





#### 1. INTRODUCTION – IMPORTANT INFORMATION AND WARNINGS

**CAUTION:** Please read this manual carefully. It contains important safety information.

**WARNING:** Extreme bicycle ride is a dangerous sport and requires an amazing amount of skills. By engaging in that type of activity user accepts the risk of injury or even death. Even the best bicycle will not help to drop perfectly if the user does not have sufficient skills. Also, the best protection equipment does not guarantee a hundred percent safety. Please note that in this kind of riding, a user can only trust his abilities and must accept the inherent risk. While riding a user can reach significant speeds and therefore face significant hazards and risks. Inspect a bicycle and equipment carefully and be sure that it is in perfect condition before each ride.

If possible consult with bike-park personnel, expert riders, and race officials on conditions and equipment advisable. Always wear appropriate safety gear, including an approved fullface helmet, full finger gloves, body armor, bright and visible clothing that is not so loose, that it can be tangled in the bicycle or objects at the side of the road or trail, shoes that will stay on your feet and will grip the pedals (make sure that shoe laces cannot get into moving parts, and never ride barefoot or in sandals). Always use protective eyewear to protect against dirt, dust, and bugs.

**WARNING:** Some of the service procedures require specialist tools and good mechanical skills. Therefore, to minimize the risk of serious or even fatal accidents, maintenance and assembly work on your bike should be carried out by an authorized bicycle workshop.

**WARNING:** Failure to maintain, check and properly adjust the suspension system may cause suspension malfunction, in a result of which a user may lose control and fall.

**WARNING:** Introducing changes in the suspension adjustment can alter the handling and braking character-

istics of your bicycle. It is forbidden to change the suspension adjustment unless a user is thoroughly familiar with the suspension system manufacturer's instructions and recommendations. Users should always check for changes in the handling and braking characteristics of the bicycle after the suspension has been adjusted by taking a careful test ride in a safe area.

**WARNING:** As with all mechanical components, the frame is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail possibly causing injuries to the rider. Any form of crack, scratches, or change of color in highly stressed areas indicates that the life of the component has been reached and it should be replaced.

**IMPORTANT NOTICE:** This manual is not intended as a comprehensive use, service, repair, or maintenance manual. Please consult your dealer for advice and your dealer may also be able to refer you to classes, clinics, or books on bicycle use, service, repair, or maintenance.



#### 2. GENERAL RIDING INFORMATION

Riding a bicycle can be dangerous. Keep this in mind and be cautious at all times. See and be seen. Use lights and reflective clothing in low light conditions. Wearing a helmet when riding can protect the head and save a life.

Always conduct a pre-ride check (detailed information can be found further in this manual).

Never ride the bicycle if you observe any technical problems or have any doubts about the proper functioning of any elements in the bicycle.

Keep the bike clean and well maintained.

It is strongly recommended to carry a pump, spare inner tube, patch kit, and a basic tool kit.

It could be required in case of a flat tire or other common mechanical problem. If any doubts or questions ask a bicycle dealer for advice on that issue.

If the bicycle is equipped with gears and user can choose a gear combination that is the most comfortable for riding conditions. Gears will allow a rider to maintain a constant rate of pedalling. Use lower gears for going uphill and higher gears for going downhill. Ease up on your pedalling pressure when you shift gears. Ask a bicycle dealer to give more advice on that issue if needed.

Pay attention to the brakes - they can be powerful and if activated too aggressively, may cause a crash. You should spend some time to get a better feel of the brakes on a side road or empty parking lot before the first ride. Avoid riding too fast, especially downhill. It is easy to lose control of the bicycle and crash at high speeds, and also you will find it very difficult to slow down especially if the hill is steep.

If a bike has been equipped with suspension, the increased speed a rider may develop will also increase the risk of injury. For example, the front of the bike may dive on the suspension fork while hard braking. A Rider can easily lose control and fall if he is not prepared for this.

Please, learn how to operate your suspension system safely. Thanks to the suspension the wheels can follow the terrain better, which improves control and comfort.

This improved capacity may provide an opportunity for riding faster, but riders should be careful, not to mistake the enhanced capabilities of the bicycle for their riding skills. Improving skills takes time and practice.

It is highly recommended to use locks to protect a bicycle from theft. Even if you are planning to be away from a bicycle for just a few minutes never leave your bike unlocked while unattended.

#### 3. DARTMOOR HARDTAILS: FREERIDE, ENDURO, TRAIL, FUNBIKE, DIRT

# FREERIDE ENDURO FUNBIKE HORNET PRO HORNET 26 STREETFIGHTER

#### TRAIL



SPARROW MULLET

A reliable and functional solution(system) could be simple. Based on an opinion that comes from rider's feedback, Dartmoor enhances the ideas and provides new solutions which make every minute on trails full of fun and happiness.

A bicycle is a simple machine with massive potential. That is why designing frames from 100mm to 160mm of travel, Dartmoor chose simplicity and functionality.

Without any doubt, Enduro is a sport that requires maximum versatility from a bicycle.Long climbs, descents in the most difficult conditions, jumps, and drops - these are the standard challenges that the equipment has to face.

#### **DIRT/PUMPTRACK**

PRIMAL



5

#### **BIKES & FRAMES RIDING STYLE CHART:**

	Freeride	Enduro	Trail	Funbike	Dirt/Pumptrack
Hornet Pro					
Hornet					
Primal Pro 29					
Primal Pro 27.5				I	
Primal Evo 29					
Primal Evo 27.5				I	
Primal Intro 29				l	
Primal Intro 27.5				I	
Sparrow Mullet					
Sparrow Intro Mullet				I	
Hornet 26					
Streetfighter					1
Two6Player Pro Pike					
Two6Player Pro Bom	ber				
Two6Player Evo					
Two6Player Pump					
Gamer26					
Gamer Intro 26					
Gamer Pump 24					
Gamer Intro 24					

#### **FREERIDE**

Freeride bikes are downhill bikes tailored to the needs of ordinary people. Minimum stroke of the shock absorber 170 mm, solid frame, wide handlebars. All this is within the limits that can be mastered by intermediate riders. When driving fast, wide tires and sensitive hydraulic brakes are essential. The high position of the handlebars in relation to the saddle and the position of the rider shifted backwards ensure comfort when riding downhill. It is also possible to overcome flat sections. The weight of around 18 kg makes the climb very difficult, which is why freeriders use the lifts most often. It is definitely a bike for fans of extreme experiences.

