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MTB Hardtail Range

29 CS & 29 C Team

405

529 & 629

603, 604 & 605

801, 802, 805 & 806

901, 905 & 909

**Supplementary Service Manual
2016 Edition 1**

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DESIGNED IN THE U.K.

Table of Contents

1.0 Introduction

2.0 Geometry:

- 2.1: 29 CS & 29 C Team
- 2.2: 405
- 2.3: 529 & 629
- 2.4: 603, 605, 801 & 805
- 2.5: 604, 802 & 806
- 2.6: 901
- 2.7: 905 & 909

3.0 Preparations for riding:

- 3.1 Making Adjustments
- 3.2 Getta-Grip Seat Clamp
- 3.3 Set up of Fork
- 3.4 Suspension Tuning Log

4.0 Safety.

5.0 Lubrication:

- 5.1 Whyte Getta-Grip Seat Clamp
 - 5.1.1: Bolt Up
 - 5.1.2: QR Style
- 5.2 Whyte Inter-grip Seat Clamp
- 5.3 General Whyte Lubrication

6.0 Torque Settings:

- Whyte Whyte Rear Derailleur Hanger

7.0 Notes.

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 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**

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.

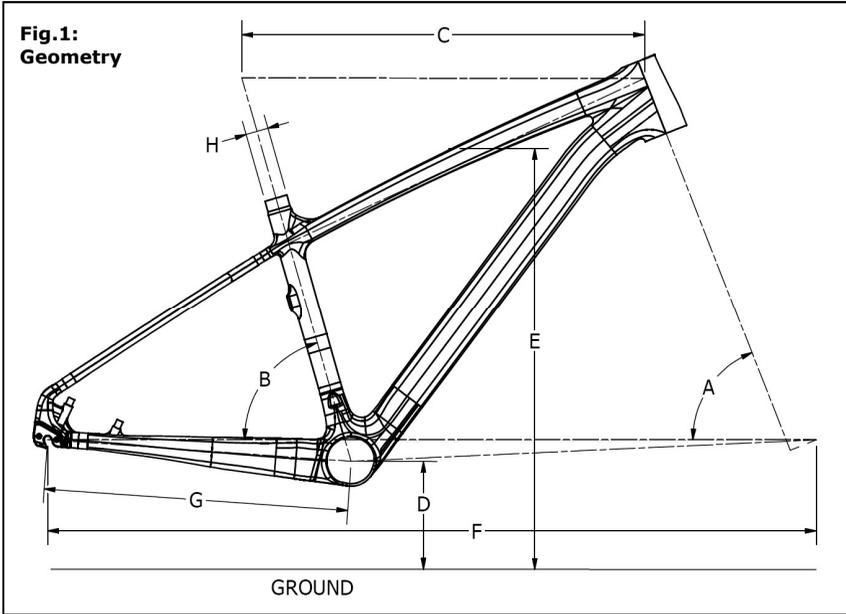
Happy and safe riding,

Whyte design team. May 2015.



WHYTE Service Manual

2.0: GEOMETRY



2.1: WHYTE 29 CS & 29 C Team

Frame Size	X	Small	Medium	Large
Head Angle	A	69.3°	69.3°	69.3°
Seat Angle	B	73.0°	73.0°	73.0°
Top Tube	C	612.2mm	627.0mm	640.8mm
BB Height*	D	305mm	305mm	305mm
Stand Over	E	790mm	810mm	845mm
Wheel Base	F	1117.3mm	1127.9mm	1144.9mm
Chain Stay	G	437.5mm	437.5mm	437.5mm
Seat Post	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 Ø738mm tyres fitted (2.1" / 52-622)

WHYTE Service Manual

2.2.2: WHYTE 405

Frame Size	X	13"
Head Angle	A	68.5°
Seat Angle	B	74.0°
Top Tube	C	629.4mm
BB Height*	D	305mm
Stand Over	E	711mm
Wheel Base	F	1068.6mm
Chain Stay	G	425mm
Seat Post	H	30.9mm

Notes:

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 Ø677mm tyres fitted (2.25" / 54-559)

2.2.3: WHYTE 529 & 629

Frame Size	X	Small	Medium	Large	Extra Large
Head Angle	A	68.5°	68.5°	68.5°	68.5°
Seat Angle	B	73.0°	73.0°	73.0°	73.0°
Top Tube	C	580.5mm	594.5mm	612.4mm	632.2mm
BB Height*	D	305mm	305mm	305mm	305mm
Stand Over	E	800mm	810mm	836mm	850mm
Wheel Base	F	1123mm	1138mm	1158mm	1178mm
Chain Stay	G	440mm	440mm	440mm	440mm
Seat Post	H	30.9mm	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 Ø738mm tyres fitted (2.1" / 52-622)

