OXYGEN

USER MANUAL

CONGRATULATIONS

On the purchase of your new Oxygen Electric Bicycle

Thank you for choosing an Oxygen Electric Bicycle – we hope you enjoy your new purchase and you will be fully satisfied with the quality of our product. To ensure your outdoor adventures on your new electric bicycle are not only enjoyable but safe, please take a few minutes to read this manual.

Electric bikes are an eco-friendly form of transportation – your purchase has contributed to our efforts towards helping the environment. At Oxygen, not only do we aim for 100% customer satisfaction from the quality of our products, we are dedicated to reducing our carbon footprint.

As part of our aim to satisfy our customers' expectations, we carefully read all comments and suggestions regarding our products. We hope you thoroughly enjoy your new Oxygen Electric Bicycle.

Important:

With your Oxygen Bicycle you will recieve 12 months of warranty.

If you register your bike within 14 days of purchase the warranty will be extended by an extra 12 months (24 months total). Please register your bike at oxygenbicycles.com or alternatively call 01709 886677

Serial numbers can be located below the headset on the front of the bicycle where the 'O' is. On the GO! model it is located down the seat tube.

WARRANTY

Your Oxygen Electric Bicycle purchase includes a statutory 12 months warranty. Register your bike within 14 days to extend this warranty to 24 months.

To register your bike please go to:
http://www.oxygenbicycles.com/support/register-your-bike/
or call our office on 01709 886677

Please retain proof of purchase as this will be required to process any warranty claims.

- Once registered, your Oxygen Bicycle is covered by our 24 month warranty against electrical failure.
- The battery on your oxygen bicycle is covered for battery depletion over 20% of the original capacity per year up to 40% over a 24 month period when registered.
- Items such as Brake Pads, Cables, Tyres and Lights are considered as consumable items and will not be replaced under warranty by Oxygen Bicycles.
- Oxygen Electric Bicycles cannot be held responsible for any damage to the bike caused by the bike not being serviced or maintained properly, accidental damage, misuse of the bicycle or general wear and tear.
- In the event of a warranty claim, the bicycle should be returned to the authorised Oxygen stockist – where the bicycle was originally purchased from. Any defective parts should be returned to Oxygen for assessment.
- Delivery and collection charges are not covered by the warranty, these should be borne by the owner.

Please see http://oxygenbicycles.com/support/warranty for more details on warranty

Note that you will only receive 12 months warranty for commercial use.

INTRODUCTION TO E-BIKES

eBikes, or Electric Bikes, are bicycles equipped with an electric motor, control unit and battery. An eBike can reach a maximum speed of approximately 15.4mph - for safety reasons, when this speed is reached, the motor will switch off automatically. At this point, you will continue riding as any other bike, if the battery becomes flat, or the electric motor switches off, continue to use the bike as a manual pushbike, using your own power without the need of assistance.

The "walk assist" function is useful as you set off on your bike journey, or during the journey if you need to manually push the bike uphill; this function reaches a maximum speed of 4mph. To activate this function, use the control button or accelerator to start up the motor.

Under Road Traffic Laws, every eBike must meet all requirements set out under the European norm EN 15194-1, mentioned above. A driving license is not required to ride an eBike - under Road Traffic Laws, eBikes are treated as manual pushbikes. Please be aware that cycling helmets are obligatory only until the age of fifteen - however, we do recommend all bicycle users wear a cycling helmet for your own safety and protection.

BEFORE THE FIRST RIDE

SAFETY CHECKS

Fitting the front wheel

The front wheel requires occasional checks to make sure it is securely and tightly fitted in the forks and is not too loose.

Front wheel quick release

The lever should be tightened up properly to the end of its travel. If you feel that the lever is too soft during locking, you need to hold the locking nut on the other end of the axle and turn the lever around to set up as required.

Saddle Height

The below guide should be helpful to set the saddle in the correct position and ensure your Oxygen bicycle is comfortable: When sat on the saddle, hold the brake lever and put the heel of your foot on the pedal when in the bottom position. Your leg should be almost straight with just a slight bend at the knee, when the ball of your foot is moved onto the pedal to the position it would be when pedalling this should increase the bend in your knee slightly and ensure you are able to ride comfortably and get optimum power when pedalling.