#### **ENDURO**

Enduro bikes were created for long mountain trips in difficult terrain, riding in the mountains, and often unpaved routes. These bikes are more versatile and also allow a rider to ride uphill, although it is not the most pleasant. The travel of shock absorption is smaller than that of downhill bikes. The most common are full-suspension bikes with 160mm of travel, but there are also hardtails. They have a fairly short stiff frame, an adjustable seat post, and hydraulic brakes with large discs. Sometimes there is a front derailleur. Some models even allow you to quickly change the geometry of the frame, i.e. adapt the bike to the climb or descent. Weight approx. 12-16 kg. In enduro, the ability to efficiently overcome not only winding paths, trails full of unevenness, sharp descents, and demanding climbs will be useful. It is up to the rider which route he will take because he has full freedom in this matter. There are no inaccessible places for enduro bikes, and the more diverse the better. You can go crazy and bounce a bit off the ground. It is not the results or the quick time that counts, only having fun. This is the essence of a real enduro. A bicycle should be free, reliable, and its user should be able to use its full potential. In enduro, a rider chooses his path.

#### **TRAIL**

Trail bikes allow riders comfortable uphills on long mountain trails, combining the features of enduro and cross country. They are available in full-suspension or hard-tail versions. Shock absorption at a level between 130 mm - 150 mm, will allow a rider to easily deal with unevenness and obstacles, such as steep climbs. They allow for more aggressive driving than cross country but are less dynamic. Compared to the enduro, they are a bit lighter and allow for a more pleasant ride uphill. The manoeuvrability of these bikes is influenced by the wide handlebars, adjustable seat-posts, and the weighting of the front wheel during the descent. Wheels Are usually 29 inches, although trail bikes with a combination of 29 "front and 27.5" rear wheels (the so-called Mullet) are also popular, as well as with both 27.5 "wheels. The use of wide tires makes it easier to overcome obstacles in the field. Based on the emerging bike parks, a group of trail bike enthusiasts has emerged. If someone would like to go on a long trip on singletrack and not the most difficult mountain paths for pleasure, he should opt for a comfortable trail bike rather than the enduro.

#### **FUNBIKE**

Funbike is a bike built to deliver maximum fun and driving pleasure. Once called dual - truly versatile a bicycle, designed with a wide range in mind driving styles.

Regardless of whether you feel like it for a ride on forest paths, racing on trails, or a teaser for jumping on dirt and pumping on pumptracks - funbike provides stable and comfortable driving, anywhere you will go. It will definitely enable you to learn quick first tricks and more advanced tricks.

Provides amazing versatility thanks to forks with a stroke of 100 mm to 160 mm, and agility thanks to 26-inch wheels!

Do you need a rear derailleur? No worries! This is the perfect choice for a rider who is missing from a typical dirt bike gear, a front brake, and a little more pitch in a fork. Each of our funbikes is equipped with a Microshift derailleur with a clutch with a large spread of gears, which ensures comfortable climbs and movement between places, as well as choosing the right gear ratios during evolution requiring speed control. For this reason, we focused on durable hydraulic brakes - reliable when driving off-road and with adequate traction control.

#### **DIRT/PUMPTRACK**

DIRT bikes are a combination of a MTB and a BMX. They are mainly used to perform evolutions, jumps on jumps, pumptracks / skateparks, riding over city obstacles, using walls, stairs, etc.

The frames without rear suspension are made of 6061-T aluminum.

The small size, low-sloping top tube, and large angle of the head tube make this geometry good for running the bike on a flat surface and performing acrobatics in the air. Singlespeed drive. The wheels are 26 inches (Two6Player Pro Bomber, Two6Player Evo, Two6player Pump, Gamer 26, Gamer Intro 26) and 24 inches (Gamer Pump 24, Gamer Intro 24). The tires are usually 2.3 inches and 2.1 inches wide with a fairly gentle tread.



#### 4. GEOMETRY

Reach: horizontal distance from BB center to HT center horizontal distance from BB center to HT center vertical distance from BB center to HT center seat tube lenght (BB center to ST top) top tube lenght (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base Stack: ST:

TT: ETT: CS: HT:

HT angle: EST angle: BB drop:

WB:

#### **FREERIDE**



Check





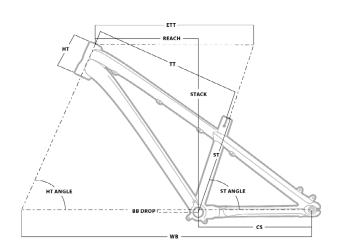
**ENDURO** 

>>> Check

Size	Medium	Large	XLarge
reach	430	460	480
stack	606	606	606
ST	410	440	455
eTT	616	645	665
CS	420	420	420
HT	110	110	110
HT angle	64	64	64
eST angle	73	73	73
BB drop	35	35	35
WB	1174	1204	1224
standover	756	756	756

Size	Small	Medium	Large	XLarge
reach	405	430	460	480
stack	625	625	625	625
ST	380	410	440	455
eTT	596	620	650	672
CS	425	425	425	425
HT	120	120	120	120
HT angle	64	64	64	64
eST angle	73	73	73	73
BB drop	35	35	35	35
WB	1158	1183	1213	1233
standover	805	805	805	805

#### **TRAIL**



horizontal distance from BB center to HT center vertical distance from BB center to HT center Reach: Stack: ST:

vertical distance from BB center to HT censeat tube lenght (BB center to ST top) top tube length (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base TT: ETT: CS: HT:

