



05/2020



## ELECTRIC POWER ASSISTED CYCLING - MANUAL



Model: **RANGER**



POWER ASSISTED BICYCLES

## **IMPORTANT!**

PLEASE REMEMBER THAT  
IT IS IMPORTANT TO KEEP  
THE CARTON YOUR BIKE  
ARRIVED IN , COURIERS  
CANNOT COLLECT YOUR  
BIKE WITHOUT A CARTON  
SHOULD YOU HAVE NEED  
TO RETURN IT TO US.



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### ***Need assistance?***

Please call our  
Technical help line:  
(weekdays 9am-5pm)

**01702 208187**

(standard call rate charge applies)

## Check List

1. Your complete E.LiFe bike
2. Box containing:  
Battery Charger and power lead.  
Pedals  
Tool Kit in Bag
3. Owners manual
4. LED Controller manual

Firstly may we congratulate you on purchasing your new electric power assisted e.bike.

Please take time to read your manuals.

We have tried to write it in a way that is simple and easy to follow, whilst explaining how your bike works and how it is maintained.

At any point if you feel you need help we have a technical helpline for support.

## Welcome to E.LIFE power assisted cycling

Simply explained this is how your electric bike basically works.

1. Switch the power on by pressing the 'POWER' button on your controller on left-hand side of the handlebars.
2. As you begin to pedal a sensor will read the level of effort needed to turn the wheels of your bike.
3. After one complete turn of the crank the electric motor kicks in making pedalling much easier.
4. There are 5 settings on your controller on the handlebar, allowing you to set the level of assistance you require. For example: Riding up a hill you'll probably use 'level 3 - 5', mode.
5. Change the level of assistance you need, any time and as often as you wish.
6. The motor works to assist pedalling, stop pedalling and the motor stops too.
7. Applying the brakes cuts the power to the motor
8. You can also choose to switch the assist OFF and ON on the controller at any point in your journey. This helps to save battery power if it's not needed.
9. There is also a handy 'Walking Mode' which gives assistance whilst walking with your bicycle.

The more you use the assist, the more power it uses, each rider is different so figures can vary considerably with different rider weight and the terrain you ride. Generally with normal use, you should be able to obtain around 20-25 miles, before you need to re-charge your battery.

We recommend that you get used to your new e.bike and the level of assist you place on it, you'll soon be able to work out how long a journey you can make and safely return under assist. You can of course ride as you would a normal bike if the charge runs out.

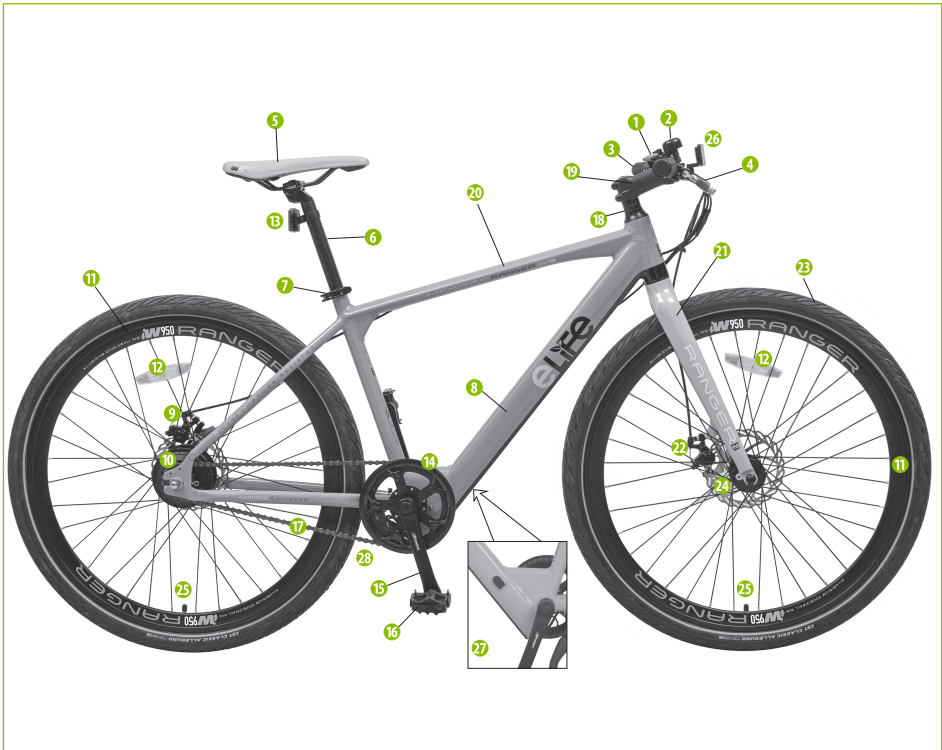
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## Schematic of your new bike

