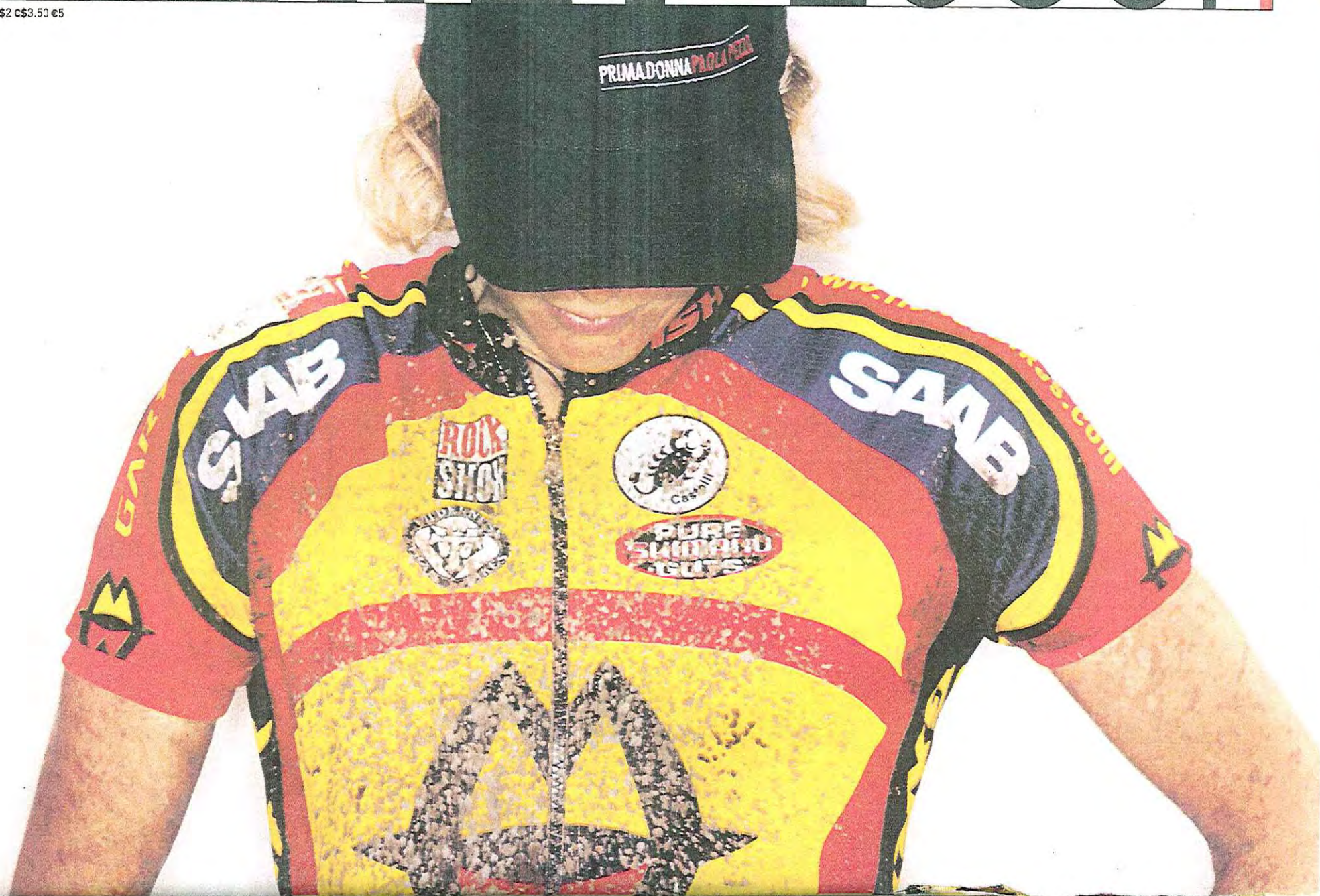


FisHER 2000.7

US\$2 C\$3.50 €5





SUGAR 1

upgrades from SUGAR 2

Top of the line rear derailleur, brakes, crank and rear suspension

frame

6061 T6 double butted aluminum / carbon stays



FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

wheels
suspension
componentry

sizes
colors

Bontrager Race Lite wheelsystem | WTB NanoRaptor tires
Rock Shox SID SL fork (80mm travel) | Rock Shox SID adjustable rear shock (2 1/2" travel)
Shimano XTR SGS rear derailleur | XT front derailleur + Rapidfire 9 speed shifters |
Avid SD 25 Magnesium brakes | Bontrager Race Lite crank | Time ATAC pedals

sizes SM | MD | LG | XL
colors Amarillo Yellow and Team Red

SUGAR2

FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

wheels
suspension
componentry

Bontrager Race wheelsystem | WTB NanoRaptor tires
Manitou Mars fork (80mm travel) | Cane Creek AD-10 rear shock (2 1/2" travel)
Shimano XT SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes |
Bontrager Race crank | Time ATAC pedals

upgrades from SUGAR3

Lighter suspension fork with external rebound and compression damping |
Tuneable rear shock | lighter weight wheelsystem | Time pedals

frame

6061 T6 double butted aluminum



s i z e s
c o l o r s

SM | MD | LG | XL
Bob White





SUGAR 3

FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

upgrades from JOSHUA 4

Lighter, faster Sugar Frame | Lightweight air shock |
Clipless pedals | Smoother drivetrain | Lighter fork

Frame

6061 T6 double butted aluminum



wheels
suspension
componentry

sizes
colors

Bontrager Superstock wheelsystem | WTB NanoRaptor tires
Manitou SX fork (80mm travel) | Cane Creek AD-5 rear shock (2½" travel)
Shimano XT SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters | Avid SD 10 brakes |
Bontrager Race crank | Bontrager RE-1 pedals

SM | MD | LG | XL
Team Red



SUPERCALIBER

HARDTAIL
CROSS COUNTRY
PROFESSIONAL

upgrades from MT 11M

Lighter wheelsystem — less rotating weight | Lighter crank |
Lockout-equipped Manitou fork | Lighter magnesium brakes