WHYTE Service Manual

2.2.4: WHYTE 603, 605, 801 & 805

Frame Size	X	Small	Medium	Large	Extra Large
Head Angle	A	68.5°	68.5°	68.5°	68.5°
Seat Angle	B	73.5°	73.5°	73.0°	73.0°
Top Tube	C	593.5mm	608.1m	627.9mm	638.8mm
BB Height*	D	303.5mm	303.5mm	303.5mm	303.5mm
Stand Over	E	779mm	797mm	822mm	851mm
Wheel Base	F	1107.1mm	1122.6mm	1137.4mm	1149.1mm
Chain Stay	G	435mm	435mm	435mm	435mm
Seat Post	H	30.9mm	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 Ø717mm tyres fitted (2.25" / 52-584).

2.2.5: WHYTE 604, 802 & 806

Frame Size	X	Extra Small	Small	Medium	Large
Head Angle	A	68.5°	68.5°	68.5°	68.5°
Seat Angle	B	74.0°	73.5°	73.5°	73.5°
Top Tube	C	570.6mm	585.5mm	599.6m	613.7mm
BB Height*	D	303.5mm	303.5mm	303.5mm	303.5mm
Stand Over	E	776mm	784mm	804mm	829mm
Wheel Base	F	1089.1mm	1099.1mm	1114.1mm	1129.1mm
Chain Stay	G	435mm	435mm	435mm	435mm
Seat Post	H	30.9mm	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 Ø717mm tyres fitted (2.25" / 52-584).

WHYTE Service Manual

2.2.6: WHYTE 901

Frame Size	X	Small	Medium	Large	Extra Large
Head Angle	A	66.5°	66.5°	66.5°	66.5°
Seat Angle	B	73.0°	73.0°	73.0°	73.0°
Top Tube	C	619mm	638mm	655mm	674mm
BB Height*	D	305.0mm	305.0mm	305.0mm	305.0mm
Stand Over	E	778mm	794mm	816mm	833mm
Wheel Base	F	1139mm	1169mm	1178mm	1204mm
Chain Stay	G	425mm	425mm	425mm	430mm
Seat Post	H	30.9mm	30.9mm	30.9mm	30.9mm

Notes:
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 Ø717mm tyres fitted (2.25" / 54-584)

2.2.7: WHYTE 905 & 909

Frame Size	X	Small	Medium	Large	Extra Large
Head Angle	A	66.5°	66.5°	66.5°	66.5°
Seat Angle	B	73.0°	73.0°	73.0°	73.0°
Top Tube	C	619mm	638mm	655mm	674mm
BB Height*	D	305.0mm	305.0mm	305.0mm	305.0mm
Stand Over	E	770mm	805mm	832mm	861mm
Wheel Base	F	1139mm	1169mm	1178mm	1204mm
Chain Stay	G	425mm	425mm	425mm	430mm
Seat Post	H	30.9mm	30.9mm	30.9mm	30.9mm

Notes:
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 Ø717mm tyres fitted (2.25" / 54-584)

WHYTE Service Manual

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.



CAUTION! 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.

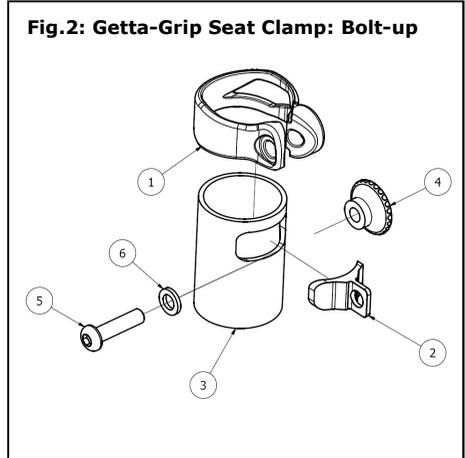
DT Swiss	www.dtswiss.com
FSA	www.fullspeedahead.com
Formula	www.formulahubs.com
Fox	www.foxracingshox.com
Hope	www.hopetech.com
Jagwire	www.jagwireusa.com
Jalco	www.maddux-wheels.com
Maxxis	www.maxxis.com
Prologo	www.prologotouch.com
Race Face	www.raceface.com
Shimano	www.shimano.com
SR Suntour	www.srsuntour-cycling.com
SRAM	www.sram.com
Tektro	www.tekro.com
VP	www.vpcomponents.com
WTB	www.wtb.com

WHYTE Service Manual

3.2: WHYTE GETTA-GRIP SEAT CLAMP

The Getta Grip seat clamp design is a patented design to allow adjustment of the saddle height by either the use of a Quick Release (QR) Lever, or bolt-up method. This manual covers both styles of clamps.

