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## **Electric Range**

**eC-7 Coniston Men's & Coniston Women's**

**eR-7 Clifton & Highgate *Compact***

**Supplementary Service Manual  
2017 Edition 1**

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# WHYTE Service Manual

## 1.0: INTRODUCTION

Thanks for choosing to purchase this Whyte product. We hope you will enjoy all the benefits its advanced design and engineering will bring to your riding experience.

This particular range of Electric bikes are fitted with electric pedal assistance, which depends upon how much force you will exert on the pedals. The following specific components are what makes these bikes different from a conventional pedal cycle:

- A battery pack fitted above the downtube.
- An electric motor fitted to the bottom-bracket, output power of up to 250 Watts maximum.
- A controlling system fitted to the handlebars.

This manual will guide you through the set-up, safety and maintenance procedures that are specific to your Whyte bike. For other more general information, we strongly advise that you also read thoroughly the General Instruction Manual that is also supplied with your new bike.

Also, please note that the specification of all the components that are fitted to your bike as standard may be obtained from the Whyte Bikes Brochure or alternatively from the Whyte Bikes website **[www.whytebikes.co.uk](http://www.whytebikes.co.uk)**

Please remember, if you are in any doubt about your ability to safely service or repair your Whyte bike, do not ride it and instead arrange for a professional bicycle mechanic at your local Whyte dealer to do the job correctly.

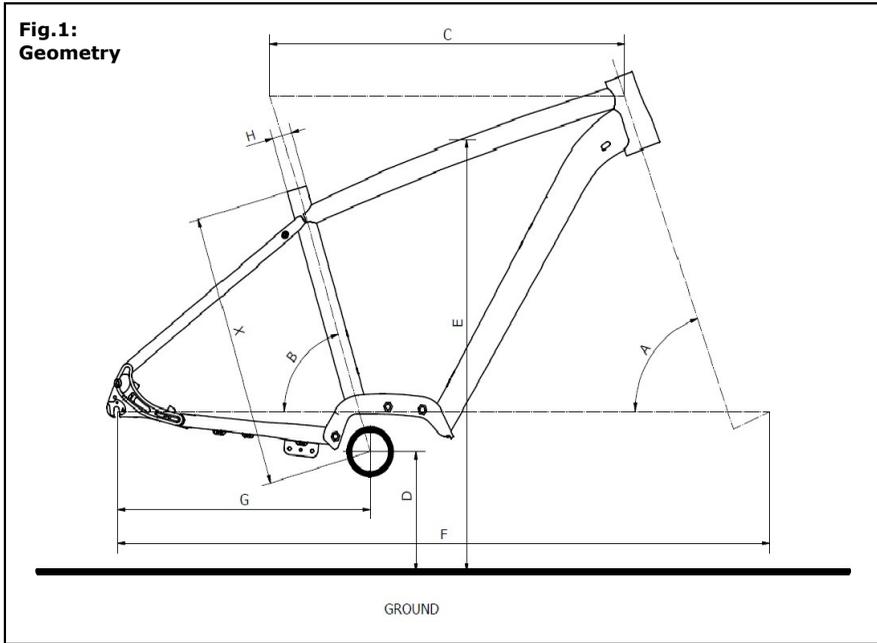
Bundled with this manual, are the respective manufacturers instructions and manuals for the branded parts that are fitted to your Whyte bike. Please take time to study all the relevant instruction manuals to ensure you have a continually safe and well set-up bike before every ride, and to help you build up a relationship of knowledge between you and your Whyte Dealer.

Happy and safe riding,

*Whyte design team. Jan 2016.*

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## 2.0: GEOMETRY



### 2.01: WHYTE Coniston Men's

Frame Size	X	Small	Medium	Large
Head Angle	A	69.5°	70.0°	70.0°
Seat Angle	B	74.0°	73.5°	73.0°
Top Tube	C	591mm	617.6mm	637.8mm
BB Height*	D	288mm	288mm	288mm
Stand Over	E	767mm	821mm	825mm
Wheel Base	F	1107mm	1123mm	1138mm
Chain Stay	G	445mm	445mm	445mm
Seat Post Ø	H	30.9mm	30.9mm	30.9mm

**Note:**

Geometry shown here is 'Showroom' i.e. without rider aboard the bicycle. 'With Sag' geometry is with rider after correct sag is set at the front. Please refer to suspension set up for information on how to achieve the correct sag of the fork.