Frame

6061 T6 double butted aluminum

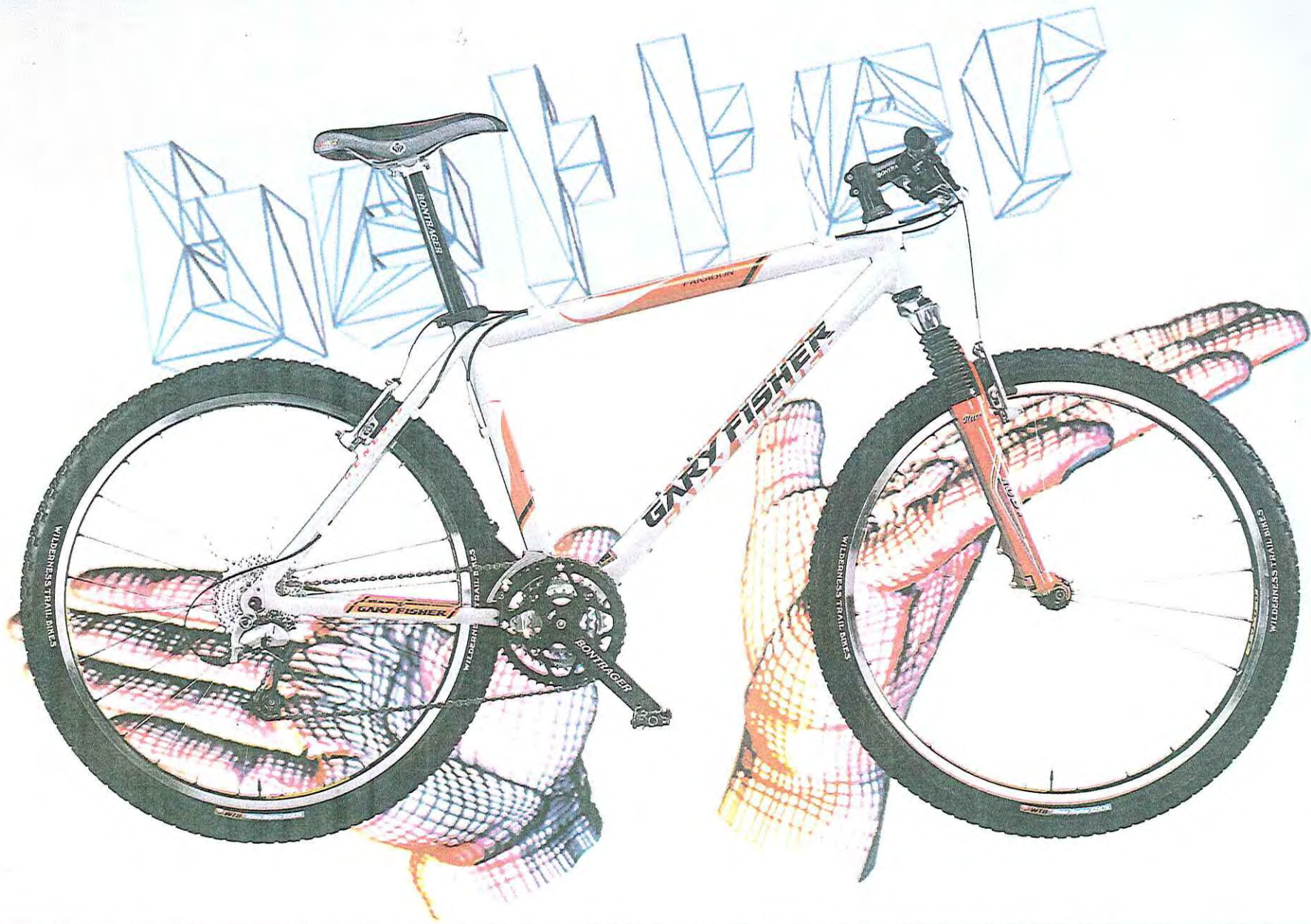


wheels
suspension
componentry

Bontrager Race Lite wheelsystem | WTB NanoRaptor tires
Manitou Mars CL fork with lock out (80mm travel)
Shimano XTR SGS rear derailleur | XT front derailleur + Rapidfire 9 speed shifters |
Avid SD 25 Magnesium brakes | Bontrager Race Lite crank | Time ATAC pedals

sizes
colors

SM | MD | LG | XL
Amarillo Yellow and Team Red



PARAGON

HARDTAIL
CROSS COUNTRY
PROFESSIONAL

wheels
suspension
componentry

Bontrager Race wheelsystem | WTB NanoRaptor tires

RockShox Judy Race fork (80mm travel)

Shimano XT SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes |

Bontrager Race crank | Bontrager RE-1 pedals

size
color

SM | MD | LG | XL

Bob White

upgrades from BIG SUR

Lighter, double butted Professional Genesis Frame | Lighter wheels |
Easy rolling race ready tires | Lighter fork | Lighter crank

Frame

6061 T6 double butted aluminum



MT TAM

H A R D T A I L
C R O S S C O U N T R Y
P R O F E S S I O N N A L

w h e e l s
s u s p e n s i o n
c o m p o n e n t r y

Bontrager Race wheelsystem | WTB NanoRaptor tires

Manitou Mars C fork (80mm travel)

Shimano XTR SGS rear derailleur | XT front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes |

Bontrager Race crank | Time ATAC pedals

s i z e s
c o l o r s

SM | MD | LG | XL

Midnight and Light Blue

upgrades from PARRAGON

Lighter fork with stiff carbon brake arch and TPC Damping system |
Light, ultra smooth XTR rear derailleur | Time pedals

Frame

6061 T6 double butted aluminum



JOSHUA F3

FULL SUSPENSION
LONG TRAVEL
SUSPENSION

wheels
suspension
componentry

Bontrager Superstock wheelsystem | WTB VelociRaptor tires
RockShox Jett Race fork (75mm travel) | RockShox Deluxe adjust rear shock (3 1/2" travel)
Shimano LX SGS rear derailleur + Rapidfire 9 speed shifters | Deore front derailleur |
Linear pull brakes | Icon Obsidian crank

upgrades from JOSHUA F4

Lighter aluminum swingarm | 27 speed drivetrain | Lighter crank |
Lighter fork | On-the-fly™ rear shock lockout | Lighter wheelsystem

frame

6061 T6 butted aluminum



sizes
colors

SM | MD | LG
Team Red and Midnight

The Shuttle is not currently
in orbit

Updates once per minute



This web page has moved.
Browser will automatically go to new address or [click here](#)

JOSHUA F4

FULL SUSPENSION
LONG TRAVEL
SUSPENSION

wheels
suspension
componentry

Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
RockShox Jett fork (65mm travel) | RockShox Deluxe adjust rear shock (3 1/2" travel)
Shimano LX SGS rear derailleur | Acera front derailleur + crank | Alivio Rapidfire 8 speed shifters |
Linear pull brakes

size
color

SM | MD | LG
Midnight

upgrades from a hardtail

Proven bump smoothing, full suspension design reduces fatigue,
increases fun

Frame

6061 T6 butted aluminum / cromoly swing arm



X-CALIBER

upgrades from H00 K00 E K00

Smoother suspension fork | Top of the line rear derailleur | Lighter riser bar |
Lighter disk wheelsystem | Powerful hydraulic disc brakes | Clipless pedals

Frame
6061 T6 aluminum



HARD TAIL
LONG TRAVEL
SUSPENSION

wheels
suspension
componentry

sizes
colors

Bontrager Race Disc wheelsystem | WTB MotoRaptor tires
Marzocchi Z.3 Flylight fork (100mm travel)
Shimano XTR SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters |
Hayes hydraulic disc brakes | Bontrager Race crank + RE-1 pedals