It is important that your bike saddle is at the correct height to ensure that your bike ride is comfortable and so you can achieve minimal resistance whilst pedalling.

Please note that each seat post has a safety marking on the seat pillar - the seat post should never be set above the safety marks on the seat post when adjusting the height of the seat post.

Tyre Pressure

The recommended tyre pressure for an Oxygen bicycle is shown on the tyre fitted. It is recommended the pressure is set near the higher limit as this decreases rolling resistance and helps to reduce the likelihood of getting a puncture.

Please be aware that storage of your bike can affect tyre pressure – storing the bike in direct sunlight can affect the tyre pressure, especially on hot summer days. We appreciate that storage space for your bicycle may be limited, so we recommend you keep tyre pressure at a slightly lower level during the summer months, to avoid accidental over-inflation/damage of the tyres.

Charging the battery

Before using your Oxygen bicycle for the first time you should ensure that the battery is fully charged.

When the charger is plugged in and showing a red light, this indicates charging is in progress, when the charge cycle is complete a green light on the charger will show – please do not disconnect the battery or switch off the power before the charge cycle is complete.

Handlebar and Stem assembly

Before your first ride, please make sure that the stem and handlebar assembly bolts have been securely tightened and there is no play in the stem or headset

Brakes

Before your first ride it is crucial to familiarise yourself with the braking system and make sure that both brakes are in good working order.

*Please remember that the **right-hand** lever operates the front brake and the **left-hand** lever operates the rear brake. It is always best to use both brakes at the same time.*

SAFETY CHECKS

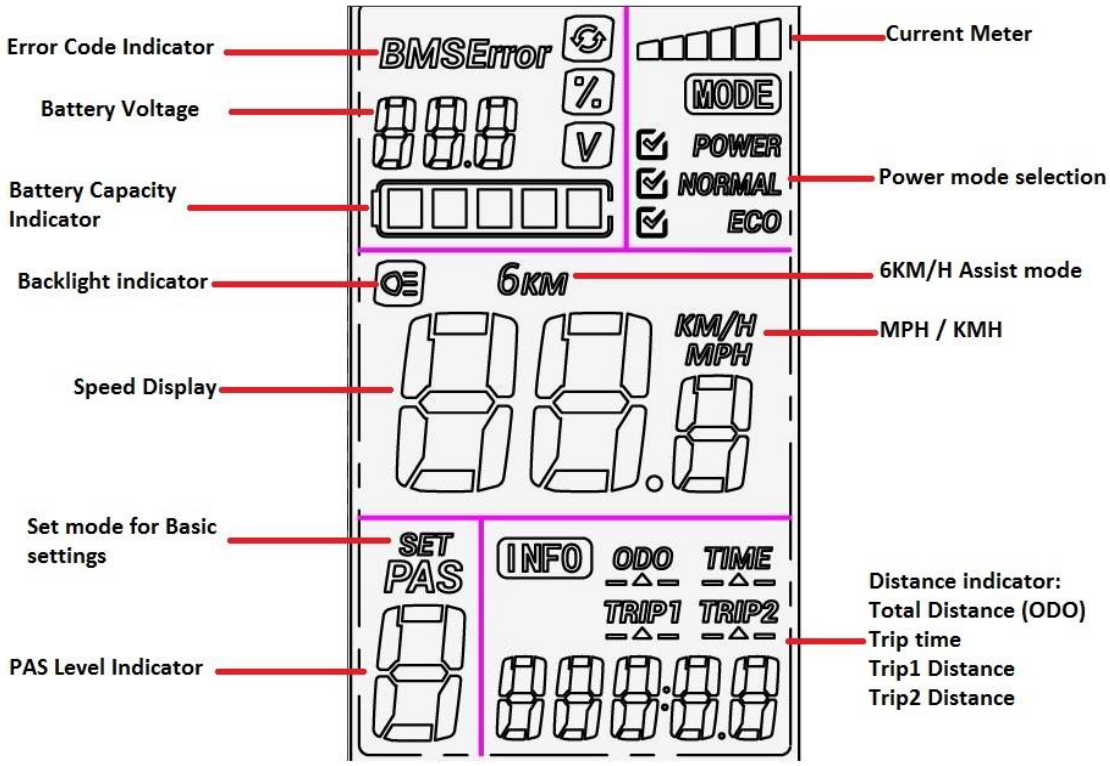
When cycling in wet conditions, please remember that the braking performance may be affected and brakes may not be as effective as they are when cycling in dry conditions. Always allow extra distance for braking when cycling in wet conditions. Both brakes must be in fully working order at all times, you should never ride your bicycle if there is a problem with the brakes however small the problem may be.

