current speed
- [AVG] - Average speed
- [MAX] - Max speed

Odometer display



Press button to change mileage display

- [ODO] - Overall total cumulative mileage covered
- [TRIP] - Time and distance covered on a single trip
- [ERROR] - Error code display (see definition)

Error Code Display



Code	Definition
0	Normal
10	Communication abnormality
21	Current abnormality
22	Handle abnormality
23	Motor default phase
24	Motor hall signal abnormality
25	Brake abnormality

Electronic control system failure will display fault code. Once the fault is no longer detected, the fault code display interface will automatically exit.



Charging the battery when removed

- Store the charger in a safe location, out of the reach of children.
- For optimal battery lifespan, only use when fully charged.
- Only use the original charger provided. Third-party chargers may decrease battery life or cause damage.
- The charger is compatible with both 110V and 220V mains.
- Do not attempt to open or repair the charger; it contains no user-serviceable parts.
- Keep the charger away from liquids, metal objects, and potential fall hazards to prevent damage.
- Do not cover the charger while in use, as this could lead to overheating or fire hazards.
- The charger is designed for indoor use. Store in a dry, ventilated area.
- If you detect an unusual odor or excessive heat from the charger, discontinue use and contact Pedibai support immediately. Do not attempt further use.
- The indicator light on the charger will turn red when charging and change to green once the battery is sufficiently charged.
- Initial charging requires 8-10 hours. Subsequent charges will take between 2-8 hours.
- The design of the charger prevents battery overcharging.

Follow these guidelines to ensure safe and efficient use of your Pedibai charger.

Charging tips

- **Consistent Charging:** For optimal battery health, recharge the battery after every use.
- **Battery Maintenance:** Even when the eBike isn't in use, ensure the battery retains some charge to extend its lifespan.
- **Charging Position:** While it's possible to charge the battery while attached to the bike, it's advisable to remove it for extended storage or to adhere to optimal storage conditions.
- **Charging Safety:** The charger features an automatic stop mechanism to prevent overcharging. During the charging process, the LED indicator will change from RED to GREEN once fully charged.
- **Charging Environment:** Always charge the battery indoors, in a dry area, away from direct sunlight.
- **Pre-Charging Inspection:** Before charging, inspect the charger, its cables, and the battery for any signs of damage.
- **Charging Duration:** Avoid leaving the battery to charge for more than 24 hours. As a safety measure, refrain from charging it overnight.
- **Charger Compatibility:** Only use the charger provided by the manufacturer to ensure safety and compatibility.

By following these guidelines, you'll ensure the safe and efficient charging of your eBike battery.



Charging the battery when on the bike

- Powering Off: Turn off the battery using its designated switch.
- Connection: Connect the charger's output lead to the battery pack's socket.
- Start Charging: Plug the charger into a 110/220V mains outlet.
- Disconnection: After charging, first unplug the charger from the mains outlet, then disconnect it from the battery pack.
- Note on Safe Charging: For optimal charging and battery health, ensure the ambient temperature is between 10°C and 26°C. Before charging, always inspect the battery for any signs of damage.

Important tips when parking

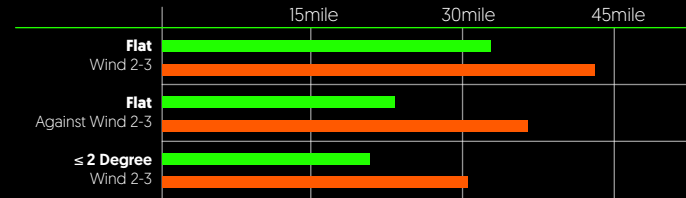
- Manual Movement: If pushing your e-bike, ensure the power is off to prevent unintended acceleration. (unless WALK MODE is required)
- Indoor Storage: It's advisable to store Bike/Battery indoors when possible.
- Public Storage: Always store Bike in alignment with local traffic regulations when in public areas.
- Power & Key: After storing the bike, remember to turn off the power and take the key with you for security.(recommended to use insurance rated lock)

Important tips while riding

- Conserving Energy: To enhance battery life and motor longevity, utilise the pedals during startup and terrain ascents.
- Smooth Acceleration: Gradually twist the throttle for a steady acceleration. This approach not only conserves energy but also minimises the strain on the electrical system. For best practice, use pedals to moderate sudden stops and starts. (*Throttle Version only)
- Overload Protection: The vehicle's controller is equipped with overload protection. If an overload occurs, the power supply will momentarily cut off and will resume once conditions normalise.
- Throttle and Brake Coordination: Refrain from using the throttle while braking. This simultaneous action can damage the motor.(*Throttle Version only)
- Weight Limit: The vehicle's maximum weight capacity is 120KGs. Surpassing this limit can result in accelerated wear and tear.

