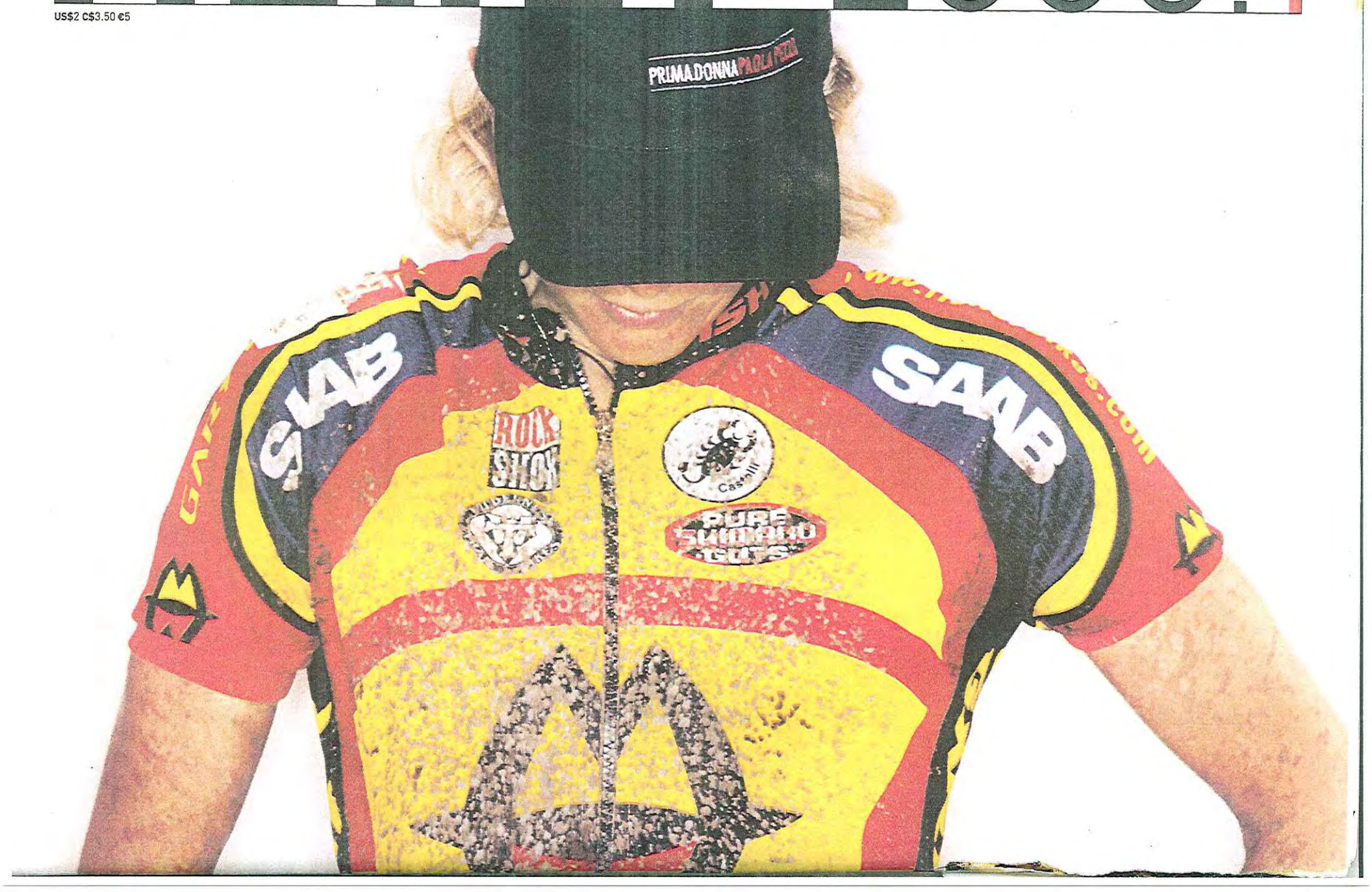
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US$2 C$3.50 €5





SUGAR 1

FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

upgrades from SUGARZ

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

frame

6061 T6 double butted aluminum / carbon stays

wheels	Bontrager Race Lite wheelsystem | WTB NanoRaptor tires
suspension	Rock Shox SID SL fork (80mm travel) | Rock Shox SID adjustable rear shock (2½" travel)
componentry	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

SUGAR 2

FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

upgrades from SUGAR 3

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

frame

6061 T6 double butted aluminum

wheels	Bontrager Race wheelsystem | WTB NanoRaptor tires
suspension	Manitou Mars fork (80mm travel) | Cane Creek AD-10 rear shock (2½" travel)
componentry	Shimano XT SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes | Bontrager Race crank | Time ATAC pedals
sizes	SM | MD | LG | XL
colors	Bob White