Item:	Description
1	Whyte Seat Clamp Band
2	T-Pad
3	Whyte Main Frame Seat Tube
4	Adjuster Nut
5	M6 x 25mm Long Fastener
6	M6 Washer



Bolt-up Type: Fig.2

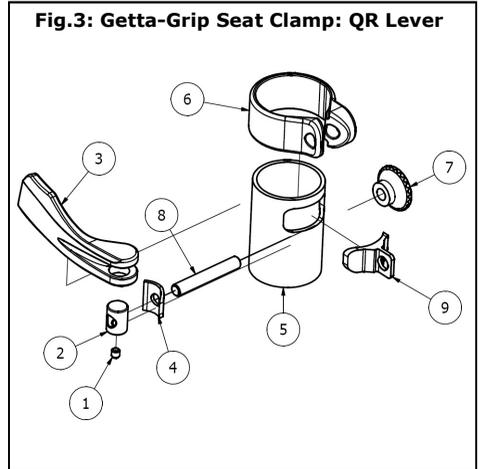
Tools Required: 5mm Allen Key

(Note, refer to the seat-pin manufacturers instructions in conjunction with these notes).

To adjust the seat height, using the 5mm Allen key, undo the M6 bolt (5) just enough to allow the seat-pin to slide freely up and down. Set the height to the desired level, and re-tighten the M6 bolt (5) with the 5mm Allen Key just enough so as to prevent the seat-pin from slipping down and twisting.

WHYTE Service Manual

Item	Description
1	QR Lever Cam Grub Screw
2	QR Lever Cam
3	Whyte QR Lever
4	Plastic Shim
5	Whyte Main Frame
6	Whyte Seat Clamp Band
7	QR Adjuster Bobbin
8	QR Shaft
9	T-Pad



Quick Release Lever Type: Fig.3

No tools required.

(Note, refer to the seat-pin manufacturers instructions in conjunction with these notes).

To Adjust the seat height with the QR Lever assembly fitted, simply undo the QR Lever (3) from the Closed position to the Open position. Next adjust the height of the Seat Pin to the desired level, and close the QR lever (3) from the Open position to the Closed position. The QR closing force can be adjusted by turning the QR Adjuster Bobbin (7) clockwise or anti-clockwise before closing the QR Lever (3).



CAUTION! When adjusting the saddle height you **MUST** obey the Minimum insertion depth requirement marked on the Seat Post.

WHYTE Service Manual

3.3: SET UP OF FORK

Tools Required: *Good Quality Shock Pump.*
 Small Ruler

The front suspension fork fitted to your Whyte bike will be pre-set with the standard settings. Before riding, you may need to adjust these setting. First is 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 the front fork, you need to measure the amount the fork compresses when you sit on the bike in the normal riding position. See the table on the right for our recommendation of front fork sag on your Whyte bike. To achieve this you will need to adjust the air spring pressure inside the fork.

Refer to the specification tables in this manual, and then to the relevant fork manufacturers set up instructions to find how to adjust the air spring pressure in the fork. Using a shock pump, either add or remove air until Sag is correctly set.

Please note that for the detailed instructions for servicing and all matters relating to the forks fitted to your Whyte bike, please refer to the manufacturers instructions.

Fork Travel	Sag (15% - Firm)	Sag (25% - Plush)
100mm	15mm	25mm
130mm	19.5mm	32.5mm

Rebound Damping adjustment:

This adjustment fine-tunes the speed at which the wheel returns to its normal ride height after hitting a bump. Refer to the relevant manufacturers instructions to find out how to adjust the rebound damping. To demonstrate the effect of this function, turn the adjuster to its slowest setting. Press down on the handlebars to compress the forks, then release the 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 rebound damping is set too slow. On the other hand if the bike feels choppy and not plush then the rebound damping is too fast. A bit of trial and error is needed to get the exact setting.

