



ASSIST

ELECTRIC POWER ASSISTED CYCLING



OWNERS MANUAL

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

Please take time to read your manual. 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.

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

01702 208187

(standard call rate charge applies)

Electric power assisted cycling.

Simply explained this is how your electric bike basically works.

1. Switch the battery to ON, with the switch on the side left-hand side of the battery.
2. Switch the power on by pressing the 'ON/OFF' button on your controller on the handlebars.
3. As you begin to pedal a sensor will read the level of effort needed to turn the wheels of your bike.
4. After one complete turn of the pedal the electric motor kicks in making pedaling much easier.
5. There are 3 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 'HIGH', mode.
6. Change the level of assistance you need, any time and as often as you wish.
7. The motor works to assist pedalling, stop pedalling and the motor stops too.
8. Applying the brakes cuts the motor assistance.
9. 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.
10. **NEW** Walk Assist - By pressing and holding the small '6km/h' button on your controller the motor moves your bike along at up to 6 km per hour as you walk with 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 32km 15-20 miles, before you need to re-charge your battery.

We Recommend that you get used to your new electric 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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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.

Check List

1. Your complete ASSIST electric bike
2. Saddle & Seatpost
3. Box containing:
 - Battery Charger and power lead.
 - Pedals
 - Tool Kit in Bag
4. 2 Keys: these are attached to handlebars
5. This Manual

Unpacking your new bike

Your bike comes 98% assembled in the Carton, you only need to Fit the pedals, align the handlebar assembly and adjust the height of the saddle assembly.

- 1.** Before you begin to unpack your e.bike we recommend you get another person to assist you as it is much easier with 2 persons to lift out of the box.
- 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 Halfords customer services or telephone the technical helpline.

Having unpacked your bike follow the simple steps of fitting the pedals, aligning the handlebars and adjusting the height saddle by following the instructions on the next page.

TIP: Is it a good idea to place the bike on the stand attached to your bike as this makes it a lot easier to complete the simple assembly.

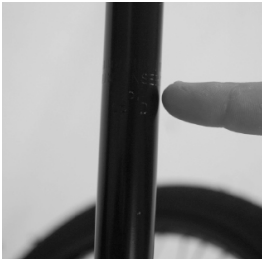
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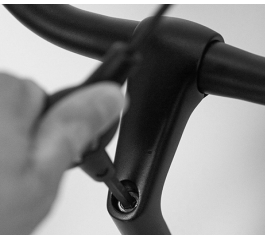
Stamped Crank ends 'L' and 'R'



Minimum insertion mark



Adjusting seat clamp



Tighten allen key bolt to lock handlebars in place when at 90 degrees to front wheel.

Setting up your e.bike

Fitting the Pedals

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

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

Adjusting the Saddle

1. Slide the seatpost up or down in the seatbube and close the tension lever on the quick release clamp to lock your seat in position.
2. Further adjust the saddle height by releasing the clamp and tightening when what you feel is a at the most comfortable height for you.
4. If the clamp does not tighten enough to hold the saddle in position simply release the tension lever and turn a quarter of a turn on the knurled wheel nut and close the tension lever.

Repeat as necessary.

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

Adjusting the Handlebars

The handlebar assembly comes fitted into the frame of your bike, simply align the handlebar till they are at 90 degrees to the front wheel and tighten the central nut with the allen key provided, taking care not to leave any of the cables behind the Stem.



Switch battery ON



Check battery power indicator on the controller.



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)
3. Check that the brakes are working correctly. (These are set by the factory and should not require adjusting).
4. Check your battery for charge.
(Note: Your new battery is supplied with a partial charge)