SUGAR 3

FULL SUSPENSION
CROSS COUNTRY
PROFESSIONAL

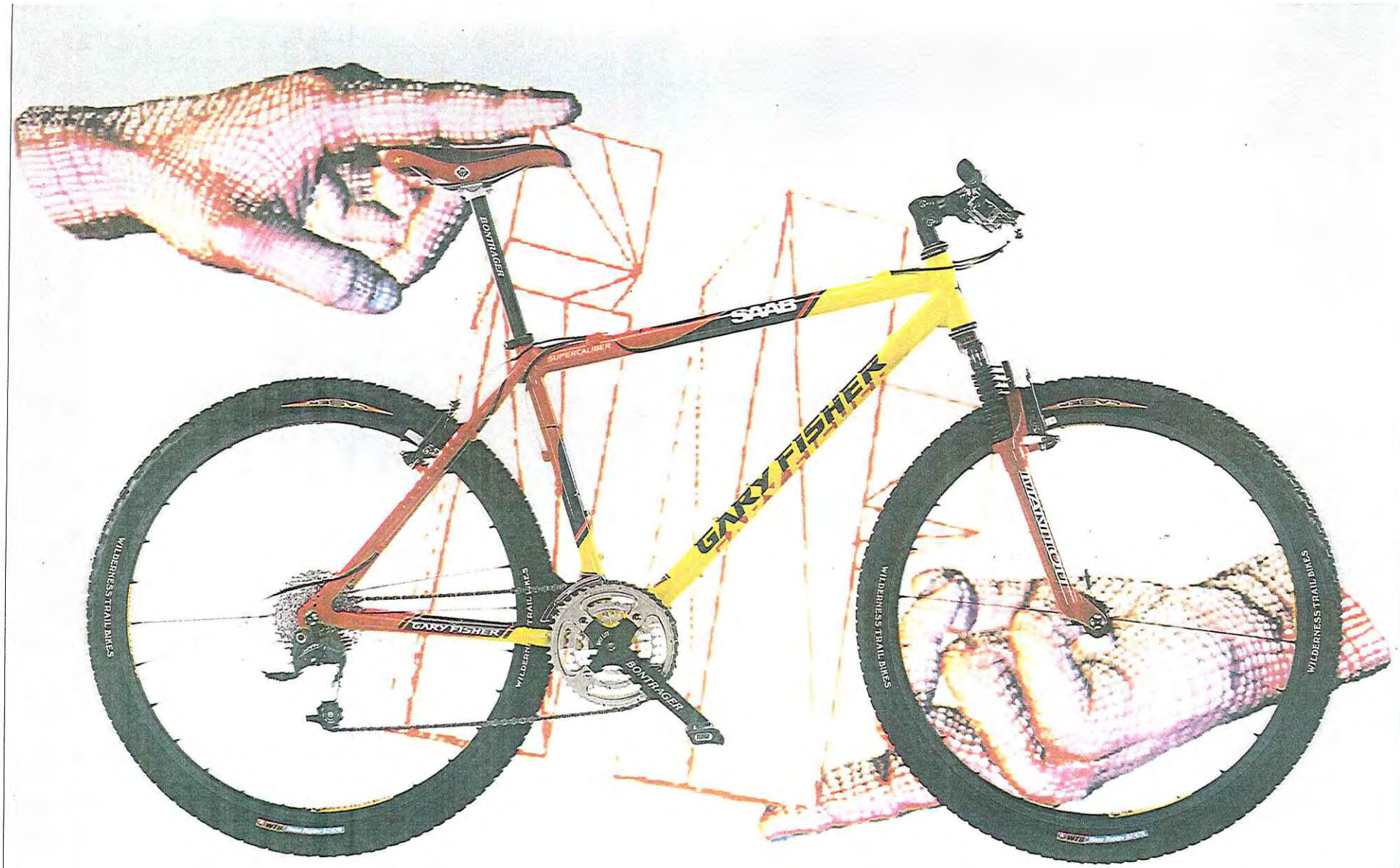
upgrades from JOSHUA F4

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

Frame

6061 T6 double butted aluminum

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



SUPERCALIBER

HARDTAIL
CROSS COUNTRY
PROFESSIONAL

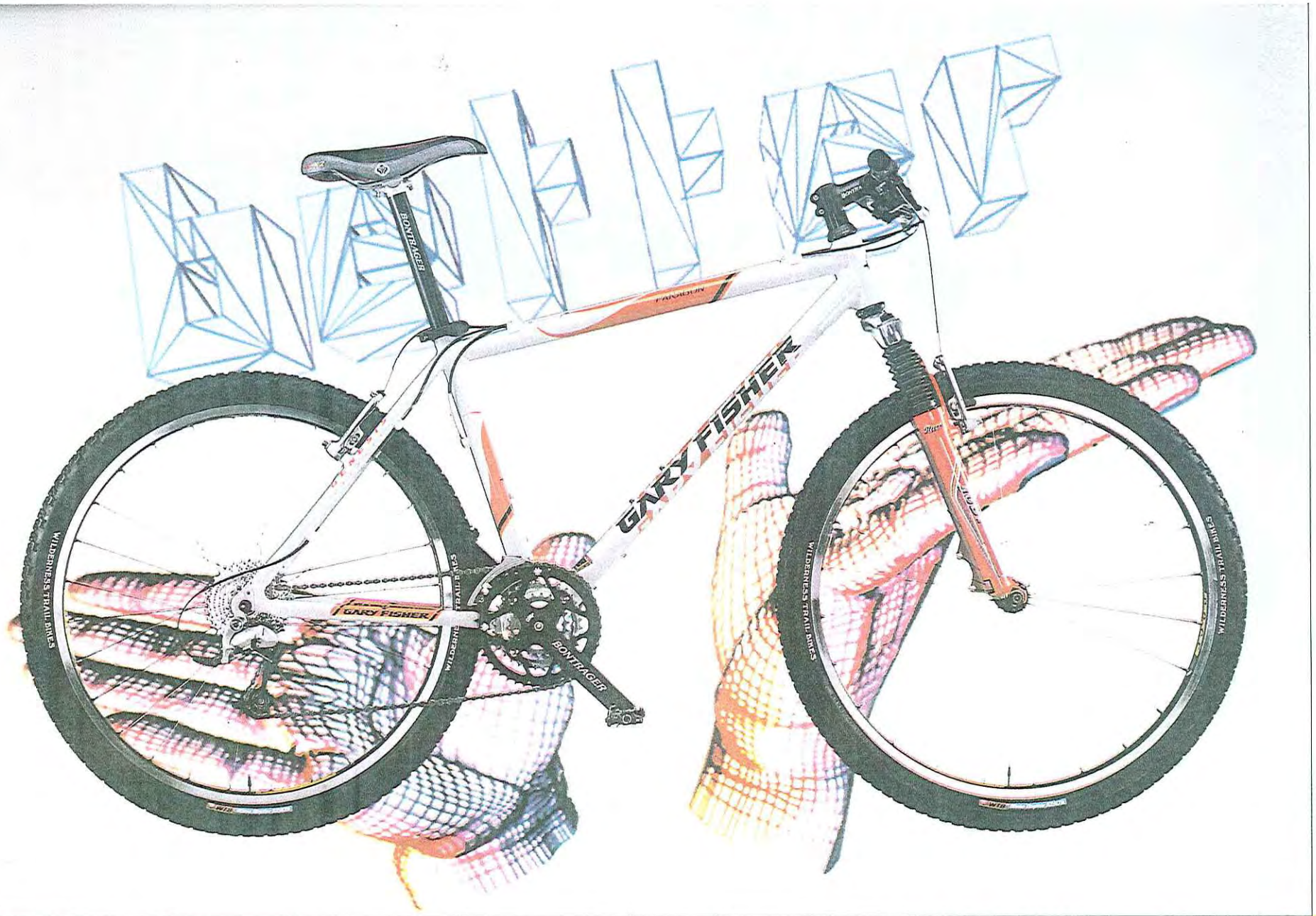
upgrades from MT TAM

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

Frame

6061 T6 double butted aluminum

wheels	Bontrager Race Lite wheelsystem | WTB NanoRaptor tires
suspension	Manitou Mars CL fork with lock out (80mm travel)
componentry	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