*We realise that not everyone is an ardent cyclist and for some of you this might be your first real step back into cycling so we have added a diagram of your bike below to give you a little better understanding of the parts on your bike, and where they can be found.*



- |               |                            |                   |                     |   |
|---------------|----------------------------|-------------------|---------------------|---|
| 1 Contoller   | 7 Quick release Seat clamp | 13 Rear Reflector | 19 Handlebar Stem   | 25 Innertube Valve                                  |
| 2 Bell        | 8 Internal Battery         | 14 Chainguard     | 20 Bike Frame       | 26 Front Reflector                                  |
| 3 Grip        | 9 Rear Disc Brake          | 15 Crank Arm      | 21 Front Fork       | 27 Battery Charging port<br>(lower left side)       |
| 4 Brake Lever | 10 Rear Motor              | 16 Pedal          | 22 Front Disc Brake | 28 Fold-up Bicycle stand<br>(Fitted but not shown.) |
| 5 Saddle      | 11 Deep section Wheel Rim  | 17 Chain          | 23 Tyre             |   |
| 6 Seatpost    | 12 Wheel reflector         | 18 Stem spacers   | 24 Brake Disc       |   |

**Handy Tip:** *It's a good idea to rest your bike on the bike stand which is attached to the rear chainstay, this makes it much easier and leave your hands free to make adjustments to other parts.*

## Unpacking your new bike

Your bike comes 98% assembled in the Carton, you only need to fit the pedals, and turn the handlebar assembly and adjust the saddle assembly.

**1.** Before you begin to unpack your e.bike we recommend you get another person to assist you as it's much easier with 2 persons to lift out of the carton.



**2.** Remove all the packing materials used to protect the bike and dispose of it later in a responsible manner.

**3.** Once you have unpacked the bike it is a good idea to check to make sure there has not been any damage in transit. ( If you find anything missing or damaged, contact the Technical helpline below.

Having unpacked your bike follow the simple steps of fitting the pedals and adjusting the handlebar and saddle assemblies by following the instructions on the next page.

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Slot the wheel axle into the fork drop-outs



Make sure the disc slots into the brake mechanism.



Front wheel skewer



Sliding the skewer into hollow axle

## Setting up your e.bike

### Squaring the handlebar to the front forks

After unpacking you will need to square the handlebars at 90° to the front forks.

1. To do this simply slacken slightly the allen key bolts (B). You should be able to adjust but may need to slacken allen key bolt (C).
2. Once you are happy with the alignment tighten bolt C taking care to only nip tight, **do not overtighten**, then fully tighten bolts B.

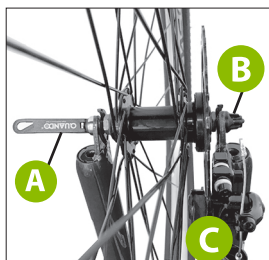
Depending on the model, your new e.bike may have the front wheel already fitted, if so simply move on to 'Adjusting the saddle' on page 8

**At this point it is a good idea to turn your bike upside down resting it on the handlebars and seat tube.**

This makes fitting the front wheel and the pedals much easier. **Note:** To protect the seat tube and bars from scuffing place a suitable material on the floor to avoid damage.

### Fitting your front wheel

1. Place the wheel axle in the fork drop-outs making sure the axle is seated properly.
2. It is important to ensure that the brake disc on the wheel slots into the disc brake mechanism on the fork blade. C
3. Take the front wheel skewer from the box and open the tension lever A on the skewer and unscrew the nut B from the other end and remove one of the springs.
4. Slide the skewer along the hollow axle making sure the tension lever is on the opposite side to the disc brake.
5. Replace the spring and nut and lightly tighten.
6. Close the tension lever ensuring tightness.
7. Closing the lever should require a little pressure, but if too hard or easy to close, open the lever and turn the nut a quarter turn to either tighten or loosen. Repeat till correct tightness is achieved when closing the tension lever.



Make adjustments to the tightness of the skewer when the tension lever is in open position as shown.



Adjusting seat clamp



Micro-adjust saddle



Stamped crank ends 'L' and 'R'

## Fitting your front wheel (cont.)

Always spin the wheel to ensure the wheel is running freely.