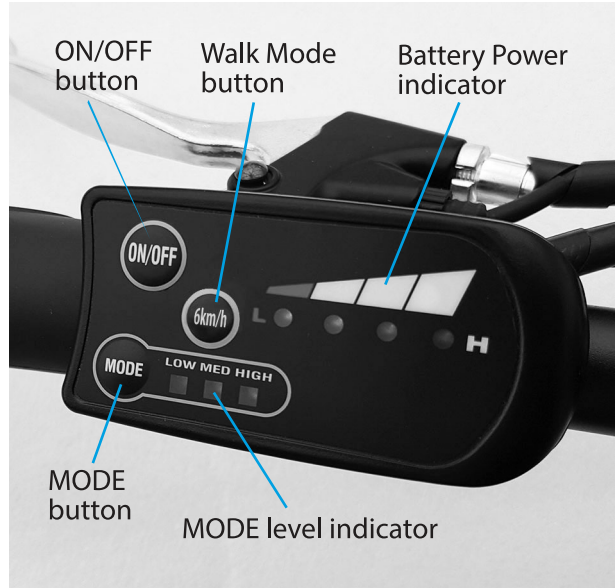
Getting Started

1. Switch the battery on with the switch on the left-hand side of your battery
2. Press ON/OFF button on the Controller on your handlebars
3. 'MODE' is set on 'LOW' - This is a default setting.
THAT'S IT.....You're ready to go.
4. 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.
5. You have 3 levels of assist and its a good idea to try all levels to give you a feel of the effect this has on your riding.
6. 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.

Understanding your controller

Your Module Controller has several functions and is relatively simple and easy to operate, we have listed the buttons and their various functions.



ON/OFF

Press to switch power

MODE

Press to increase/reduce assist levels High to Low.

6km/h

Holding down this button activates the 'WALK MODE' which engages the motor from a standing start upto 6km/h (approx. 4 mph) which is a great way to set off from traffic lights, or when walking with your bike.

1. **ON/OFF** button - Switch on after you have switched battery switch to 'ON'
2. **MODE** button - 1- 3, easy selection levels of assistance
3. Battery Indicator lights - These are red and go down as you use the power.
4. **L - H LIGHTS** - As you ride up a hill the power indicator drops down showing increased resistance levels, but once back to level ground the indicator lights will return to a more accurate position of available power levels.
5. This bike has a 6km walking mode function, which allows you to push your bike effortlessly over steep ridges or hills. You can activate this function by holding down the **6km/h** button for 3 seconds.



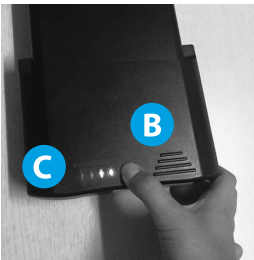
Battery lock



Withdrawing the battery from the case.



A



C

B



D

Understanding your battery



1. Security

1. You are supplied with 2 keys to secure your battery to your bike. It is advisable to separate the keys as they **CANNOT BE REPLACED IF LOST.**
2. The key secures your battery to the bike and by unlocking, the battery can be removed by pulling and sliding backwards out from the rear carrier.
3. To replace simply reverse the procedure.

2. Battery operation

- A Switching ON/OFF is by way of a switch on the rear left-hand side, remember to switch OFF when not in use as this may drain the battery.
- B To check the power level of the battery simply press the Indicator Button and check the light display. **C**
- Please Note:** This can only be done with the power switched on.
- D To charge your battery connect the charger with the lead supplied by removing the rubber Stopper and inserting the pin connector, plug into the main and then switch on the power.

3. Battery Charger

1. **NOTE:** Only charge your battery with the Charger supplied with your electric bike. The charger is set to 220/240V. Never use 110v setting.
2. Avoid dropping the Charger as this may damage the sensitive electronics within the casing.
3. 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 can be charged on or off your bike.



Battery charging connection point

CHARGING PORT

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 when 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



Battery Charger

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Maintenance of your electric 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 stored and not in use remove 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.

PLEASE NOTE:

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



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

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Simple Troubleshooting

If unsure on any of these points, or you fail to correct the problem, please call the helpline who will be able to advise you.

Problem	Check	Action
Low Speed	battery power	Charge Battery
	Tyre pressure	Inflate tyre
	If tyre flat	Repair tyre
	Load	Do not overload
The Motor is not working Power indicator light does not come on	Power Connections	Ensure every plug is connected Check the sensor is still in place on the on the bottom bracket Contact Helpline
Power indicator on battery is on, but the bike doesn't work.	Loose wiring or connection.	Check wiring and connections, check Sensor as above Contact Helpline.
Reduce battery performance.	Is the battery fully charged?	If NOT, charge fully.
Charger not giving full charge.	Check the light on charge remains RED during charging period?	If NOT, replace charger
Low Battery power	charger works correctly?	Replace Battery.
Brakes loose	Cable tension Worn blocks	Take to your local Halford's branch

Warranty

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

Halford's offer 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).

Halford's offer 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.

Halford's offer 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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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 considernot 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 Halford's store)

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.



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.

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Helpfull hint.

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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B-Spoke Leisure LLP

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