PARAGON

HARDTAIL
CROSS COUNTRY
PROFESSIONAL

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

wheels	Bontrager Race wheelsystem | WTB NanoRaptor tires
suspension	RockShox Judy Race fork (80mm travel)
componentry	Shimano XT SGS rear derailleur | LX front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes | Bontrager Race crank | Bontrager RE-1 pedals
sizes	SM | MD | LG | XL
colors	Bob White

MT TAM

HARDTAIL
CROSS COUNTRY
PROFESSIONAL

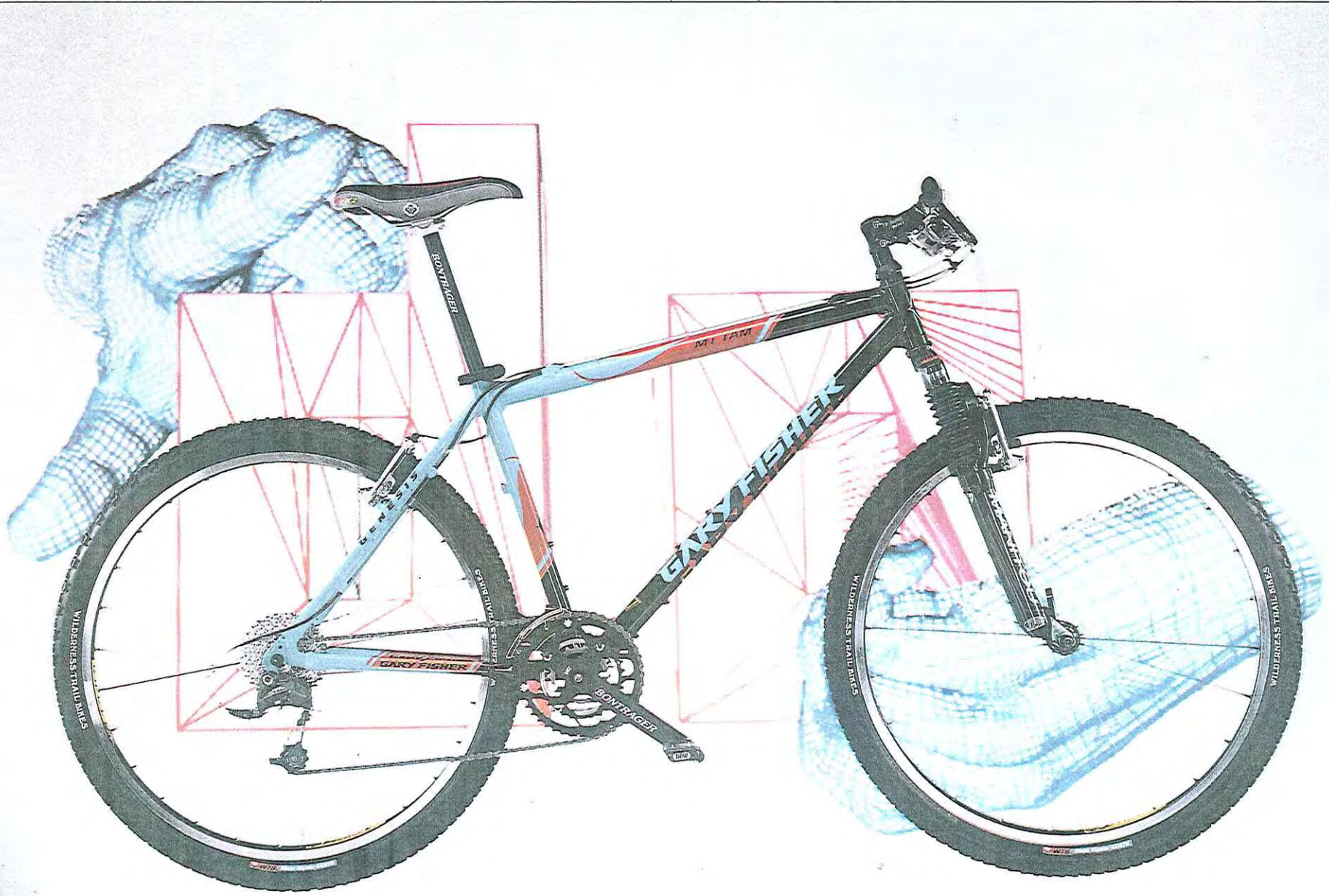
upgrades from PARAGON

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

wheels	Bontrager Race wheelsystem | WTB NanoRaptor tires
suspension	Manitou Mars C fork (80mm travel)
componentry	Shimano XTR SGS rear derailleur | XT front derailleur + Rapidfire 9 speed shifters | Avid SD 20 brakes | Bontrager Race crank | Time ATAC pedals
sizes	SM | MD | LG | XL
colors	Midnight and Light Blue



