

RooDog Electric Bicycle



USER MANUAL

Cosmo



EN 15194 official standard.



Identity:

Serial number:

Dealer stamp:

Date purchased: / /

Thank you for buying a RooDog electric bike. This is one of the best purchases you will ever make providing it is cared for properly.

Important: Please read this manual carefully before use and follow instructions provided at all times

For your own safety check brakes, gears, lights and tyre pressures are fully operational and correct before any bike ride. Also check all fasteners, quick release bolts and anything else that may be of hazard prior to setting off.

Important:

Please read & follow battery care guide lines in this booklet before first use.



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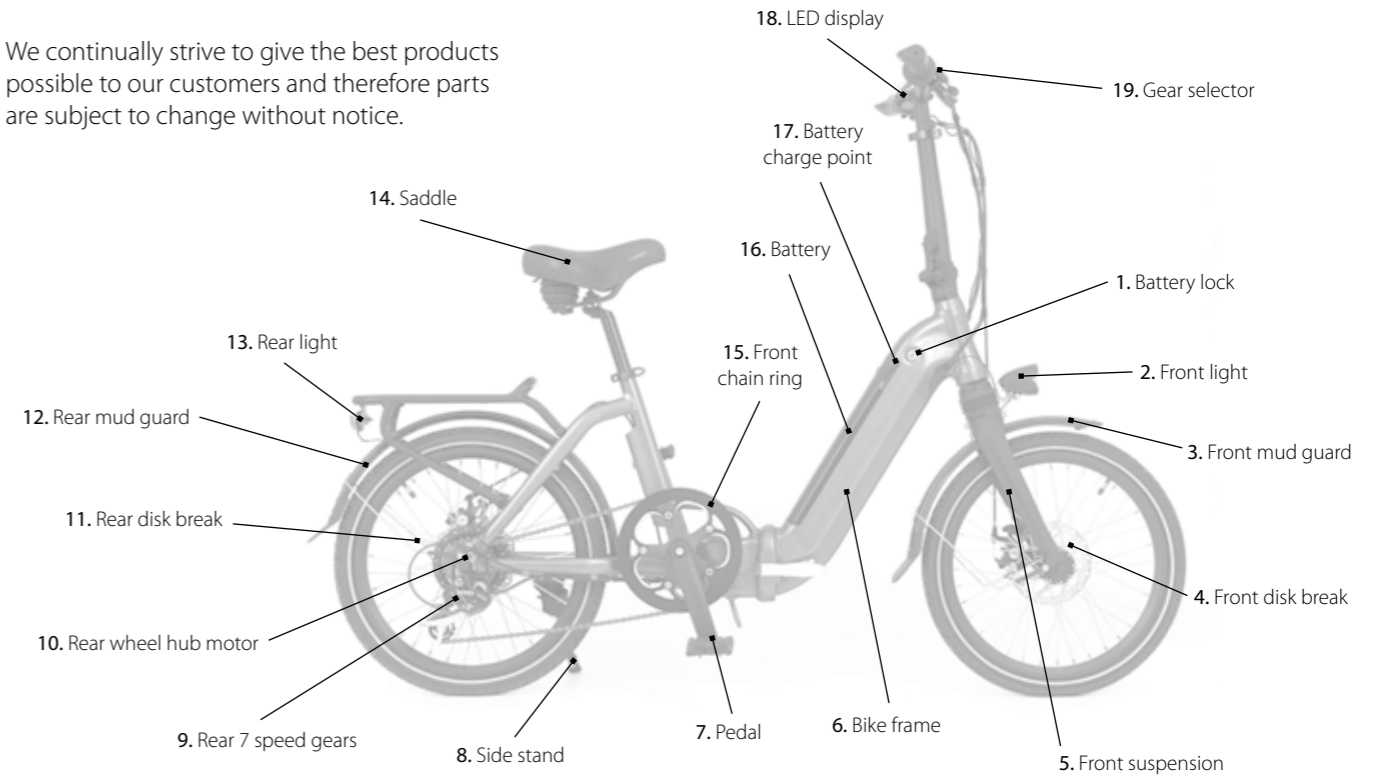
1 x Electric bike, 1 x Battery, 1 x Charger and 1 x User Manual

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Parts I.D

We continually strive to give the best products possible to our customers and therefore parts are subject to change without notice.