SM | MD | LG | XL
Orangarine





HOO KOO E KOO

upgrades from KAITAI

100 mm travel Rock Shox Judy XC fork | Disc brake stopping power |
Bigger, more aggressive tires

frame
6061 T6 aluminum

HARDTAIL
LONG TRAVEL
SUSPENSION



wheels
suspension
componentry

size
color

Bontrager Superstock rear wheel + Corvair front rim | Disc-specific front hub | WTB MotoRaptor tires
RockShox Judy XC fork (100mm travel)
Shimano LX SGS rear derailleur + Rapidfire 9 speed shifters | Deore front derailleur |
Formula MD-1 mechanic disc front brake | Linear pull rear brake | Icon Obsidian crank
SM | MD | LG | XL
Vibra Red

BIG SUR

GENESIS HARDBAIL
CROSS COUNTRY
COMPETITION

wheels
suspension
componentry

Bontrager Superstock wheelsystem | WTB RacingRaptor tires
Manitou SX fork (80mm travel)
Shimano XT SGS rear derailleur | Deore front derailleur | LX Rapidfire 9 speed shifters |
Avid SD 10 brakes | Bontrager Comp crank + RE-1 pedals

upgrades from KAITAI

Lighter fork with Manitou TPC equipped damping | Clipless pedals |
Smooth, fast XT rear derailleur | Powerful linear pull Avid brakes

frame

6061 T6 aluminum



sizes
colors

SM | MD | LG | XL
Metallic Blue





KAITAI

GENESIS HARDTAIL
CROSS COUNTRY
COMPETITION

wheels
suspension
components

Bontrager Superstock wheelsystem | WTB RacingRaptor tires
RockShox Judy XC fork (80mm travel)
Shimano LX SGS rear derailleur | Deore front derailleur + 9 speed shifters |
Linear pull brakes | Icon Obsidian crank

upgrades from AQUILA

Stronger, lighter 6061 T6 frame | Better riding Genesis Geometry |
Lighter fork | Lighter wheels

Frame
6061 T6 aluminum



sizes
colors

XS | SM | MD | LG | XL
Midnight

AQUILA

HARD TAIL
CROSS COUNTRY
COMPETITION

upgrades from TASSAJARA

27 Speed drivetrain | New Icon Obsidian Crank |
Lighter Rock Shox Jett SL Suspension fork

Frame

7005 aluminum

wheels
suspension
componentry

Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
RockShox Jett SL fork (75mm travel)
Shimano LX SGS rear derailleur | Deore front derailleur + 9 speed shifters |
Linear pull brakes | Icon Obsidian crank

sizes
colors

XS | SM | MD | LG | XL
Metallic Blue | XXX Orange





TASSAJARA

HARDTAIL
CROSS COUNTRY
COMPETITION

wheels
suspension
componentry

Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
Manitou Magnum fork (80mm travel)
Shimano LX SGS rear derailleur | Deore front derailleur + 8 speed shifters |
Linear pull brakes | Acera crank

size
color

XS | SM | MD | LG | XL
Metallic Silver | Acid Green

upgrades from MARLIN

LX rear derailleur | Plush, lighter weight Manitou Magnum fork |
Light and durable Bontrager rims | More aggressive tires

frame
7005 aluminum

MARLIN

HARD TAIL
CROSS COUNTRY
RECREATION

upgrades from WRH00

Rock Shox performance suspension fork with 65mm travel |
Toe clips and straps

frame

7005 aluminum

wheels
suspension
componentry

Alloy rims + hubs | Hutchinson Chameleon tires

RockShox Jett fork (65mm travel)

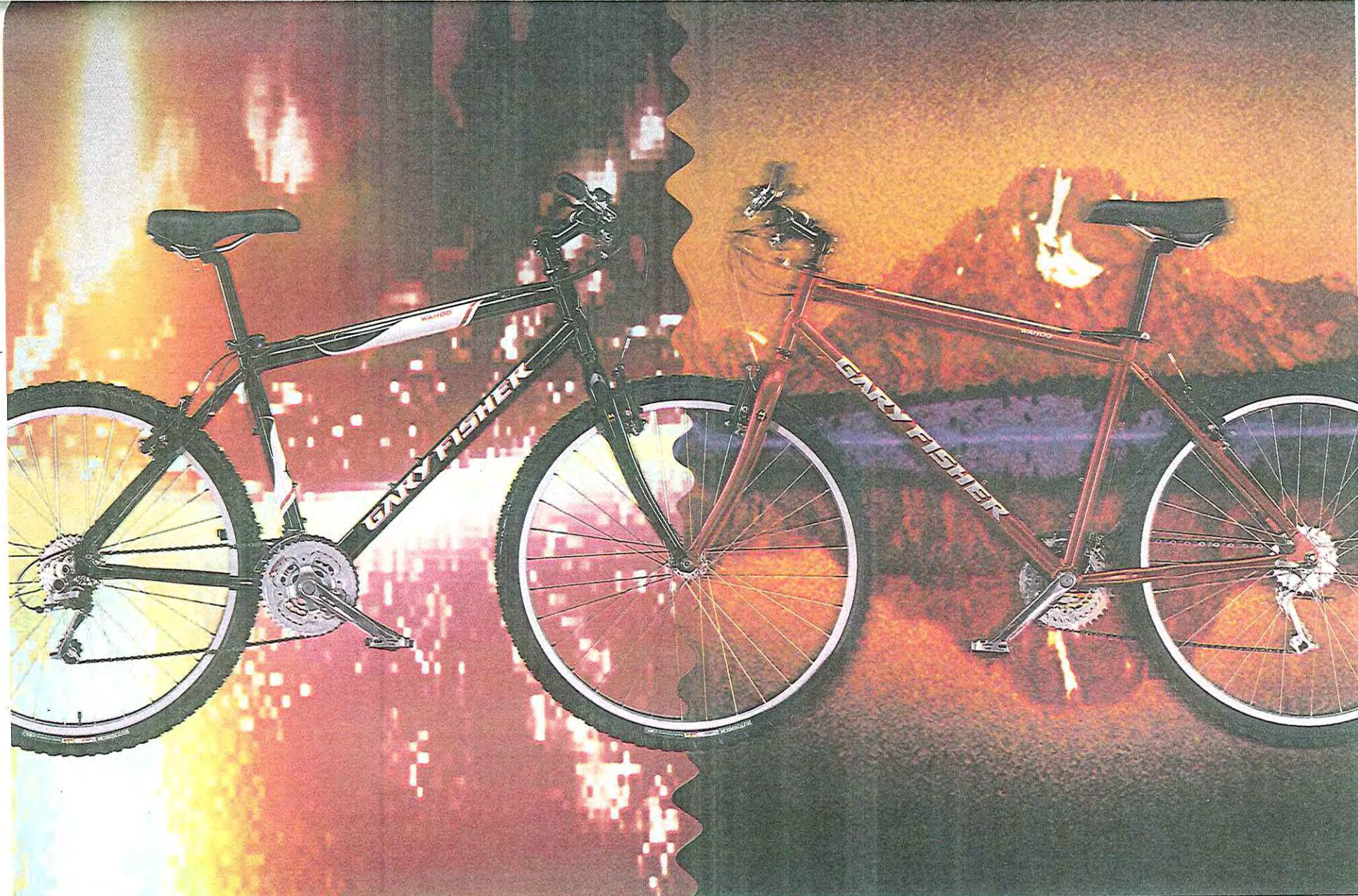
Shimano Alivio rear derailleur | Altus front derailleur + crank | EZ Fire 33 8 speed shifters |
Linear pull brakes

