JOSHUA full suspension:

featuring Genesis Geometry

The 1998 Joshuas use our proven floating drivetrain swingarm which are updated with three new details:

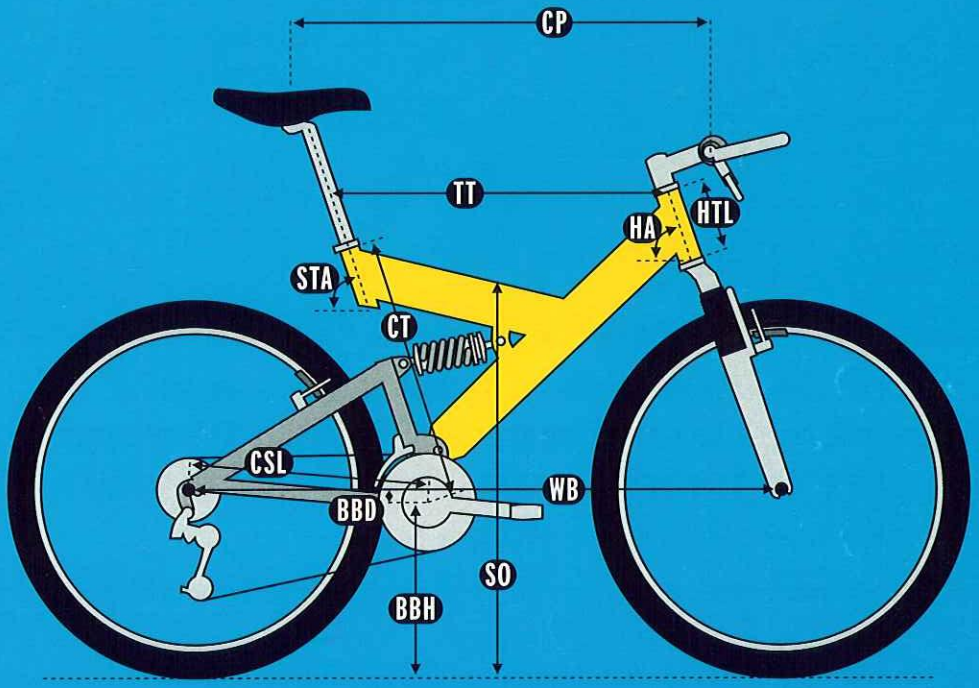
→ All Joshuas have the new Genesis Geometry.

→ Oversized tubing is used throughout for a more solid, flex free performance.

→ The updated rear end is attached to the main frame of the bike with a completely redesigned adjustable shock mounting plate which allows the rider to customize their bike for ride height, head angles, seat angles, rear wheel travel, and tunable shock performance.

	SIZE	SM	MD	LG
SO	STANDOVER (")	25.67	25.67	25.67
TT	TOP TUBE (")	22.71	23.90	25.51
CP	COCKPIT LENGTH (")	24.05	26.43	28.62
minCP	MINIMUM COCKPIT (")	24.05	25.27	27.46
maxCP	MAXIMUM COCKPIT (")	25.22	27.15	29.29
HTL	HEADTUBE LENGTH (MM)	115.00	115.00	125.00
HA	HEAD ANGLE (°)	70.50	71.00	71.00
STA	SEATTUBE ANGLE (°)	74.00	73.50	73.00
CSL	CHAINSTAY LENGTH (MM)	412.00	412.00	412.00
BBH	BOTTOM BRACKET HEIGHT (MM)	305.90	305.90	305.90
BBD	BOTTOM BRACKET DROP (MM)	27.10	27.10	27.10
WB	WHEELBASE (MM)	1,058.00	1,078.00	1,115.00
CT	CENTER TO TOP (")	16.00	18.00	21.00
I	INSEAM RANGE (")	27.67 - 30.17	27.67 - 32.57	27.67 - 34.54

$1998



The Joshua main frame uses our proven side butted 6061 bladed tubing, with new cable routing and a new compression lock out handlebar mounted damping adjuster on most models. This will allow the rider to switch from a fully active bike for the bumps, to a fully damped bike that enhances climbing.

The Joshua design is quite simply the most efficient suspension design available, and now comes with the new standard in mountain bike geometry: Genesis.

Check out the whole Genesis Geometry story on pages 6-8.
For Fisher factory assembly information see page 56.
Also see the Joshua and Level Betty Assembly Instructions on pages 60-63.



JOSHUA Z0

Ever since Shimano slaughtered everyone a few years ago, smaller companies have been making a steady comeback. This bike represents the best of them, (while still using a Shimano drivetrain and brakes) – Mavic, Time, Thomson, WTB, Bontrager, Sugino.

UPGRADES FROM JOSHUA Z1:

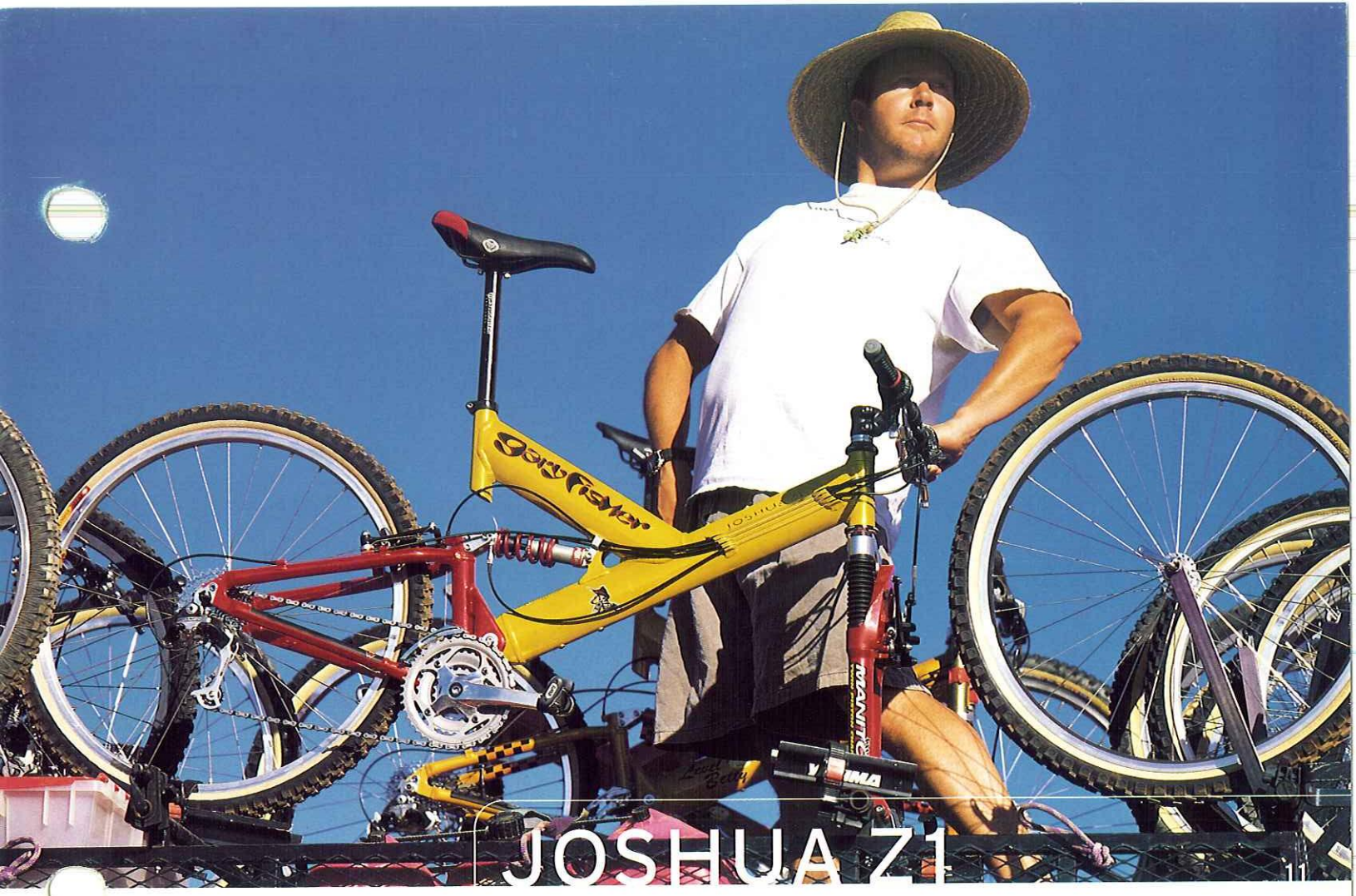
- ROCK SHOX COUPE DELUXE SL WITH REMOTE LOCKOUT
- SHIMANO XT V-BRAKES
- TITANIUM SADDLE RAILS AND HANDLEBAR
- SUGINO MIGHTY 900 CRANKSET
- CUSTOM PAINT JOB

SIZES	SM, MD, LG
COLOR	Video Blue and Judy Yellow
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with Genesis geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable geometry
FORK	Rock Shox Judy SL; alloy steerer; 80mm travel
REAR SHOCK	Rock Shox Coupe Deluxe SL with remote; 99mm travel
HEADSET	WTB OS Greaseguard Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN72; 73 x 113 shell/axle
CRANKS	Sugino Mighty 900; hard anodized chainrings; 20/32/42; 58/104mm bolt hole
PEDALS	Time ATAC clipless
FRONT DERAILLEUR	Shimano XT; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XTR SGS; reverse spring; Rapidrise
SHIFTER	Shimano XT; Rapidfire SL; STI
CASSETTE	Shimano XT; 8-speed IG; 11–30

CHAIN	Sachs PC61; 104 length
FRONT HUB	Mavic Crossmax; 26 hole
REAR HUB	Mavic Crossmax; 28 hole; 135mm O.L.D.
SPOKES	Straight pull 14/15G butted stainless steel; alloy nipples; 255mm front; 273/255mm rear
FRONT RIM	Mavic Crossmax; 26 hole
REAR RIM	Mavic Crossmax; 28 hole
FRONT TIRE	WTB Velociraptor; Kevlar; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; Kevlar; 44/50; 60 tpi
FRONT BRAKE	Shimano XT V-brake
REAR BRAKE	Shimano XT V-brake
LEVERS	Shimano XT V-lever
HANDLEBAR	Bontrager race lite; 5° bend
STEM	Bontrager Aheadstem; 180gm; 25.4mm clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Fins; 120gm

SADDLE	WTB SSTX; titanium rail; perforated leather/Kevlar sides
SEATPOST	Thomson Elite; 220gm; 27.2mm diameter
SEAT BINDER	Alloy with integral bolt; 35mm clamp diameter
ANYTHING ELSE?	Remote rear damping adjuster
	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	SM	MD	LG
COMPLETE BIKE	4706108	4706208	4706308
FRAMESET ONLY	4702108	4702208	4702308
STEERER LENGTH MM	SM 203	MD 203	LG 223
CRANK LENGTH MM	SM 170	MD 175	LG 177.5
HANDLEBAR WIDTH MM	SM 560	MD 560	LG 560
STEM LENGTH MM	SM 60	MD 90	LG 105
STEM ANGLE DEGREES	SM 10	MD 10	LG 10
SEATPOST LENGTH MM	SM 330	MD 390	LG 390



JOSHUA Z1

UPGRADES FROM JOSHUA X01:
MANITOU X-VERT SINGLE CLAMP FORK WITH TWIN PISTON CHAMBER DAMPING
BONTRAGER VALIANT FRONT RIM
BONTRAGER MUSTANG ASYM REAR RIM
BONTRAGER STEM, HANDLEBAR, AND SEATPOST

It's got a Manitou Xvert fork with oversize stanchions; it's got a WTB GreaseGuard superwide front hub; it's got a Bontrager Valiant front rim, which is radially laced. All of this adds up to a bike with more steering control and more shock absorbtion.

SIZES	SM, MD, LG
COLOR	Team Yellow and Team Red
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with Genesis geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable geometry
FORK	Manitou Xvert single clamp; alloy steerer; 80mm travel
REAR SHOCK	Rock Shox Coupe Deluxe with remote; 99mm travel
HEADSET	WTB OS Greaseguard Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Mighty 700; hard anodized chainrings; 20/32/42; 58/104mm bolt hole
PEDALS	Time Atac clipless
FRONT DERAILLEUR	Shimano LX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Gripshift ESP 9.0SL
SHIFTER	Gripshift ESP 900SL
CASSETTE	Shimano HG70-I; 8-speed; 11–30
CHAIN	Sachs PC51; 104 length

FRONT HUB	WTB Greaseguard 1R; 28 hole; 6mm skewer
REAR HUB	Shimano XT; 32 hole; 135mm O.L.D.
SPOKES	DT 15/16G butted stainless steel; 249mm front; 264/265mm rear
FRONT RIM	Bontrager Valiant; 28 hole
REAR RIM	Bontrager Mustang ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; Kevlar; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; Kevlar; 44/50; 60 tpi
FRONT BRAKE	Avid 20
REAR BRAKE	Avid 20
LEVERS	Avid 1.9
HANDLEBAR	Bontrager comp; 5° bend
STEM	Bontrager Aheadstem; 180gm; 25.4mm clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Fins; 120gm

SADDLE	WTB SSTX; cromoly rail; Kevlar sides
SEATPOST	Bontrager comp; 27.2mm diameter
SEAT BINDER	Alloy with integral bolt; 35mm clamp diameter
ANYTHING ELSE?	Remote rear damping adjuster
	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	SM 4606108	MD 4606208	LG 4606308
STEERER LENGTH MM	SM 193	MD 193	LG 203
CRANK LENGTH MM	SM 170	MD 175	LG 175
HANDLEBAR WIDTH MM	SM 580	MD 580	LG 580
STEM LENGTH MM	SM 60	MD 90	LG 105
STEM ANGLE DEGREES	SM 10	MD 10	LG 10
SEATPOST LENGTH MM	SM 300	MD 350	LG 350



JOSHUA XØ

It's a tangerine dream. It's got a remote compression damping adjuster. It's significantly lighter: it's the lightest dual suspension bike in its price class. (You know, a lot of our Joshuas are...)