3.4: SUSPENSION TUNING LOG

Record your best suspension settings in the table below, to restore them if necessary, eg. after dealer servicing of the suspension or if a friend has borrowed your bike.

Date	Rider Weight (including all riding kit) (kg or lbs)	Fork Pressure (bar or P.S.I)	Fork Rebound Damping (# of clicks from softest setting)	Shock Pressure (bar or P.S.I)	Shock Rebound Damping (# of clicks from softest setting)

WHYTE Service Manual

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 Whyte Hardtail MTB Series':

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 decolouring in highly stresses 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.

Designed for the following use:

All bicycles in the Whyte Hardtail MTB series' have all been designed, tested and comply with ISO 4210-2 Safety Standard, for typical cross country mountain biking use. They have not been designed or tested for extreme down-hilling or free-riding.

WHYTE Service Manual

5.0: LUBRICATION

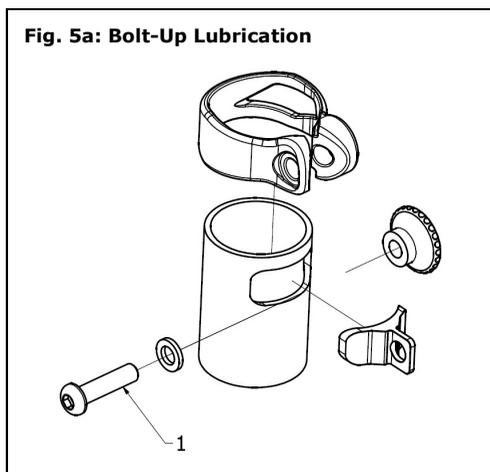
Please refer to the Whyte General Instruction Manual for guidance about lubricating many of the components on your Whyte bicycle.

For the range of bicycles contained in this Supplementary Service Manual, there is also the following specific guidance:

5.1: WHYTE GETTA-GRIP SEAT CLAMP

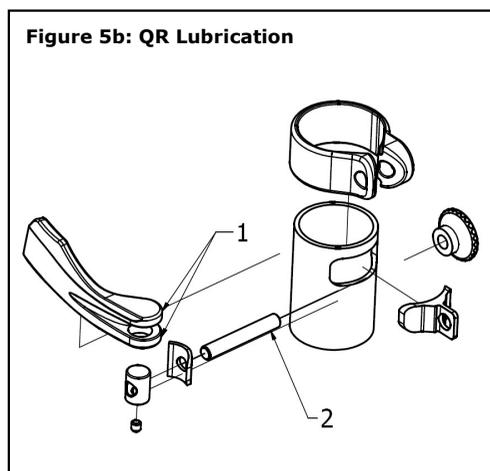
5.1.1: Bolt-Up Style. Fig.5a

Point	Description	Lubricant	Lubrication Interval
1	M6 x 25mm Fastener	Castrol LM or equivalent	Once a Month



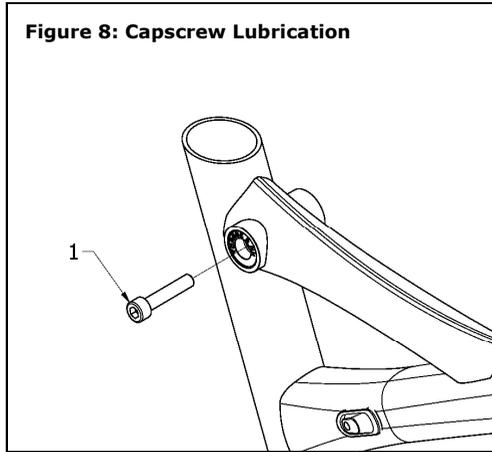
5.1.2: Quick Release Style. Figure 5.b

Point	Description	Lubricant	Lubrication Interval
1	Lever Cam Surface	Castrol LM or equivalent	After Every Ride
2	M6 Shaft	Castrol LM or equivalent	Once a Month



WHYTE Service Manual

5.2: WHYTE INTER-GRIP SEAT CLAMP



Item	Description	Lubricant	Lubrication Interval
1	M6 x 30mm Capscrew	SKF LGEP2 or Castrol Spheerol AP3 or Finish Line Teflon White Lithium Complex grease	Once a Month

5.3: GENERAL WHYTE 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

Torque explained: If no suitable Torque Wrench is available a Torque of 5 lbf.ft can be obtained by applying a force of 5lb, with a Spring Balance, to the end of a spanner, 1 Foot in length.

IMPORTANT: For all other 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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