size
color

XS | SM | MD | LG | XL | XXL

Metallic Blue | Team Red





WAHOO

HARDTAIL
CROSS COUNTRY
RECREATION

upgrades from MAMBA

Lighter weight, high performance aluminum frame | 24 speed drivetrain

Frame

7005 aluminum

wheels
fork
componentry

Alloy rims + hubs | Hutchinson Chameleon tires

Plain gauge cromoly steel

Shimano Alivio rear derailleur | Altus front derailleur + crank | EZ Fire 33 8 speed shifters |

Linear pull brakes

size
color

XS | SM | MD | LG | XL | MD-Stepthrough

Metallic Red | Midnight

MAMBA

upgrades from GITCHE GUMEE

Shock absorbing Sync suspension fork |
Stronger, lighter full cromoly mainframe

frame

Cromoly steel mainframe / High tensile stays

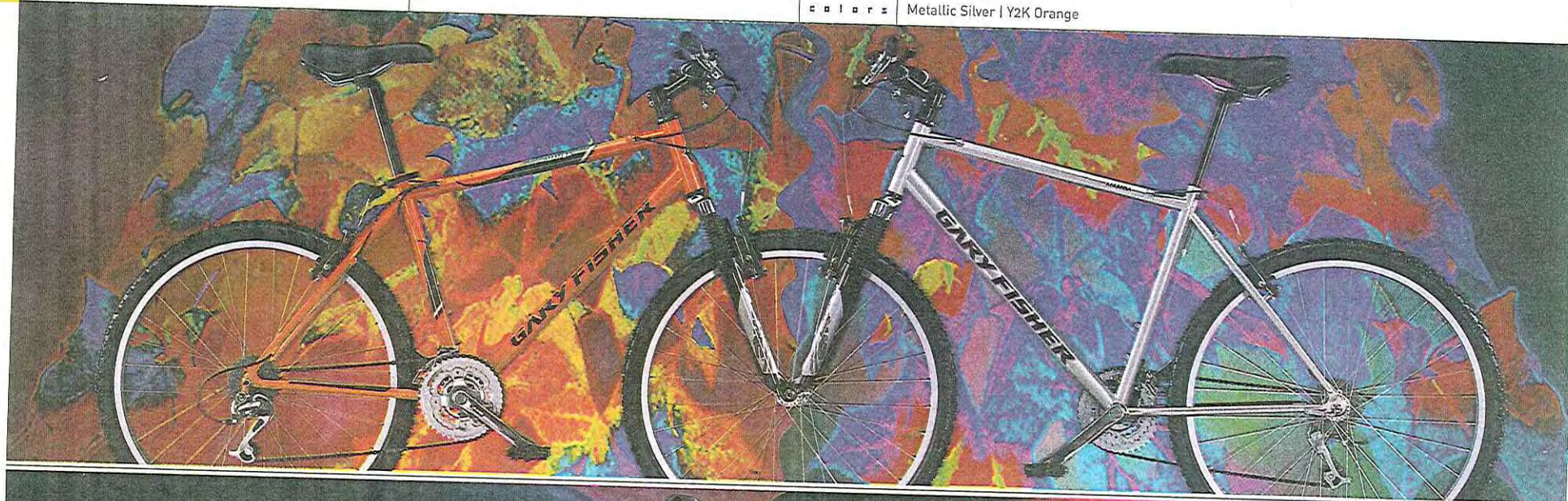
ALL-TERRAIN
CITY / PATH
RECREATION

wheels
suspension
componentry

Alloy rims + hubs | Hutchinson Chameleon tires
Sync 288 fork (63mm travel)
Shimano Acera rear derailleur | Altus front derailleur + crank | EZ Fire 28 7 speed shifters |
Linear pull brakes

sizes XS | SM | MD | LG | XL

colors Metallic Silver | Y2K Orange



GITCHE GUMEE

upgrades from a mall-mart bike

Quality, serviceable components | Professional assembly |
Limited lifetime Fisher frame warranty | Multiple sizes available

frame

High tensile steel / Cromoly seat tube

ALL-TERRAIN
CITY / PATH
RECREATION

wheels
fork
componentry

Alloy rims + hubs | Hutchinson Chameleon tires
Plain gauge cromoly steel
Shimano Acera rear derailleur | Altus front derailleur + crank | EZ Fire 28 8 speed shifters |
Linear pull brakes

sizes XS | SM | MD | LG | XL | MD-Stepthrough

colors Metallic Green | Team Red

hybrids



UTOPIA

H Y B R I D
C I T Y / P A T H
R E C R E A T I O N

upgrades from NIRVANA

Shock absorbing suspension fork |
Lighter, more durable Shimano LX rear derailleur

frame
7005 aluminum

wheels
suspension
componentry

Bontrager Comp 1 front hub + Comp 2 rear hub + Fairlane rims | Inverted tread street tires
RockShox Ruby metro fork | Suspension seatpost
Shimano LX SGS rear derailleur | Nexave 401 front derailleur + crank |
GripShift Centera 8 speed shifters | Linear pull brakes

size
color

SM | MD | LG | XL | MD-Stepthrough
Metallic Blue

NIRVANA

H Y B R I D
C I T Y / P A T H
R E C R E A T I O N

upgrades from ZEBRANO

Greater 24 speed gear range | Smoother shifting drivetrain

frame
7005 aluminum

wheels
suspension
componentry

Shimano Acera rear hub | Bontrager Fairlane rims | Inverted tread street tires
Suspension seatpost
Shimano Alivio rear derailleur | Nexave 301 front derailleur + crank |
GripShift Centera 8 speed shifters | Linear pull brakes

size
color

XS | SM | MD | LG | XL | MD-Stepthrough
Midnight

ZEBRANO

H Y B R I D
C I T Y / P A T H
R E C R E A T I O N

upgrades from a mall-mart bike

Quality, serviceable components | Professional assembly |
Limited lifetime Fisher frame warranty | Multiple sizes available

frame
7005 aluminum

wheels
suspension
componentry

Shimano Acera rear hub | Bontrager Fairlane rims | Inverted tread street tires
Suspension seatpost
Shimano C201 MegaRange rear derailleur | Nexave 301 front derailleur |
Shimano C102 7 speed shifters + crank | Linear pull brakes

size
color

SM | MD | LG | XL | MD-Stepthrough
Metallic Red

MTJAM

14 1/2" frame | 24" wheels | 21 speeds



14 1/2" frame | 24" wheels | 21 speeds

JOSHUA 24

From
the Father of the
Mountain Bike comes a completely
New line of bikes for the age-challenged.
New frame designs. **New** sizes.
New components. **New** kickstands.
New streamers. **New** high performance
training wheels that substantially
increase a young rider's cognitive
development and may one day lead
to a higher standing in the socio-
economic **New** World Order.*

*Or not.