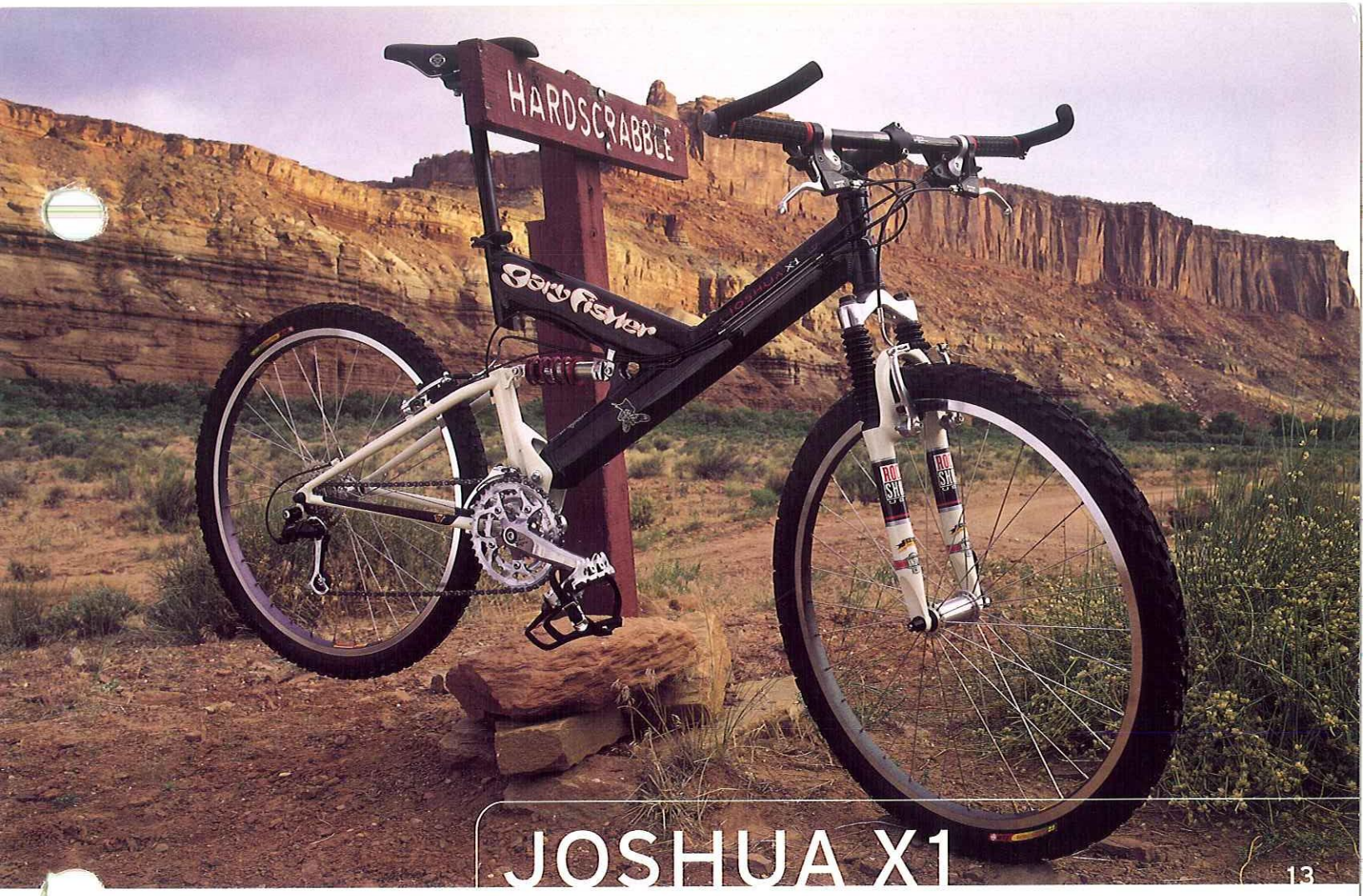
UPGRADES FROM JOSHUA X1:
ROCK SHOX JUDY T2 LONG TRAVEL
ROCK SHOX COUPE DELUXE
WITH REMOTE LOCK OUT
ICON CLIPLESS PEDALS
SHIMANO XT REAR DERAILLEUR

SIZES	SM, MD, LG
COLOR	Acid Tangerine and Midnight
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with Genesis geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable geometry
FORK	Rock Shox Judy T2; alloy steerer; 80mm travel
REAR SHOCK	Rock Shox Coupe Deluxe with remote; 99mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Impel 300A; 20/32/42; 58/94mm riveted bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano STX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XT SGS
SHIFTER	Shimano LX; Rapidfire+
CASSETTE	Shimano IG60; 8-speed; 11–30
CHAIN	Sachs PC41; 106 length

FRONT HUB	Fisher Ginzu Team; 28 hole radial; 6mm skewer
REAR HUB	Shimano STX-RC; 32 hole
SPOKES	DT 15G Stainless steel; 253mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 28 hole radial
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; Kevlar; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; Kevlar; 44/50; 60 tpi
FRONT BRAKE	Avid 10
REAR BRAKE	Avid 10
LEVERS	Avid 1.0
HANDLEBAR	Butted aluminum; 580mm; 230gm; 6° bend
STEM	Aheadstem with Quick Change; 180gm; 25.4mm clamp diameter; 41mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Sticks; 125gm

SADDLE	WTB SSTX
SEATPOST	Alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses
	Remote rear damping adjuster

PART NUMBER	SM 4506108	MD 4506208	LG 4506308
STEERER LENGTH MM	SM 187	MD 187	LG 197
CRANK LENGTH MM	SM 170	MD 175	LG 175
HANDLEBAR WIDTH MM	SM 580	MD 580	LG 580
STEM LENGTH MM	SM 60	MD 90	LG 105
STEM ANGLE DEGREES	SM 10	MD 10	LG 10
SEATPOST LENGTH MM	SM 300	MD 350	LG 350



JOSHUA X1

Joshua has gone Genesis. Let's put it this way: basically, it's the entry-level Joshua, the dual suspension bike made with climbing as well as descending in mind.

SIZES	SM, MD, LG
COLOR	Midnight and Team Red
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with Genesis geometry
REAR TRIANGLE	TIG-welded cromoly
FORK	Rock Shox Indy XC; 75mm travel
REAR SHOCK	Rock Shox Deluxe; 99mm travel
HEADSET	Dia-Compe ST Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP27; 73 x 113 shell/axle
CRANKS	Sugino Impel 300; 42/32/20; 58/94mm bolt hole
PEDALS	Alloy cage/resin body with Fisher toeclips
FRONT DERAILLEUR	Shimano Alivio; top swing; top pull; 34.9mm/1⅜" clamp
.AR DERAILLEUR	Shimano XT SGS
SHIFTER	Shimano STX; Rapidfire+; O.G.D.
CASSETTE	Shimano IG50; 7-speed; 11-30
CHAIN	Sachs PC-41; 104 length

FRONT HUB	Fisher Ginzu Team; 28 hole; 6mm skewer
REAR HUB	Shimano STX; 32 hole; HyperGlide; 7-speed compact cassette; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 253mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 28 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; 44/50; 60 tpi
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull; alloy/alloy; 2 finger
HANDLEBAR	Butted aluminum; 230gm; 6° bend
STEM	Cold forged alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Sticks; 125gm

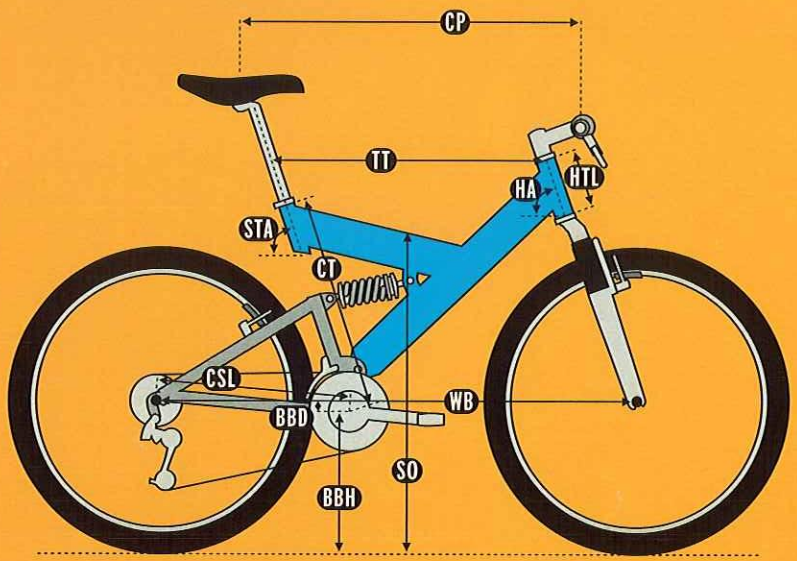
SADDLE	WTB SSTX
SEATPOST	Aluminum alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	2 waterbottle bosses

PART NUMBER	SM 4406108	MD 4406208	LG 4406308
STEERER LENGTH MM	SM 187	MD 187	LG 197
CRANK LENGTH MM	SM 170	MD 175	LG 175
HANDLEBAR WIDTH MM	SM 580	MD 580	LG 580
STEM LENGTH MM	SM 60	MD 90	LG 105
STEM ANGLE DEGREES	SM 5	MD 15	LG 15
SEATPOST LENGTH MM	SM 300	MD 350	LG 350

LEVEL BETTY full suspension:

our new Fun Hog.

It used to be that mountain biking was about climbing. The better, revered and idolized riders were the ones who could get up the hills the fastest; and that was the point of the whole ultra lightweight craze we went through a few years back. The climb was the test, and then the rider just sort of suffered through the descents, with equipment that really was not appropriate for going downhill very fast.



But then equipment got better. Most off-road bikes began to come equipped with suspension forks. Then full suspension bikes became accepted... But only if they could climb. Now, more and more riders are not as concerned with the climb. They want a bike that will handle the climb – maybe not as fast as on a lightweight hardtail – but will still get up the hill in a respectable manner. And they are fine with going up a little slower, because after the climb, they know there will be a descent; which is the fun part. People are now going back to the roots of Repack: going downhill simply because it's a blast.

GENESIS LEVEL BETTYS

	SIZE	SM	MD	LG
SO	STANDOVER (")	25.98	25.98	25.98
TT	TOP TUBE (")	22.71	23.90	25.51
CP	COCKPIT LENGTH (")	24.00	25.80	27.99
minCP	MINIMUM COCKPIT (")	24.00	25.22	27.41
maxCP	MAXIMUM COCKPIT (")	25.17	26.57	28.71
HTL	HEADTUBE LENGTH (MM)	115.00	115.00	125.00
HA	HEAD ANGLE (°)	69.50	70.00	70.00
STA	SEATTUBE ANGLE (°)	73.00	72.50	72.00
CSL	CHAINSTAY LENGTH (MM)	412.00	412.00	412.00
BBH	BOTTOM BRACKET HEIGHT (MM)	307.00	307.00	307.00
BBD	BOTTOM BRACKET DROP (MM)	26.00	26.00	26.00
WB	WHEELBASE (MM)	1,062.00	1,084.00	1,121.00
CT	CENTER TO TOP (")	15.57	17.57	19.07
I	INSEAM RANGE (")	27.98 - 30.48	27.98 - 30.92	27.98 - 31.90

The Level Bettys represent the newest category of mountain bike around, and the most fun that can be had on 2 wheels. They are full suspension bikes with double crown motorcycle-style forks, featuring 4" of front wheel travel, 5" of rear wheel travel, a more heads-up riding position, wider handlebars, super strong brakes, and beefier wheel sets.

We call them 'Fun Hog' bikes: you'll notice the new model designations: Level Betty FH2, FH1, and FH0. (FH=Fun Hog.)

To haul you down from all of that speed you can carry over the rough, Bettys feature some of the strongest brakes money can buy: A combination of V-brakes and/or ceramic rims and/or disk brakes. And to keep everything rolling along smoothly, they feature bomb-proof wheels covered with gnarly meaty tires.

Check out the whole Genesis Geometry story on pages 6-8.
For Fisher factory assembly information see page 56.
Also see the Joshua and Level Betty Assembly Instructions on pages 60-63.



LEVEL BETTY FHØ

UPGRADES FROM LEVEL BETTY FH1:
MANITOU XVERT R
WITH TWIN PISTON CHAMBER
ANSWER AFTERBURNER REAR SHOCK
WTB GREASEGUARD AHEADSET
HAYES DISC BRAKES FRONT AND REAR
TITANIUM SADDLE RAILS AND HANDLEBAR

The Afterburner. Full disc. Tyranoraptor. Berserkr.
The MOST Fun Hog, period.

SIZES	SM, MD, LG
COLOR	Wango Mango
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with super long travel geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable long travel geometry
FORK	Manitou Xvert R; double clamp; twin piston chamber; 100mm travel
REAR SHOCK	Answer Afterburner; 132mm travel
HEADSET	WTB OS Greaseguard Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN72; 73 x 113 shell/axle
CRANKS	Sugino Mighty 700; hard anodized chainrings; 22/32/44; 58/104mm bolt hole
PEDALS	Time Atac clipless
ONT DERAILLEUR	Shimano LX; top swing; top pull; 34.mm/1⅜" clamp
REAR DERAILLEUR	Gripshift ESP 9.0SL
SHIFTER	Gripshift ESP900SL
CASSETTE	Shimano HG70-I; 8-speed; 11–30
CHAIN	Sachs PC51; 104 length

FRONT HUB	Hugi/Hayes sealed bearing disc brake hub; 32 hole
REAR HUB	Hugi/Hayes rear disc brake free hub; 32 hole; 135mm O.L.D.
SPOKES	DT 14/15 butted; 263/264mm front and rear
FRONT RIM	Bontrager Mustang ASYM; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Tyranoraptor; folding bead; 52/54; 60 tpi
REAR TIRE	WTB Tyranoraptor; folding bead; 52/54; 60 tpi
FRONT BRAKE	Hayes disc
REAR BRAKE	Hayes disc
LEVERS	Hayes disc front and rear
HANDLEBAR	Bontrager Crow bar titanium; 7° bend
STEM	Bontrager Aheadstem; 180gm; 25.4mm clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density

SADDLE	Titec Berzerkr; titanium rails; leather
SEATPOST	Bontrager comp; 230gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

	SM	MD	LG
PART NUMBER			
COMPLETE BIKE	4856108	4856208	4856308
FRAMESET ONLY	4852108	4852208	4852308
STEERER LENGTH mm	400	500	550
CRANK LENGTH mm	170	175	175
HANDLEBAR WIDTH mm	625	625	625
STEM LENGTH mm	60	75	90
STEM ANGLE DEGREES	10	10	10
SEATPOST LENGTH mm	400	500	550



LEVEL BETTY FH1

Ahhhh. It's got a disc brake in the place you need it most – on the front wheel – and the rear wheel uses a direct pull brake with a ceramic rim. The most Fun Hog without going Whole Hog.

UPGRADES FROM LEVEL BETTY FH2:
ROCK SHOX JUDY XL
ROCK SHOX SUPER DELUXE REAR SHOCK
HAYES FRONT DISC BRAKE
CERAMIC COATED REAR RIM
XT REAR DERAILLEUR

SIZES	SM, MD, LG
COLOR	Lime Green and Eggplant
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with super long travel geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable long travel geometry
FORK	Rock Shox Judy XL; double clamp; 101mm travel; 13.7mm upper clamp
REAR SHOCK	Rock Shock Super Deluxe; 135mm travel
HEADSET	Dia-Compe STS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Impel 300A; 20/32/42; 58/94mm bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano STX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XT SGS
SHIFTER	Shimano LX; Rapidfire separate
CASSETTE	Shimano IG60; 8-speed; 11–30
CHAIN	Sachs PC41; 104 length

FRONT HUB	Hayes-compatible disc hub; 32 hole
REAR HUB	Shimano STX-RC; 32hole; 135mm O.L.D.
SPOKES	DT 14/15 butted; 266mm front; 264/265mm rear
FRONT RIM	Bontrager Mustang ASYM; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole; ceramic
FRONT TIRE	WTB Tyranoraptor; folding bead; 52/54; 60 tpi
REAR TIRE	WTB Tyranoraptor; folding bead; 52/54; 60 tpi
FRONT BRAKE	Hayes disc
REAR BRAKE	Avid 10
LEVERS	Hayes disc front; Avid 1.0 rear
HANDLEBAR	Bontrager Crow bar; 7° bend
STEM	Bontrager Aheadstem; 180gm; 25.4mm clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density

SADDLE	Titec Berzerkr; cromoly rails
SEATPOST	Alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

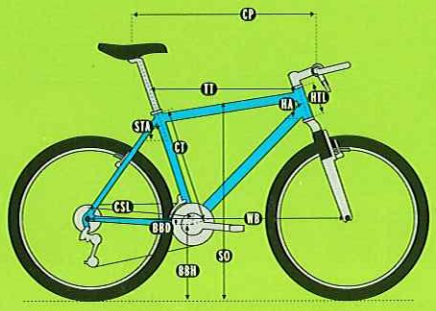
PART NUMBER	SM 4836108	MD 4836208	LG 4836308
STEERER LENGTH MM	SM 400	MD 500	LG 550
CRANK LENGTH MM	SM 170	MD 175	LG 175
HANDLEBAR WIDTH MM	SM 625	MD 625	LG 625
STEM LENGTH MM	SM 60	MD 75	LG 90
STEM ANGLE DEGREES	SM 10	MD 10	LG 10
SEATPOST LENGTH MM	SM 191	MD 191	LG 201

ALUMINUM hardtails:

two frame material choices for performance and value

The Genesis hardtail frame is available in both a frameset, and 4 different complete bikes. All of the frames feature the new Genesis geometry and a Fisher-designed double-butted Easton ProGram 6061 T6 tubeset for maximum weight savings, performance, and ride. This custom tubing spec was designed in order to create frames with the same stiffness as our past steel frames. A Cannondale or M2 frame is twice as stiff in the parking lot test ride, but in the real world off road test, they are kidney killers. We have no pangs of worry calling this the best designed, best performing, best riding off-road hardtail racing frames ever offered. By anyone, anywhere.