Bike Assembly:

Tools Required: 4mm and 5mm Allen keys, 15mm spanner

- **Remove all packaging carefully:** and select a good area to assemble the bike. Preferably on a non abrasive surface so you don't damage the bike.
- **Easier with two people:** Have someone hold the bike upright for you. Then remove the bolt on the arch of the front suspension fork using the 5mm Allen key.
- **Front Light and Front Mudguard:** To fit the front light and mudguard align the holes with the top of the front suspension hole. Insert the Allen key bolt and loosely tighten (don't fully tighten yet). Take the bolts from the side of the forks out, place the support arms over the holes and replace the bolts to secure the mudguard in place. Once complete, tighten bolts fully.
- **Handle bars:** Fold up the handle bar and lock off lever.
- **Front wheel:** Place bike in a bike maintenance stand or turn up side down so the bike is standing on the handlebars and saddle but again try to do this on a non abrasive surface to avoid damage. (remove battery first in order to lighten and make it easier to maneuver the bike) Once in position take the front wheel and the quick release skewer/axle bolt. Undo the plastic end cap and take off one spring (leaving one spring on). Slide the bolt through the Centre of the front wheel until it comes out the other side, then place the spring back on first (small

end first) followed by the plastic end cap and loosely tighten. Pick the wheel up and slide into the slots provided on the front fork and push downwards until it stops. Once aligned you can tighten up the skewer bolt. (lever should point upward when fitted correctly)

- **Disc brake:** If not already correct adjust brake by releasing brake cable with 5mm Allen key then adjust accordingly and re-tighten. Spin the wheel to make sure it spin freely. You can make minor adjustments by turning the plastic screw located on the brake cable near the brake caliper and with a 5mm Allen key on the opposite side.
- **Pedals:** Locate pedals, separate left and right pedals indicated by L / R print on threaded end of the pedal. Screw in each pedal in to the crank arms with your fingers ensuring not to cross thread them. Once located correctly, tighten with 15mm spanner.

Note: Your wheel should fully stop once the brake lever is depressed halfway. If it does not stop, re-adjust them accordingly.

Getting Started and how to use your power assistance:

Once your bike has been safety checked and is ready to ride the next step is to turn on the electric.

Press the power button on the LED display on the handlebars. In doing this the display should light up with red LED lights.

Once turned on the display will indicate battery life and it will automatically select the lowest level of pedal assist. This will be indicated by one red LED light nearest the minus sign of the assist part of the display.

At this point if you start to ride the bike the PAS assistance will automatically kick in and assist you whilst pedaling. (Tip: stay on the lowest level until you become confident enough to increase the power) You can increase the level of assistance simply by pressing the + button, this will be indicated by the LED light moving closer to the + sign. You can repeat this until you reach maximum assistance. (15.5 M.P.H) To come back down the assistance levels simply press the - button. **IMPORTANT:** Please be aware that the assistance is also sensitive to how fast you pedal and will only give you maximum assist when you are pedaling relatively fast. (this applies in most levels selected)

To turn off the assistance so you are only using manual pedaling either press the power button or move down through the assist modes with the - button until the LED no longer is lit up.

On the right hand side of the handlebars you will find (if fitted) a half twist grip throttle. When the bike is turned on, the throttle is active and operates independently of pedaling, a bit like a moped. (no requirement to pedal) Please note the red isolation

button also needs to be in the depressed position for the throttle to be on.

Simply twist the half grip throttle and it will propel the bike. It is limited though to what level of assistance you have selected on the PAS. (remember using the throttle will use more battery life up quicker).

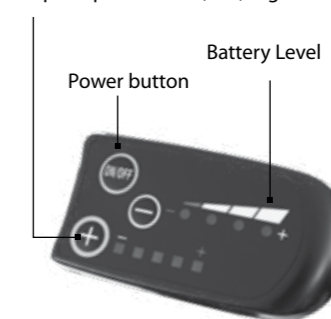
Tuning the lights On/Off

To turn the lights on/off simply hold down the + button for a few seconds.

IMPORTANT: When using the throttle try to avoid hill starts and only use pedaling when the bike seems under strain to avoid motor burnout. In not doing this it can also void your warranty.

LED display

5 Speed pedal assist (PAS)/Lights



Isolation button to turn throttle on/off.