JOSHUA F3

FULL SUSPENSION
LONG TRAVEL
SUSPENSION

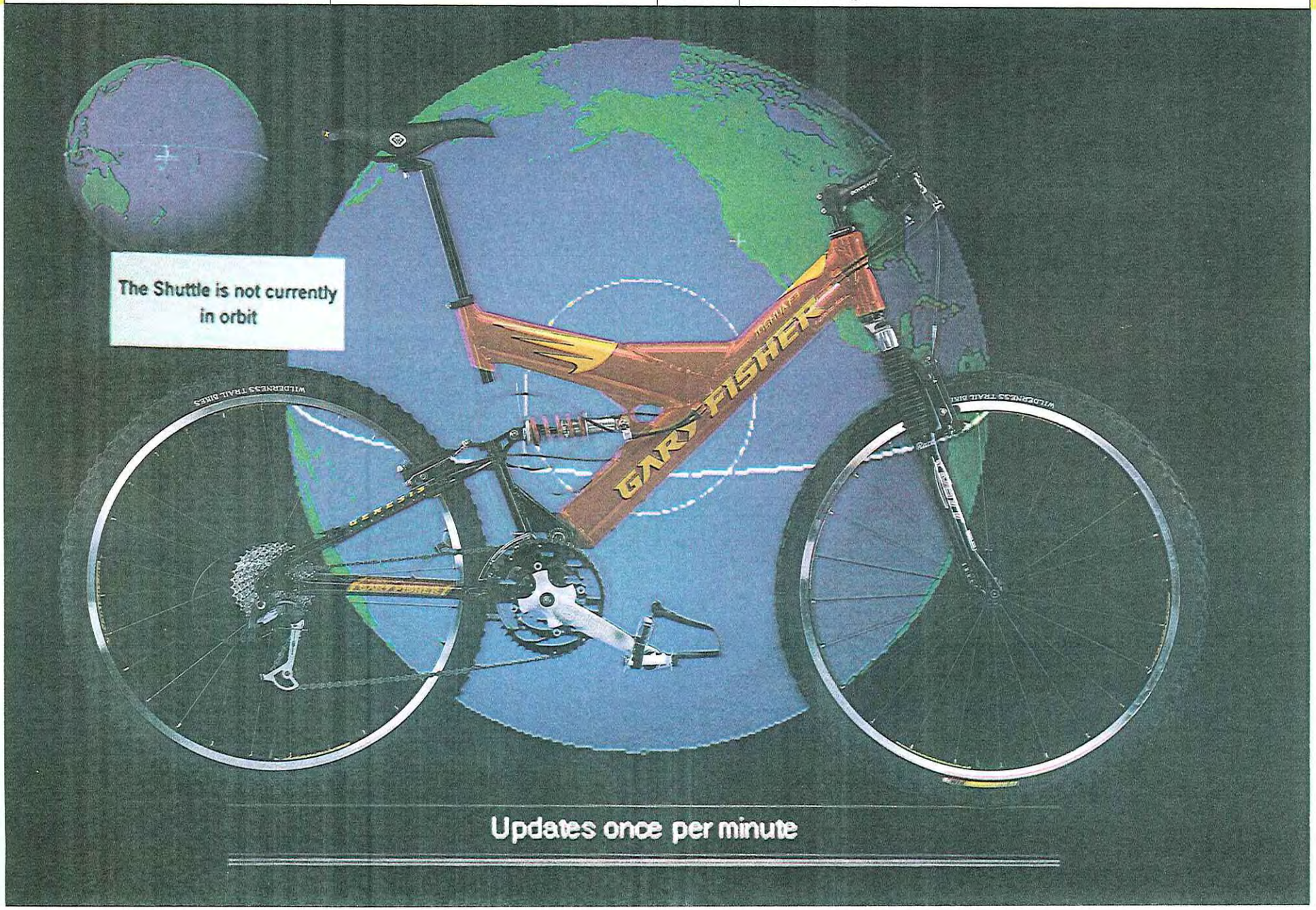
upgrades from JOSHUA F4

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

frame

6061 T6 butted aluminum

wheels	Bontrager Superstock wheelsystem | WTB VelociRaptor tires
suspension	RockShox Jett Race fork (75mm travel) | RockShox Deluxe adjust rear shock (3½" travel)
componentry	Shimano LX SGS rear derailleur + Rapidfire 9 speed shifters | Deore front derailleur | Linear pull brakes | Icon Obsidian crank
sizes	SM | MD | LG
colors	Team Red and Midnight





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JOSHUA F4

FULL SUSPENSION
LONG TRAVEL
SUSPENSION

upgrades from a hardtail

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

frame

6061 T6 butted aluminum / cromoly swing arm

wheels	Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
suspension componentry	RockShox Jett fork (65mm travel) | RockShox Deluxe adjust rear shock (3½" travel) Shimano LX SGS rear derailleur | Acera front derailleur + crank | Alivio Rapidfire 8 speed shifters | Linear pull brakes
sizes	SM | MD | LG
colors	Midnight