**Handy tip:** *It's a good idea to rest your bike on the bike stand which is attached to the rear chainstay, this makes it much easier and leave your hands free to make adjustments to other parts.*

## Adjusting the saddle

**NOTE:** Be sure not raise the seatpost higher than the minimum insertion point marked clearly on the seatpost.

The Saddle and Seatpost are already fitted together and fitted into the seatube on your bike.

1. Adjust the height of the seatpost by sliding into the seatube and close the tension lever on the quick release clamp to lock your seat in place when at the correct height.
2. If the clamp does not tighten enough to hold the saddle in position simply lift the tension lever to release and turn a quarter of a turn clockwise and close the tension lever.

Repeat as necessary.

3. Using an Allen key release bolt A allows you to position forwards or backwards along the saddle rails, at the same time you can tilt the saddle up or down giving you a precise saddle position to suit you..

## Fitting the pedals

**NOTE:** Should you ever need to replace the pedals remember the right pedal tightens clockwise and the left pedal anti-clockwise.

Match the left pedal to the left crank, and the right pedal to the right crank.

Left pedal - tightens **Anti-clockwise**

Right pedal - tightens **Clockwise**

Tighten the pedal as far as possible with your fingers. Use the tool provided to tighten them firmly



Check battery for charge



Press the power button



Applying the brakes activates the brake sensor which cuts the power to the motor.

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## Pre-Ride checks

Complete these checks before every ride

1. Check to make sure all nuts/fastenings are tight
2. Check that your tyres are inflated sufficiently (see tyre wall for correct pressure)
3. Check that the brakes are working correctly. (These are set by the factory and should not require adjusting).

## Getting started

1. With the power on your LED Display Controller switched on check your battery for charge.  
(Note: Your new E+PLUS battery is supplied with a partial charge)
2. 'MODE' is set on '1' - This is a default setting.  
**THAT'S IT.....**You're ready to go.
3. To start, simply begin to pedal. Once the crank is turning you will feel the motor kick-in and the electric system begin to assist you.
4. You have 5 levels of assist and it's a good idea to try all levels to give you a feel of the effect this has on your riding. (see next page)
5. Remember, stopping pedalling or braking cuts the motor assist, so you can always feel safely in total control.

Applying the brakes activates the brake sensor which cuts the power to the motor.



Press to switch ON/OFF



Press to increase assist levels 1-5



Press to reduce assist level 5-1.



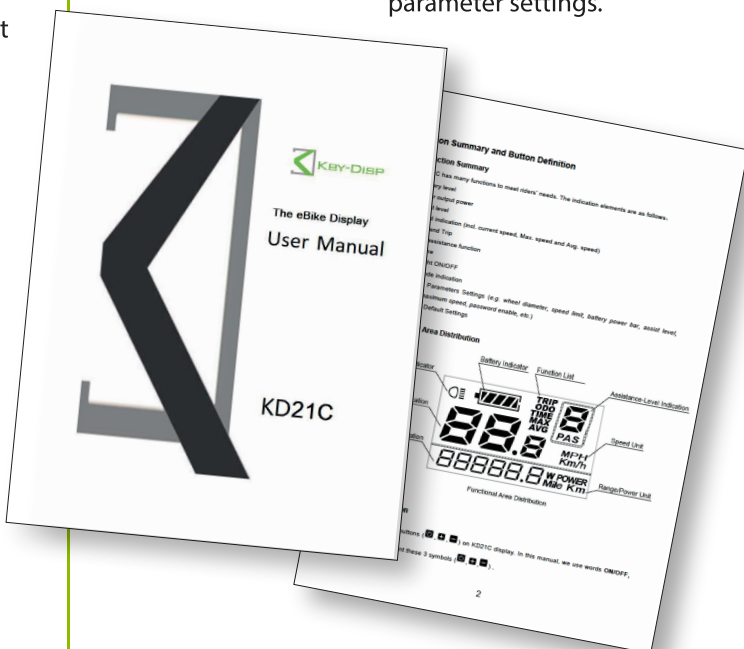
Holding down this button activates the 'WALK MODE' which engages the motor from a standing start upto around 4 mph which is a great way to set of from traffic lights, or when walking with your bike.

## Understanding your controller

Your intelligent LCD Display Controller has many functions yet is relatively simple and easy to operate. The basic operations are listed on the left.



Your Owners Manual comes complete with a User Manual for your E.Bike Intelligent LCD Display Controller which fully explains the many functions such as: General operations, Setting plus options for personalized parameter settings.



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## Understanding your battery

### Internal battery

At first glance you would be hard placed to know this bike is an e.bike at all with its slim/sleak look.