In addition to the new Fisher Genesis Geometry, each of these frames feature a gusseted downtube, a reinforced headtube, a newly-designed replaceable rear derailleur hanger, and a scant 3.3lb frameset weight. The chainstays use our new Fisher forged yoke design that creates gobs of tire clearance, yet is light and stiff.



This is the aluminum frame design that the Fisher Mountain Bike Team has ridden during the 1997 racing season, and it is the frame design that can now be purchased by anybody. These bikes and framesets are meant for the intermediate mountain biker through the Grundig pro racer.

All Genesis hardtails are laser cut, hand-welded, and assembled in Waterloo, Wisconsin, USA.

GENESIS HARDTAILS

SIZE	XS	SM	MD	LG	XL
SO STANDOVER (")	25.91	27.57	29.17	30.20	31.88
TT TOP TUBE (")	21.70	22.90	23.94	24.72	25.47
CP COCKPIT LENGTH (")	23.03	24.84	26.49	27.85	28.60
minCP MINIMUM COCKPIT (")	23.03	24.26	25.32	26.68	27.15
maxCP MAXIMUM COCKPIT (")	24.20	26.00	27.21	28.51	29.26
HTL HEADTUBE LENGTH (MM)	90.00	90.00	105.00	125.00	145.00
HA HEAD ANGLE (°)	70.34	70.84	71.34	71.34	71.34
STA SEATTUBE ANGLE (°)	74.34	73.84	73.84	73.34	72.84
CSL CHAINSTAY LENGTH (MM)	412.00	412.00	412.00	412.00	412.00
BBH BOTTOM BRACKET HEIGHT (MM)	288.14	293.24	293.24	293.24	293.24
BBD BOTTOM BRACKET DROP (MM)	44.86	39.76	39.76	39.76	39.76
WB WHEELBASE (MM)	1,031.48	1,060.88	1,075.88	1,091.38	1,107.88
CT CENTER TO TOP (")	13.07	15.57	17.57	19.07	21.07
I INSEAM RANGE (")	26.91 - 30.41	29.57 - 32.07	31.17 - 34.10	32.20 - 36.12	33.88 - 38.78

KAITAI

SIZE	XS	SM	MD	LG	XL
SO STANDOVER (")	24.98	26.62	28.24	29.41	30.98
TT TOP TUBE (")	21.06	21.80	22.37	22.97	23.53
CP COCKPIT LENGTH (")	23.51	24.82	25.99	27.16	27.71
minCP MINIMUM COCKPIT (")	22.37	23.11	23.71	24.88	25.21
maxCP MAXIMUM COCKPIT (")	24.65	25.97	26.69	27.81	28.37
HTL HEADTUBE LENGTH (MM)	90.00	90.00	105.00	125.00	145.00
HA HEAD ANGLE (°)	70.79	70.79	71.29	71.29	71.29
STA SEATTUBE ANGLE (°)	74.29	73.79	73.79	73.29	73.29
CSL CHAINSTAY LENGTH (MM)	412.00	412.00	412.00	412.00	412.00
BBH BOTTOM BRACKET HEIGHT (MM)	292.52	292.52	296.52	296.52	296.52
BBD BOTTOM BRACKET DROP (MM)	40.48	40.48	36.48	36.48	36.48
WB WHEELBASE (MM)	1,014.30	1,028.30	1,040.50	1,051.40	1,066.20
CT CENTER TO TOP (")	13.07	15.57	17.57	19.07	21.07
I INSEAM RANGE (")	25.98 - 29.48	28.62 - 31.12	30.24 - 33.17	31.41 - 35.33	32.98 - 37.88

TASSAJARA

SIZE	XS	SM	MD	LG	XL
SO STANDOVER (")	24.74	26.38	28.00	29.18	30.74
TT TOP TUBE (")	21.06	21.80	22.37	22.97	23.53
CP COCKPIT LENGTH (")	23.33	24.62	25.75	26.89	27.45
minCP MINIMUM COCKPIT (")	22.26	23.00	23.60	24.73	25.22
maxCP MAXIMUM COCKPIT (")	24.41	25.70	26.70	27.82	28.38
HTL HEADTUBE LENGTH (MM)	90.00	90.00	105.00	125.00	145.00
HA HEAD ANGLE (°)	71.00	71.00	71.50	71.50	71.50
STA SEATTUBE ANGLE (°)	74.50	74.00	74.00	73.50	73.50
CSL CHAINSTAY LENGTH (MM)	412.00	412.00	412.00	412.00	412.00
BBH BOTTOM BRACKET HEIGHT (MM)	291.00	291.00	295.00	295.00	295.00
BBD BOTTOM BRACKET DROP (MM)	42.00	42.00	38.00	38.00	38.00
WB WHEELBASE (MM)	1,013.00	1,027.00	1,039.20	1,050.10	1,064.90
CT CENTER TO TOP (")	13.07	15.57	17.57	19.07	21.07
I INSEAM RANGE (")	25.74 - 29.24	28.38 - 30.88	30.00 - 32.94	31.18 - 35.09	32.74 - 37.64

Fisher's new entry level aluminum bikes combine the performance and light weight of aluminum at the price points normally associated with much heavier cromoly bikes. The geometry is a traditional off-road orientation, with performance angles and suspension purpose, but they are still plenty comfortable for all users. They feature gusseted downtubes for strength in off-road riding, and a replaceable derailleur hanger to protect the investment.

The Kaitai frame is made in the USA of 6061 aluminum; the Tassajara frame is built from 7005 aluminum, and is imported. In both cases painting, alignment, and assembly are done in Waterloo, Wisconsin, USA.

Check out the whole Genesis Geometry story on pages 6-8.
For Fisher factory assembly information see page 56.
Also see the Aluminum Assembly Instructions on page 58.



LEVEL BETTY FH2

Are we free riding, or riding for free? I thought it was mountain biking. Big travel, big traction, big Fun Hog... The most fun per dollar.

SIZES	SM, MD, LG
COLOR	Pearl Red and Pearl Gray
MAIN TUBES	Side butted oval cross section 6061 T6 aluminum with super long travel geometry
REAR TRIANGLE	6061 T6 aluminum; adjustable long travel geometry
FORK	Rock Shox Judy XLC; double clamp; 100mm travel; 14mm upper clamp
REAR SHOCK	Rock Shox Deluxe coil over; 135mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Impel 300A; 20/32/42; 58/94mm bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano Alivio; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano Deore LX SGS
SHIFTER	Shimano MC40
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC41; 104 length

FRONT HUB	Fisher Ginzu Team; 32 hole
REAR HUB	Shimano STX; 32 hole; 135mm O.L.D.
SPOKES	DT 14/15G butted stainless steel; 267mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Tyranoraptor; 52/54; 60 tpi
REAR TIRE	WTB Tyranoraptor; 52/54; 60 tpi
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull; alloy/alloy; 2 finger
HANDLEBAR	Bontrager Crow bar; 7° bend
STEM	Cold forged alloy with Quick Change; 25.4mm clamp diameter; 41mm steerer clamp height
GRIP	Fisher dual density

SADDLE	Titec Berzerkr; cromoly rails
SEATPOST	Alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	SM 4806108	MD 4806208	XL 4806308
STEERER LENGTH mm	SM 400	MD 500	XL 550
CRANK LENGTH mm	SM 170	MD 175	XL 175
HANDLEBAR WIDTH mm	SM 625	MD 625	XL 625
STEM LENGTH mm	SM 60	MD 75	XL 90
STEM ANGLE DEGREES	SM 10	MD 10	XL 10
SEATPOST LENGTH mm	SM 400	MD 500	XL 550

6061 vs 7005

WITNESS THE GRUDGE MATCH OF THE CENTURY!

"What's the difference between the 6061, 7005 and MMC framesets? Why doesn't Fisher use a more 'high tech' aluminum?"

While 6061 T6 doesn't have the highest yield strength of all aluminum alloys, and it not the stiffest, it does have the best ductility for making bikes. And that's far more important. Ductilty is how much a material will bend before breaking and its measured in % of Elongation.

Low % Elongation = low ductility
Low % Elongation = more brittle material
Low % Elongation = less fatigue resistant

The higher the ductility, the better the material for a bicycle frame. If a material has low ductility, you need to use more of it to gain comparable strength, so the lightest aluminum frames come from 6061.

MATERIAL	% ELONGATION (DUCTILITY)
3/2.5 Titanium	12%
Cromoly steel	10%
6061 T6	10%
7005 T6	8%
M2 (15% Al O T6)	5.4%

MATERIAL	FRAME WEIGHT
Fisher Easton butted 6061 T6	3.3 lbs
M2 S works butted (15%Al O T6)	3.7 lbs
Fisher straight gauge 6061 T6	3.8 lbs
Fisher straight gauge 7005 T6	4.0 lbs
Fisher butted true temper cromoly	4.2 lbs

FISHER 6061 FRAMES

All Gary Fisher 6061 frames are hand made in the USA: in Waterloo, Wisconsin. After welding, each Fisher 6061 frame goes through an expensive, and time-consuming three step heat-treating process. Step one heats each frame to a near-molten 998° to regain all the strength lost in the welding process. Coming out of the oven, the soft frames are individually inspected and aligned. It's a real Wisconsin craftsperson who does this job, one frame at a time. The third step is to age-harden each frame at 350° for up to 8 hours. It is through this process that the ductility and strength of each frame is restored and optimized. The greatest strength at the lightest weight.

FISHER 7005 FRAMES

Raw 7005 tubing is actually slightly more expensive than 6061, however a 7005 frame is easier (less expensive) to make. 7005 is used by many Taiwanese and smaller American makers who do not have the expensive high temperature ovens needed to make 6061 frames correctly. You can eliminate two of the three steps involved in heat treating 6061. With 7005 you can skip the heat treating and alignment and simply age-harden.

The drawback to 7005 is that since the ductility is not as high, you have to use more material to make it as strong. More material, heavier frames.

We are using the best Taiwanese frame maker for our 7005 T6 frames, inspecting them one by one in our Waterloo, Wisconsin plant, painting and assembling them in the USA. The 7005 frames are a great value; they just need to be a little heavier to have the same longevity as a 6061 frame.



SUPERCALIBER

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ALUMINUM

One of the lightest Fishers ever: a sub-23-pound bike. The Rock Shox SID fork is the new cross country standard, period. Also, it has Crossmax wheels, XTR derailleur and brakes, Time pedals, and Continental Double Fighter tires. I've never had a bike this light and this tough. Never.

UPGRADES FROM MT TAM:

ROCK SHOX SID
MIGHTY 900 CRANKSET
MAVIC CROSSMAX WHEELS
TITANIUM SADDLE RAILS AND HANDLEBAR
XTR V BRAKES
CONTINENTAL DOUBLE FIGHTER TIRES

SIZES	XS, SM, MD, LG, XL
COLOR	Video Blue and Lime Green
MAIN TUBES	Fisher Genesis double butted Easton ProGram 6061 T6 aluminum
STAYS	Easton 6061 T6 aluminum
FORK	Rock Shox SID; 63mm travel
HEADSET	WTB OS Greaseguard Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN72; 73 x 113 shell/axle
CRANKS	Sugino Mighty 900; hard anodized chainrings; 20/32/42; 58/104mm bolt hole
PEDALS	Time ATAC clipless
FRONT DERAILLEUR	Shimano XT; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XTR SGS; reverse spring; Rapidrise
SHIFTER	Shimano XT; Rapidfire SL; STI
CASSETTE	Shimano XT; 8-speed IG; 11–30
CHAIN	Sachs PC61; 104 length
FRONT HUB	Mavic Crossmax; 26 hole
REAR HUB	Mavic Crossmax; 28 hole; 135mm O.L.D.
SPOKES	Straight pull 14/15G stainless steel; alloy nipples; 255mm front; 273/255mm rear
FRONT RIM	Mavic Crossmax; 26 hole
REAR RIM	Mavic Crossmax; 28 hole
FRONT TIRE	Continental Double Fighter; Kevlar; 2.0 race tread
REAR TIRE	Continental Double Fighter; Kevlar; 2.0 race tread
FRONT BRAKE	Shimano XTR V-brake
REAR BRAKE	Shimano XTR V-brake
LEVERS	Shimano XT STI V-levers
HANDLEBAR	Bontrager race lite; 5° bend
STEM	Bontrager alloy Aheadstem with Quick Change; 180gm; 25.4mm clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Fins; 120gm
SADDLE	WTB SSTX; titanium rail; perforated leather/Kevlar sides
SEATPOST	Thomson Elite; 220gm; 27.2mm diameter
SEAT BINDER	Alloy with integral bolt; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger 2 waterbottle bosses

PART NUMBER	XS	SM	MD	LG	XL
COMPLETE BIKE	4186008	4186108	4186208	4186308	4186408
FRAMESET ONLY	4182008	4182108	4182208	4182308	4182408
STEERER LENGTH mm	XS 168	SM 168	MD 183	LG 203	XL 223
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 177.5
HANDLEBAR WIDTH mm	XS 560	SM 560	MD 560	LG 560	XL 560
STEM LENGTH mm	XS 60	SM 75	MD 90	LG 105	XL 105
STEM ANGLE DEGREES	XS 10	SM 10	MD 10	LG 10	XL 10
SEATPOST LENGTH mm	XS 330	SM 330	MD 330	LG 330	XL 330



MT TAM

ALUMINUM

UPGRADES FROM PARAGON:
MANITOU SXR FORK
WITH TWIN PISTON CHAMBER DAMPING
SUGINO MIGHTY 700 CRANK
MAVIC CROSSLAND WHEELS
XTR REAR DERAILLEUR
WTB GREASEGUARD AHEADSET

It's back. The Wango Mango bike. It's a great raceable hardtail: fast, efficient. Cool, light, strong Mavic Crossland wheels. Honkin' cool bar ends.