X-CALIBER

HARDTAIL
LONG TRAVEL
SUSPENSION

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

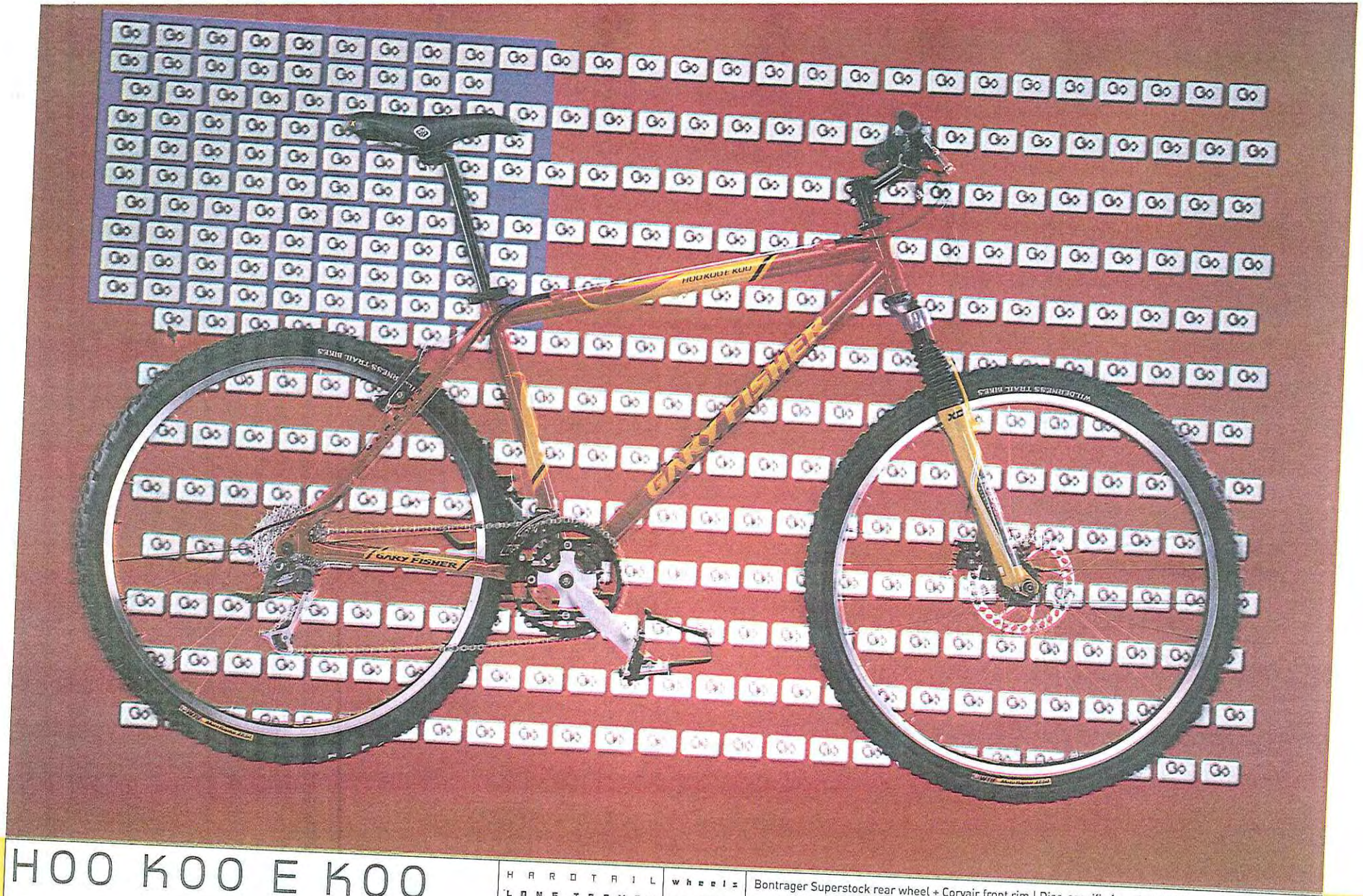
upgrades from H00 K00 E K00

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





HOO KOO E KOO

HARDTAIL
LONG TRAVEL
SUSPENSION

upgrades from KAITAI

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

frame

6061 T6 aluminum

wheels	Bontrager Superstock rear wheel + Corvair front rim	Disc-specific front hub	WTB MotoRaptor tires
suspension	RockShox Judy XC fork (100mm travel)
componentry	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
sizes	SM	MD	LG	XL
colors	Vibra Red

BIG SUR

GENESIS HARDTAIL
CROSS COUNTRY
COMPETITION

upgrades from KAITAI

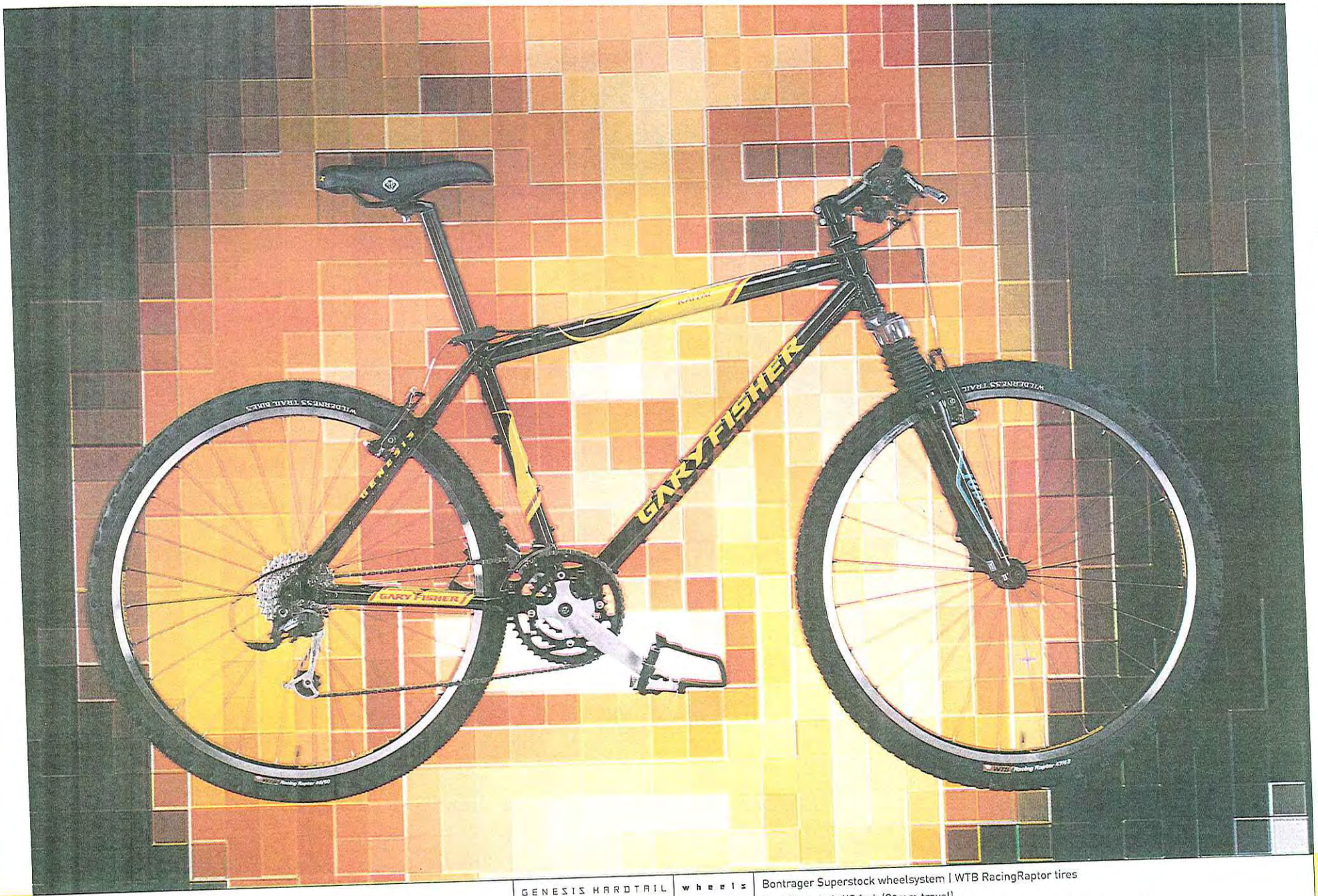
Lighter fork with Manitou TPC equipped damping | Clipless pedals |
Smooth, fast XT rear derailleur | Powerful linear pull Avid brakes

frame

6061 T6 aluminum

wheels	Bontrager Superstock wheelsystem | WTB RacingRaptor tires
suspension	Manitou SX fork (80mm travel)
componentry	Shimano XT SGS rear derailleur | Deore front derailleur | LX Rapidfire 9 speed shifters | Avid SD 10 brakes | Bontrager Comp crank + RE-1 pedals
sizes	SM | MD | LG | XL
colors	Metallic Blue





KAITAI

GENESIS HARDTAIL
CROSS COUNTRY
COMPETITION

upgrades from AQUILA

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

frame

6061 T6 aluminum

wheels	Bontrager Superstock wheelsystem | WTB RacingRaptor tires
suspension	RockShox Judy XC fork (80mm travel)
componentry	Shimano LX SGS rear derailleur | Deore front derailleur + 9 speed shifters | Linear pull brakes | Icon Obsidian crank
sizes	XS | SM | MD | LG | XL
colors	Midnight

AQUILA

HARDTAIL
CROSS COUNTRY
COMPETITION

upgrades from TASSAJARA

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

frame
7005 aluminum

wheels	Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
suspension	RockShox Jett SL fork (75mm travel)
componentry	Shimano LX SGS rear derailleur | Deore front derailleur + 9 speed shifters | Linear pull brakes | Icon Obsidian crank
sizes	XS | SM | MD | LG | XL
colors	Metallic Blue | XXX Orange