TYRO BOYS

14 1/2" frame | 24" wheels | 21 speeds

TYRO GIRLS



14 1/2" frame | 24" wheels | 21 speeds

COSMO

BOYS

11 1/2" frame | 20" wheels | 6 speeds





COSMO
GIRLS
11 1/2" frame | 20" wheels | 6 speeds

COMET
BOYS
11 1/2" frame | 20" wheels | 1 speed



11 1/2" frame | 20" wheels | 1 speed

COMET
GIRLS



**GAMMA
RAY** BOYS
16" wheels | 1 speed



27

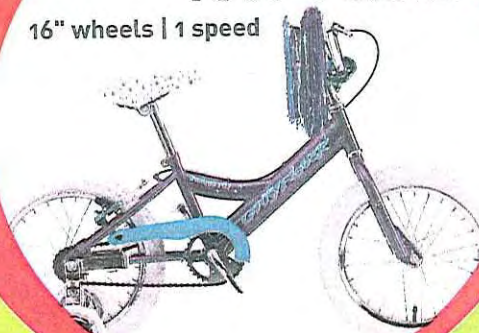


SUNSPOT
GIRLS
12" wheels | 1 speed



SUNSPOT
BOYS
12" wheels | 1 speed

**GAMMA
RAY** GIRLS
16" wheels | 1 speed



Whizzer got it!

	SUGAR1	SUGAR2	SUGAR3	SUPERCALIBER	MT TAM	PARRAGON	JOSHUA F3	JOSHUA F4	X-CALIBER	HDD KOD E KOD
model	SUGAR1	SUGAR2	SUGAR3	SUPERCALIBER	MT TAM	PARRAGON	JOSHUA F3	JOSHUA F4	X-CALIBER	HDD KOD E KOD
page	8	9	9	12	13	13	17	17	18	18
colors	Amarillo Yellow and Team Red	Bob White	Team Red	Amarillo Yellow and Team Red	Midnight and Light Blue	Bob White	Team Red and Midnight	Midnight	Orangarine	Vibra Red
sizes	SM MD LG XL	SM MD LG XL	SM MD LG XL	SM MD LG XL	SM MD LG XL	SM MD LG XL	SM MD LG	SM MD LG	SM MD LG XL	SM MD LG XL
main frame	6061 T6 double butted aluminum Genesis Geometry	6061 T6 double butted aluminum Genesis Geometry	6061 T6 double butted aluminum Genesis Geometry	6061 T6 double butted aluminum Genesis Geometry	6061 T6 double butted aluminum Genesis Geometry	6061 T6 double butted aluminum Genesis Geometry	Oversized ovalized butted cross section 6061 T6 aluminum Genesis Geometry	Oversized ovalized butted cross section 6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry
rear triangle	b*link swingarm 6061 T6 aluminum carbon seat stays	b*link swingarm 6061 T6 aluminum	b*link swingarm 6061 T6 aluminum	6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Adjustable geometry	Cromoly steel	6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry
fork	RockShox SID SL 80mm travel	Manitou Mars 80mm travel	Manitou SX 80mm travel	Manitou Mars CL 80mm travel Lock out	Manitou Mars C 80mm travel	RockShox Judy Race 80mm travel	RockShox Jett Race 75mm travel alloy steerer	RockShox Jett 65mm travel	Marzocchi Z.3 Flylight 100mm travel	RockShox Judy XC 100mm travel
rear shock	RockShox SID Adjust 2½" travel	Cane Creek AD-10 2½" travel	Cane Creek AD-5 2½" travel				RockShox Deluxe Adjust 3½" travel	RockShox Deluxe 3½" travel		
headset	WTB Momentum Comp GreaseGuard	Dia-Compe SAS Aheadset alloy	Dia-Compe SAS Aheadset alloy	WTB Momentum Comp GreaseGuard	Dia-Compe SAS Aheadset alloy	Dia-Compe SAS Aheadset alloy	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe SAS Aheadset alloy	Dia-Compe Aheadset
bottom bracket	Shimano UN72	Shimano UN52	Shimano UN52	Shimano UN72	Shimano UN52	Shimano UN52	Shimano LP27	Shimano LP27	Shimano UN52	Shimano LP27
crank	Bontrager Race Lite 44/32/22	Bontrager Race 44/32/22	Bontrager Race 44/32/22	Bontrager Race Lite 44/32/22	Bontrager Race 44/32/22	Bontrager Race 44/32/22	Icon Obsidian 44/32/22	Shimano Acera 42/32/22	Bontrager Race 44/32/22	Icon Obsidian 44/32/22
pedals	Time ATAC clipless	Time ATAC clipless	Bontrager RE-1 clipless	Time ATAC clipless	Time ATAC clipless	Bontrager RE-1 clipless	Alloy ATB clipless adaptable	ATB alloy cage w/ clips and straps	Bontrager RE-1 clipless	Alloy ATB clipless adaptable
front derailleur	Shimano XT	Shimano LX	Shimano LX	Shimano XT	Shimano XT	Shimano LX	Shimano Deore	Shimano Acera	Shimano LX	Shimano Deore
rear derailleur	Shimano XTR SGS	Shimano XT SGS	Shimano XT SGS	Shimano XTR SGS	Shimano XTR SGS	Shimano XT SGS	Shimano LX SGS	Shimano LX SGS	Shimano XTR SGS	Shimano LX SGS
shifters	Shimano XT	Shimano LX	Shimano LX	Shimano XT	Shimano XT	Shimano LX	Shimano LX	Shimano Alivio	Shimano LX	Shimano LX
cassette	Shimano XT 9 speed 11-34	Shimano LX 9 speed 11-32	Shimano LX 9 speed 11-32	Shimano XT 9 speed 11-34	Shimano LX 9 speed 11-32	Shimano LX 9 speed 11-32	Shimano HG50 9 speed 11-32	Shimano HG50 8 speed 11-30	Shimano LX 9 speed 11-32	Shimano HG50 9 speed 11-32
chain	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	IG31	Shimano HG72	Shimano HG72
front hub	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager Superstock	Alloy quick release 32 hole	Bontrager Race Disc	Disc Compatible Alloy 32 hole