SIZES	XS, SM, MD, LG, XL
COLOR	Wango Mango
MAIN TUBES	Fisher Genesis double butted Easton ProGram 6061 T6 aluminum
STAYS	Easton 6061 T6 aluminum
FORK	Manitou SXR; 70mm travel
HEADSET	WTB OS Greaseguard Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Mighty 700; hard anodized chainrings; 20/32/42; 58/104mm bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano LX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XTR SGS; reverse spring; Rapidrise
SHIFTER	Shimano XT; Rapidfire SL
CASSETTE	Shimano HG70-I; 8-speed; 11–30
CHAIN	Sachs PC41; 104 length

FRONT HUB	Mavic Crossland; 26 hole
REAR HUB	Mavic Crossland; 28 hole; 135mm O.L.D.
SPOKES	Mavic Crossland; 255mm front; 273/255mm rear
FRONT RIM	Mavic Crossland; 26 hole
REAR RIM	Mavic Crossland; 28 hole
FRONT TIRE	WTB Velociraptor; Kevlar; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; Kevlar; 44/50; 60 tpi
FRONT BRAKE	Avid 20
REAR BRAKE	Avid 20
LEVERS	Avid 1.9
HANDLEBAR	Bontrager comp; 5° bend
STEM	Bontrager alloy Aheadstem with Quick Change; 180gm; 25.4mm bar clamp diameter; 44.5mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Fins; 120gm

SADDLE	WTB SSTX; cromoly rail; Kevlar sides
SEATPOST	Bontrager comp; 27.2mm diameter
SEAT BINDER	Alloy with integral bolt; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	XS 4176008	SM 4176108	MD 4176208	LG 4176308	XL 4176408
STEERER LENGTH MM	XS 168	SM 168	MD 183	LG 203	XL 223
CRANK LENGTH MM	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH MM	XS 60	SM 75	MD 90	LG 105	XL 105
STEM ANGLE DEGREES	XS 10	SM 10	MD 10	LG 10	XL 10
SEATPOST LENGTH MM	XS 300	SM 350	MD 350	LG 350	XL 350



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PARAGON

ALUMINUM

Super light. This thing reaches that next level of lightness. Now with Rapidfire.

UPGRADES FROM BIG SUR:
ROCK SHOX INDY SL
BONTRAGER VALIANT SL FRONT RIM
BONTRAGER MUSTANG ASYM REAR RIM
SADDLE WITH CROMOLY RAILS
FISH FIN BAR ENDS
>1 LB LIGHTER

SIZES	XS, SM, MD, LG, XL
COLOR	Midnight
MAIN TUBES	Fisher Genesis double butted Easton ProGram 6061 T6 aluminum
STAYS	Easton 6061 T6 aluminum
FORK	Rock Shox Indy SL; alloy steerer; 63mm travel
HEADSET	Dia-Compe SAS alloy Aheadset; 27mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Mighty 500; 20/32/42; 58/104mm bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano LX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano Deore XT SGS
SHIFTER	Shimano Deore LX; Rapidfire SL
CASSETTE	Shimano IG60; 8-speed; 11–30
CHAIN	Sachs PC41; 104 length

FRONT HUB	Fisher Ginzu Pro; 28 hole; 6mm skewer
REAR HUB	Shimano LX; 32 hole; 135mm O.L.D.
SPOKES	DT 15/16 butted stainless steel; 253mm front; 264/265mm rear
FRONT RIM	Bontrager Valiant; 28 hole
REAR RIM	Bontrager Mustang ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; Kevlar; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; Kevlar; 44/50; 60 tpi
FRONT BRAKE	Avid 20
REAR BRAKE	Avid 20
LEVERS	Avid 1.9
HANDLEBAR	Butted aluminum; ATB alloy; 580mm; 180gm; 5° bend
STEM	Cold forged alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41.0mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Fins; 120gm

SADDLE	WTB SSTX; cromoly rail; Kevlar corners
SEATPOST	Bontrager comp; 27.2mm diameter
SEAT BINDER	Alloy with integral bolt; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	XS	SM	MD	LG	XL
	4166008	4166108	4166208	4166308	4166408
STEERER LENGTH mm	XS 168	SM 168	MD 183	LG 203	XL 223
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH mm	XS 560	SM 560	MD 560	LG 560	XL 560
STEM LENGTH mm	XS 60	SM 75	MD 90	LG 105	XL 105
STEM ANGLE DEGREES	XS 10	SM 10	MD 10	LG 10	XL 10
SEATPOST LENGTH mm	XS 300	SM 350	MD 350	LG 350	XL 350



BIG SUR

ALUMINUM

UPGRADES FROM KAITAI:
THE NEW STANDARD IN HARDTAIL GEOMETRY
INDY XC FORK
AVID DIRECT PULL BRAKES
MIGHTY 350 4 ARM CRANK
ICON CLIPLESS PEDALS

It's the beginning of the beginning. Where Genesis begins. The same frame as the Supercaliber. Dripping with lots of really nice stuff.

SIZES	XS, SM, MD, LG, XL
COLOR	Acid Yellow
MAIN TUBES	Fisher Genesis double butted Easton ProGram 6061 T6 aluminum
STAYS	Easton 6061 T6 aluminum
FORK	Rock Shox Indy XC; 63mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano UN52; 73 x 113 shell/axle
CRANKS	Sugino Mighty 350; 20/32/42; 58/104mm bolt hole
PEDALS	Icon clipless
FRONT DERAILLEUR	Shimano STX; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano XT SGS
SHIFTER	Shimano STX-RC; Rapidfire+; 8-speed with OGD
CASSETTE	Shimano IG60; 8-speed; 11–30
CHAIN	Sachs PC41; 104 length

FRONT HUB	Fisher Ginzu Team; 28 hole
REAR HUB	Shimano STX-RC; 32 hole; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 253mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 28 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; 44/50; 60 tpi
FRONT BRAKE	Avid 10
REAR BRAKE	Avid 10
LEVERS	Avid 1.0
HANDLEBAR	Butted aluminum; ATB alloy; 580mm; 230gm; 5° bend
STEM	Cold forged alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41.0mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Sticks; 125gm

SADDLE	WTB SSTX
SEATPOST	Alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	XS	SM	MD	LG	XL
	4056008	4056108	4056208	4056308	4056408
STEERER LENGTH MM	XS 162	SM 162	MD 177	LG 197	XL 217
CRANK LENGTH MM	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH MM	XS 60	SM 75	MD 90	LG 105	XL 105
STEM ANGLE DEGREES	XS 10	SM 10	MD 15	LG 15	XL 15
SEATPOST LENGTH MM	XS 300	SM 350	MD 350	LG 350	XL 350



KAITAI

ALUMINUM

A hand-made 6061 aluminum frame, made in the US of A; the new Manitou Spyder fork; Bontrager welded and machined rims with an ASYM rear – it's real performance. It's a real rider's bike.

UPGRADES FROM TASSAJARA:
MANITOU SPYDER FORK
RAPIDFIRE SHIFTERS
BONTRAGER MAVERICK RIMS WITH ASYM REAR
US MADE 6061 T6 ALUMINUM FRAME

SIZES	XS, SM, MD, LG, XL
COLOR	Acid Tangerine
MAIN TUBES	TIG-welded 6061 T6 aluminum alloy
STAYS	TIG-welded 6061 T6 aluminum alloy
FORK	Manitou Spyder; 70mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP27; 73 x 113 shell/axle
CRANKS	Sugino Impel 250; 22/32/42
PEDALS	Alloy cage/resin body with Fisher toeclip
FRONT DERAILLEUR	Shimano Alivio; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano STX SGS
SHIFTER	Shimano STX MC40
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC21; 104 length

FRONT HUB	Oversize suspension; 32 hole
REAR HUB	Shimano Alivio; 32 hole; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 266mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Primal Raptor; 2.1; 60 tpi
REAR TIRE	WTB Primal Raptor; 47/52; 60 tpi
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull; alloy/alloy; 2 finger
HANDLEBAR	Butted aluminum; ATB alloy; 580mm; 230gm; 5° bend
STEM	Diecast alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41.0mm steerer clamp height
GRIP	Fisher dual density
BAR END	Alloy short

SADDLE	Fisher 'supersoft' foam
SEATPOST	Alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Aluminum alloy micro-adjust; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	XS	SM	MD	LG	XL
	4036008	4036108	4036208	4036308	4036408
STEERER LENGTH mm	XS 152	SM 162	MD 177	LG 197	XL 217
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH mm	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH mm	XS 90	SM 105	MD 120	LG 135	XL 135
STEM ANGLE DEGREES	XS 5	SM 15	MD 15	LG 15	XL 15
SEATPOST LENGTH mm	XS 300	SM 350	MD 350	LG 350	XL 350



TASSAJARA

UPGRADES FROM MARLIN:
LIGHTWEIGHT ALUMINUM FRAME
DT SPOKES
REPLACEABLE DERAILLEUR HANGER

This is the value 7005 aluminum alloy frame bike with comfort features such as Serfas grips, supersoft saddle, and 25° rise stem. Plus... It's aluminum! The alloy bike for the entry-level buyer.

SIZES	XS, SM, MD, LG, XL
COLOR	Red Earth
MAIN TUBES	TIG-welded 7005 aluminum alloy
STAYS	TIG-welded 7005 aluminum alloy
FORK	Cromoly butted
HEADSET	Oversize double sealed; threaded; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP27; 73 x 113 shell/axle
CRANKS	Sugino Impel 250; 22/32/42
PEDALS	Resin with Fisher toeclip
FRONT DERAILLEUR	Shimano Alivio; top swing; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano STX SGS
SHIFTER	Gripshift SRT 4.0
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC21; 104 length

FRONT HUB	Oversize sealed; 32 hole
REAR HUB	Shimano Acera-X; 32 hole; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 268mm front; 266/267mm rear
FRONT RIM	Weinmann 519; 32 hole
REAR RIM	Weinmann 519; 32 hole
FRONT TIRE	WTB Primal Raptor; 47/54
REAR TIRE	WTB Primal Raptor; 47/52
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull; alloy/alloy; 2 finger
HANDLEBAR	Butted aluminum alloy; 580mm; 230gm; 5° bend
STEM	ATB cromoly with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density
BAR END	Alloy short

SADDLE	Fisher 'supersoft' foam
SEATPOST	Aluminum alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Replaceable derailleur hanger
	2 waterbottle bosses

PART NUMBER	XS	SM	MD	LG	XL
	4010008	4010108	4010208	4010308	4010408
STEERER LENGTH mm	XS 127	SM 127	MD 142	LG 162	XL 182
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH mm	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH mm	XS 90	SM 105	MD 120	LG 135	XL 135
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24
SEATPOST LENGTH mm	XS 300	SM 350	MD 350	LG 350	XL 350

STEEL hardtails:

Quintessential Fishers

The biggest story for our steel bikes in '98 is that we have substantially improved the fit and comfort of the lower-end bikes. Cool-looking dual density saddles and grips will make for the smoothest test rides ever. High angle stems for the smart people in the crowd that don't see a need to race through life. Comfort to go. Comfort that looks cool.

The steel frames have stayed basically the same in spirit with a few nice refinements. First off; we changed the sizing in the extra small frames. We have lowered the standover height and reduced the top tube length to make it fit small riders better.

At the high end of the steel bikes, we have worked to reduce the weight by using higher tech materials in the bottom bracket and have we have redesigned stronger drop outs. But the big news is that we haven't added anything to these bikes. Sure, big tubes look beefy, but they don't do a thing to help the ride of a steel bike. All large tubes do for steel bikes is make them heavy. Leave large diameters to aluminum tubes. Why fix what is not broken.

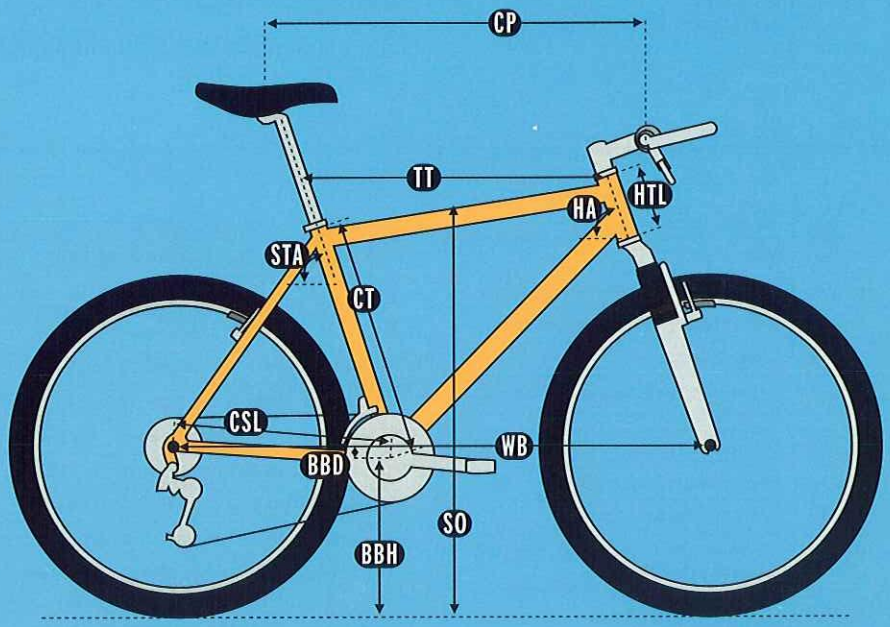
Fisher steel bikes just work.

HOO KOO E KOO; AQUILA

	SIZE	XS	SM	MD	LG	XL
SO	STANDOVER (")	25.83	28.74	29.86	30.86	31.85
TT	TOP TUBE (")	21.14	21.81	22.36	22.95	23.50
CP	COCKPIT LENGTH (")	23.64	24.90	26.06	27.23	27.78
minCP	MINIMUM COCKPIT (")	22.48	23.16	23.73	24.90	25.18
maxCP	MAXIMUM COCKPIT (")	24.81	26.06	26.67	27.78	28.33
HTL	HEADTUBE LENGTH (MM)	85.00	85.00	105.00	125.00	145.00
HA	HEAD ANGLE (°)	70.48	70.59	71.09	71.09	71.09
STA	SEATTUBE ANGLE (°)	73.98	73.59	73.59	73.09	73.09
CSL	CHAINSTAY LENGTH (MM)	420.00	420.00	420.00	420.00	420.00
BBH	BOTTOM BRACKET HEIGHT (MM)	291.81	294.05	298.05	298.05	298.05
BBD	BOTTOM BRACKET DROP (MM)	41.19	38.95	34.95	34.95	34.95
WB	WHEELBASE (MM)	1,015.66	1,028.51	1,040.31	1,051.31	1,066.01
CT	CENTER TO TOP (")	13.00	17.37	18.53	19.76	21.24
I	INSEAM RANGE (")	26.83 - 30.33	30.74 - 33.24	31.86 - 34.80	32.86 - 36.78	33.85 - 38.76

MARLIN; WHAOO; GITCHE GUMEE

	SIZE	XS	SM	MD	LG	XL
SO	STANDOVER	25.20	28.35	29.50	30.50	32.17
TT	TOP TUBE	21.14	21.81	22.36	22.95	23.50
CP	COCKPIT LENGTH	23.39	24.63	25.74	26.87	27.42
minCP	MINIMUM COCKPIT	22.31	23.01	23.58	24.71	25.20
maxCP	MAXIMUM COCKPIT	24.47	25.71	26.69	27.80	28.36
HTL	HEADTUBE LENGTH	85.00	85.00	105.00	125.00	145.00
HA	HEAD ANGLE (°)	70.50	71.00	71.50	71.50	71.50
STA	SEATTUBE ANGLE (°)	74.50	74.00	74.00	73.50	73.50
CSL	CHAINSTAY LENGTH	420.00	420.00	420.00	420.00	420.00
BBH	BOTTOM BRACKET HEIGHT	288.00	291.00	295.00	295.00	295.00
BBD	BOTTOM BRACKET DROP	45.00	42.00	38.00	38.00	38.00
WB	WHEELBASE	1,015.70	1,025.90	1,039.60	1,048.70	1,063.40
CT	CENTER TO TOP	13.00	17.12	18.33	19.58	21.08
I	INSEAM RANGE (")	26.20 - 29.70	30.35 - 32.85	31.50 - 34.43	32.50 - 36.41	34.17 - 39.07



For Fisher factory assembly information see page 56.
Also see the Steel Assembly Instructions on page 58.