\*BB height with Ø706mm tyres fitted (35mm / 37-622)



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## **2.02: WHYTE Coniston Women's**

<b>Frame Size</b>	<b>X</b>	<b>Small</b>	<b>Medium</b>
<b>Head Angle</b>	A	68.0°	69.0°
<b>Seat Angle</b>	B	74.5°	74.0°
<b>Top Tube</b>	C	557mm	584mm
<b>BB Height*</b>	D	288mm	288mm
<b>Stand Over</b>	E	716mm	748mm
<b>Wheel Base</b>	F	1093mm	1106mm
<b>Chain Stay</b>	G	445mm	445mm
<b>Seat Post Ø</b>	H	30.9mm	30.9mm

Note:

Geometry shown here is 'Showroom' i.e. without rider aboard the bicycle. 'With Sag' geometry is with rider after correct sag is set at the front. Please refer to suspension set up for information on how to achieve the correct sag of the fork.

\*BB height with Ø706mm tyres fitted (35mm / 37-622)

## **2.03: WHYTE Clifton**

<b>Frame Size</b>	<b>X</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>	<b>Extra Large</b>
<b>Head Angle</b>	A	70.0°	70.0°	70.0°	70.0°
<b>Seat Angle</b>	B	73.5°	73.5°	73°	73°
<b>Top Tube</b>	C	592mm	606mm	625.4mm	625.4mm
<b>BB Height*</b>	D	277mm	277mm	277mm	277mm
<b>Stand Over</b>	E	766mm	796mm	823mm	823mm
<b>Wheel Base</b>	F	1100mm	1115mm	1130mm	1130mm
<b>Chain Stay</b>	G	450mm	450mm	450mm	450mm
<b>Seat Post Ø</b>	H	27.2mm	27.2mm	27.2mm	27.2mm

Note: \* BB height with Ø716mm tyres fitted (42-622)

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## **2.04: WHYTE Highgate Compact**

<b>Frame Size</b>	<b>X</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>	<b>Extra Large</b>
<b>Head Angle</b>	A	70.0°	70.0°	70.0°	70.0°
<b>Seat Angle</b>	B	74.5°	73.5°	73°	73°
<b>Top Tube</b>	C	547mm	572mm	598mm	623mm
<b>BB Height*</b>	D	277mm	277mm	277mm	277mm
<b>Stand Over</b>	E	766mm	796mm	823mm	837mm
<b>Wheel Base</b>	F	1100mm	1115mm	1130mm	1150mm
<b>Chain Stay</b>	G	450mm	450mm	450mm	450mm
<b>Seat Post Ø</b>	H	27.2mm	27.2mm	27.2mm	27.2mm

Note: \* BB height with Ø716mm tyres fitted (42-622)

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### **3.0: PREPARATIONS FOR RIDING**

#### **3.1: MAKING ADJUSTMENTS**

Please refer to the specific component manufacturers manual or published technical information about adjusting the components on your Whyte bike. Instructions may be downloaded from the relevant manufacturer's internet site, as shown in the table to the right.

DT	<a href="http://www.dtswiss.com">www.dtswiss.com</a>
Ergon	<a href="http://www.ergon-bike.com">www.ergon-bike.com</a>
FSA	<a href="http://www.fullspeedahead.com">www.fullspeedahead.com</a>
Jagwire	<a href="http://www.jagwireusa.com">www.jagwireusa.com</a>
Shimano	<a href="http://www.shimano.com">www.shimano.com</a>
SR Suntour	<a href="http://www.srsuntour-cycling.com">www.srsuntour-cycling.com</a>
Tektro	<a href="http://www.tekro.com">www.tekro.com</a>
Vittoria	<a href="http://www.vittoria.com">www.vittoria.com</a>
VP	<a href="http://www.vpcomponents.com">www.vpcomponents.com</a>

This electric range of bikes are fitted with the Shimano Steps E6000 series of components. Shimano publish comprehensive instructions for these products, which are available from the <http://si.shimano.com> website, under the E-Bike section on that webpage. User manual UM-70H0A-002-00 and Dealer manual DM-SP0001-03 are particularly relevant.

If you are uncertain in any way, about making adjustments to any components on your Whyte bike, then **DO NOT RIDE YOUR BIKE**. Contact your Whyte dealer who will be able to advise you on how to go about setting up your Whyte for riding, and or making adjustments to the components fitted to your Whyte.