The battery is situated inside the main downtube of your bike and apart from the general esthetics, being inside the tube has the added benefit of keeping the battery clean and dry at all times.

### 1. Battery operation

The battery is connected to the LED Controller on your handlebars. Switching the power ON/OFF is by way of the power button on the controller.

When not in use, after 10 minutes the controller switches OFF automatically so as not to drain the battery even though the drainage is minimal.

When controller is switched on the power level of the battery is constantly visible on the controllers LED screen.

To charge your battery connect the charger with the lead supplied by removing the rubber cover and inserting the pin connector, plug into the main and then switch on the power.

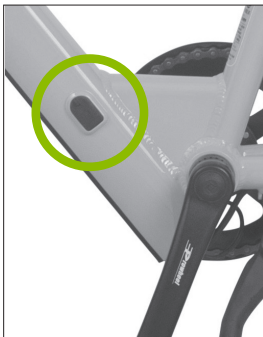
### 2. Battery Charger

**a. NOTE:** Only charge your battery with the Charger supplied with your e.life bike.

The charger is set to 220/240V. Never use 110v setting.



Press the power button to switch power ON/OFF



The Battery charging point can be located on the lower left-hand side of the frame as shown.





Battery charging connection point



Battery Charger

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## **2. Battery Charger (cont.)**

- b.** Avoid dropping the Charger as this may damage the sensitive electronics within the casing.
- c.** You can leave the battery charging, it will stop charging by itself when it has reached full charge, but it is not recommended to leave charging for any considerable time over what is required.

## **Charging your Battery**

Your Lithium Battery arrives partially charged.

Your Battery is charged on your bike.

- 1.** Plug your charger into the mains, the LED light will illuminate GREEN
- 2.** Connect the charger to the battery using the lead provided, the LED light on the charger will change to RED. This indicates it is charging.
- 3.** Once Fully charged the LED light on the charger switches back to GREEN indicating the battery is fully charged, and then goes off.

### **Basic rules to follow if charging your battery**

- 1.** Do not cover charger with any material of substance that may restrict airflow to the charger. The charger needs to 'Breathe' to keep cool.
- 2.** Charging your battery each time you use it no matter how far the trip, will prolong the life of the battery.
- 3.** DO NOT leave the battery discharged for long periods.
- 4.** Never open the charger or change settings on charger.

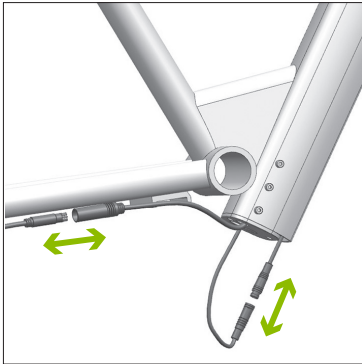
To fully charge your battery  
takes approx. 2-3 hours



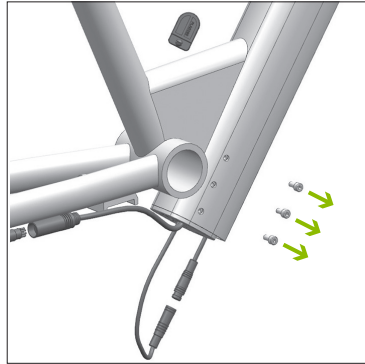
## Removing your Battery

It is NOT necessary to remove the battery for the general use of this bike. However, if during regular maintenance etc. your mechanic requires the removal of the battery we suggest you follow these steps.

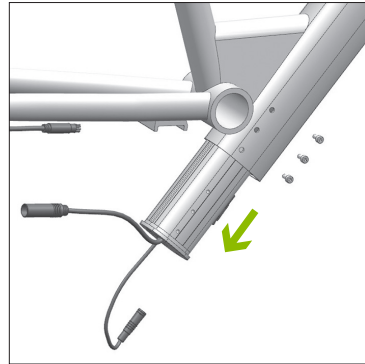
To replace the battery simply reverse the steps.



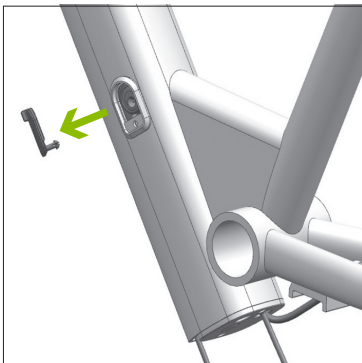
**Step 1.** Disconnect wires to controller



**Step 3.** Remove the 3 screws



**Step 4.** Pull out the battery



**Step 2.** Remove charging port rubber plug



**Step 5.** Remove the 4 screws to separate the battery from the controller.



It is ok to oil the front and rear axles and chain . The Motor should not be lubricated.