HOO KOO E KOO

UPGRADES FROM AQUILA:
LIGHTER TRIPLE BUTTED FRAME
ROCK SHOX INDY XC
WTB VELOCIRAPTOR TIRES
AVID DIRECT PULL BRAKES
WTB SSTX SADDLE

It's a true temper, triple-butted cromoly. Most miles per dollar bike. The 30mm top tube and 33mm down tube are the optimal sizes; this frame could outlast you. And a 28-hole radial front wheel that's light and strong.

SIZES	XS, SM, MD, LG, XL
COLOR	Sapphire Blue
MAIN TUBES	TIG-welded true temper triple butted cromoly
STAYS	Tapered cromoly
FORK	Rock Shox Indy XC; 63mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP 27; 73 x 113 shell/axle
CRANKS	Sugino Impel 300A; 20/32/42; 58/94mm blot hole
PEDALS	Alloy cage/resin body with Fisher toeclip
FRONT DERAILLEUR	Shimano STX; top swing; top pull; 31.8mm/1¼" clamp
REAR DERAILLEUR	Shimano LX SGS
SHIFTER	Shimano STX-RC; Rapidfire+; 8-speed with OGD
CASSETTE	Shimano IG60; 8-speed; 11–30
CHAIN	Sachs PC21; 104 length

FRONT HUB	Fisher Ginzu Team; 28 hole radial; 6mm skewer
REAR HUB	Shimano STX-RC; 32 hole; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 253mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 28 hole radial
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Velociraptor; 2.1; 60 tpi
REAR TIRE	WTB Velociraptor; 44/50; 60 tpi
FRONT BRAKE	Avid 10
REAR BRAKE	Avid 10
LEVERS	Avid 1.0
HANDLEBAR	Butted aluminum; 580mm; 230gm; 6° bend
STEM	Cold forged alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41.0mm steerer clamp height
GRIP	Fisher dual density
BAR END	Fish Sticks; 125gm

SADDLE	WTB SSTX
SEATPOST	Aluminum alloy micro-adjust; 270gm; 27.2mm diameter
SEAT BINDER	Alloy with integral Fisher spoon Quick Release; 31.9mm clamp diameter
ANYTHING ELSE?	2 waterbottle bosses Rack mounts

	XS	SM	MD	LG	XL
PART NUMBER	0166008	0166108	0166208	0166308	0166408
STEERER LENGTH MM	162	162	177	197	217
CRANK LENGTH MM	170	175	175	175	175
HANDLEBAR WIDTH MM	580	580	580	580	580
STEM LENGTH MM	90	105	120	135	135
STEM ANGLE DEGREES	5	10	10	10	10
SEATPOST LENGTH MM	300	350	350	350	350



AQUILA

STEEL

It's got suspension, and it's an eight-speed, too. Double-butted cromoly frame. Rock Shox. 24-speed, and V-brakes... Sorry, That's 'direct pull': the brakes formerly known as V-brakes. 15° rise stem, and an ASYM rim: What a dish-free dish.

UPGRADES FROM MARLIN:
ROCK SHOX INDYS
STX-RC 8-SPEED
BONTRAGER MAVERICK RIMS WITH ASYM REAR
AHEADSTEM

1998

SIZES	XS, SM, MD, LG, XL
COLOR	Bright Green
MAIN TUBES	TIG-welded double butted cromoly
STAYS	Cromoly
FORK	Rock Shox Indy S; 50mm travel
HEADSET	Dia-Compe STS OS Aheadset; 25mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP 27; 73 x 113 shell/axle
CRANKS	Sugino Impel 250; 24/34/42
PEDALS	Alloy cage/resin body with Fisher toeclip
FRONT DERAILLEUR	Shimano Alivio; top swing; top pull; 31.8mm/1¼" clamp
REAR DERAILLEUR	Shimano STX-RC SGS
SHIFTER	Shimano STX-RC; Rapidfire+; 8-speed with OGD
CASSETTE	Shimano IG60; 8-speed; 11-30
CHAIN	Sachs PC21; 104 length

FRONT HUB	Oversize sealed; 32 hole
REAR HUB	Shimano STX-RC; 32 hole; 8-speed; 135mm O.L.D.
SPOKES	15 stainless steel; 266mm front; 264/265mm rear
FRONT RIM	Bontrager Maverick; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	WTB Primal Raptor; 2.1
REAR TIRE	WTB Primal Raptor; 47/52
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull
HANDLEBAR	Butted aluminum ATB alloy; 580mm; 230gm; 6° bend
STEM	Diecast alloy Aheadstem with Quick Change; 25.4mm clamp diameter; 41.0mm steerer clamp height
GRIP	Fisher dual density
BAR END	Alloy short

SADDLE	Fisher 'supersoft' foam
SEATPOST	Aluminum alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Quick Release; 47mm clamp diameter
ANYTHING ELSE?	2 waterbottle bosses Rack mounts

PART NUMBER	XS 0140008	SM 0140108	MD 0140208	LG 0140308	XL 0140408
STEERER LENGTH mm	XS 157	SM 177	MD 197	LG 217	XL 237
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH mm	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH mm	XS 90	SM 105	MD 120	LG 135	XL 135
STEM ANGLE DEGREES	XS 5	SM 15	MD 15	LG 15	XL 15
SEATPOST LENGTH mm	XS 300	SM 350	MD 350	LG 350	XL 350



MARLIN

UPGRADES FROM WAHOO:
DOUBLE BUTTED CROMOLY FRAME
STX REAR DERAILLEUR
DIA-COMPE 737 V-BRAKES
BUTTED ALLOY HANDLEBAR

Double-butted cromoly frame: smoooth riding, long-lasting.
Mmm mmm... Goodness. We got got.

SIZES	XS, SM, MD, LG, XL
COLOR	Team Yellow; Ballistic Blue
MAIN TUBES	TIG-welded double butted cromoly
STAYS	Cromoly
FORK	Oversize cromoly butted
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP 27; 73 x 113 shell/axle
CRANKS	Sugino Impel 250; 24/34/42
PEDALS	Resin with Fisher toeclip
FRONT DERAILLEUR	Shimano Acera-X; top swing; top pull; 31.8mm/1¼" clamp
REAR DERAILLEUR	Shimano STX; SGS
SHIFTER	Gripshift SRT 4.0
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC21; 104 length

FRONT HUB	Alloy sealed Quick Release; 32 hole
REAR HUB	Shimano Acera; 32 hole; 135mm O.L.D.
SPOKES	15G stainless steel; 268mm front; 266/267mm rear
FRONT RIM	Weinmann519; 32 hole; Schraeder valve drilling
REAR RIM	Weinmann519; 32 hole; Schraeder valve drilling
FRONT TIRE	WTB Primal Raptor; 47/54
REAR TIRE	WTB Primal Raptor; 47/52
FRONT BRAKE	Dia-Compe 737; direct pull
REAR BRAKE	Dia-Compe 737; direct pull
LEVERS	Dia-Compe DP7N; direct pull
HANDLEBAR	Butted aluminum; 580mm; 230gm; 6° bend
STEM	ATB cromoly with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density
BAR END	Alloy short

SADDLE	Fisher 'supersoft' foam
SEATPOST	Aluminum alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Quick Release; 47mm clamp diameter
ANYTHING ELSE?	2 waterbottle bosses Rack mounts

PART NUMBER	XS	SM	MD	LG	XL
TEAM YELLOW	0320018	0320118	0320218	0320318	0320418
BALLISTIC BLUE	0320008	0320108	0320208	0320308	0320408
STEERER LENGTH MM	XS 123	SM 143	MD 163	LG 183	XL 203
CRANK LENGTH MM	XS 170	SM 170	MD 175	LG 175	XL 175
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH MM	XS 90	SM 105	MD 120	LG 135	XL 135
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24
SEATPOST LENGTH MM	XS 300	SM 350	MD 350	LG 350	XL 350



WAHOO

STEEL

Butted cromoly, WTB tires, 'V-brakes', and quality comfort features. Alloy bar ends. Give 'em what they want, and they will smile.

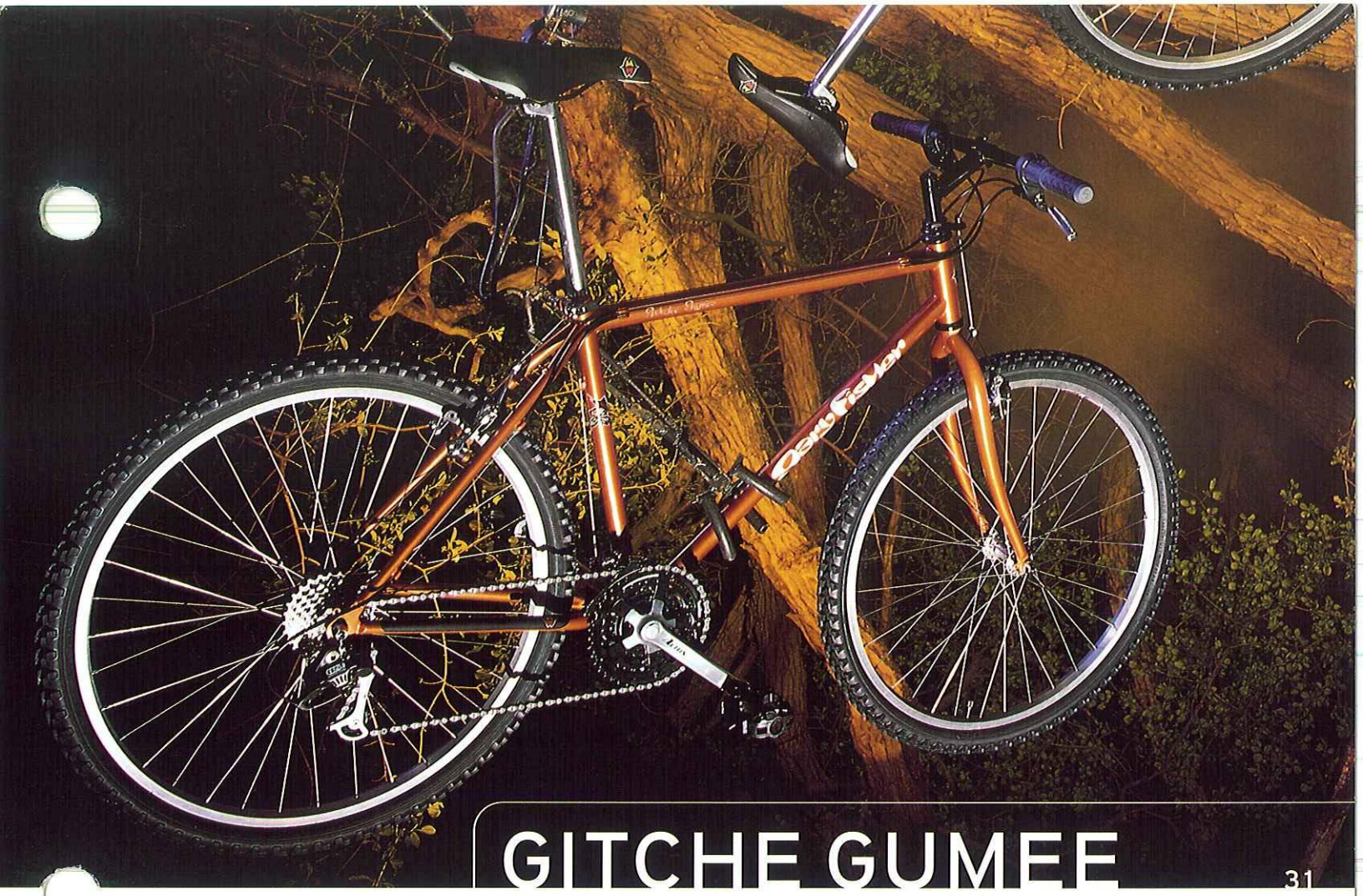
UPGRADES FROM GITCHE GUMEE:
CROMOLY MAIN FRAME
WTB PRIMAL RAPTOR TIRES
ALLOY BAR ENDS

SIZES	XS, SM, MD, LG, XL, MD-L
COLOR	Video Blue; Bloodshot Red
MAIN TUBES	TIG-welded cromoly mains
STAYS	High Tensile
FORK	Oversize cromoly butted
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano cartridge CT91; 68 x 116 shell/axle
CRANKS	Shimano Altus; 24/34/42
PEDALS	Resin
FRONT DERAILLEUR	Shimano Altus CT92; top swing; top pull; plate style; 31.8mm clamp
REAR DERAILLEUR	Shimano Alivio
SHIFTER	Gripshift MRX 170
CASSETTE	Shimano HG50; 7-speed; 11–28
CHAIN	Sachs PC10; 104 length

FRONT HUB	Alloy sealed Quick Release; 36 hole
REAR HUB	Shimano RH40; 36 hole; 135mm O.L.D.
SPOKES	15G stainless steel; 266mm front; 264/265mm rear
FRONT RIM	Weinmann 519; 36 hole; Schraeder valve drilling
REAR RIM	Weinmann 519; 36 hole; Schraeder valve drilling
FRONT TIRE	WTB Primal Raptor; 47/54
REAR TIRE	WTB Primal Raptor; 47/52
FRONT BRAKE	Direct pull
REAR BRAKE	Direct pull
LEVERS	Direct pull; alloy/alloy; 2 finger
HANDLEBAR	ATB steel; 580mm
STEM	ATB steel; with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Dual density; Serfas logo
BAR END	Alloy short

SADDLE	Fisher 'supersoft' foam
SEATPOST	Aluminum alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Quick Release; 47mm
ANYTHING ELSE?	2 waterbottle bosses Rack mounts

	XS	SM	MD	LG	XL	MD-L
PART NUMBER						
VIDEO BLUE	0390008	0390108	0390208	0390308	0390408	0393208
BLOODSHOT RED	0390018	0390118	0390218	0390318	0390418	0393218
STEERER LENGTH MM	123	143	163	183	203	163
CRANK LENGTH MM	170	170	170	170	170	170
HANDLEBAR WIDTH MM	580	580	580	580	580	580
STEM LENGTH MM	90	105	120	135	135	90
STEM ANGLE DEGREES	24	24	24	24	24	24
SEATPOST LENGTH MM	300	350	350	350	350	250



GITCHE GUMEE

UPGRADES FROM A HARDWARE STORE BIKE:
BUILT-IN RELATIONSHIP WITH YOUR COOL LOCAL FISHER DEALER
COMES FULLY ASSEMBLED IN MORE THAN ONE SIZE
WEIGHS LESS THAN YOU DO

A cool comfort mountain bike with oversize headset, Serfas dual density grips, dual density saddle. Plush grips and saddle, for comfort where you park your carcass.