Battery Charging & Removal

To charge the battery this can either be done in situ or via removing the battery first. The charge point is situated on the right-hand side of the battery. Turn on the charger first prior to plugging it in to the battery (the charger should indicate a green light). When plugging the charger in to the charge point the light will turn from green to red to indicate it is charging. It will then change from red to green to indicate when it is charged. (you can then remove the charger)

Step 1

If charging in situ simply lift silicone cover located on the side of the bike frame and insert the charger.



Step 2

If removing the battery before charging, locate key and proceed to turn clockwise until the top of the battery lifts up.



Step 3

Grip the top of the battery and lift out of the frame.



Step 4

To replace the battery place the the bottom in first then press the top in place – press firmly until it clicks into place. Once clicked turn the key to lock it in and remove the key.

Folding & Unfolding:



Step 1

Locate the lever halfway down the handle bar stem.

Step 2

Lift latch first then fold down lever and the handlebar will fold down.

Step 3

Flick up the bike stand and position the pedals so they do not interfere with folding the bike.

Step 4

Stand to the right hand side of the bike. Locate the locking pin at the bottom of the frame.

Step 5

Lift safety latch and then fold out the lever.

Step 6

Fold the bike in half and hold together with a small bungee cord or something similar.

To build the bike back up just do everything in reverse.

TIP: If lifting the bike remove the battery before folding down the bike to make lifting easier.

Maintenance:

Maintaining your bike ensures you will get the most out of every ride and increases the longevity of your RooDog electric bike.

How much you can do your self really depends on your skill, knowledge, experience level and if you have the necessary tools for the job.

If there is anything you do not understand or are unsure of how certain things work it is always best to contact your RooDog dealer for advice.

****Please be aware general maintenance is not covered by the warranty and is therefore a service that will be chargeable.****

Before every ride:

- › Check brakes, lights, gears and tyre pressures are correct.
- › Check fasteners, bolts and anything else that may come loose over time.
- › Check battery is fully charged, or at least has enough charge to complete your planned journey.

Weekly:

- › Clean the bike, including chainring and gears – (do not use excessive water around electrical parts)
- › Oil the chain, and keep all moving parts well lubricated and free from damp.

Every month:

- › Check for worn brake pads and replace if necessary.
- › Check headset for looseness by rocking the bike back and forth whilst having the brakes applied. If loose have your dealer check it.
- › Check free movement of handlebar. If tight have dealer check it.
- › Check cables for free movement, rust, kinks and fraying. Replace if necessary
- › Check wheel spokes are all tight and wheel spins true. Have your dealer fix it if they are not. (spokes can break and wheel rims can be bent if this is not regularly checked)
- › Check tyre for tread and check sidewalls are in good condition. Replace if necessary.
- › CHARGE THE BATTERY!!!!

Every 3000 miles or annually:

- › Have the bike inspected and serviced at your local dealer including general inspection of the hub motor and all electrical parts.

Maintenance Continued:

Tyre pressures:

- › Tyres should be routinely checked for correct pressure. (this is stated on the tyre side wall). Failure to do this will result in tyre or rim damage, more energy will be required to propel the bike (meaning less miles per charge) and possibly may even result in a puncture.

Repairing a puncture:

- › If you have a puncture we recommend you have it repaired by a specialist.
- › To remove the rear wheel you must first separate the electric hub motor from the bike. In order to do this, locate the cable coming out of the hub motor and follow it along to the quick release (QR) plug. Disconnect the plug and all clips and ties before attempting to remove the rear wheel.
- › Prior to removing the wheel from the frame take note how all the washers are situated so you can replace them in the correct order in which they came off.
- › When replacing the wheel back in the frame, ensure the bolts are aligned correctly (you may need a 10mm spanner to help) and seated right and all washers are in correctly before tightening up the nuts to hold it in position.
- › Finally reconnect the motor plug fully so the clip clicks in. (incorrectly replaced in may result in a sudden lose of power or may even damage the contacts connecting the motor).