HT angle: EST angle: BB drop: WB:



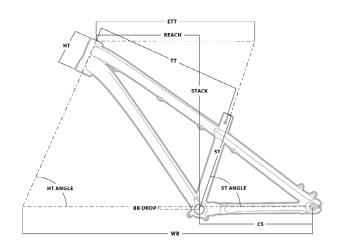
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>>> Check

Size	Medium	Large	XLarge
reach	445	470	495
stack	652	652	652
ST	435	465	465
eTT	632	657	685
CS	432	432	432
HT	120	120	120
HT angle	65	65	65
eST angle	74	74	74
BB drop	62	62	62
WB	1194	1219	1248
standover	790	800	800

Size	Small	Medium	Large	XLarge
reach	420	445	470	495
stack	652	652	652	652
ST	390	435	465	465
eTT	604	632	657	685
CS	432	432	432	432
HT	110	120	120	130
HT angle	65	65	65	65
eST angle	74	74	74	74
BB drop	62	62	62	62
WB	1165	1194	1219	1248
standover	790	790	800	800



horizontal distance from BB center to HT center Reach: vertical distance from BB center to HT center Stack: ST:

vertical distance from BB center to HT cer seat tube lenght (BB center to ST top) top tube length (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base TT: ETT: CS: HT: HT angle: EST angle:

BB drop:

WB:



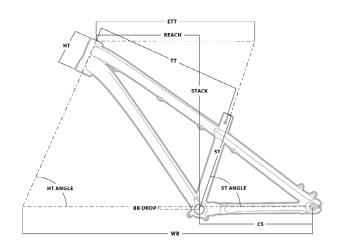
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>>> Check

Size	Small	Medium	Large	XLarge
reach	420	445	470	495
stack	652	652	652	652
ST	390	435	465	465
eTT	604	632	657	685
CS	432	432	432	432
HT	110	120	120	130
HT angle	65	65	65	65
eST angle	74	74	74	74
BB drop	62	62	62	62
WB	1165	1194	1219	1248
standover	790	790	800	800

Size	Small	Medium	Large
reach	415	445	470
stack	622	622	622
ST	410	430	460
eTT	589	621	646
CS	418	418	418
HT	110	120	120
HT angle	65	65	65
eST angle	74	74	74
BB drop	47	47	47
WB	1134	1169	1194
standover	774	774	781



horizontal distance from BB center to HT center Reach: vertical distance from BB center to HT center Stack: ST:

vertical distance from BB center to HT censeat tube lenght (BB center to ST top) top tube lenght (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base TT: ETT: CS: HT: HT angle: EST angle:

BB drop:

WB:



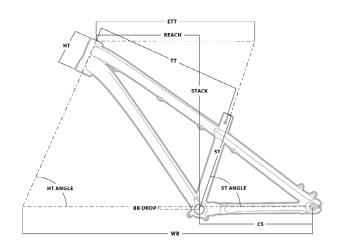




>>> Check

Size	Small	Medium	Large	XLarge
reach	415	445	470	495
stack	622	622	622	622
ST	410	430	460	460
eTT	589	621	646	675
CS	418	418	418	418
HT	110	120	120	130
HT angle	65	65	65	65
eST angle	74	74	74	74
BB drop	47	47	47	47
WB	1134	1169	1194	1223
standover	774	774	781	781

Size	Small	Medium	Large	XLarge
reach	415	445	470	495
stack	622	622	622	622
ST	410	430	460	460
eTT	589	621	646	675
CS	418	418	418	418
HT	110	120	120	130
HT angle	65	65	65	65
eST angle	74	74	74	74
BB drop	47	47	47	47
WB	1134	1169	1194	1223
standover	774	774	781	781



Reach: horizontal distance from BB center to HT center vertical distance from BB center to HT center Stack: ST:

vertical distance from BB center to HT cer seat tube lenght (BB center to ST top) top tube length (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base TT: ETT: CS: HT: HT angle: EST angle:

BB drop:

WB:



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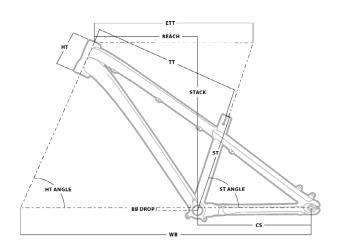


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Size	Medium	Large
reach	440	470
stack	630	630
ST	430	450
eTT	609	639
CS	427	427
HT	110	110
HT angle	66	66
eST angle	75	75
BB drop	66	66
WB	1172	1202
standover	782	793

Size	Medium	Large
reach	440	470
stack	630	630
ST	430	450
eTT	609	639
CS	427	427
HT	110	110
HT angle	66	66
eST angle	75	75
BB drop	66	66
WB	1172	1202
standover	782	793

#### **FUNBIKE**



horizontal distance from BB center to HT center Reach: Stack: vertical distance from BB center to HT center ST:

vertical distance from BB center to HT cen seat tube lenght (BB center to ST top) top tube length (actual) top tube length (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base TT: ETT: CS:

HT: HT angle: EST angle:

BB drop:

WB: wheel base





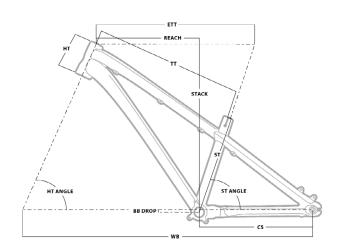


>>> Check

Size	One Size
reach	420
stack	565
ST	330
eTT	603
CS	400
НТ	100
HT angle	68
eST angle	70
BB drop	30
WB	1078

Size	One Size	
reach	425	
stack	560	
ST	335	
eTT	570	
CS	395	
НТ	100	
HT angle	70	
eST angle	75	
BB drop	25	
WB	1061	

#### DIRT/PUMPTRACK



horizontal distance from BB center to HT center Reach: vertical distance from BB center to HT center Stack:

Stack: vertical distance from BB center to HT cen ST: seat tube length (BB center to ST top)
TT: top tube length (actual)
ETT: top tube length (effective)
CS: chain stay length
HT: head tube length
HT angle: head tube angle
EST angle: seat tube angle (effective)
BB drop: bottom bracket height (BB center to WB)
WB: wheel base



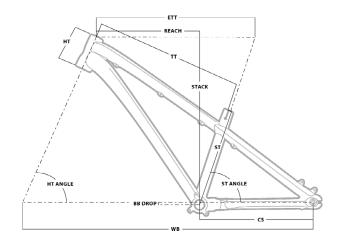
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>>> Check

Size	Medium	Long
reach	410	470
stack	571	652
ST	337	465
TT	552	570
CS	385	385
HT	120	120
HT angle	69	69
eST angle	74	74
BB drop	25	25
WB	1052	1072

Size	Medium	Long					
reach	410	430					
stack	571	571					
ST	337	337					
TT	552	570					
CS	385	385					
HT	120	120					
HT angle	69	69					
eST angle	74	74					
BB drop	25	25					
WB	1052	1072					







>>> Check

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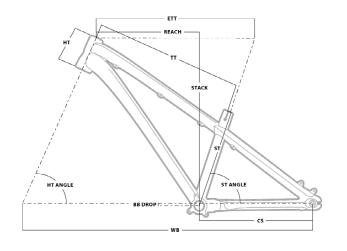
horizontal distance from BB center to HT center Reach: vertical distance from BB center to HT center Stack:

Stack: vertical distance from BB center to HT cen
ST: seat tube lenght (BB center to ST top)
TT: top tube lenght (actual)
ETT: top tube lenght (effective)
CS: chain stay length
HT: head tube length
HT angle: head tube angle
EST angle: seat tube angle (effective)
BB drop: bottom bracket height (BB center to WB)
WB: wheel base

WB: wheel base

Size	Short	Long							
reach	410	470							
stack	571	652							
ST	337	465							
TT	552	570							
CS	385	385							
HT	120	120							
HT angle	69	69							
eST angle	74	74							
BB drop	25	25							
WB	1052	1072							

Size	Short	Long
reach	410	470
stack	571	652
ST	337	465
TT	552	570
CS	385	385
HT	120	120
HT angle	69	69
eST angle	74	74
BB drop	25	25
WB	1052	1072







>>> Check

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horizontal distance from BB center to HT center Reach: vertical distance from BB center to HT center Stack: ST:

TT: ETT:

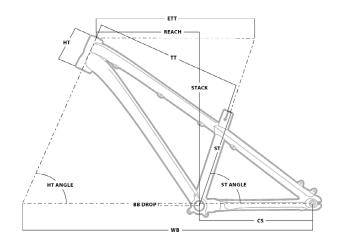
vertical distance from BB center to HT censeat tube lenght (BB center to ST top) top tube lenght (actual) top tube lenght (effective) chain stay length head tube length head tube angle seat tube angle (effective) bottom bracket height (BB center to WB) wheel base CS: HT: HT angle:

EST angle: BB drop:

WB: wheel base

Size	One Size
reach	410
stack	580
ST	332
TT	575
CS	385
HT	110
HT angle	69
eST angle	74
BB drop	20
WB	1071

Size	One Size
reach	410
stack	580
ST	332
TT	575
CS	385
HT	110
HT angle	69
eST angle	74
BB drop	20
WB	1071







>>> Check

>>> Check

horizontal distance from BB center to HT center Reach: Reach: horizontal distance from BB center to HT center
Stack: vertical distance from BB center to HT center
ST: seat tube lenght (BB center to ST top)
TT: top tube lenght (actual)
ETT: top tube lenght (effective)
CS: chain stay length
HT: head tube length
HT angle: head tube angle
EST angle: seat tube angle (effective)
BB drop: bottom bracket height (BB center to WB)
WB: wheel base

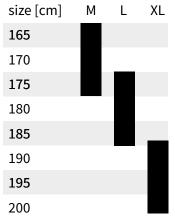
Size	One Size
reach	365
stack	544
ST	325
TT	516
CS	370
HT	90
HT angle	69
eST angle	75
BB drop	3
WB	986

Size	One Size
reach	365
stack	544
ST	325
TT	516
CS	370
HT	90
HT angle	69
eST angle	75
BB drop	3
WB	986