SIZES	XS, SM, MD, LG, XL, MD-L
COLOR	Onyx Black; Orange Peel
MAIN TUBES	TIG-welded mains; cromoly seat tube
STAYS	High Tensile
FORK	High Tensile
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano cartridge CT91; 68 x 116 shell/axle
CRANKS	Shimano Altus; 24/34/42;
PEDALS	Resin
FRONT DERAILLEUR	Shimano Altus; top swing; top pull; plate style; 31.8mm clamp
REAR DERAILLEUR	Gripshift ESP 5.0
SHIFTER	Gripshift ESP 500
CASSETTE	Shimano HG50; 7-speed; 11–28
CHAIN	Sachs PC10; 104 length

FRONT HUB	Alloy sealed Quick Release; 36 hole
REAR HUB	Shimano RH40; 36 hole; 135mm O.L.D.
SPOKES	15G stainless steel; 265mm front; 263/264mm rear
FRONT RIM	Weinmann 519; 36 hole; Schraeder valve drilling
REAR RIM	Weinmann 519; 36 hole; Schraeder valve drilling
FRONT TIRE	Knobby style black side and tread; 2.0
REAR TIRE	Knobby style black side and tread; 2.0
FRONT BRAKE	Direct pull
REAR BRAKE	Direct pull
LEVERS	Direct pull; alloy/alloy; 2 finger
HANDLEBAR	ATB steel; 580mm
STEM	ATB steel with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density

SADDLE	Fisher dual density ultra
SEATPOST	Aluminum alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Quick Release; 47mm
ANYTHING ELSE?	2 waterbottle bosses
	Rack mounts

PART NUMBER	XS	SM	MD	LG	XL	MD-L
ONYX BLACK	0290008	0290108	0290208	0290308	0290408	0293208
ORANGE PEEL	0290018	0290118	0290218	0290318	0290418	0293218
STEERER LENGTH MM	XS 125	SM 145	MD 165	LG 185	XL 205	MD-L 165
CRANK LENGTH MM	XS 170	SM 170	MD 170	LG 170	XL 170	MD-L 170
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580	MD-L 600
STEM LENGTH MM	XS 90	SM 105	MD 120	LG 135	XL 135	MD-L 90
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24	MD-L 24
SEATPOST LENGTH MM	XS 300	SM 350	MD 350	LG 350	XL 350	MD-L 250

SPORT UTILITY BIKES:

durable and versatile on- and off-road

We have continued to listen to our dealers and massage these bikes to make them fit better. This year, we have revised the steering geometry to make them really fun to ride, but more comfortable and predictable for all levels of cyclists.

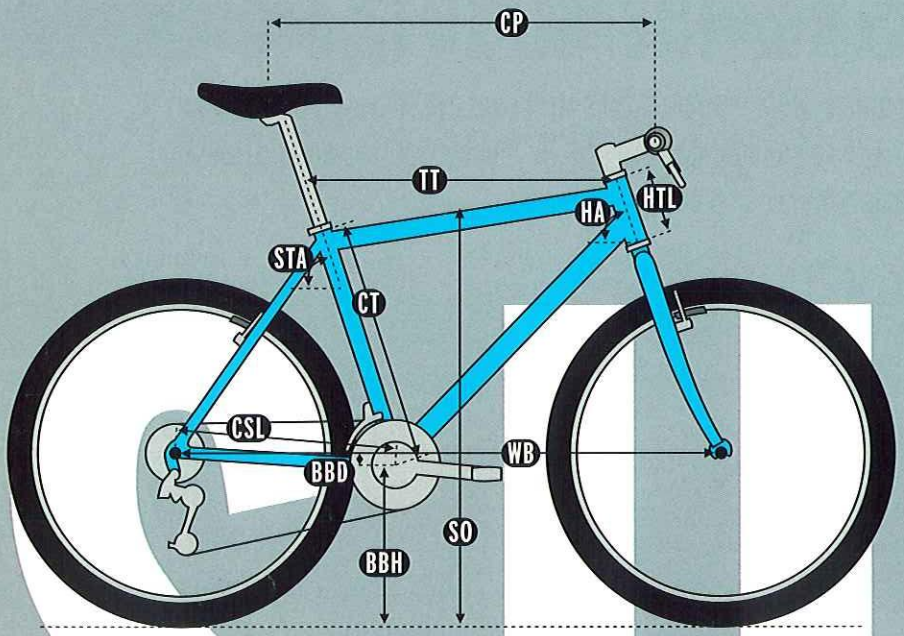
We firmly believe in the SUBs having 26" wheels. They are so much lighter, more durable and versatile for every kind of use than 700c wheels. On the spec side of these bikes, we have definitely aimed at increasing the fit and comfort. Higher sport rise bars and stems, much softer dual density saddles. They work really well.

UTOPIA

	SIZE	XS	SM	MD	LG	XL
SO	STANDOVER (")	24.34	25.98	27.60	28.77	30.34
TT	TOP TUBE (")	21.06	21.80	22.37	22.97	23.53
CP	COCKPIT LENGTH (")	23.39	24.13	25.26	26.40	27.50
minCP	MINIMUM COCKPIT (")	22.31	23.05	23.65	24.78	25.27
maxCP	MAXIMUM COCKPIT (")	24.46	25.21	26.22	27.35	28.43
HTL	HEADTUBE LENGTH (MM)	90.00	90.00	105.00	125.00	145.00
HA	HEAD ANGLE (°)	72.03	72.03	72.53	72.53	72.53
STA	SEATTUBE ANGLE (°)	75.53	75.03	75.03	74.53	74.53
CSL	CHAINSTAY LENGTH (MM)	412.00	412.00	412.00	412.00	412.00
BBH	BOTTOM BRACKET HEIGHT (MM)	283.38	283.38	287.38	287.38	287.38
BBD	BOTTOM BRACKET DROP (MM)	49.62	49.62	45.62	45.62	45.62
WB	WHEELBASE (MM)	1,006.48	1,020.48	1,032.68	1,043.58	1,058.38
CT	CENTER TO TOP (")	13.07	15.57	17.57	19.07	21.07
I	INSEAM RANGE (")	25.34 - 28.84	27.98 - 30.48	29.60 - 32.53	30.77 - 34.69	32.34 - 37.24

ALFRESCO; NIRVANA; ZEBRANO

	SIZE	XS	SM	MD	LG	XL	MD-L
SO	STANDOVER (")	24.96	28.10	29.25	30.25	31.46	23.30
TT	TOP TUBE (")	21.14	21.81	22.36	22.95	23.50	22.36
CP	COCKPIT LENGTH (")	23.42	24.12	25.23	26.36	27.45	24.61
minCP	MINIMUM COCKPIT (")	22.34	23.04	23.61	24.74	25.23	24.41
maxCP	MAXIMUM COCKPIT (")	24.50	25.20	26.19	27.31	23.39	26.18
HTL	HEADTUBE LENGTH (MM)	85.00	85.00	105.00	125.00	145.00	105.00
HA	HEAD ANGLE (°)	71.12	71.62	72.12	72.12	72.12	72.12
STA	SEATTUBE ANGLE (°)	75.12	74.62	74.62	74.12	74.12	74.62
CSL	CHAINSTAY LENGTH (MM)	420.00	420.00	420.00	420.00	420.00	420.00
BBH	BOTTOM BRACKET HEIGHT (MM)	283.43	286.43	290.43	290.43	290.43	290.43
BBD	BOTTOM BRACKET DROP (MM)	49.57	46.57	42.57	42.57	42.57	42.57
WB	WHEELBASE (MM)	1,011.79	1,021.99	1,035.69	1,044.79	1,084.19	1,035.69
CT	CENTER TO TOP (")	13.00	17.10	18.33	19.58	21.08	18.33
I	INSEAM RANGE (")	25.96 - 29.46	30.10 - 32.60	31.25 - 34.19	32.25 - 36.17	33.46 - 38.36	25.30 - 32.16



SUB.

For Fisher factory assembly information see page 56.
Also see the SUB Assembly Instructions on page 58.



UTOPIA

UPGRADES FROM NIRVANA:
LIGHTWEIGHT ALUMINUM FRAME
NEW SHIMANO NEXAVE COMPONENTS
BONTRAGER MAVERICK RIMS
WITH ASYM REAR
ARC ALLOY HANDLEBAR

7005 Aluminum. The luxury SUB. The Range Rover of SUBs.
New Shimano Nexave equipment – derailleurs with reverse pull.

SIZES	XS, SM, MD, LG, XL
COLOR	Onyx Black
MAIN TUBES	TIG-welded 7005 aluminum alloy
STAYS	TIG-welded 7005 aluminum alloy
FORK	Cromoly
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP27; 73 x 113 shell/axle
CRANKS	Sugino XD 300; 26/36/46
PEDALS	Alloy with Fisher toeclip and straps
FRONT DERAILLEUR	Shimano Nexave; top pull; 34.9mm/1⅜" clamp
REAR DERAILLEUR	Shimano Nexave; Rapidrise
SHIFTER	Shimano Nexave; Rapidrise
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC21; 106 length
FRONT HUB	Alloy sealed Quick Release; 32 hole
REAR HUB	Shimano STX; 32 hole; 135mm O.L.D.
SPOKES	DT 15G stainless steel; 266mm front; 264/265mm rear

FRONT RIM	Bontrager Maverick; 32 hole
REAR RIM	Bontrager Maverick ASYM; 32 hole
FRONT TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
REAR TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
FRONT BRAKE	Shimano Nexave V-brakes
REAR BRAKE	Shimano Nexave V-brakes
LEVERS	Shimano Nexave
HANDLEBAR	ARC alloy; 580mm
STEM	ATB cromoly with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density
SADDLE	Fisher 'supersoft' foam
SEATPOST	Polygon PM900 suspension seatpost; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35.0 clamp diameter
ANYTHING ELSE?	2 bottle mounts Rack mounts

PART NUMBER	XS 4020008	SM 4020108	MD 4020208	LG 4020308	XL 4020408
STEERER LENGTH mm	XS 127	SM 127	MD 142	LG 162	XL 182
CRANK LENGTH mm	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH mm	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH mm	XS 90	SM 90	MD 105	LG 120	XL 135
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24
SEATPOST LENGTH mm	XS 350	SM 350	MD 350	LG 350	XL 350



ALFRESCO

Dual density saddle and grips, and all of that good stuff.
Simply elegant and efficient. (Spelt: Ee-fish-int.)

GROOVY SPEC:
CROMOLY SUB FRAME
NEXUS INTERNAL 7-SPEED DRIVETRAIN
HUB ROLLER REAR BRAKE
SUSPENSION SEATPOST

SIZES	SM, MD, LG, XL, MD-L
COLOR	Red Earth
MAIN TUBES	TIG-welded full cromoly
STAYS	Cromoly
FORK	Cromoly
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano Altus cartridge; 73 x 121 shell/axle
CRANKS	Sugino single ring for Nexus 34T
PEDALS	Dual density resin
SHIFTER	Shimano Nexus
CHAIN	Sachs; 104 length
FRONT HUB	Alloy sealed Quick Release; 36 hole
REAR HUB	Shimano Nexus 16 tooth; 36 hole; 35mm O.L.D.
SPOKES	DT 15G stainless steel; 266mm front; 269/270mm rear

FRONT RIM	Weinmann 519; 36 hole
REAR RIM	Weinmann 519; 36 hole
FRONT TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
REAR TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
FRONT BRAKE	Shimano Altus
REAR BRAKE	Shimano internal roller
LEVERS	Alloy/Alloy; 2 finger
HANDLEBAR	ARC alloy; 580mm
STEM	ATB steel with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Shimano Nexus
SADDLE	Fisher dual density
SEATPOST	Polygon PM900 suspension seatpost; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release; 35mm clamp diameter
ANYTHING ELSE?	Dark smoke chainguard

PART NUMBER	SM 0400108	MD 0400208	LG 0400308	XL 0400408	MD-L 403208
STEERER LENGTH MM	SM 145	MD 165	LG 185	XL 205	MD-L 165
CRANK LENGTH MM	SM 170	MD 175	LG 175	XL 175	MD-L 170
HANDLEBAR WIDTH MM	SM 580	MD 580	LG 580	XL 580	MD-L 580
STEM LENGTH MM	SM 90	MD 105	LG 120	XL 135	MD-L 90
STEM ANGLE DEGREES	SM 24	MD 24	LG 24	XL 24	MD-L 24
SEATPOST LENGTH MM	SM 350	MD 350	LG 350	XL 350	MD-L 250



NIRVANA

UPGRADES FROM ZEBRANO:
DOUBLE BUTTED CROMOLY FRAME
HIGHER 'TOWN' GEARING
DIRECT PULL 'V-BRAKE' STYLE BRAKES
DUAL DENSITY SADDLE
SUSPENSION SEATPOST

Comfortable double-butted cromoly frame. New dual-density saddle perched atop a suspension seatpost, which evens out the bumps in your ride. Mountain bike tough, but oh so smooth. Smooth as buttah. The Red Velvet Rig.

SIZES	XS, SM, MD, LG, XL
COLOR	Bright Green
MAIN TUBES	TIG-welded butted cromoly mains
STAYS	Cromoly
FORK	Cromoly
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano LP27; 73 x 113 shell/axle
CRANKS	Sugino XD 300; 26/36/46
PEDALS	Dual density resin
FRONT DERAILLEUR	Shimano FC500; top pull; 31.8mm/1¼" clamp
REAR DERAILLEUR	Shimano Alivio GS
SHIFTER	Gripshift SRT 4.0
CASSETTE	Shimano IG50; 7-speed; 11–30
CHAIN	Sachs PC21; 106 length
FRONT HUB	Alloy sealed Quick Release; 32 hole
REAR HUB	Shimano Acera; 32 hole; 135mm O.L.D.
SPOKES	15G stainless steel; 268mm front; 266/267mm rear

FRONT RIM	Weinmann 519; 32 hole; Schraeder valve drilling
REAR RIM	Weinmann 519; 32 hole; Schraeder valve drilling
FRONT TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
REAR TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
FRONT BRAKE	Direct pull
REAR BRAKE	Direct pull
LEVERS	Direct pull; alloy/alloy; 2 finger
HANDLEBAR	ATB steel; 580mm; silver
STEM	ATB steel with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density
SADDLE	Fisher dual density
SEATPOST	Polygon PM900 suspension seatpost; 27.2mm diameter
SEAT BINDER	Quick Release; 47mm clamp diameter
ANYTHING ELSE?	2 bottle mounts Rack mounts

PART NUMBER	XS 0130008	SM 0130108	MD 0130208	LG 0130308	XL 0130408
STEERER LENGTH MM	XS 125	SM 145	MD 165	LG 185	XL 205
CRANK LENGTH MM	XS 170	SM 175	MD 175	LG 175	XL 175
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580
STEM LENGTH MM	XS 90	SM 90	MD 105	LG 120	XL 135
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24
SEATPOST LENGTH MM	XS 350	SM 350	MD 350	LG 350	XL 350



ZEBRANO

A mucho comfortable SUB (Sport Utility Bicycle) with a dual density saddle, dual density Serfas grips, cool-looking 25° stem and 30mm rise bar.