BIG SUR	KAITAI	ADUILA	TASSAJARA	MARLIN	WAHOO	MAMBA	GITCHE GUMEE	UTOPIA	NIRVANA	ZEBRAND	model
20	20	24	24	25	25	26	26	26	26	26	page
Metallic Blue	Midnight	Metallic Blue XXX Orange	Metallic Silver Acid Green	Metallic Blue Team Red	Metallic Red Midnight	Metallic Silver Y2K Orange	Metallic Green Team Red	Metallic Blue	Midnight	Metallic Red	colors
SM MD LG XL	XS SM MD LG XL	XS SM MD LG XL	XS SM MD LG XL	XS SM MD LG XL XXL	XS SM MD LG XL MD-S	XS SM MD LG XL	XS SM MD LG XL MD-S	SM MD LG XL MD-S	XS SM MD LG XL MD-S	SM MD LG XL MD-S	sizes
6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry	7005 aluminum	7005 aluminum	7005 aluminum	7005 aluminum	Cromoly steel	High tensile steel with cromoly steel seat tube	7005 aluminum	7005 aluminum	7005 aluminum	main frame
6061 T6 aluminum Genesis Geometry	6061 T6 aluminum Genesis Geometry	7005 aluminum	7005 aluminum	7005 aluminum	7005 aluminum	High tensile steel	High tensile steel	7005 aluminum	7005 aluminum	7005 aluminum	rear triangle
Manitou SX 80mm travel	RockShox Judy XC 80mm travel	RockShox Jett SL 75mm travel	Manitou Magnum 80mm travel	Rock Shox Jett 65mm travel adjustable preload	Cromoly steel	Sync 288 suspension 63mm travel	Cromoly steel	RockShox Ruby Metro 30mm travel	Cromoly steel	Cromoly steel	fork
											rear shock
Dia-Compe SAS Aheadset alloy	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe Aheadset	Dia-Compe Aheadset	Tange Passage sealed oversize	Sealed oversize	Sealed oversize	headset
Shimano UN52	Shimano LP27	Shimano LP27	Shimano LP27	Shimano Altus	Shimano Altus	Sealed cartridge	Sealed cartridge	Shimano LP27	Shimano sealed	Shimano sealed	bottom bracket
Bontrager Comp 44/32/22	Icon Obsidian 44/32/22	Icon Obsidian 44/32/22	Shimano Acera 42/32/24	Shimano Altus 42/34/24	Shimano Altus 42/34/24	Shimano Altus 42/34/24	Shimano Altus 42/34/24	Shimano Nexave 401 48/38/28	Shimano Nexave 301 48/38/28 w/ chainguard	Shimano C102 48/38/28 w/ chainguard	crank
Bontrager RE-1 clipless	Alloy ATB clipless adaptable	Alloy ATB clipless adaptable	Alloy w/ clip and strap	Steel/Nylon ATB w/ clip and strap	Steel/Nylon ATB	Nylon ATB	Nylon ATB	Alloy ATB clipless adaptable	ATB sealed Cromoly axles	ATB sealed Cromoly axles	pedals
Shimano Deore	Shimano Deore	Shimano Deore	Shimano Deore	Shimano Altus	Shimano Altus	Shimano Altus	Shimano Altus	Shimano Nexave 401	Shimano Nexave 301	Shimano Nexave 301	front derailleur
Shimano XT SGS	Shimano LX SGS	Shimano LX SGS	Shimano LX SGS	Shimano Alivio	Shimano Alivio	Shimano Acera	Shimano Acera	Shimano LX SGS	Shimano Alivio	Shimano C201 MegaRange	rear derailleur
Shimano LX	Shimano Deore	Shimano Deore	Shimano Deore	Shimano EZ Fire 33	Shimano EZ Fire 33	Shimano EZ Fire 28	Shimano EZ Fire 28	GripShift Centera	GripShift Centera	Shimano C102	shifters
Shimano LX 9 speed 11-32	Shimano HG50 9 speed 11-32	Shimano HG50 9 speed 11-32	Shimano HG50 8 speed 11-30	Shimano HG50 8 speed 11-30	Shimano HG50 8 speed 11-30	Shimano HG30 7 speed 11-28	8 speed 11-30	Shimano HG-50 8 speed 11-30	Shimano HG-50 8 speed 11-30	Shimano HG50 7 speed 11-34	cassette
Shimano HG72	Shimano HG72	Shimano HG72	IG-compatible	IG-compatible	IG-compatible	IG-compatible	IG-compatible	IG31	HG50	HG50	chain

Shimano HG72	Shimano HG72	Shimano HG72	IG-compatible	IG-compatible	IG-compatible	IG-compatible	IG-compatible	IG31	HG50	HG50	
Bontrager Superstock wheelsystem	Bontrager Superstock wheelsystem	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Bontrager Comp 1 quick release	Alloy silver quick release	Alloy silver quick release	chain
		Bontrager Corvair 32 hole	Bontrager Corvair 32 hole	Alloy 32 hole	Alloy 32 hole	Alloy 32 hole	Alloy 32 hole	Bontrager Fairlane 32 hole	Bontrager Fairlane 32 hole	Bontrager Fairlane 32 hole	front hub
		Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	front rim
Bontrager Superstock wheelsystem	Bontrager Superstock wheelsystem	Shimano Acera quick release	Shimano Acera quick release	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Alloy sealed quick release	Bontrager Comp 2 quick release	Shimano Acera quick release	Shimano Acera quick release	front spokes
		Bontrager Corvair ASYM 32 hole	Bontrager Corvair ASYM 32 hole	Alloy 32 hole	Alloy 32 hole	Alloy 32 hole	Alloy 32 hole	Bontrager Fairlane 32 hole	Bontrager Fairlane 32 hole	Bontrager Fairlane 32 hole	rear hub
		Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	Stainless steel 14 Gauge	rear rim
WTB RacingRaptor 47/46	WTB RacingRaptor 47/46	WTB VelociRaptor 2.1	WTB VelociRaptor 2.1	Hutchinson Chameleon	Hutchinson Chameleon	Hutchinson Chameleon	Hutchinson Chameleon	Inverted Tread Street tire	Inverted Tread Street tire	Inverted Tread Street tire	rear spokes
WTB RacingRaptor 46/50	WTB RacingRaptor 46/50	WTB VelociRaptor 44/50	WTB VelociRaptor 44/50	Hutchinson Chameleon	Hutchinson Chameleon	Hutchinson Chameleon	Hutchinson Chameleon	Inverted Tread Street tire	Inverted Tread Street tire	Inverted Tread Street tire	front tire
Avid Single Digit 10 linear pull	Forged alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	Alloy linear pull	Alloy linear pull	Alloy linear pull	Alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	rear tire
Avid Single Digit 10 linear pull	Forged alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	Alloy linear pull	Alloy linear pull	Alloy linear pull	Alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	Forged alloy linear pull	front brake
Shimano LX	Linear pull alloy body and lever	Linear pull alloy body and lever	Alloy 2 finger	Shimano alloy 2 finger	Shimano alloy 2 finger	Shimano alloy 2 finger	Shimano alloy 2 finger	Linear pull alloy body and lever	Linear pull alloy body and lever	Shimano C-102	rear brake
Bontrager Superstock	Bontrager Cruiser	Aluminum riser	Aluminum riser	Aluminum riser	Aluminum riser	Riser	Riser	Riser	Riser	Riser	brake levers
Bontrager Comp	Direct connect alloy	Direct connect alloy	Direct connect 15° rise	Direct connect 15° rise	Direct connect 15° rise	Direct connect 15° rise	25° rise	Alloy adjustable rise	Alloy adjustable rise	Alloy adjustable rise	handlebar
WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	Serfas dual density	Serfas dual density	Serfas dual density	Serfas dual density	Serfas dual density	Dual density	Dual density	Dual density	stem
WTB SST.X	WTB SST.X	WTB SST.X	WTB SST.X	Fisher Performance Comfort	Fisher Performance Comfort	Fisher Performance Comfort	Fisher Performance Comfort	Fisher Supersoft	Fisher Supersoft	Fisher Supersoft	grips
Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Alloy micro-adjust	Suspension alloy	Suspension alloy	Suspension alloy	saddle
Replaceable derailleur hanger	Replaceable derailleur hanger	Replaceable derailleur hanger	Replaceable derailleur hanger	Replaceable derailleur hanger	Replaceable derailleur hanger			Replaceable derailleur hanger	Replaceable derailleur hanger	Replaceable derailleur hanger	seatpost
											anything else?