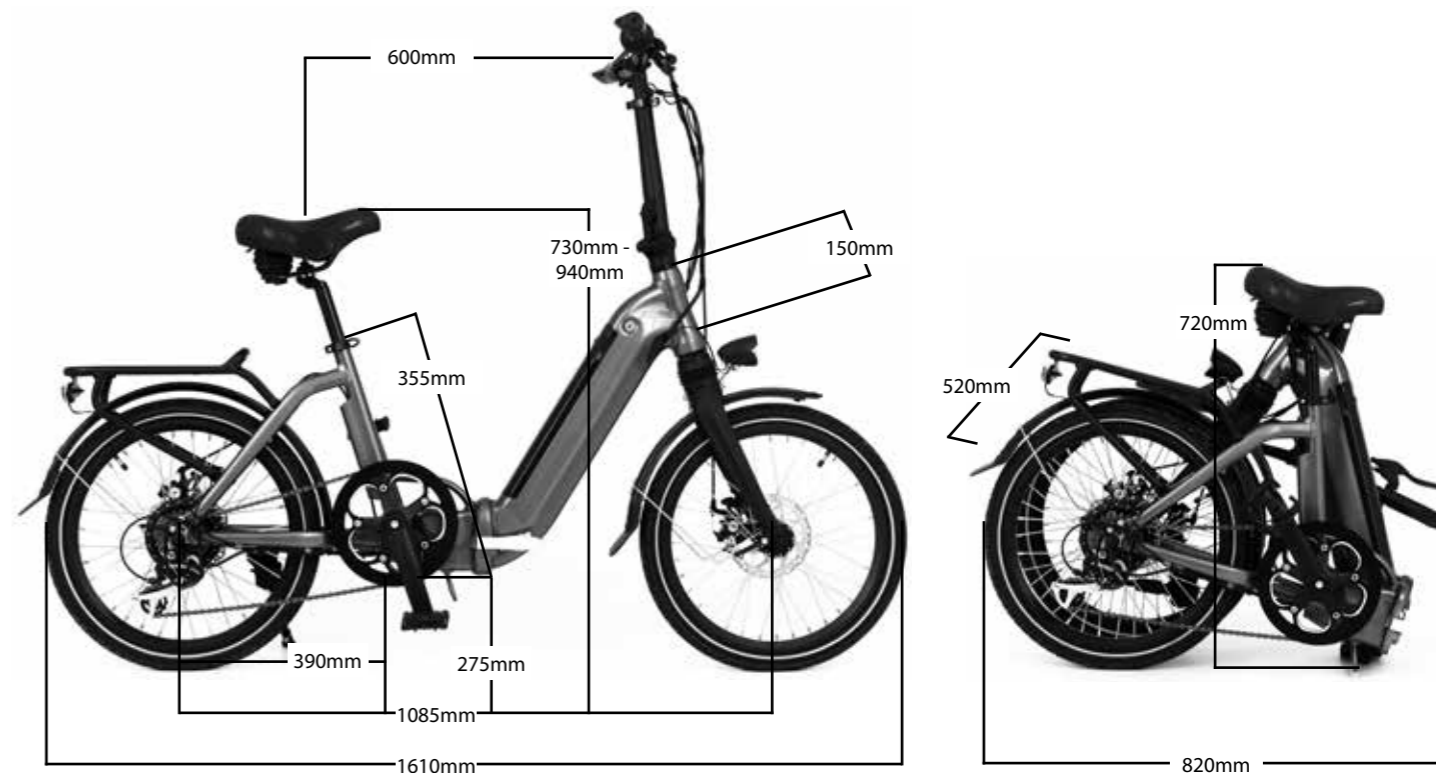


Motor QR plug:

Pull/push quick release plug. Please align arrows correctly when replacing to avoid damaging terminals.

General Specifications

Motor:	250W 36V rear wheel brushless hub motor (with max. speed of 15.5mph which is allowed by UK/EU regulation)	Gears:	Shimano 7 speed Megarange
Battery:	36V 13.2Ah, Lithium-ion battery (hidden within the frame)	Tyres:	Kenda, 20"x 2.125 city style
Charge time:	4-6 hours from flat	Frame:	Aluminium alloy
Range:	Up to 40+ miles per full charge (on highest speed setting), dependent on weight of cyclist, frequent use of PAS, air pressure in tyres, road conditions etc. (please note continually using the throttle and/or hill climbing will significantly reduce the range of battery)	Lights:	LED
Display:	Battery indicator, management of the 3 speed, LED lights and PAS system	Front fork:	Aluminium alloy suspension
Power mode:	Pedals only or pedal assist (a combination of motor and pedalling); all bikes are also throttle fitted (which means no pedalling is required). Please note throttle speed is capped at 4mph by UK regulation	Brake:	Front/rear Tektro disc brake front 180mm, rear 160mm
Controller:	5 speeds	Max load:	120kg
Rims:	Aluminium alloy, double wall (BLACK)	Weight:	24.5kg including battery, 22kg without