GROOVY SPEC:
CROMOLY FORK
CROMOLY MAIN FRAME
GRIPSHIFT/SHIMANO DRIVETRAIN
26" WHEELS

SPORT UTILITY BIKES

SIZES	XS, SM, MD, LG, XL, MD-L
COLOR	Sapphire Blue
MAIN TUBES	TIG-welded cromoly mains
STAYS	High Tensile
FORK	Cromoly
HEADSET	Oversize threaded; double sealed; 35mm stack; 25.4/34.0/30.0
BOTTOM BRACKET	Shimano Altus Cartridge; 68 x 118 shell/axle
CRANKS	Shimano Altus; 24/34/42
PEDALS	Dual density resin
FRONT DERAILLEUR	Shimano Altus; top pull; 31.8mm/1¼" clamp
REAR DERAILLEUR	Shimano Acera
SHIFTER	Gripshift MRX 170
CASSETTE	Shimano HG50; 7-speed; 11–30
CHAIN	Sachs PC10; 104 length
FRONT HUB	Alloy sealed Quick Release; 36 hole
REAR HUB	Shimano RH40; 36 hole; 135mm O.L.D.
SPOKES	15G stainless steel

FRONT RIM	Weinmann 519; 36 hole; Schraeder valve drilling
REAR RIM	Weinmann 519; 36 hole; Schraeder valve drilling
FRONT TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
REAR TIRE	Tioga City Slicker; 26 x 1.5; 60 tpi
FRONT BRAKE	Shimano Altus CT92
REAR BRAKE	Shimano Altus CT92
LEVERS	Alloy/Alloy; 2 finger
HANDLEBAR	30mm rise steel
STEM	ATB steel with Quick Change; 25.4mm clamp diameter; 25.4mm insertion
GRIP	Serfas dual density
SADDLE	Fisher 'supersoft' foam
SEATPOST	Alloy micro-adjust; 27.2mm diameter
SEAT BINDER	Alloy with integral Quick Release
ANYTHING ELSE?	2 bottle mounts Rack mounts

PART NUMBER	XS 0400008	SM 0400108	MD 0400208	LG 0400308	XL 0400408	MD-L 409208
STEERER LENGTH MM	XS 125	SM 145	MD 165	LG 185	XL 205	MD-L 165
CRANK LENGTH MM	XS 170	SM 170	MD 170	LG 170	XL 170	MD-L 170
HANDLEBAR WIDTH MM	XS 580	SM 580	MD 580	LG 580	XL 580	MD-L 580
STEM LENGTH MM	XS 90	SM 90	MD 105	LG 120	XL 135	MD-L 90
STEM ANGLE DEGREES	XS 24	SM 24	MD 24	LG 24	XL 24	MD-L 24
SEATPOST LENGTH MM	XS 300	SM 350	MD 350	LG 350	XL 350	MD-L 250



MT JAM

Have shock, will travel. Chrome-plated and tough.

SIZES	11.5" frame; 24" wheels
COLOR	Chrome
MAIN TUBES	TIG-welded
STAYS	High Tensile steel
FORK	RST 261 coil spring/elastomer; 50mm travel
HEADSET	Steel sealed; 22.2/30.0/27.0
BOTTOM BRACKET	YST 613
CRANKS	SR XR17; 24/34/42
PEDALS	Resin; steel axle
FRONT DERAILLEUR	Shimano CT92; Down pull; 28.6mm/1⅛" clamp
REAR DERAILLEUR	Shimano Tourney
SHIFTER	Gripshift MRX 170
CASSETTE	Shimano HG60; 6-speed; 14–28
CHAIN	KMC UG50; 100 length
FRONT HUB	Nutted axle; 32 hole
REAR HUB	Sealed nutted axle; 32 hole; 135mm O.L.D.
SPOKES	15G plated; 241 front; 239/240 rear

FRONT RIM	Weinmann 519 alloy; 32 hole; Schraeder valve drilling
REAR RIM	Weinmann 519 alloy; 32 hole; Schraeder valve drilling
FRONT TIRE	Blackwall knobby; 24 x 1.95
REAR TIRE	Blackwall knobby; 24 x 1.95
FRONT BRAKE	Direct pull
REAR BRAKE	Direct pull
LEVERS	Alloy direct pull
HANDLEBAR	ATB steel
STEM	ATB steel; 25.4mm clamp diameter; 22.2mm insertion
GRIP	Gripshift kraton
BAR END	Cromoly
SADDLE	Fisher 'supersoft' foam
SEATPOST	ATB steel short reach; high rise; 26.6mm diameter
SEAT BINDER	Cromoly M6 x 23.5 (boys)
ANYTHING ELSE?	1 waterbottle boss

PART NUMBER	11.5" 0310608
STEERER LENGTH MM	11.5" 162
CRANK LENGTH MM	11.5" 165
HANDLEBAR WIDTH MM	11.5" 540
STEM LENGTH MM	11.5" 80
STEM ANGLE DEGREES	11.5" 40
SEATPOST LENGTH MM	11.5" 300



TYRO

56

KID'S

Compact frame. The real Fisher-proportioned mountain bike geometry.
A shorter cockpit for '98. You asked for it, we did it.

SIZES	11.5" frame; 24" wheel
COLOR	Red (boys); Light Purple (girls)
MAIN TUBES	TIG-welded
STAYS	High Tensile
FORK	High Tensile
HEADSET	Steel sealed; 22.2/30.0/27.0
BOTTOM BRACKET	YST 613
CRANKS	SR XR17; 24/34/42 riveted
PEDALS	Resin; steel axle
FRONT DERAILLEUR	Shimano Acera-X; Down pull; 28.6mm/1⅛" clamp
REAR DERAILLEUR	Shimano Tourney
SHIFTER	Gripshift MRX 170
CASSETTE	SRHG60; 6-speed; 14–28
CHAIN	KMC UG50; 100 length
FRONT HUB	Nutted axle; 32 hole
REAR HUB	Sealed nutted axle; 32 hole; 135mm O.L.D.
SPOKES	15G plated; 241mm front; 239/240mm rear

FRONT RIM	Weinmann 519 alloy; Schraeder valve drilling
REAR RIM	Weinmann 519 alloy; Schraeder valve drilling
FRONT TIRE	Blackwall knobby; 24 x 1.95
REAR TIRE	Blackwall knobby; 24 x 1.95
FRONT BRAKE	Direct pull
REAR BRAKE	Direct pull
LEVERS	Direct pull alloy
HANDLEBAR	ATB steel
STEM	ATB steel; 80mm; 25.4mm clamp diameter; 22.2mm insertion
GRIP	Gripshift Kraton
SADDLE	Fisher 'supersoft' foam
SEATPOST	Steel pin; 26.6mm diameter
SEAT BINDER	Cromoly; M6 x 23.5 (boys); M8 x 27 (girls)
ANYTHING ELSE?	1 waterbottle boss

	BOYS	GIRLS
PART NUMBER	0300608	0300708
STEERER LENGTH MM	162	162
CRANK LENGTH MM	165	165
HANDLEBAR WIDTH MM	540	540
STEM LENGTH MM	80	80
STEM ANGLE DEGREES	40	40
SEATPOST LENGTH MM	300	300



SHORTCUT

Twenty-inch wheels, six speeds, and the chain will stay put.
Alloy rims: It has big bike brakes, so it has big bike rims.

SIZES	11.5" frame; 20" wheel
COLOR	Blue (boys); Teal (girls)
MAIN TUBES	TIG-welded High Tensile
STAYS	TIG-welded High Tensile
FORK	High Tensile
HEADSET	Steel; 22.2/30.0/27.0
BOTTOM BRACKET	VP-B31W; 68 x 30.5/52/30.5 shell/axle
CRANKS	One-piece style; 40 tooth
PEDALS	Resin; steel axle
REAR DERAILLEUR	Shimano Tourney TY22
SHIFTER	Gripshift MRX 170
CASSETTE	SRHG60; 6-speed; 14–28
CHAIN	KMC UG50; 100 length
FRONT HUB	Nutted axle
REAR HUB	Sealed nutted axle; 125mm O.L.D.
SPOKES	15G plated; 188mm front; 185/187mm rear

FRONT RIM	Weinmann 519 alloy; Schraeder valve drilling
REAR RIM	Weinmann 519 alloy; Schraeder valve drilling
FRONT TIRE	Blackwall knobby (boys); Whitewall knobby (girls)
REAR TIRE	Blackwall knobby (boys); Whitewall knobby (girls)
FRONT BRAKE	Changstar cantilever
REAR BRAKE	Changstar cantilever
LEVERS	Alloy short reach
HANDLEBAR	50mm rise steel; downhill style
STEM	ATB steel; 80mm; 25.4mm clamp diameter; 22.2mm insertion
GRIP	Gripshift kraton
SADDLE	Fisher 'supersoft' foam
SEATPOST	Steel pin; 26.6mm
SEAT BINDER	Alloy 8 x 25
ANYTHING ELSE?	1 waterbottle boss; double Chainguard

	BOYS	GIRLS
PART NUMBER	0380008	0380118
STEERER LENGTH mm	133	143
CRANK LENGTH mm	140	140
HANDLEBAR WIDTH mm	520	520
STEM LENGTH mm	80	80
STEM ANGLE DEGREES	40	40
SEATPOST LENGTH mm	300	250



MINNOSAURUS

Timeless dinosaur graphics on a single-speed mountain bike for kids.

SIZES	11.5" frame; 20" wheel
COLOR	Red (boys); Pink (girls)
MAIN TUBES	TIG-welded High Tensile
STAYS	TIG-welded High Tensile
FORK	High Tensile
HEADSET	Steel; 22.2/30.0/27.0
BOTTOM BRACKET	One-piece
CRANKS	One-piece style; 40 tooth
PEDALS	Resin; steel axle
CHAIN	KMC 410; 100 length; ⅛" width
FRONT HUB	Nutted axle
REAR HUB	Sealed nutted axle; 110mm O.L.D.
SPOKES	14G plated; 189mm front; 185mm rear
FRONT RIM	Chrome steel; Schraeder valve drilling
REAR RIM	Chrome steel; Schraeder valve drilling
FRONT TIRE	Black dinosaur tread (boys); White dinosaur tread (girls)
REAR TIRE	Black dinosaur tread (boys); White dinosaur tread (girls)
REAR BRAKE	Coaster
HANDLEBAR	50mm rise steel downhill style
STEM	ATB steel; 80mm; 25.4mm clamp diameter; 22.2mm insertion
GRIP	Kraton
SADDLE	Fisher 'supersoft' foam; Dinosaur print
SEATPOST	Steel pin; 25.6mm
SEAT BINDER	Cromoly 8 x 25

PART NUMBER	BOYS 0360008	GIRLS 0360118
STEERER LENGTH MM	BOYS 129	GIRLS 139
CRANK LENGTH MM	BOYS 140	GIRLS 140
HANDLEBAR WIDTH MM	BOYS 520	GIRLS 520
STEM LENGTH MM	BOYS 80	GIRLS 80
STEM ANGLE DEGREES	BOYS 40	GIRLS 40
SEATPOST LENGTH MM	BOYS 300	GIRLS 250



MUD PUPPY

For the youngest Fisher rider. Cool things come in little packages.

SIZES	Compact frame; 16" wheel
COLOR	Blue (boys); Pink (girls)
MAIN TUBES	TIG-welded
STAYS	TIG-welded
FORK	High Tensile
HEADSET	Steel loose ball; 22.2/30.0/27.0
BOTTOM BRACKET	One-piece
CRANKS	One-piece; 32 tooth
PEDALS	Resin
CHAIN	KMC 410; ⅛" width
FRONT HUB	Nutted axle
REAR HUB	Sealed nutted axle; 110mm O.L.D.
SPOKES	14G plated

FRONT RIM	Chrome steel; Schraeder valve drilling
REAR RIM	Chrome steel; Schraeder valve drilling
FRONT TIRE	Knobby
REAR TIRE	Knobby
REAR BRAKE	Coaster
HANDLEBAR	Steel BMX; 130mm rise
STEM	25.4mm clamp diameter; 22.2mm insertion
GRIP	Kraton mushroom style
SADDLE	Fisher 'supersoft' foam; lizard print
SEATPOST	Steel pin
SEAT BINDER	Bolt
ANYTHING ELSE?	Three-piece pad set
	Color-matched training wheels
	Smoke chainguard

	BOYS	GIRLS
PART NUMBER	0350008	0350118
STEERER LENGTH MM	139	139
CRANK LENGTH MM	144	144
HANDLEBAR WIDTH MM	450	450
STEM LENGTH MM	???	???
STEM ANGLE DEGREES	???	???
SEATPOST LENGTH MM	220	250

Fisher Factory Assembly Standards

Fisher bikes are manufactured and assembled with a very high level of attention to detail. Many considerations are given to every aspect of the bike, from value to the consumer to assembly ease for the dealer. Although most of the questions we run into have straight forward, common sense answers, they may not all be immediately clear. Here we detail some of the assembly considerations of Fisher bikes from the factory.

Wheel Specifications

We use computer controlled wheel lacing machines which assemble a wheel off the programmed information for spoke length, hub characteristics, and rim dimensions. After lacing, each wheel is stress relieved on a pneumatic press, and then goes through one of our 7 Holland Mechanics wheel truing robots. These machines use a computer program and light sensors to true, dish, and tension the wheels. The machines can be programmed to set their limits of accuracy, which is determined by the number of times the robot goes around the wheel. We use 3 rounds per wheel, about the highest degree of accuracy in the industry. When the wheel exits the robot, it gets stress relieved one more time, and then hand checked for true on a vellum. A vellum is a hypersensitive truing stand, using dial indicators to show run out of both true and round. Our standard for each is .7 mm total runout. In addition, we also randomly check wheels for overall tension with hand tensionometers which are re-calibrated each day for accuracy.

Parts Installation Specifications

On the assembly line, most of the parts are installed using torque calibrated air tools. This ensures that critical parts are installed correctly. The torque specs we follow are listed on page 94, although there are a few exceptions which we detail here.

Front derailleur

To prevent damage of the paint on the seat tube, front derailleurs are installed at about 20 lb/in, much below their correct torque. After final adjustment, they should be tightened to Shimano's spec.

Headset nut

Since stem insertion will effect the headset adjustment, we do not set the bearing adjustment of the headset, nor do we tighten the headset locknut past 10 lb/in.

Handlebar clamp bolt

The position of the handlebars varies according to preference, so these bolts are only tightened enough to hold them during shipping. Although we intend to have all other fasteners correctly tightened, bikes get a variety of treatment after leaving the factory which can effect the work we've done. Bolts can be shaken loose and wheels can be knocked out of true. For this reason, we expect that your assembly procedures will include checking to ensure that ALL fasteners on the bike are tight. We also expect our dealers to assemble and adjust Fisher bikes to a very high standard. After all, we both want everyone riding a Fisher to be safe and happy with their new bike! In addition to going over the bolts of a bike, making the necessary adjustments, and checking the wheels, there are additional parts to assemble on every bike.

Reflectors

Check that front and rear reflectors are oriented so that their reflective surfaces are perpendicular to the ground, and that all reflective surfaces are clean and in good condition. The front reflector should point directly forward, and the rear should point directly back. The rear reflector should be at least three inches below the top of the seat.

	EM/FA SIZE
SO	STANDOVER
TT	EFFECTIVE TOP TUBE
CP	COCKPIT
MIN CP	MINIMUM COCKPIT
MAX CP	MAXIMUM COCKPIT
SL	STEM LENGTH
CL	CRANK LENGTH
HTL	HEADTUBE LENGTH
HA	HEAD ANGLE
STA	SEATTUBE ANGLE
CSL	CHAINSTAY LENGTH
BBH	BOTTOM BRACKET HEIGHT
BBD	BOTTOM BRACKET DROP
WB	WHEELBASE
CT	CENTER TO TOP
I	INSEAM RANGE

Exact Muscle / Frame Association

The vertical distance from the ground to the point on the top tube where you straddle the bike.
You need plenty of clearance to be able to control the bike in all terrain.

The horizontal measure from the center of the headset to the center of the seatpost.
The most important measurement when buying a bike, because it cannot be changed.

The horizontal measure from the center of the handlebar to the center of the seatpost.
This is where you spend your time. (The next two measurements show how it can be adjusted.)

The shortest the cockpit can be made by changing the stem to the shortest one available.