For your own safety we recommend that you always wear a helmet when cycling, regardless of the time or distance of your ride. Please never cycle under the influence of alcohol or drugs, as this significantly increases a risk of an accident, serious injury or even death.

All Oxygen bicycles sold by authorised dealers should be checked and tested before being delivered to an individual customer. However, Oxygen Bicycles cannot always guarantee that these procedures have been completed, particularly in the case of online sales. It is therefore crucial to check all the components yourself before the first ride.

DISPLAY FUNCTION

Please see below for the relevant display.



On & Off

1

Press and hold “ON/OFF” button to switch on the display, the display will power up and provide power to the 5v USB socket on the handlebar.

To switch power off to the display press and hold the “ON/OFF” button for 3 seconds. The display panel will go to into sleep mode when the speed is 0 km/h for 5 minutes.

On the Oxygen GO! model, press the “ON/OFF” button to illuminate the integrated lights.

Current Meter

This shows the amount current being drawn through the controller to power the motor indicating how much power the motor is currently using.

2

Power Mode Selection

3

There are three power modes that can be selected using the basic settings menu, these are, POWER, NORMAL and ECO. These modes are in addition to the 6 PAS levels.

Speed Display

4

This shows the speed of the bike and can be switched between MPH and KM/h, the mileage will be displayed in the same unit as the speed.

MPH/KPH

5

This indicates the unit that the speed and distance are displayed in, this can be changed in the basic settings menu (as explained in basic settings adjustment below).

6

Backlight Indicator

With the power on, click the **“ON/OFF”** button to switch on/off the backlight on the display.

4mph Assist Mode

Hold the “-“button for 2 seconds to engage the 4mph assist mode. When the “-“button is released power to the motor will stop.

7

PAS Level Selection

8

The PAS Levels on the S-Cross range from 0 to 6, this varies the amount of torque the motor gives you when pedalling 0 providing no assist and 6 providing maximum assist. Click the “+” or “-“ button to change the PAS level.

Error Code Indicator

9

If there is a problem with the electronic control system, the display will flash and show an error code number automatically. See the ***error code table*** (pg. 19) for details.

Basic Setting adjustment

10

Press and hold the “SET” button for 2 seconds to enter the basic settings interface, press the “SET” button to cycle between the parameters.
There are 4 parameters that can be changed on this display, which correspond to four numbers shown on the display, as on the next page.

1 **Reset Trip 1**
Press the “-“button until trip1 resets to 0 to reset the trip 1 meter.

2 **Power Mode Selection**
There are three power modes that can be selected, these are in addition to the PAS levels: POWER, NORMAL and ECO. Press the “+” or “-“button to change between these.

3 **Wheel Diameter Setting**
Press “+” or “-“button to select the accurate wheel diameter value to ensure the accuracy of the speed and mileage shown on the display,

4 **KM/H & MPH**
Press the “+” or “-“button to change between KM/H and MPH, the odometer and trip values will also be shown in the unit selected.

To save the changes made and exit press and hold the “SET” button for 1 second. The display will automatically exit the settings mode if there is no operation for 20 seconds.

11 *Distance Indicator*

When the display is on, press "SET" to switch the display information. In turn shows: ODO, trip 1 and trip 2.

ODO

The ODO records the total mileage the bicycle has travelled, this value cannot be cleared.

Trip 1

Trip2 records the distance ridden and can be reset manually in the basic settings interface. (when the mileage reaches 500km, this will be reset automatically)

Trip 2

Trip2 displays the last distance ridden for 30 seconds after turning the display on, this is then automatically reset and starts to record the current distance.