## SELECTION OF THE APPROPRIATE SIZE OF THE FRAME TO THE USER'S HEIGHT

#### **FREERIDE**

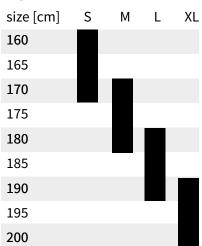
#### **HORNET PRO**



**PDF >>>** Open the document

#### **ENDURO**

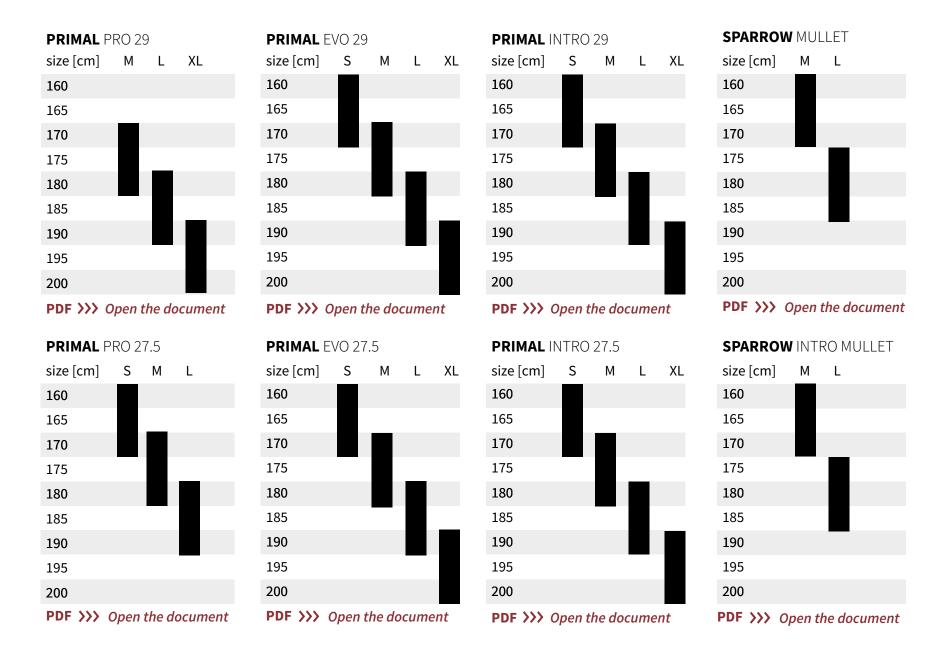
#### **HORNET**



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#### **TRAIL**



#### **FUNBIKE**

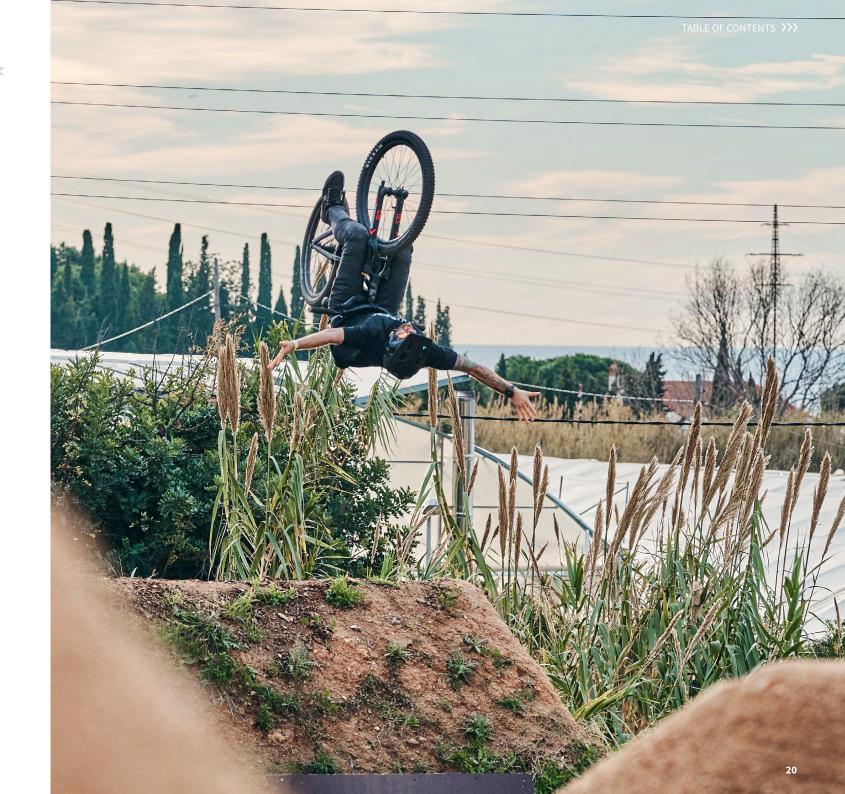
#### **HORNET** 26"

	~
size [cm]	One size
160	
165	
170	
175	
180	
185	
190	
195	
200	

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#### STREETFIGHTER

_	_
size [cm]	One size
160	
165	
170	
175	
180	
185	
190	
195	
200	



#### **5. SERVICE PARTS**

Hornet, Hornet26, Hornet Pro derailleur hanger:



Currently, the most commonly used hub size standard is Boost (technology) - 148x12 mm for the rear hub, and 110x15 mm for the front hub. It is a relatively new solution in which the wider track increases the stiffness of the wheel, maneuverability, and dynamics of the bicycle.

Other, slightly older standards for hub sizes are 142x12 mm and 135x10mm for the rear hub, as well as 100x15 mm. 110x20 mm, and 100x9 mm for the front hub.

Derailleur hanger for singlespeed frames with horizontal dropuots:



Two6Player Pro, Two6Player Pump, Two6Player,

Primal 27.5 and Primal 29 (2022/2023) derailleur han-

Gamer 26, Gamer 24: rear hub size: 135x10 mm

ger - compatible with SRAM UDH

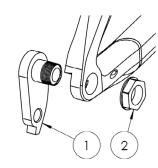
An instructional video showing how to install derailleur hanger to the frame **YT** >>> Watch the video An instructional video showing how to assemble a suspension bike YT >>> Watch the video

Derailleur hanger:

1. Derailleur hanger

purchased separately.

2. Derailleur hanger nut



Sparrow derailleur hanger: rear hub size 135x10 mm



Streetfighter derailleur hanger: rear hub size: 135x10 mm



UHD compatible derailleur hanger/frame axle assembly.



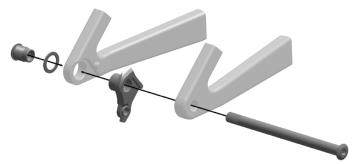


Axle frame M12x1.75 with a lever for the hub spacing

142x12 mm or 148x12 mm. The frameset includes an axle without a lever. An option with a lever can be

> Hornet Pro, Hornet, Primal Pro 29, Primal Evo 29, Primal Intro 29, Primal Pro 27.5, Primal Evo 27.5, Primal Intro 27.5, Hornet 26:

rear hub size: 148x12 mm





#### 6. SUSPENNSION SETTINGS

#### **INITIAL SAG**

Suspension settings are a matter of personal preference. Some riders prefer a soft setup, others a hard setup. Depending on the riding style, skills, and conditions on the route. The suspension on a trail/ enduro bike works fine with approximately 20% -30% initial sag. For the front shock, the value of 20-25% should be assumed.