TASSAJARA

HARDTAIL
CROSS COUNTRY
COMPETITION

upgrades from MARLIN

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

frame

7005 aluminum

wheels	Bontrager Corvair rims | Shimano Acera rear hub | WTB VelociRaptor tires
suspension	Manitou Magnum fork (80mm travel)
componentry	Shimano LX SGS rear derailleur | Deore front derailleur + 8 speed shifters | Linear pull brakes | Acera crank
sizes	XS | SM | MD | LG | XL
colors	Metallic Silver | Acid Green

MARLIN

HARDTAIL
CROSS COUNTRY
RECREATION

upgrades from WRHOO

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

frame

7005 aluminum

wheels	Alloy rims + hubs | Hutchinson Chameleon tires
suspension	RockShox Jett fork (65mm travel)
componentry	Shimano Alivio rear derailleur | Altus front derailleur + crank | EZ Fire 33 8 speed shifters | Linear pull brakes
sizes	XS | SM | MD | LG | XL | XXL
colors	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	Alloy rims + hubs | Hutchinson Chameleon tires
fork	Plain gauge cromoly steel
componentry	Shimano Alivio rear derailleur | Altus front derailleur + crank | EZ Fire 33 8 speed shifters | Linear pull brakes
sizes	XS | SM | MD | LG | XL | MD-Stepthrough
colors	Metallic Red | Midnight

MAMBA

ALL-TERRAIN
CITY / PATH
RECREATION

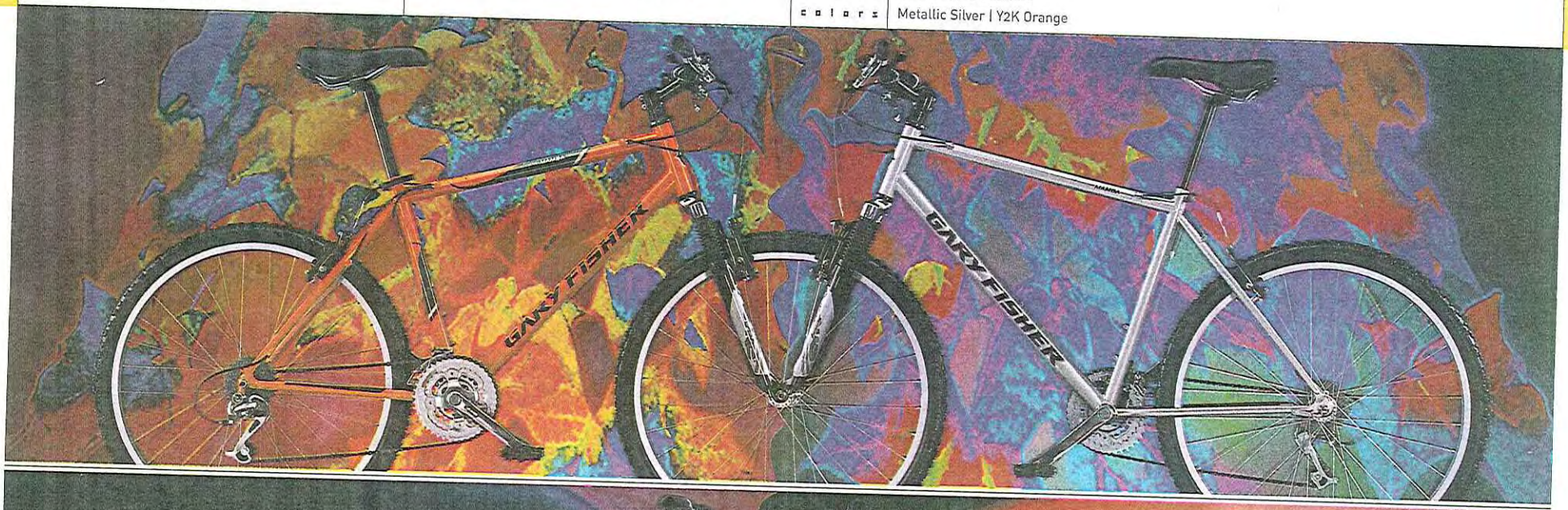
upgrades from GITCHE GUMEE

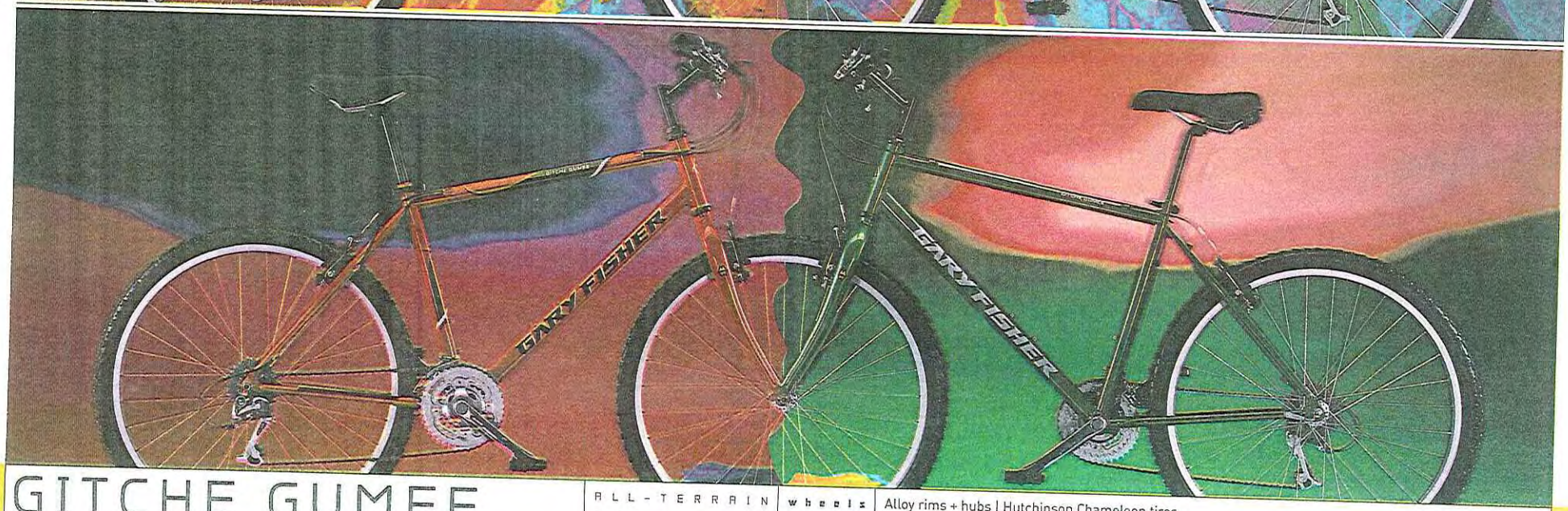
Shock absorbing Sync suspension fork |
Stronger, lighter full cromoly mainframe

frame

Cromoly steel mainframe / High tensile stays

wheels	Alloy rims + hubs | Hutchinson Chameleon tires
suspension	Sync 288 fork (63mm travel)
componentry	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