Time

This shows the time spent riding, this is automatically reset after shut down.

Battery Indicator 12

Battery Residual Capacity Indicator

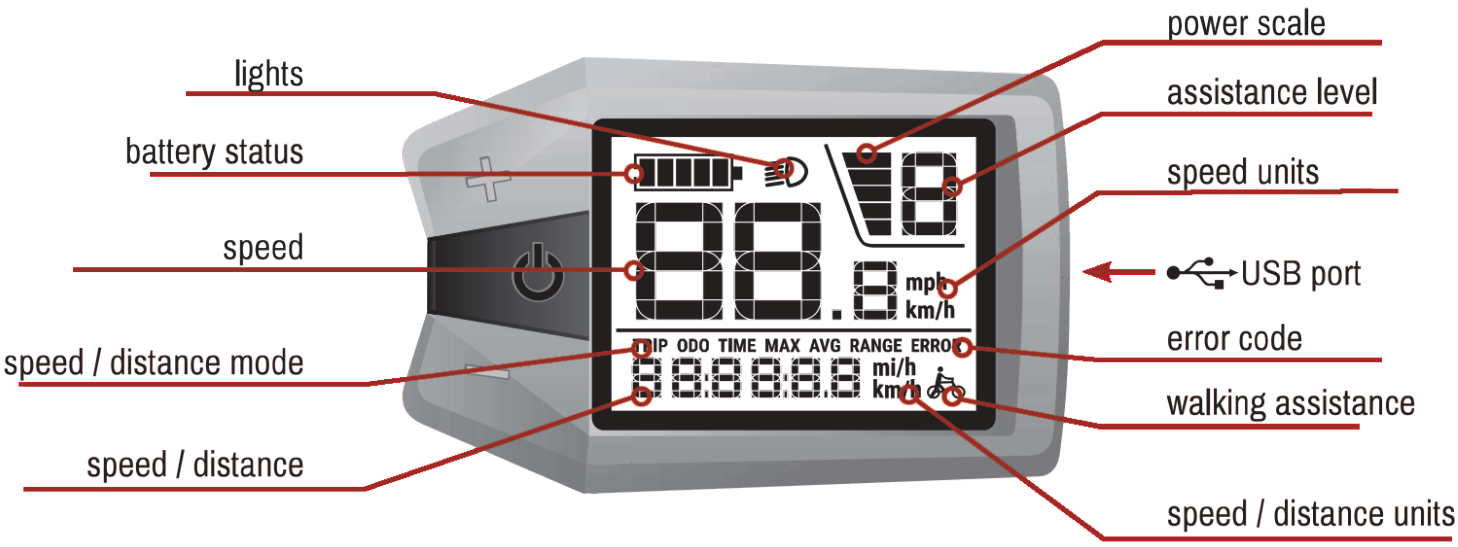
This indicates the charge level of the battery. When the battery is severely low the meter will flash, this indicates the battery needs to be recharged as soon as possible.

Battery Voltage

This displays the current voltage of the battery

DISPLAY FUNCTION

Please see below for the relevant display.



On & Off

Press the power button on the display controller and hold it for 2 seconds. Use the same method to switch off the electric system.

Assistance Level Setting

To change the assistance level in the range 0-5 shortly press (-) (+). The highest assistance level is 5, level 0 is without motor assistance.

Walking Assistance

To activate walking assistant press and hold (-) button on the control display. The eBike will move at a speed of 4 to 6 km/h. The walking assistance is deactivated as soon as the button is released.

CAUTION: After activating the walking assistant do not try to prevent the eBike from moving. It may cause motor damage.

Riding data display.

Displayed information can be changed by shortly pressing the power button.

Information is displayed in the following sequence:

TRIP	ODO	TIME	AVG	MAX
Trip Distance	Total Distance	Time	Average Speed	Maximum Speed

Temporary Data Deleting

You are able to delete temporary data (TRIP, MAX, AVG, TIME) by pressing and holding the power button and (-). The display shows rES. Select option Y and confirm by pressing the power button again.

Parameters Settings

The parameters setting mode is activated by pressing both (-)(+) and holding them for 2 seconds. To change a parameter press the power button. To save the set parameter press the power button again.