## Maintenance of your e.bike

### General

1. Wipe your bike over with a dry cloth, or neutral detergent.
2. Use lubrication oil for metal parts. i.e. chain, axles.
3. Wipe down Plastics and paint coated parts with a quality cloth.
4. Increase the frequency of lubricating oil at wet or humid areas  
( Recommend 30SAE lubricating oil)

### Weekly Inspection

It is recommended that after this period you should inspect your bike as things will slacken off and need re-tightening.

### 3 Month Inspection

We recommend after 3 months you complete a full service on your bike to keep it in excellent working order. The simplest way is to take into your local bike shop.

When storing your bike when not in use, ensure the battery and store in a cool, dry place, charging periodically as the battery will discharge over time of non use. Failure to do this will result in the battery falling into a dormant state rendering the battery unrepairable.

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### PLEASE NOTE:

If you do not feel that you can complete the maintenance of your bike, please take it to your local bicycle workshop where they will be able to assist you.



## Safety on your bike

Getting used to your new electric bike is always a wise step to take.

It therefore makes common sense, for your first few rides, to choose somewhere away from major roads with traffic, people and obstacle whilst you become familiar with the controls and gain confidence in how your electro- assist works.

It is now compulsory to always wear a Helmet when riding a bike but there are also other items of protection you might consider ....not forgetting your eyes.

Most serious cycling accidents involve head injuries, some which may have been avoided had the rider worn a correct helmet. Check your helmet meets the correct classification standards appropriate for the riding you're doing. ( Check with your local Argos store or website)

Please make sure you wear clothing and footwear appropriate for riding, loose clothing and loose shoe laces can cause accidents if caught in moving parts on your bike.

Remember this is the UK, and the weather is changable, either wear or pack waterproof clothing.

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## **Safety on the Roads**

When you join the road system you must obey the Traffic Laws like the rest of the vehicles travelling along that road.

Always exercise maximum caution on busy roads especially around large vehicles as you are not always seen.

Be aware that in wet conditions your brakes stopping power ( and those of other road users) is greatly reduced.

When riding at night make sure your bike conforms to the lighting laws as cyclists are often hard to spot for drivers and pedestrian, especially in the winter months where hours of daylight are reduced. Your trip out may be in daylight...your trip back may not.

Keeping your e.bike well maintained, wearing the right clothing, and following some common sense rules will reward you with many hours of fun and enjoyment for many years to come....

....Happy Cycling.

## Simple Troubleshooting

In reality there are not many things that can go wrong with an electric bicycle so generally speaking any problems you may have, should be easy to resolve.

Problem :	Make these checks :
Power indicator on the Controller does not light up	Has the battery been switched on? Does the battery have a charge?
Power indicator on the Controller lights up but the motor doesn't start.	Check that <b>all</b> the cables are connected. Check that the sensor and sensor disc are not damaged
The Battery is showing no charge	check that your charger is working correctly.
My charger is not charging the battery	Check the fuse in the charger plug. Check that the cabled are connected properly.

If you make the checks outlined above and your electric bike is still not working then please call our technical helpline for assistance.

Should you ever need to remove or replace your pedals it is important to know that left-hand pedal screws in **ANTI-CLOCKWISE** and the right-hand pedal screws in **CLOCKWISE**. Pedals are normally stamped on the ends of the axle of the pedal as in the photo, L and R.

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## Warranty

Subject to the following, Ideal World warrants that the goods will correspond with their specification at the time of purchase and will be free from defects in material and workmanship.

Ideal World offers a 2 year warranty on the frame from any problems relating to manufacturer workmanship or arising from material defects including breakages or cracking caused whilst riding ( other than rider misuse).

Ideal World offers 12 months warranty on the battery and motor for any problems relating to manufacturers workmanship or arising from material defects.

The warranty does not cover misuse or failure to follow the manufacturer's operational instructions correctly.

All other components are guaranteed for 1 year for problems related to manufacturer workmanship or arising from material defects with the exception of consumable components for example brake blocks, pads, grips, tyres and tubes.

Ideal World offers this warranty to the original purchaser of the product. This warranty is not transferable to a third party.

### PLEASE NOTE:

Any figures quoted regarding battery performance or distances which can be obtained per single charge are based on standard test conditions. Diverse terrain and rider weight will of course produce varying results from those stated.

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