Before starting work, set the return damping to the fully open position.

To measure the SAG, follow the instructions/indications below: Move the O-ring on the stanchion so it touches the fork seal, the same for the rear shock

- Stand on the pedals with your full body weight with full equipment: protective armor, helmet, neck protector, water bottle or water bag, etc. It is important that the equipment and clothing reflect the real riding conditions to give the most accurate results. While standing on the bike, bend the suspension several times, then push the O-ring against the shock seals again. It is best to have someone to help, but you can deal with it yourself, for example by leaning against the wall of the building.
- Get off the bike carefully and measure the SAG with a ruler or tape measure printed on the stanchion, or ask someone to read the value on the scale when standing on the bike in a neutral position (slightly bent knees and hands in elbows). Inflate or deflate the damper until the desired deflection of the shock is achieved.

#### It is best to set the front shock return damping as follows:

• Start by unscrewing the damper to the extreme position as it was in the case of the damper. Stand next to the bicycle, depress the shock as far as possible, and release it vigorously. Observe that the front wheel is clear of the ground. Increase the damping by two clicks by using the adjuster on the bottom of the right shock leg, turning towards the "turtle" symbol ("+"; "slow").

- Repeat this process until the wheel stops springing off the ground. The basic setting obtained in this way can be corrected on the trail depending on the driving conditions and individual preferences.
- Finally, get on the bike and on a straight road, vigorously bending the suspension and check that the front and rear work evenly. By pressing the suspension in this way, bend it in the range of 80-90%, if it is difficult, it may turn out that the shock or damper needs to be adjusted in terms of the air chamber capacity. To do this, contact an experienced service provider who will adjust the size of the chamber with the help of tokens.

#### **COMPRESSION - SPEED OF COMPRESSION (DEFLECTION)**

Most air shocks have a compression speed damping adjustment implemented by a single knob. It enables smooth or gradual regulation until the shock is blocked.

This adjustment is most often used while driving, adapting the shock to the type of route. The fully open position is most often used when descending on uneven terrain when we want the best traction. Slowing down the compression speed to about half

of the range is used in normal riding on flat sections and in the case of riding on flow routes so that the suspension does not absorb the user's speed while riding on moguls. This setting is the most used and the most universal, also for people who like to jump on a bike. The shock absorbs energy when hitting a punch, so some riders prefer to increase compression damping. The extreme setting is the least used, most often when climbing steep climbs.

More advanced designs of the shock, mount a damper with two regulators, fast and slow compression. Slow compression damping acts on the first half of the shock travel, mainly when braking, negotiating steep descents, rides, or moguls. Increasing it improves the efficiency of pedaling, prevents "swinging" and reduces the collapse of the suspension when overcoming the above-mentioned elements. Similar to the case when you have only one compression knob. Therefore, the adjustment is made in the same way.