angles

models		
	size	
standover	SO	" The vertical distance from the ground to the point on the top tube where you straddle the bike.
effective top tube	TT	" The horizontal measure from the center of the headset to the center of the seatpost.
cockpit length	CP	" The horizontal measure from the center of the handlebar to the center of the seatpost.
minimum cockpit	minCP	" The shortest the cockpit can be made by changing the stem to the shortest one available.
maximum cockpit	maxCP	" The longest the cockpit can be made by changing the stem to one which is 30mm longer than original.
stem length	SL	mm The original stem: measured from the center of the steerer tube to the center of the handlebar.
crank length	CL	mm The distance from the center of the bottom bracket to the center of the pedal axle.
headtube length	HTL	mm The distance between the upper and lower headset.
head angle	HA	° The angle of headtube to the ground.
seat tube angle	STA	° The angle of seat tube to the ground.
chainstay length	CSL	mm The distance from the center of the bottom bracket to the center on the rear axle.
bottom bracket height	BBH	mm The vertical distance from the center of the bottom bracket to the ground.
bottom bracket drop	BBD	mm The vertical distance the bottom bracket is below an imaginary horizontal line drawn through the axles.
wheelbase	WB	mm The distance between the axles.
center to top	CT	" The distance from the center of the bottom bracket to the top of the seat tube.
inseam range	I	" If your inseam is within this range, this size of bike should fit you.

You need plenty of clearance to be able to control the bike in all terrain.

The most important measurement when buying a bike, because it cannot be changed.

This is where you spend your time. (The next two measurements show how it can be adjusted.)

A stem which is 30mm longer than original is the maximum recommended to retain optimum handling.

A rider with long legs can benefit from longer cranks.

Affects how high your handlebar is relative to your saddle.

Tailored to optimize steering precision on each frame size.

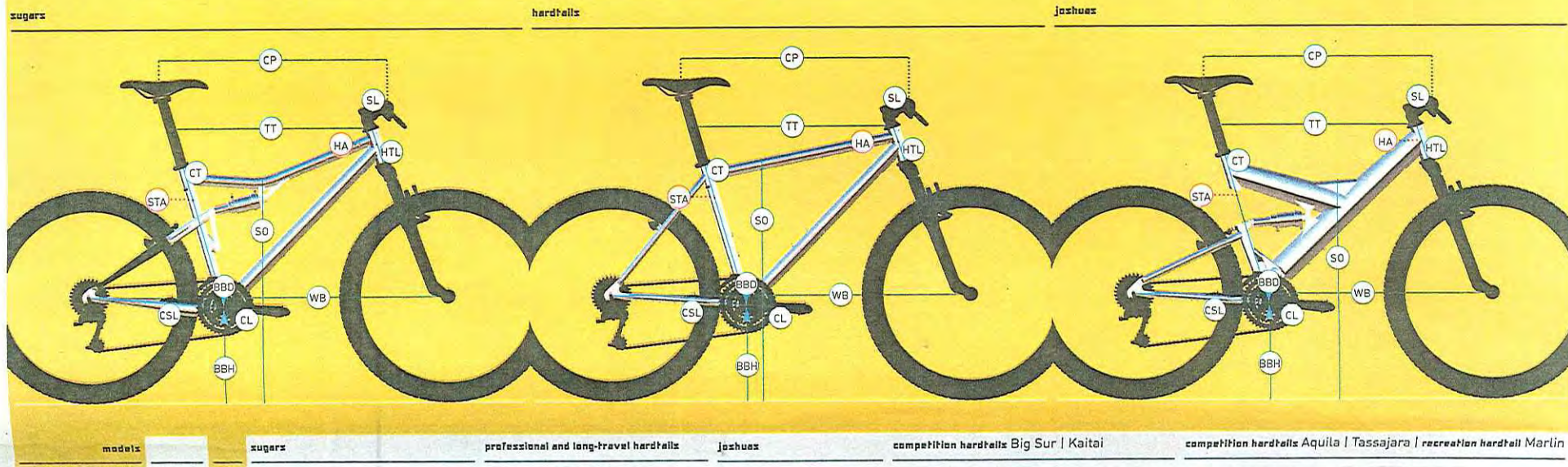
Tailored to optimize power transmission on each frame size.

Expresses clearance of the frame over obstacles.

The greater the bottom bracket drop, the lower the rider's center of gravity.

Tailored to optimize weight distribution on each frame size.