#### **3.2: SET UP OF FORK**

*Tools Required: Small Ruler*

The front fork will be pre-set with the standard settings when you buy your Whyte. Before riding, you will need to adjust the Sag setting on the fork. This is to ensure the forks are set-up correctly for your own body weight, so the fork will perform as intended.

To set Sag on a front fork, you need to measure the amount the fork compresses when you sit on the bike in the normal riding position. We recommend for the best performance to run approximately (20%) Sag on the front fork.

Fork Travel	Sag (15% - Firm)	Sag (25% - Plush)
60mm	9mm	15mm

Sag on a coil sprung fork is controlled by adjusting the preloading of the coil springs. We recommend you refer to your forks owners manual or relevant website for detailed information about your fork set up and performance relating to all controls and features of your fork.

#### Rebound Damping adjustment:

This adjustment fine-tunes the speed at which the wheel returns to its normal ride height after hitting a bump. To demonstrate the effect of this function, turn the rebound adjuster to its slowest setting. Press down on the handlebars to compress the forks, then release the

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load. The suspension recovers very slowly to its original position. Repeat the above with the adjuster turned to the fastest setting and the difference will be seen immediately the load is released. We recommend the optimum setting is to adjust the re-bounce damping to be as slow as possible, but not so slow that the normal ride height is not recovered. On very rough terrain, if the bike becomes progressively lower as more bumps are hit then the re-bounce damping is set too slow. On the other hand if the bike feels choppy and not plush then the re-bounce damping is too fast. A bit of trial and error is needed to get the exact setting. **WARNING.** Only make adjustments to your fork while stationary, and not when riding.

### **3.3: BATTERY MAINTENANCE**

*Tools Required: Shimano charging equipment.*

Given that the combined mass of the electric power system makes these bikes significantly heavier than equivalent pedal cycles, it is important to avoid running out of battery power whilst riding. Otherwise the bike will be quite a challenge to continue riding! Therefore it is advised to implement the recommendations made by Shimano concerning battery maintenance, charging regime and replacement/disposal, as detailed within the Shimano STEPS User manual UM-70H0A-002-00 and Dealer manual DM-SP0001-03.

### **4.0: SAFETY**

**IMPORTANT:** The following are intended to be advisory notes on the safe use of your Whyte bike. You should also read thoroughly the General Instruction Manual also supplied with your new bike. If at any stage you are uncertain about the safety or safe operation of the bike as a whole, or any specific component, then **DO NOT RIDE YOUR WHYTE** and instead please consult the specific component manufacturers instruction manual or your Whyte Dealer for advice.

**Maximum Rider Weight Limit for this range of Whyte Bikes:** 19 Stone/120kg



**WARNING:** As is the case with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear and stress fatigue in different ways. If the design life of a component has been exceeded, it may fail suddenly causing possible injury to the rider. Any form of crack, scratches and discolouring in highly stressed areas are showing that the component has exhausted its life time and has to be replaced. If you are in any doubt about one or more components on your Whyte **DO NOT RIDE YOUR BIKE.** Consult the specific component manufacturers literature, or take your bike to your local Whyte Dealer.



**CAUTION:** These bikes have disc brakes as standard equipment. It is NOT PERMITTED to convert the braking system to a rim brake type, since the frame has only been tested for disc brake use and also because the wheel rims are not suitable to be used as a braking surface. Making such a modification of components will also void the warranty.



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 **WARNING:** There are specific safety instructions for the Shimano STEPS electric power system, which are detailed in the Shimano STEPS User manual UM-70H0A-002-00 and Dealer manual DM-SP0001-03. ***In particular, certain potential hazards associated with handling/disposal of the battery and also how to safely utilise the electric motor assistance whilst riding your bicycle.*** We therefore strongly recommend that these points are studied with great care, to ensure safe operation of your Whyte electric bicycle.

### **Designed for the following use:**

The bicycles in the Whyte eC-7 & eR-7 series' have all been designed, tested and comply with ISO 4210-2 Safety Standard, for typical road or path cycling use. They have not been designed or tested for mountain biking or for use in competition.

## **5.0: LUBRICATION**

### **5.1: GENERAL LUBRICATION**

For the correct lubrication regime and maintenance of all parts on a Whyte bicycle, please refer to the specific component manufacturers detailed instructions bundled with this manual or for further information visit the specific manufacturers website.

## **6.0: TORQUE SETTINGS**

**IMPORTANT:** For all torque settings, refer to the specific manufacturers information bundled with this manual, or alternatively, refer to the specific manufacturers website for further information.

## **7.0: NOTES**

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## **NOTES (continued)**



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