ALL-TERRAIN
CITY / PATH
RECREATION

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

wheels	Alloy rims + hubs | Hutchinson Chameleon tires
fork	Plain gauge cromoly steel
componentry	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

HYBRID
CITY/PATH
RECREATION

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

frame
7005 aluminum

wheels	Bontrager Comp 1 front hub + Comp 2 rear hub + Fairlane rims | Inverted tread street tires
suspension	RockShox Ruby metro fork | Suspension seatpost
componentry	Shimano LX SGS rear derailleur | Nexave 401 front derailleur + crank | GripShift Centera 8 speed shifters | Linear pull brakes
sizes	SM | MD | LG | XL | MD-Stepthrough
colors	Metallic Blue

NIRVANA

HYBRID
CITY/PATH
RECREATION

upgrades from ZEBRANO
Greater 24 speed gear range | Smoother shifting drivetrain

frame
7005 aluminum

wheels	Shimano Acera rear hub | Bontrager Fairlane rims | Inverted tread street tires
suspension	Suspension seatpost
componentry	Shimano Alivio rear derailleur | Nexave 301 front derailleur + crank | GripShift Centera 8 speed shifters | Linear pull brakes
sizes	XS | SM | MD | LG | XL | MD-Stepthrough
colors	Midnight

ZEBRANO

HYBRID
CITY/PATH
RECREATION

upgrades from a mall-mart bike
Quality, serviceable components | Professional assembly |
Limited lifetime Fisher frame warranty | Multiple sizes available

frame
7005 aluminum

wheels	Shimano Acera rear hub | Bontrager Fairlane rims | Inverted tread street tires
suspension	Suspension seatpost
componentry	Shimano C201 MegaRange rear derailleur | Nexave 301 front derailleur | Shimano C102 7 speed shifters + crank | Linear pull brakes
sizes	SM | MD | LG | XL | MD-Stepthrough
colors	Metallic Red

MTJAM

14½" frame | 24" wheels | 21 speeds





14½" frame | 24" wheels | 21 speeds

JOSHUA24

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

14½" frame | 24" wheels | 21 speeds

TYRO GIRLS



14½" frame | 24" wheels | 21 speeds

COSMO BOYS

11½" frame | 20" wheels | 6 speeds





COSMO

GIRLS

11½" frame | 20" wheels | 6 speeds

COMET

BOYS

11½" frame | 20" wheels | 1 speed





11½" frame | 20" wheels | 1 speed

COMET

GIRLS

GAMMA RAY

BOYS

16" wheels | 1 speed





SUNSPOT

GIRLS

12" wheels | 1 speed



SUNSPOT

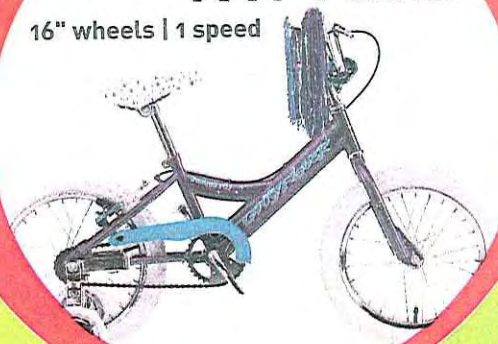
BOYS

12" wheels | 1 speed

GAMMA RAY

GIRLS

16" wheels | 1 speed



whuzzit got?

model	SUGAR1	SUGAR2	SUGAR3	SUPERCALIBER	MT TAM	PARAGON	JOSHUA F3	JOSHUA F4	X-CALIBER	HOO KOO E KOO
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	bflink swingarm | 6061 T6 aluminum | carbon seat stays	bflink swingarm | 6061 T6 aluminum	bflink 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	Simano 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
	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager	Bontrager	Alloy | quick release | 32 hole	Bontrager Race Disc	Disc Compatible | Alloy | 32 hole