Un - Unit Setting (km/mile)

Ld - Wheel perimeter setting in cm (max. +/- 5% from the original setting)

bL - Background light display setting within 1-3 scope

Sd - Automatic display shutdown setting within 1-10 minutes

Resetting the parameters back to the factory default can be done by pressing and holding the power and (+) buttons. The display shows dEF. Select options Y and confirm by pressing the power button again. As soon as the restart is complete 00 will be shown on the bottom line.

Turn on the lights (Only if lights installed)

To turn on the front and rear lights press and hold (+) for 1 second.

USB Port

Display is equipped by Micro USB port to be able to charge mobile devices (5V)
To connect your device with the charging connector please use an adapter or cable with a Micro USB-B connector.

BATTERY CARE

Battery Charging

To ensure optimum performance of your bicycle, it is important to follow these steps.

- The battery must be fully charged before the bike's first use. To charge the battery, plug the charger into the socket on the battery.
- Switch on the power to the charger. It is important this process is carried out in this specific order to avoid damage to the battery.
- When the battery is charging, a red light with illuminate on the charger. Do not disconnect the charger when the red light is showing.
- A green light will illuminate to indicate the battery has finished charging. Switch the power off. The charger can now be safely removed from the battery.

When the battery is taking a charge a red light should show on the charger unit, the charger should not be disconnected while the red light is showing. When the charging cycle is complete a green light appears on the charger, this indicates the battery is fully charged and ready for use, power should be switched off, the charger can then be removed from the battery.

Care & Maintenance

If the battery is fully discharged it should be re-charged the same day, but not earlier than approx 10-20 minutes after your bike ride as the battery cells need some time to cool off. If you are planning not to use your bike for a long period of time, it is very important that you charge the battery before storage. Batteries stored for long periods of time should be fully charged before storage and then charged for approx 2 hours every 2 months, failure to do this will result in the battery losing voltage and irreparable damage to the battery occurring.

Please note, damage to, or failure of batteries caused by neglect or misuse will not be repaired or replaced under warranty.

Maximum Performance

The range and performance of your battery depends on a number of different factors, such as:

Tyres pressure – it is best to keep the tyres correctly inflated. If the pressure is low this will result in a higher rolling resistance; a higher pressure (within the recommended limit) will result in less rolling resistance and the bike will be easier to ride.

Weight of the rider and luggage – the less weight the bicycle is carrying the better the range and performance will be.

Pedal assist – the lower the level of pedal assist more effort you put into pedalling, the longer distance you can cycle with the electric assist on.

There are also other factors, independent of how the bike is being used. The range quoted in the technical specification is based on the assumption that the cyclist's weight is no more than 80kg, and cycles in a relatively flat area. The range may be lower for cyclists of over 80kgs or when cycling in hilly areas. Temperature is another factor that can influence the range, with the best performance achieved in temperatures between 15 and 25C.

Important:

Never open the battery case - the battery case should only be open by an authorised engineer at a service centre appointed by Oxygen Bicycles. Unlawful breach of this rule will automatically invalidate the battery warranty. Opening of the battery case or tampering with the batteries by unauthorised individuals may cause serious injury or even death. Oxygen Bicycles cannot be held responsible for any accidents or damages caused by unlawful battery maintenance.

LUGGAGE

Carrying Luggage

It is important to ensure that any luggage being carried on the rear carrier is attached securely and doesn't exceed the maximum recommended limit. Please make sure you only use appropriate pannier sets for your luggage needs. Any panniers should be attached securely to the carrier.

Maximum Allowable Luggage

Total luggage weight should not exceed 15kgs, including any pannier sets. The weight of the luggage should be distributed evenly, with a maximum of 7.5kgs on each side of the carrier.

Safety & Warnings

- Please do not overload the rear carrier with more than the maximum allowable weight.
- Please do not attach a child seat to the standard rear rack supplied – you should use a carrier designed specifically for this purpose.
- Please do not attach a child seat to the standard rear rack supplied – you should use a carrier designed specifically for this purpose.
- Carrying the maximum luggage allowed may have an effect on the bike's handling and braking performance.
- Please make sure there are no loose items or straps coming from the panniers or rack, this could damage spokes in the wheel.
- Please ensure that luggage fitted on the carrier does not obstruct the visibility of any lights fitted to the carrier or bicycle.