Warranty:

Requirements for warranty:

- › Please retain your receipt as proof of purchase as this is your warranty and warranty will start from the date of purchase.
- › Warranty is non transferable and only applies to original owner.
- › Warranty covers – main bike frame, front forks, mud guards, wheel rims, gears, bearings, motor casing and hub motor, LED controller display, brakes (excluding brake pads), battery and charger.

Items covered by 2 year warranty:

- › Battery (provided cared for in conjunction with battery care instructions)
- › Motor casing & Hub Motor
- › Bike frame

All other parts covered by the warranty are guaranteed for a period of 12 months.

Exclusions from warranty:

- › When subject to neglect or misuse or resulting in damage due to an accident.
- › Poor maintenance or modifications that no longer complies with regulations or original technical specifications.
- › Damage due to external causes such as left out in heavy rain, or long term weathering causing rust and decay etc.
- › The bike is put up for hire.
- › The Battery is used incorrectly or tampered with (warranty seal is broken). This also applies to charging. (always use the charger provided by the manufacturer)
- › Battery is not cared for in conjunction with the battery care instructions provided.

Items not covered:

Brake pads, tyres, lights and cables or anything else that can be seen as consumables. These parts can however be purchased from RooDog Ltd or from your local Retailer/bike shop.

Troubleshooting

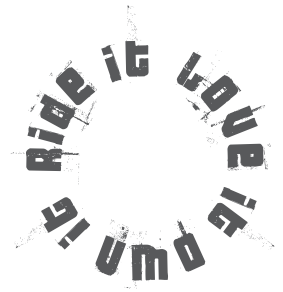
Problem	Possible Causes	Solution
Power on but motor not working:	<ul style="list-style-type: none"> › Motor not connected correctly. › Rotation disc damaged or not close enough to sensor. › Brake lever is pulled in triggering the cut off sensor. › Loose connection or controller fault. 	<ul style="list-style-type: none"> › Check connection plug is pushed together fully. › Clean and push closer if needed. Contact dealer if damaged. › Make sure both brake levers are fully out not triggering the sensor. › Contact your dealer.
No Power at all:	<ul style="list-style-type: none"> › Uncharged or dead battery. › Key not turned on. › Faulty switch or loose connection somewhere. i.e the LED display. › Faulty controller 	<ul style="list-style-type: none"> › Recharge the battery and try again. If problem remains then contact your dealer. › Check the key is on position › Check the connections of the LED display, the motor and the battery. › Contact your dealer.
Traveling shorter distances per charge than rated:	<ul style="list-style-type: none"> › Hill climbing, frequent stop/starting, head wind or heavy load, excessive use of throttle. › Tyre pressures too low. › Battery under charged or faulty charger. › Battery capacity loss or damage 	<ul style="list-style-type: none"> › Use 1.1 pedal assist and pedal harder. Reduce the use of throttle and lighten the load when ever possible. › Inflate tyre to correct amount indicated on tyre sidewall. › Charge the battery or contact dealer. › Contact dealer to inspect.

Troubleshooting Continued:

Problem	Possible Causes	Solution
Charging: Charger light stays green when I plug in to the battery. Why? (the light should turn red to indicate the battery is charging and green when it is full)	<ul style="list-style-type: none">› Battery is already full.› Charger lead not connected to the battery properly› Fault with the charger.› The battery has gone in to sleep mode due to not been charged to protect the cells.	<ul style="list-style-type: none">› Drain some power by riding the bike and then retry charging.› Check the connection.› Contact Dealer.› Contact Dealer.
Charger doesn't work:	<ul style="list-style-type: none">› Fuse has blown.› Has been damaged through misuse.	<ul style="list-style-type: none">› Change fuse and retry.› Contact dealer.

Important:

Always use the charger supplied by the manufacturer to avoid damaging your battery



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