The longest the cockpit can be made by changing the stem to one which is 30mm longer than original – the maximum that we recommend to retain optimum handling.

The original stem: measured from the center of the steerer tube to the center of the handlebar.

The distance from the center of the bottom bracket to the center of the pedal axle.
A rider with long legs can benefit from longer cranks.

The distance between the upper and lower headset.
Effects how high your handlebar is relative to your saddle.

The angle of headtube to the ground.
Tailored to optimize steering precision on each frame size.

The angle of seattube to the ground.
Tailored to optimize power transmission on each frame size.

The distance from the center of the bottom bracket to the center on the rear axle.

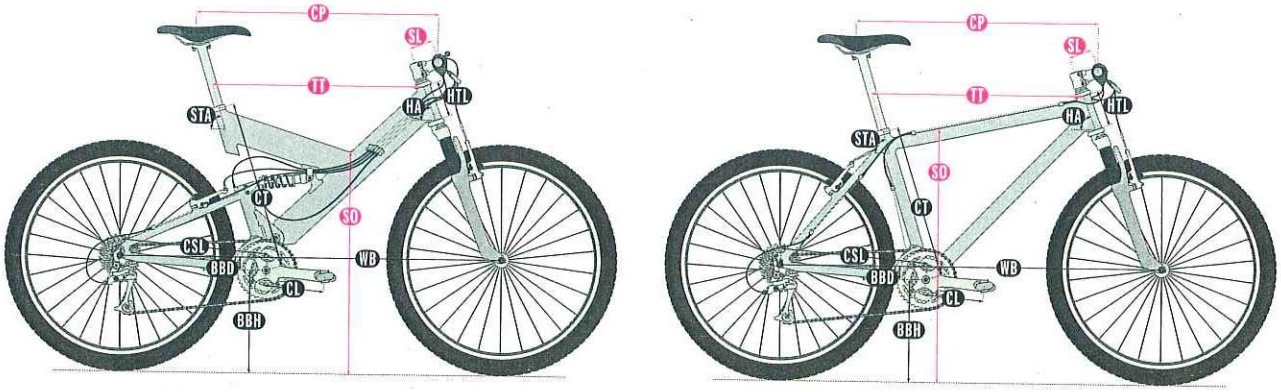
The vertical distance from the center of the bottom bracket to the ground.
Expresses clearance of the frame over obstacles.

The vertical distance the bottom bracket is below an imaginary horizontal line drawn through the axles.
The greater the bottom bracket drop, the lower the rider's center of gravity.

The distance between the axles.
Tailored to optimize weight distribution on each frame size.

The distance from the center of the bottom bracket to the top of the seat tube.
Because some people still feel they need to know.

If your inseam is within this range, this size of bike should fit you.



GENESIS GEOMETRY

EM/FA SIZE		GENESIS JOSHUAS SM	GENESIS JOSHUAS MD	GENESIS JOSHUAS LG	GENESIS LEVEL BETTYS SM	GENESIS LEVEL BETTYS MD	GENESIS LEVEL BETTYS LG	GENESIS ALUMINUM HARDTAILS XS	GENESIS ALUMINUM HARDTAILS SM	GENESIS ALUMINUM HARDTAILS MD	GENESIS ALUMINUM HARDTAILS LG	GENESIS ALUMINUM HARDTAILS XL	EM/FA SIZE
STANDOVER	(")	25.67	25.67	25.67	25.98	25.98	25.98	25.91	27.57	29.17	30.20	31.88	SO (")
EFFECTIVE TOP TUBE	(")	22.71	23.90	25.51	22.71	23.90	25.51	21.70	22.90	23.94	24.72	25.47	TT (")
COCKPIT LENGTH	(")	24.05	26.43	28.62	24.00	25.80	27.99	23.03	24.84	26.49	27.85	28.60	CP (")
MINIMUM COCKPIT	(")	24.05	25.27	27.46	24.00	25.22	27.41	23.03	24.26	25.32	26.68	27.15	MIN CP (")
MAXIMUM COCKPIT	(")	25.22	27.15	29.29	25.17	26.57	28.71	24.20	26.00	27.21	28.51	29.26	MAX CP (")
STEM LENGTH	(MM)	60.00	90.00	105.00	60.00	75.00	90.00	60.00	75.00	90.00	105.00	105.00	SL (MM)
CRANK LENGTH	(MM)	170.00	175.00	175.00*	170.00	175.00	175.00	170.00	175.00	175.00	175.00	175.00*	CL (MM)
HEADTUBE LENGTH	(MM)	115.00	115.00	125.00	115.00	115.00	125.00	90.00	90.00	105.00	125.00	145.00	HTL (MM)
HEAD ANGLE	(°)	70.50	71.00	71.00	69.50	70.00	70.00	70.34	70.84	71.34	71.34	71.34	HA (°)
SEATTUBE ANGLE	(°)	74.00	73.50	73.00	73.00	72.50	72.00	74.34	73.84	73.84	73.34	72.84	STA (°)
CHAINSTAY LENGTH	(MM)	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	CSL (MM)
BOTTOM BRACKET HEIGHT	(MM)	305.90	305.90	305.90	307.00	307.00	307.00	288.14	293.24	293.24	293.24	293.24	BBH (MM)
BOTTOM BRACKET DROP	(MM)	27.10	27.10	27.10	26.00	26.00	26.00	44.86	39.76	39.76	39.76	39.76	BBD (MM)
WHEELBASE	(MM)	1,058.00	1,078.00	1,115.00	1,062.00	1,084.00	1,121.00	1,031.48	1,060.88	1,075.88	1,091.38	1,107.88	WB (MM)
CENTER TO TOP	(")	16.00	18.00	21.00	16.00	18.00	21.00	13.07	15.57	17.57	19.07	21.07	CT (")
INSEAM RANGE	(")	27.67 - 33.32	27.67 - 35.33	27.67 - 37.69	27.98 - 33.63	27.98 - 35.64	27.98 - 38.00	26.91 - 30.41	29.57 - 32.07	31.17 - 34.10	32.20 - 36.12	33.88 - 38.78	I (")

* Cranks on LG Joshua ZØ and XL Supercaliber are 177.50mm long.

CLASSIC GEOMETRY

ALUMINUM HARDTAIL: KAITAI — ALUMINUM RIGID: TASSAJARA

EM/FA SIZE		XS	SM	MD	LG	XL	XS	SM	MD	LG	XL	EM/FA SIZE
STANDOVER	SO (")	24.98	26.62	28.24	29.41	30.98	24.74	26.38	28.00	29.18	30.74	SO (")
EFFECTIVE TOP TUBE	TT (")	21.06	21.80	22.37	22.97	23.53	21.06	21.80	22.37	22.97	23.53	TT (")
COCKPIT LENGTH	CP (")	23.51	24.82	25.99	27.16	27.71	23.33	24.62	25.75	26.89	27.45	CP (")
MINIMUM COCKPIT	MIN CP (")	22.37	23.11	23.71	24.88	25.21	22.26	23.00	23.60	24.73	25.22	MIN CP (")
MAXIMUM COCKPIT	MAX CP (")	24.65	25.97	26.69	27.81	28.37	24.41	25.70	26.70	27.82	28.38	MAX CP (")
STEM LENGTH	SL (MM)	90.00	105.00	120.00	135.00	135.00	90.00	105.00	120.00	135.00	135.00	SL (MM)
CRANK LENGTH	CL (MM)	170.00	175.00	175.00	175.00	175.00	170.00	175.00	175.00	175.00	175.00	CL (MM)
HEADTUBE LENGTH	HTL (MM)	90.00	90.00	105.00	125.00	145.00	90.00	90.00	105.00	125.00	145.00	HTL (MM)
HEAD ANGLE	HA (°)	70.79	70.79	71.29	71.29	71.29	71.00	71.00	71.50	71.50	71.50	HA (°)
SEATTUBE ANGLE	STA (°)	74.29	73.79	73.79	73.29	73.29	74.50	74.00	74.00	73.50	73.50	STA (°)
CHAINSTAY LENGTH	CSL (MM)	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	412.00	CSL (MM)
BOTTOM BRACKET HEIGHT	BBH (MM)	292.52	292.52	296.52	296.52	296.52	291.00	291.00	295.00	295.00	295.00	BBH (MM)
BOTTOM BRACKET DROP	BBD (MM)	40.48	40.48	36.48	36.48	36.48	42.00	42.00	38.00	38.00	38.00	BBD (MM)
WHEELBASE	WB (MM)	1,014.30	1,028.30	1,040.50	1,051.40	1,066.20	1,013.00	1,027.00	1,039.20	1,050.10	1,064.90	WB (MM)
CENTER TO TOP	CT (")	13.07	15.57	17.57	19.07	21.07	13.07	15.57	17.57	19.07	21.07	CT (")
INSEAM RANGE	I (")	25.98 → 29.48	28.62 → 31.12	30.24 → 33.17	31.41 → 35.33	32.98 → 37.88	25.74 → 29.24	28.38 → 30.88	30.00 → 32.94	31.18 → 35.09	32.74 → 37.64	I (")

* Cranks on LG Joshua ZØ and XL Supercaliber are 177.50mm long.

STEEL HARDTAILS: HOO KOO E KOO: AQUILA — STEEL RIGID: MARLIN: WAHOO: GITCHE GUMEE

EM/FA SIZE		XS	SM	MD	LG	XL	XS	SM	MD	LG	XL	MD-L	EM/FA SIZE
STANDOVER	SO (")	25.83	28.74	29.86	30.86	31.85	25.20	28.35	29.50	30.50	31.70	23.55	SO (")
EFFECTIVE TOP TUBE	TT (")	21.14	21.81	22.36	22.95	23.50	21.14	21.81	22.36	22.95	23.50	22.36	TT (")
COCKPIT LENGTH	CP (")	23.64	24.90	26.06	27.23	27.78	23.39	24.63	25.74	26.87	27.42	24.58	CP (")
MINIMUM COCKPIT	MIN CP (")	22.48	23.16	23.73	24.90	25.18	22.31	23.01	23.58	24.71	25.20	24.38	MIN CP (")
MAXIMUM COCKPIT	MAX CP (")	24.81	26.06	26.67	27.78	28.33	24.47	25.71	26.69	27.80	28.36	26.15	MAX CP (")
STEM LENGTH	SL (MM)	90.00	105.00	120.00	135.00	135.00	90.00	105.00	120.00	135.00	135.00	90.00	SL (MM)
CRANK LENGTH	CL (MM)	170.00	175.00	175.00	175.00	175.00	170.00	170.00	170.00*	170.00*	170.00*	170.00	CL (MM)
HEADTUBE LENGTH	HTL (MM)	85.00	85.00	105.00	125.00	145.00	85.00	85.00	105.00	125.00	145.00	105.00	HTL (MM)
HEAD ANGLE	HA (°)	70.48	70.59	71.09	71.09	71.09	70.50	71.00	71.50	71.50	71.27	71.50	HA (°)
SEATTUBE ANGLE	STA (°)	73.98	73.59	73.59	73.09	73.09	74.50	74.00	74.00	73.50	73.50	74.00	STA (°)
CHAINSTAY LENGTH	CSL (MM)	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	CSL (MM)
BOTTOM BRACKET HEIGHT	BBH (MM)	291.81	294.05	298.05	298.05	298.05	288.00	291.00	295.00	295.00	295.00	295.00	BBH (MM)
BOTTOM BRACKET DROP	BBD (MM)	41.19	38.95	34.95	34.95	34.95	45.00	42.00	38.00	38.00	38.00	38.00	BBD (MM)
WHEELBASE	WB (MM)	1,015.66	1,028.51	1,040.31	1,051.31	1,066.01	1,015.70	1,025.90	1,039.60	1,048.70	1,063.40	1,039.60	WB (MM)
CENTER TO TOP	CT (")	13.00	17.37	18.53	19.76	21.24	13.00	17.12	18.33	19.58	21.08	18.33	CT (")
INSEAM RANGE	I (")	26.83 → 30.33	30.74 → 33.24	31.86 → 34.80	32.86 → 36.78	33.85 → 38.76	26.20 → 29.70	30.35 → 32.85	31.50 → 34.43	32.50 → 36.41	33.70 → 38.60	25.55 → 32.41	I (")

* Cranks on MD, LG, and XL Marlin are 175.00mm long.

ALUMINUM SPORT UTILITY BIKE: UTOPIA — STEEL SPORT UTILITY BIKES: NIRVANA: ZEBRANO

EM/FA SIZE		XS	SM	MD	LG	XL	XS	SM	MD	LG	XL	MD-L	EM/FA SIZE
STANDOVER	SO (")	24.34	25.98	27.60	28.77	30.34	24.96	28.10	29.25	30.25	31.46	23.30	SO (")
EFFECTIVE TOP TUBE	TT (")	21.06	21.80	22.37	22.97	23.53	21.14	21.81	22.36	22.95	23.50	22.36	TT (")
COCKPIT LENGTH	CP (")	23.39	24.13	25.26	26.40	27.50	23.42	24.12	25.23	26.36	27.45	24.61	CP (")
MINIMUM COCKPIT	MIN CP (")	22.31	23.05	23.65	24.78	25.27	22.34	23.04	23.61	24.74	25.23	24.41	MIN CP (")
MAXIMUM COCKPIT	MAX CP (")	24.46	25.21	26.22	27.35	28.43	24.50	25.20	26.19	27.31	23.39	26.18	MAX CP (")
STEM LENGTH	SL (MM)	90.00	90.00	105.00	120.00	135.00	90.00	90.00	105.00	120.00	135.00	90.00	SL (MM)
CRANK LENGTH	CL (MM)	170.00	175.00	175.00	175.00	175.00	170.00	175.00*	175.00*	175.00*	175.00*	170.00	CL (MM)
HEADTUBE LENGTH	HTL (MM)	90.00	90.00	105.00	125.00	145.00	85.00	85.00	105.00	125.00	145.00	105.00	HTL (MM)
HEAD ANGLE	HA (°)	72.03	72.03	72.53	72.53	72.53	71.12	71.62	72.12	72.12	72.12	72.12	HA (°)
SEATTUBE ANGLE	STA (°)	75.53	75.03	75.03	74.53	74.53	75.12	74.62	74.62	74.12	74.12	74.62	STA (°)
CHAINSTAY LENGTH	CSL (MM)	412.00	412.00	412.00	412.00	412.00	420.00	420.00	420.00	420.00	420.00	420.00	CSL (MM)
BOTTOM BRACKET HEIGHT	BBH (MM)	283.38	283.38	287.38	287.38	287.38	283.43	286.43	290.43	290.43	290.43	290.43	BBH (MM)
BOTTOM BRACKET DROP	BBD (MM)	49.62	49.62	45.62	45.62	45.62	49.57	46.57	42.57	42.57	42.57	42.57	BBD (MM)
WHEELBASE	WB (MM)	1,006.48	1,020.48	1,032.68	1,043.58	1,058.38	1,011.79	1,021.99	1,035.69	1,044.79	1,084.19	1,035.69	WB (MM)
CENTER TO TOP	CT (")	13.07	15.57	17.57	19.07	21.07	13.00	17.10	18.33	19.58	21.08	18.33	CT (")
INSEAM RANGE	I (")	25.34 → 28.84	27.98 → 30.48	29.60 → 32.53	30.77 → 34.69	32.34 → 37.24	25.96 → 29.46	30.10 → 32.60	31.25 → 34.19	32.25 → 36.17	33.46 → 38.36	25.30 → 32.16	I (")

* Cranks on SM, MD, LG, and XL Zebrano are 170.00mm long.