REGULAR USE & MAINTENANCE

All bicycles require regular routine maintenance. To ensure the maximum safety on your bike, we strongly recommend carrying out checks and routine maintenance before each ride. Additionally, the following checks should be carried out by a competent person approximately once per month:

Spokes

Spokes should be checked before the first ride and after the first 300 miles (approx 500km) of buying your bike, and then at least every 500 miles (800km) to ensure that the spokes are not loose and the wheel is still running true. Any damage caused by spokes working loose or breaking will not be covered under warranty.

Brake Pads

The condition of brake pads should be checked on regular basis. The position of pads may also need adjusting as wear occurs.

The life span of brake pads may vary significantly and last as long as 5000 miles or as little as 250 miles depending on the conditions the bike is being used in. Generally, if used a lot in rain and muddy conditions, the pads will last less than if used mainly in dry conditions. Wear will also be much quicker if used in hilly areas, compared to flat areas, where less braking is applied.

Running Gears

Running gears should be checked and adjusted on a regular basis, if not adjusted this can cause wear to the chain and gearing.

Tyre Condition

You should never ride the bike with worn tyres, this can affect the handling and safety of the bicycle and increase the risk of punctures and could put you at much greater risk of having an accident.

Chain

The chain should be cleaned and lubricated on a regular basis to increase performance and lifespan. Please ensure that only lubricants sold by professional bike shops are used. Never use motor oil or grease to lubricate your chain.

Rims

If using V-brake type brakes, it is important to check the condition of the rims occasionally. With regular usage, rims wear out over time and their wall thickness is reduced – a very worn or damaged rim may collapse and cause an accident, serious injury or even death. It is always best to ask a professional bike shop to check the condition of rims for you – many independent bike shops offer such advice for free.

Warning: All mechanical components on the bike will wear over time, depending on the type of the component and the material used. Any cracks, scratches or colour changes may indicate that the component has worn and should be replaced.

You should not try and fix any electrical components by yourself; any electrical problems should be investigated by an Authorised Oxygen Bicycles Technician.

LUBRICATION

The table below shows how often, on average, you should lubricate the bike's components. If you are not experienced in bike maintenance, you should always use a professional bike mechanic for any maintenance.

Frequency	Component	Lubricant	Application
Weekly	Chain Derailleur Wheels	Chain Lube Light Oil	Brush On Squirt On
	Derailleur Brake Levers	Oil	2 Drops from Oil Can
Monthly	Brake Callipers	Oil	2 Drops from Oil Can
Every 6 Months	Freewheel	Oil	2 Drops from Oil Can
	Brake Cables Shift Levers	Lithium Grease	Disassemble
Annually	Pedals Derailleur Cables Wheel Bearings Headset	Lithium Grease	Disassemble

ERROR CODES

Info on error codes

9	*Display Communication Error*
21	*Current Error*
22	*Throttle Error*
23	*Motor Stalling*
24	*Hall Sensor Error*
25	*Brake Sensor Error*

SEAT TUBE BATTERY

Power Switch

Switch on the battery using the switch on the upper part of the battery.

Battery Indicator

If 4 LED diodes are activated (4 green, 1 red) indicates that the battery has full capacity. If there is only the red diode showing this means the battery is almost empty and must be charged as soon as possible

Lock/Unlock

To remove the battery eject the saddle tube with the saddle from the frame. Then turn the key to position unlock and remove the battery by pulling it upwards holding the handle grip. To re-insert the battery do these steps in reverse order. In order to secure the battery turn the key to position lock and remove the key.

SEMI-INTEGRATED FRAME BATTERY

The lock is located at the top of the battery placement. Enter and twist the key to the unlock symbol and grab the handle and pull out. To place back into the frame, align the connecter at the bottom of the frame with the connecter towards the bottom of the battery. When you hear the “click” this means that the battery is secure.

Important:

Please note that this battery is always live.

NOTES

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www.oxygenbicycles.com

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