Driving Range

Average distance from one charge: 20-40 miles [active state] differs from different batteries. Conditions of testing: wind speed: level 2-3, normal atmosphere temperature: 25 degrees, Load: 90kg, atmospheric pressure: 3.5kg/cm, flat concrete surface; battery: full.



Normal temperature: 25°C. Normal Load. Max speed (15-25mph) miles of journey. Power consumption of one time charge: ≤ 0.5kw.h. Economical speed: 11mps. Economy speed(6mls) miles of journey. Rated load: 90kg. Dead-load: ≤30kg.

The battery range depends on road conditions, riding style, wind direction, atmospheric temperature, air pressure in the tire and correct use of charging. Please note this during riding.

Data based on 12.8Ah battery.



To ensure safe riding conditions you must properly maintain your bike. You should follow the basic guidelines below and see your certified local bike shop seasonally to ensure your bike is safe for using.

Regular self-checks

- **Wheels & Frame:** Ensure both wheels, the frame, and the front fork are tightened and functioning properly.
- **Tire Maintenance:** Monitor tire pressure and check for any wear or damages.
- **Gearshift:** Verify the smooth and correct operation of the gearshift.
- **Bell & Reflectors:** Inspect the bell for clear sound and ensure reflectors are intact and operational.
- **Braking System:** Test for consistent and effective braking.
- **Battery Care during Inactivity:** If not using the e-bike for extended periods, charge the battery at least monthly to maintain its lifespan.

Maintenance and cleaning tips

- **Washing Precautions:** Refrain from using high-pressure jets to prevent water from seeping into the electrical system and bearings.
- **Surface Cleaning:** Gently remove dirt from painted areas using a neutral cleaner and dry with a soft cloth.
- **Lubrication:** Post-cleaning, apply bicycle-specific lubricant to exposed pivot points and hinges.
- **Lubricant Caution:** Avoid lubricating brakes, brake levers, rims, tires, the battery, and controller.
- **Brake Discs:** Handle with care. Direct contact can contaminate brake pads. Avoid aerosol-based oils to prevent disc contamination.
- **Chain Maintenance:** Periodically clean and de-grease the chain. Lubricate the inner rollers of each link and remove excess oil to prevent the attraction of contaminants.

Recommended torque values for threaded fasteners

	Parts	Torque required [N.M]
1	Handlebar	4.7 - 5.6
2	Handlebar-stem	7.8 - 9.8
3	Saddle	4.7 - 5.6
4	Seat-pillar	N/A
5	Front wheel	25 - 30
6	Rear Wheel	40 - 55
7	B.B Parts	35 - 45
8	Tyre pressure	Tyre pressure 5-10psi [lower PSI is acceptable to improve riding experience on uneven terrain]



Troubleshooting Tips

	Symptoms	Possible causes	Most common solutions
1	It doesn't work	Insufficient battery power Faulty connections	Charge the battery Clean the connections
2	Irregular acceleration and/or reduced top speed	Insufficient battery power Damaged throttle spring	Charge the battery Contact an Authorised Service Center
3	When powered on, the motor doesn't respond	Loose wiring Loose or damaged motor wiring plugs	Repair and/or reconnect Contact an Authorised Service Center
4	Reduced range	Low tire pressure Low or faulty battery charge Driving with too many hills, braking, departures, and/or excessive load Battery discharged for long period of time, without regular charges, aged or damaged	Adjust the tire pressure Check the connections and/or fully charge the battery Help with the pedals Replace the battery Make a prolonged battery charge
5	The battery won't charge	Charger not well connected Battery cases fuse blown Battery wiring disconnected or with a bad contact	Contact an Authorised Service Center
6	Driving wheel makes strange noises	Bearings worn or requires adjustment	Replace the bearing Adjust/replace the rim
7	Gears not selecting	Possible knocked out of alignment	Select gears individually and rotate pedal adjust indexing via the barrel adjuster located on the rear of the derailleur until clicking noise is gone

Maximising Battery Power and e-Bike Range:

Certain conditions, such as frequent starts and stops, uphill rides against strong winds, traversing rough or muddy terrains, and carrying heavy loads or extra passengers, can deplete the battery faster. Here are strategies to optimise battery life:

- **Anticipate Stops:** Scan ahead and coast to a stop rather than frequently using brakes.
- **Uphill or Windy Conditions:** Pedal alongside the battery assistance to conserve energy.
- **Starting from Standstill:** Use pedals initially to aid acceleration, reducing strain on the battery.
- **Low Battery Indicator:** If the battery meter indicates low voltage, consider switching to manual pedalling to preserve battery longevity.
- **Battery Storage:** When storing your e-bike, detach the battery and ensure it's charged at least once a month.