### **8. GENERAL INFORMATION**

	model *	calc. fork travel	reach	stack (mm)	ST (mm)	TT (mm)	eTT (mm)	CS (mm)	HT (mm)	HT angle	eST angle	BB drop	WB (mm)	stand- over	wheel size	max. tire size	max. chainring	frame travel	shock size	shock hardware	**fork travel	hub size	headset type	BB type	post diam.	clamp diam.	brake mount	max. rotor size
			()	ļ,	()	(·····y	()	,,	įy	(°)	(°)		,,	(mm)	(")	(")	size	(mm)	(mm)	(mm)	(mm)		(S.H.I.S)	(mm)	(mm)	(mm)		(mm)
HORNET PRO																												
	MEDIUM	160	430	606	410	-	616	420	110	64	73	35	1174	756	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS60	BSA/Euro73	30.9	34.9	PM 160mm	203
	LARGE	160	460	606	440	-	645	420	110	64	73	35	1204	756	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS60	BSA/Euro73	30.9	34.9	PM 160mm	203
	XLARGE	160	480	606	455	-	665	420	110	64	73	35	1224	756	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS60	BSA/Euro73	30.9	34.9	PM 160mm	203
HORNET																												
	SMALL	160	405	625	380	-	596	425	120	64	73	35	1158	805	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 160mm	203
	MEDIUM	160	430	625	410	-	620	425	120	64	73	35	1183	805	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 160mm	203
	LARGE	160	460	625	440	-	650	425	120	64	73	35	1213	805	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 160mm	203
	XLARGE	160	480	625	455	-	672	425	120	64	73	35	1233	805	27.5/Mullet	27.5x2.8	36T	-	-	-	140-180	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 160mm	203
HORNET JR	ONE SIZE	100	360	527	305		521	390	90	68	73	30	002	700	24	24.25	247				100-140	125 10	10.40.0000	DC1/F72	30.9	34.9	IS	100
HORNET 26	ONE SIZE	100	360	521	305	-	521	390	90	68	13	30	993	700	24	24x2.5	34T	-			100-140	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	15	160
	ONE SIZE	140	420	565	330		603	400	100	68	70	30	1078		26	26x2.4	34T				100-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
PRIMAL 29	OINE SIZE	140	420	303	330		003	400	100	00	10	30	1010		20	2082.4	341			-	100-100	140112	1342/1332	D3A/LUIUI3	30.5	34.5	13	100
	SMALL	140	420	652	390		604	432	110	65	74	62	1165	790	29	29x2.4	34T		-		130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	MEDIUM	140	445	652	435	-	632	432	120	65	74	62	1194	790	29	29x2.4	34T			-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	LARGE	140	470	652	465	-	657	432	120	65	74	62	1219	800	29	29x2.4	34T		-		130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	XLARGE	140	495	652	465	-	685	432	130	65	74	62	1248	800	29	29x2.4	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
PRIMAL 27.5																												
	SMALL	140	415	622	410	-	589	418	110	65	74	47	1134	774	27.5	27.5x2.6	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	MEDIUM	140	445	622	430	-	621	418	120	65	74	47	1169	774	27.5	27.5x2.6	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	LARGE	140	470	622	460	-	646	418	120	65	74	47	1194	781	27.5	27.5x2.6	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
	XLARGE	140	495	622	460	-	675	418	130	65	74	47	1223	781	27.5	27.5x2.6	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	PM 180mm	180
PRIMAL 29 2021																												
	SMALL	140	410	636	435	-	600	432	100	66	73.5	62	1149	790	29	29x2.4	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
	MEDIUM	140	430	636	455	-	620	432	100	66	73.5	62	1169	790	29	29x2.4	34T	-	-	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
	LARGE	140	450	636	475	-	640	432	100	66	73.5	62	1189	790	29	29x2.4	34T	-	_	-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
PRIMAL 27.5 2021	XLARGE	140	470	636	495		660	432	100	66	73.5	62	1209	790	29	29x2.4	34T	-		-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
PRIMAL 27.5 2021	SMALL	140	410	617	435		593	420	115	65.5	73.5	47	1145	790	27.5	27.5x2.6	34T			-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
	MEDIUM	140	430	617	455		613	420	115	65.5	73.5	47	1165	790	27.5	27.5x2.6	34T				130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
	LARGE	140	450	617	475		633	420	115	65.5	73.5	47	1185	790	27.5	27.5x2.6	34T			-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
	XLARGE		470	617	495		653	420	115	65.5	73.5	47	1205	790	27.5	27.5x2.6	34T	-		-	130-160	148x12	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
STREETFIGHTER																							,					
	ONE SIZE	100	425	560	335	-	570	400	100	70	75	25	1066	-	26	26x2.5	32T	-	-	-	100-150	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	180
TWO6PLAYER PRO PIKE	/BOMBER																						,					
	MEDIUM	100	410	571	337	552	-	385	120	69	74	25	1052	-	26	26x2.35	32T	-	-	-	90-130	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	160
	LONG	100	430	571	337	570	-	385	120	69	74	25	1072	-	26	26x2.35	32T	-	-	-	90-130	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	160
TWO6PLAYER																												
	SHORT	100	400	573	337	556	-	385	120	69	74	25	1043	-	26	26x2.35	32T	-	-	-	90-130	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	160
	LONG	100	425	573	337	577	-	385	120	69	74	25	1068	-	26	26x2.35	32T	-	-	-	90-130	135×10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	160
TWO6PLAYER PUMP	MEDIUM	100	410	F72	227			205	100		74	25	1050		26	25.2.25	227				00.120	125 10	10 10 110 50	DC 1 /F 75	20.0	240	16	100
	MEDIUM	100	410	573	337	565	-	385	120	69	74	25	1053	-	26	26x2.35	32T			-	90-130	135x10	IS42/IS52	BSA/Euro73	30.9	34.9	IS	160
CODYTAPERED	ONE CIZE	100	400		200	570		200	110			15	1040		26	20-2 25					00 110	125-10	IC 40 /EC 4.4	Consist CO	27.2	Intern	IC.	140
OUINNIE TAPERED	ONE SIZE	100	400	558	300	5/0		380	110	69	_	15	1040	-	26	26x2.35	-			-	80-110	135×10	IS42/EC44	Spanish 68	27.2	integr.	IS	140
	ONE SIZE	100	412	558	300	576		383	110	69		15	1054		26	26x2.35					80-110	135×10	IS42/IS52	Euro 68	27.2	integr.	IS	160
	OIAE SIZE	100	712	220	500	310		303	110	- 05		- 13	1034		20	20^2.33					00-110	100010	1374/1332	Lu10 00	21.2	milegi.	13	100

 $<sup>{}^{\</sup>star} \text{ fork travel used for calculating the geometry showed in this table (in millimeters)} \qquad {}^{\star\star} \text{ recommended fork travel range (in millimeters)}$ 

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#### 9. TIGHTENING TORQUE

Correct tightening of the bicycle fasteners, nuts, and bolts is essential. Too little force and the fastener may not hold securely. Too much force and the fastener may tear, stretch, distort or break the thread. Either way, incorrect torque can damage the component, which can cause you to lose control and fall. In case of doubt or problems found during your test ride, seek immediate advice from a professional bicycle mechanic.

See the instructions of the suppliers of the suspension fork and other parts that come with this frame. Do not use the bicycle until all problems have been resolved. Riding a bicycle with any defects may be

dangerous to health and life. If you are not a qualified bicycle mechanic, do not make any of these adjustments yourself and seek advice from your local bicycle dealer.

Tightening torques (Nm) for individual points on the frame:

- rear wheel axle: 20 Nm
- rear brake mounting: 10 Nm
- derailleur hanger: 20 Nm
- seat post clamp: 6 Nm

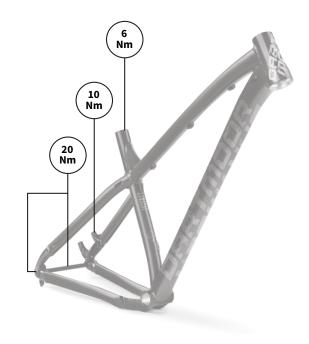
Remaining tightening torques:

**PDF** >>> Open the document

#### **ACCESSORIES:**

The rocker arm neoprene tube protector should be wrapped together with the rear derailleur cable to protect the rocker arm from chain impacts.





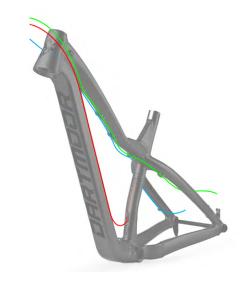


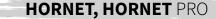
A self-adhesive set of protective films can be used for additional protection of the downtube.

Before applying the protective film to the frame, degrease and clean its Surface.