chain	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	Shimano HG72	IG31	Shimano HG72	Shimano HG72
front hub	Bontrager Race Lite wheelsystem	Bontrager Race wheelsystem	Bontrager Superstock wheelsystem	Bontrager Race Lite wheelsystem	Bontrager Race wheelsystem	Bontrager Race wheelsystem	Bontrager Superstock wheelsystem	Alloy | quick release | 32 hole	Bontrager Race Disc wheelsystem	Disc Compatible | Alloy | 32 hole
front rim								Bontrager Corvair | 32 hole		Bontrager Corvair | 32 hole
front spokes								Stainless steel | 14 Gauge		Stainless steel | 14 Gauge
rear hub	Bontrager Race Lite wheelsystem	Bontrager Race wheelsystem	Bontrager Superstock wheelsystem	Bontrager Race Lite wheelsystem	Bontrager Race wheelsystem	Bontrager Race wheelsystem	Bontrager Superstock wheelsystem	Shimano Acera | quick release | 32 hole	Bontrager Race Disc wheelsystem	Bontrager Superstock wheelsystem
rear rim								Bontrager Corvair | ASYM | 32 hole		
rear spokes								Stainless steel | 14 Gauge		
front tire	WTB NanoRaptor | Laser Compound | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | Laser Compound | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB VelociRaptor | 2.1	WTB VelociRaptor | 2.1	WTB MotoRaptor | Laser Compound | 47/50 | Kevlar bead	WTB MotoRaptor | 47/50 | Steel bead
rear tire	WTB NanoRaptor | Laser Compound | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | Laser Compound | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB NanoRaptor | 52/47 | Kevlar bead	WTB VelociRaptor | 44/50	WTB VelociRaptor | 44/50	WTB MotoRaptor | Laser Compound | 47/50 | Kevlar bead	WTB MotoRaptor | 47/50 | Steel bead
front brake	Avid Single Digit 25 | Magnesium | linear pull	Avid Single Digit 20 | linear pull	Avid Single Digit 10 | linear pull	Avid Single Digit 25 | Magnesium | linear pull	Avid Single Digit 20 | linear pull	Avid Single Digit 20 | linear pull	Forged alloy | linear pull	Forged alloy | linear pull	Hayes disc | full hydraulic	Formula MD-1 disc | full mechanical
rear brake	Avid Single Digit 25 Magnesium | linear pull	Avid Single Digit 20 | linear pull	Avid Single Digit 10 | linear pull	Avid Single Digit 25 | Magnesium | linear pull	Avid Single Digit 20 | linear pull	Avid Single Digit 20 | linear pull	Forged alloy | linear pull	Forged alloy | linear pull	Hayes disc | full hydraulic	Forged alloy | linear pull
brake levers	Shimano XT	Shimano LX	Shimano LX	Shimano XT	Shimano XT	Shimano LX	Linear pull | alloy body and lever	Linear pull | alloy body and lever	Hayes	Linear pull | alloy body and lever
handlebar	Bontrager Race Lite	Bontrager Race Modified	Bontrager Superstock	Bontrager Race Lite	Bontrager Race Modified	Bontrager Superstock	Bontrager Cruiser	Aluminum riser	Bontrager Crowbar Race	Bontrager Crowbar Comp
stem	Bontrager Race	Bontrager Race	Bontrager Comp	Bontrager Race	Bontrager Race	Bontrager Comp	Bontrager Comp	Direct connect | alloy	Bontrager Race	Direct connect | alloy
grips	WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	WTB Dual Compound	Serfas dual density	WTB Dual Compound	WTB Dual Compound
saddle	WTB SST.X | leather | Titanium rails	WTB SST.X Gel	WTB SST.X Gel	WTB SST.X | leather | Titanium rails	WTB SST.X Gel	WTB SST.X Gel	WTB SST.X	WTB SST.X	WTB SST.X Gel	WTB SST.X
seatpost	Bontrager Race	Bontrager Race	Bontrager Comp	Bontrager Race	Bontrager Race	Bontrager Comp	Alloy | micro-adjust	Alloy | micro-adjust	Tamer Post-Centric OR	Alloy | micro-adjust
anything else?	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	Replaceable derailleur hanger

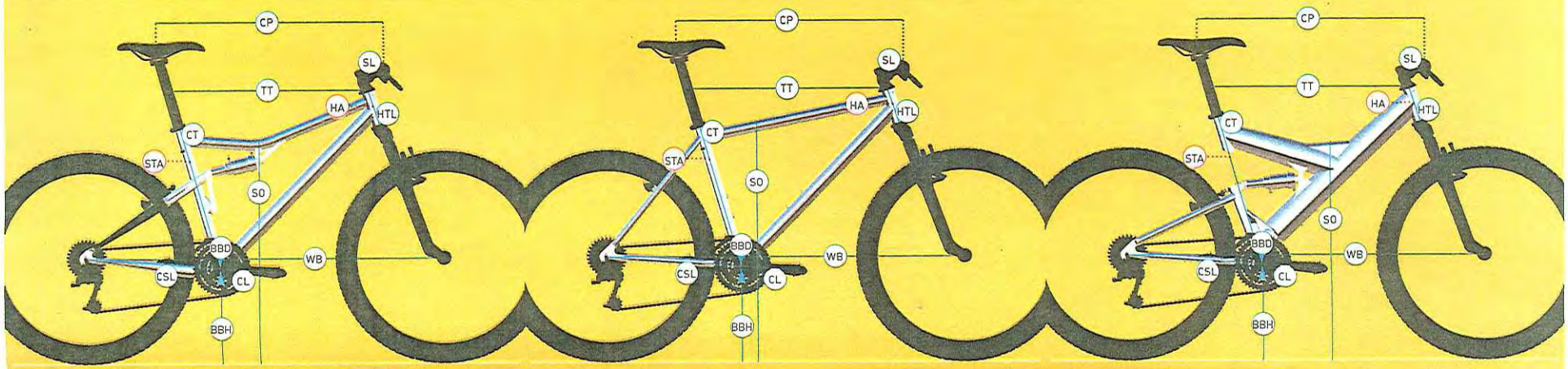
BIG SUR	KAITAI	AQUILA	TASSAJARA	MARLIN	WAHOO	MAMBA	GITCHE GUMEE	UTOPIA	NIRVANA	ZEBRANO	model
20	20	24	24	25	25	26	26	26	26	26	page
Metallic Blue	Midnight	Metallic Blue | XXX Orange	Metallic Silver | Acid Green	Metallic Blue | Team Red	Metallic Red | Midnight	Metallic Silver | Y2K Orange	Metallic Green | 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 HG50i | 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	chain
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	front hub
		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 rim
		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 spokes
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	rear hub
		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 rim
		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 spokes
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	front tire
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	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
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 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	brake levers
Bontrager Superstock	Bontrager Cruiser	Aluminum riser	Aluminum riser	Aluminum riser	Aluminum riser	Riser	Riser	Riser	Riser	Riser	handlebar
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	stem
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	grips
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	saddle
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	seatpost
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	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.	You need plenty of clearance to be able to control the bike in all terrain.
effective top tube	TT	"	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.
cockpit length	CP	"	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.)
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.	A stem which is 30mm longer than original is the maximum recommended to retain optimum handling.
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.	A rider with long legs can benefit from longer cranks.
headtube length	HTL	mm	The distance between the upper and lower headset.	Affects how high your handlebar is relative to your saddle.
head angle	HA	°	The angle of headtube to the ground.	Tailored to optimize steering precision on each frame size.
seattube angle	STA	°	The angle of seattube to the ground.	Tailored to optimize power transmission on each frame size.
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.	Expresses clearance of the frame over obstacles.
bottom bracket drop	BBD	mm	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.
wheelbase	WB	mm	The distance between the axles.	Tailored to optimize weight distribution on each frame size.
center to top	CT	"	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.
inseam range	I	"	If your inseam is within this range, this size of bike should fit you.	

sugars | hardtails | joshuas



models			sugars	professional and long-travel hardtails	joshuas	competition hardtails Big Sur | Kaitai	competition hardtails Aquila | Tassajara | recreation hardtail Marlin

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	70 11/32	70 27/32	71 11/32	71 11/32	71 11/32	70½	71	71½	71½	71½	72
seattube angle	STA	°	73½	73½	73½	73½	73 27/32	73 27/32	73 11/32	72 27/32	74	73½	73	74 11/32	73 27/32	73 27/32	73 11/32	72 27/32	74½	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 Gitche Gumee | 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
seattube 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—37.22	26.22—