Because some people still feel they need to know.



models		sugars				professional and long-travel hardtails				joshuas			competition hardtails Big Sur Kaitai					competition hardtails Aquila Tassajara recreation hardtail Marlin						
	size	SM	MD	LG	XL	SM	MD	LG	XL	SM	MD	LG	XS	SM	MD	LG	XL	XS	SM	MD	LG	XL	XXL	
standover	SO	"	27.21	27.67	28.10	28.49	27.57	29.17	30.20	31.88	25.67	25.67	25.67	25.91	27.57	29.17	30.20	31.88	25.43	27.60	29.21	30.39	31.89	34.02
effective top tube	TT	"	22.90	23.94	24.72	25.46	22.90	23.94	24.72	25.47	22.71	23.90	25.51	21.70	22.90	23.94	24.72	25.47	21.46	22.36	23.07	23.78	24.49	25.20
cockpit length	CP	"	24.84	26.49	27.85	28.60	24.84	26.49	27.85	28.60	24.05	26.43	28.62	23.03	24.84	26.49	27.85	28.60	22.41	23.80	24.99	26.18	26.89	28.08
minimum cockpit	minCP	"	24.26	25.32	26.68	27.15	24.26	25.32	26.68	27.15	24.05	25.27	27.46	23.03	24.26	25.32	26.68	27.15	22.41	23.31	24.02	24.73	25.44	26.15
maximum cockpit	maxCP	"	26.00	27.21	28.51	29.26	26.00	27.21	28.51	29.26	25.22	27.15	29.29	24.20	26.00	27.21	28.51	29.26	23.37	24.76	25.96	27.15	27.86	29.05
stem length	SL	mm	75	90	105	105	75	90	105	105	75	90	105	60	75	90	105	105	60	75	90	105	105	105
crank length	CL	mm	170	175	175	175	175	175	175	175	170	175	175	170	175	175	175	175	170	170	170	170	170	170
headtube length	HTL	mm	90	105	125	145	90	105	125	145	115	115	125	90	90	105	125	145	105	125	145	165	185	225
head angle	HA	°	71	71½	71½	71½	71	71½	71½	71½	70½	71	71	70½/32	70½/32	71½/32	71½/32	71½/32	70½/2	71	71½	71½	71½	72
seat tube angle	STA	°	73½	73½	73½	73½	73½/32	73½/32	73½/32	72½/32	74	73½	73	74½/32	73½/32	73½/32	73½/32	72½/32	74½/2	74	74	73½	73½	73
chainstay length	CSL	mm	415	415	415	415	412	412	412	412	412	412	412	412	412	412	412	412	415	415	415	415	415	415
bottom bracket height	BBH	mm	303.4	303.4	303.4	303.4	292.1	292.1	292.1	297.2	301.0	303.5	306.1	288.14	293.24	293.24	293.24	293.24	288	291	295	295	295	295
bottom bracket drop	BBD	mm	29.6	29.6	29.6	29.6	39.76	39.76	39.76	39.76	27.1	27.1	27.1	44.86	39.76	39.76	39.76	39.76	45	42	38	38	38	38
wheelbase	WB	mm	1,055.1	1,077.1	1,097.6	1,117.0	1,060.9	1,075.9	1,091.4	1,107.9	1,058	1,078	1,115	1,031.5	1,060.9	1,075.9	1,091.4	1,107.9	1,021	1,037	1,052	1,065	1,085	1,092
center to top	CT	"	15.57	17.57	19.07	21.07	15.57	17.57	19.07	21.07	16	18	21	13.07	15.57	17.57	19.07	21.07	12.76	15.75	17.76	19.25	21.22	23.74
inseam range	I	"	29.21— 32.07	29.67— 34.10	30.10— 36.12	30.49— 38.78	29.57— 32.07	31.17— 34.10	32.20— 36.12	33.88— 38.78	27.67— 30.17	27.67— 32.57	27.67— 34.54	26.91— 30.41	29.57— 32.07	31.17— 34.10	32.20— 36.12	33.88— 38.78	26.91— 30.41	29.57— 32.07	31.17— 34.10	32.20— 36.12	33.88— 38.78	36.02— 40.92

models			recreation hardtail Wahoo						recreation hardtail Mamba					recreation hardtails Gitchee Gumees Piranha						hybrids					
	size		XS	SM	MD	LG	XL	MD-S	XS	SM	MD	LG	XL	XS	SM	MD	LG	XL	MD-S	XS	SM	MD	LG	XL	MD-S
standover	SO	"	25.43	27.60	29.21	30.39	31.89	34.02	25.43	28.39	29.57	30.55	31.81	25.43	27.60	29.21	30.39	31.89	34.02	25.76	26.96	28.77	30.28	32.18	23.72
effective top tube	TT	"	21.46	22.36	23.07	23.78	24.49	25.20	21.14	21.81	21.97	22.95	23.50	21.46	22.36	23.07	23.78	24.49	25.20	21.19	21.41	21.58	22.22	22.89	21.56
cockpit length	CP	"	22.41	23.80	24.99	26.18	26.89	28.08	23.06	23.73	24.37	25.35	25.90	22.41	23.80	24.99	26.18	26.89	28.08	22.41	23.83	24.78	25.72	23.38	24.78
minimum cockpit	minCP	"	22.41	23.31	24.02	24.73	25.44	26.15	23.06	23.73	23.89	24.87	25.42	22.41	23.31	24.02	24.73	25.44	26.15	22.41	23.38	24.33	25.27	23.38	24.33
maximum cockpit	maxCP	"	23.37	24.76	25.96	27.15	27.86	29.05	24.03	24.70	25.34	26.32	26.87	23.37	24.76	25.96	27.15	27.86	29.05	23.32	24.74	25.68	26.63	24.29	25.68
stem length	SL	mm	60	75	90	105	105	105	90	90	90	105	120	60	75	90	105	105	105	90	110	110	110	110	90
crank length	CL	mm	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	175	175	175	175	170
headtube length	HTL	mm	105	125	145	165	185	225	105	125	145	165	185	105	125	145	165	185	225	90	90	105	105	125	125
head angle	HA	°	70½	71	71½	71½	71½	72	70½	71	71½	71½	71¼	70½	71	71½	71½	71½	72	70	70	70½	70½	71½	70½
seat tube angle	STA	°	74½	74	74	73½	73½	73	74½	74	74	73½	73½	74½	74	74	73½	73½	73	74½	74	74	73	73	74
chainstay length	CSL	mm	415	415	415	415	415	415	420	420	420	420	420	415	415	415	415	415	415	445	445	445	445	445	445
bottom bracket height	BBH	mm	288	291	295	295	295	295	288	291	295	295	295	288	291	295	295	295	295	277	277	277	277	277	277
bottom bracket drop	BBD	mm	45	42	38	38	38	38	45	42	38	38	38	45	42	38	38	38	38	65	65	65	65	65	65
wheelbase	WB	mm	1,021	1,037	1,052	1,065	1,085	1,092	1,018	1,028	1,039	1,050	1,065	1,021	1,037	1,052	1,065	1,085	1,092	1,055	1,056	1,056	1,062	1,069	1,056
center to top	CT	"	12.76	15.75	17.76	19.25	21.22	23.74	12.99	17.09	18.31	19.57	21.06	12.76	15.75	17.76	19.25	21.22	23.74	13.00	15.00	17.50	20.00	22.5	17.50
inseam range	I	"	26.91— 30.41	29.57— 32.07	31.17— 34.10	32.20— 36.12	33.88— 38.78	31.17— 34.10	27.43— 29.93	30.39— 32.89	31.57— 34.50	32.55— 36.47	33.81— 38.71	26.91— 30.41	29.57— 32.07	31.17— 34.10	32.20— 36.12	33.88— 38.78	31.17— 34.10	27.01— 30.51	29.21— 32.71	30.98— 34.48	31.83— 35.33	33.73— 37.23	26.22— 29.72