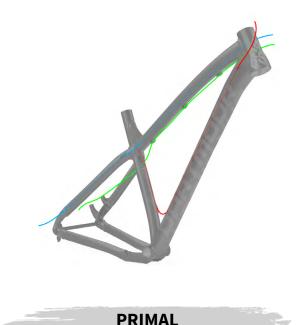
#### 10. EXTERNAL AND INTERNAL CABLE ROUTING

Cable Installation Tips:

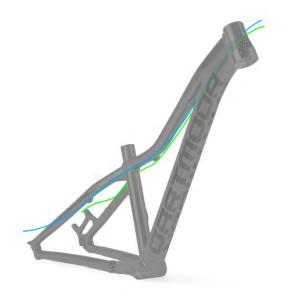


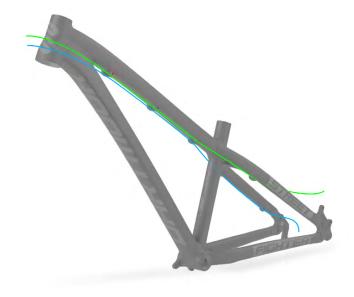


- Rear brake hose: Secure the outer casing with the zip ties to the bottom of the top tube. The brake hose runs along the inside of the left chainstay (opposite to the drive) to the brake caliper.
- Rear derailleur cable: lead outside the frame. Secure the outer casing with the zip ties to the bottom of the top tube (parallel to the rear brake hose). The shifting cable continues along the inside of the right tube the chainstay (drive side) to the derailleur hanger.
- **Dropper post cord**: run to the outside of the frame. The armor should be fastened with clamps in the upper part of the lower frame tube. The routing ends near the bottom bracket, then runs outwards upwards and goes through the grommet to the inside of the seat tube towards the saddle.



- Rear brake hose: Secure the outer casing with the zip ties to the bottom of the top tube. The rear brake cable runs along the inside of the left chainstay (opposite the drive side) to the brake calliper.
- Rear derailleur cable: it is routed inside the frame. On the left there is a grommet for inserting the rear derailleur casing. The lead ends near the seat tube, continues outside and passes through the grommet on the right inward and along the right tube (drive side) of the chainstay to the derailleur hanger.
- **Dropper post cord**: run inside the frame. On the right there is a grommet for the dropper post casing. The routing ends near the bottom bracket, then runs outwards upwards and goes through the grommet to the inside of the seat tube towards the saddle.





#### **SPARROW**

- Rear brake hose: Secure the outer casing with the zip ties to the bottom of the top tube. The brake hose runs along the inside of the left chainstay (opposite to the drive) to the brake calliper.
- Rear derailleur cable: lead outside the frame. Secure the outer casing with the zip ties to the bottom of the top tube (parallel to the rear brake hose). The shifting cable continues along the inside of the right tube the chainstay (drive side) to the derailleur hanger.

#### **STREETFIGHTER**

- Rear brake hose: Secure the outer casing with the zip ties to the bottom of the top tube. The brake hose runs along the inside of the left chainstay (opposite to the drive) to the brake calliper.
- Rear derailleur cable: lead outside the frame. The armor should be fastened with cable ties in the lower part of the top tube (parallel to the rear brake hose). Wire the derailleur continues along the inside of the right tube the chainstay (drive side) to the derailleur hanger.

#### 11. MAINTENANCE & SAFETY CONTROLS

#### Do not ride the bike if any defect is noticed.

It is recommended that the user take care of the frame of his bike, which will allow him to enjoy it for a longer period. Before each ride, the bicycle should always be inspected, which should include the following points:

- Clean the frame remember that high-pressure washing may damage some parts of the bike, so avoid it.
- · Carefully inspect for signs of potential failure including cracks, corrosion, dents, paint peeling, and any other signs of potential problems and misuse.
- If you find anything suspicious, contact your local bicycle dealer for a proper checkup. These are very important safety checks to prevent accidents, injuries and shorten the life of the product.

#### Points/things to check before each ride:

- That all frame bolts are properly tightened see #tightenning torque.
- Connecting the wheels to the frame and fork is Attach the brake calliper to the frame and fork. crucial for the user's safety.
- If axles are bolted, they must be properly tightened to the manufacturer's specifications.
- If there is a quick releaser, ensure that it is in the CLOSED position with the appropriate resistance level.
- The steering system includes handlebars, stems, headsets, and a fork. All elements should be properly twisted to ensure safety while riding. If the user wants to make any changes, be careful as incorrect settings can be very dangerous. It is always best to seek professional advice in this regard. Check that there is play in the rudders, the connection of the stem to the handlebars and the connection of the stem to the steerer tube. the connection between the handlebars and the stem, try to lift the handlebars up and down there should be no movement between the two.

Check that there is no additional slack in the controls (stand next to the bike, tighten the front brake and push the bike back and forth. There should be no play between the frame, and the fork). If there is any play, contact your local bike shop. Do not make any adjustments yourself, unless you are sure of your abilities. Adjust the steering according to the instructions from the manufacturer of the headset. All parts of the sternum should be regularly checked for damage or cracks. If a user finds anything suspicious, they should immediately contact an experienced bicycle mechanic. A damaged steering system can cause serious injury or even death.

- Connecting the bottom bracket to the frame. There should be no play between the frame and the carriage.
- The connection between cranks and the bottom bracket.
- Connecting the pedals to the cranks. Points/things to check before each ride:
- Linkage of the derailleur to the frame make sure that it functions properly before each ride.
- The general condition of the front and rear shock (pay particular attention to any cracks, or deformation).
- Air Shock pressure (in the case of air forks). See #suspension settings and manufacturer's manual. Make sure the SAG does not exceed a reasonable limit. Make sure the air pressure does not exceed the limits provided by the damper / fork manufacturer.
- Clean the tubes of the rear shock and fork.
- Brake cables and their housing for kinks, rust, brokenbands, or frayed ends. If any damage is noticed, the cables should be replaced immediately. Damaged cables can seriously affect braking performance.
- Be sure to follow the manufacturer's instructions for servicing the shock absorber and other parts. Instructions for the use of additional parts are provided in the box.







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