Useful tips

- **Reference Purpose:** This manual is designed for understanding use and features, not for inspection procedures.
- **Image Disclaimer:** Images may not exactly match the actual model due to technical enhancements.
- **Model Updates:** We may update the model without prior notification due to technical advancements.
- **Speed Limiter:** The vehicle comes with a built-in speed limiter. For your safety, tampering with or removing it is strictly forbidden.
- **Pre-Ride Precautions:** Always perform pre-ride checks prior to each journey.
- **Rider Awareness:** Ensure only those familiarised and trained in the e-bike's operation use it.

General Warning

Cycling, like all sports, carries a risk of injury and potential damage. When you choose to cycle, you accept those inherent risks. Therefore, it's crucial to understand and adhere to safety guidelines and proper maintenance routines. Consistent care and attention to your bike can significantly reduce potential injuries.

This e-bike is designed for individuals aged 16 and over. Riders should possess the necessary physical coordination, quick reflexes, and mental awareness to handle traffic, changing road conditions, unexpected scenarios, and be aware of local cycling laws, irrespective of their age.

For those with impairments or disabilities, including visual, auditory, physical, cognitive, or seizure-related conditions, please consult with a healthcare professional before embarking on any cycling activities.

Note on Helmets

Ensure the helmet meets the EN1078 standard. Always wear an approved bicycle helmet during rides. Be aware that these helmets are designed solely for cycling and should be removed when not on the bike. Avoid wearing the helmet during play, on playground equipment, or while climbing trees, as it may pose a risk. Misuse of the helmet can lead to severe injury or even death. Children under 16 should not ride this bicycle.

Additional Noted for parents

For riders, the minimum age is 16 years. As a parent or guardian, the safety and activities of your child fall under your purview. This includes ensuring:

The bicycle fits your child appropriately.

The bicycle is in prime condition and safe to operate.

Both you and your child are well-versed in its safe operation.

Adherence to local motor vehicle, bicycle, and traffic laws, as well as practicing safe and responsible biking behaviours.

Please thoroughly read this manual, familiarise yourself with its warnings, and understand the bicycle's functions and operating procedures.

Safety notes before first use

Along with this manual, your bicycle is accompanied by additional documents provided by the system component manufacturers. Review all accompanying materials prior to using the bicycle.

This manual is essential reading for all users before the bike's first ride.

Thoroughly understand all instructions and safety precautions outlined here.

Before the maiden journey, confirm that the bicycle is the right size for you. Riding a misfit – whether too large or too small – can result in loss of control or accidents.

Always sport an approved bicycle helmet when using this bicycle. Adhere to the helmet manufacturer's guidelines for a proper fit and maintenance.

Before your initial ride, and subsequently on a regular basis, make sure that your bicycle is set up correctly and all components are securely tightened.

Be informed about the local laws and regulations related to cycling in areas where you intend to ride. Your adherence to these rules is essential.

Additional Safety Notes

- Riders must ensure their bicycles are safe for use and comply with local legislative requirements when utilized on public roads.
- Check handlebar grips for damage and ensure they're securely fixed. Compromised grips can result in loss of control and accidents.
- Always wear a helmet when cycling. Not doing so can result in severe injuries or fatalities.
- If using external bicycle equipment like trailers, stands, or vehicle racks, consult with Pedibal E-bike to confirm compatibility.
- Exercise increased caution in wet conditions. Wet surfaces increase the risk of slipping, potentially leading to severe injuries.
- Do not remove the bike's front or rear reflectors or the bell. Lights should complement reflectors as per many regional regulations.
- While some promotional materials may depict extreme terrains, such riding is neither recommended nor permitted due to significant risks.
- All bicycle components have their strength limits. Avoid extreme riding to prevent component damage and potential severe injuries.
- Inadequate installation, maintenance, or operation of components can result in critical injuries.
- After any accident, deem your bike unsafe until inspected by a certified bicycle service professional.
- Battery mismanagement, whether in charging, storage, or use, can void the warranty and pose risks.
- Be cautious when using the pedal assistance sensor. Familiarise yourself with its power surge when you begin peddling.
- Ensure the brake system, which includes a power-cut feature during brake engagement, functions correctly before each ride.
- Understand and respect the operations of the throttle and pedal assist sensors. Adjust your speed based on your surroundings and your familiarity with the bike.
- Unauthorised alterations to the product can void the warranty provided by Pedibal E-bike Company.
- Given their weight and speed, electric bikes necessitate additional vigilance during rides.
- Protect electrical components from water, especially saltwater, to prevent electric shocks.

Remember, safety first! Always acquaint yourself with your e-bike's features and functions before riding.



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KENDA

CRUZO

