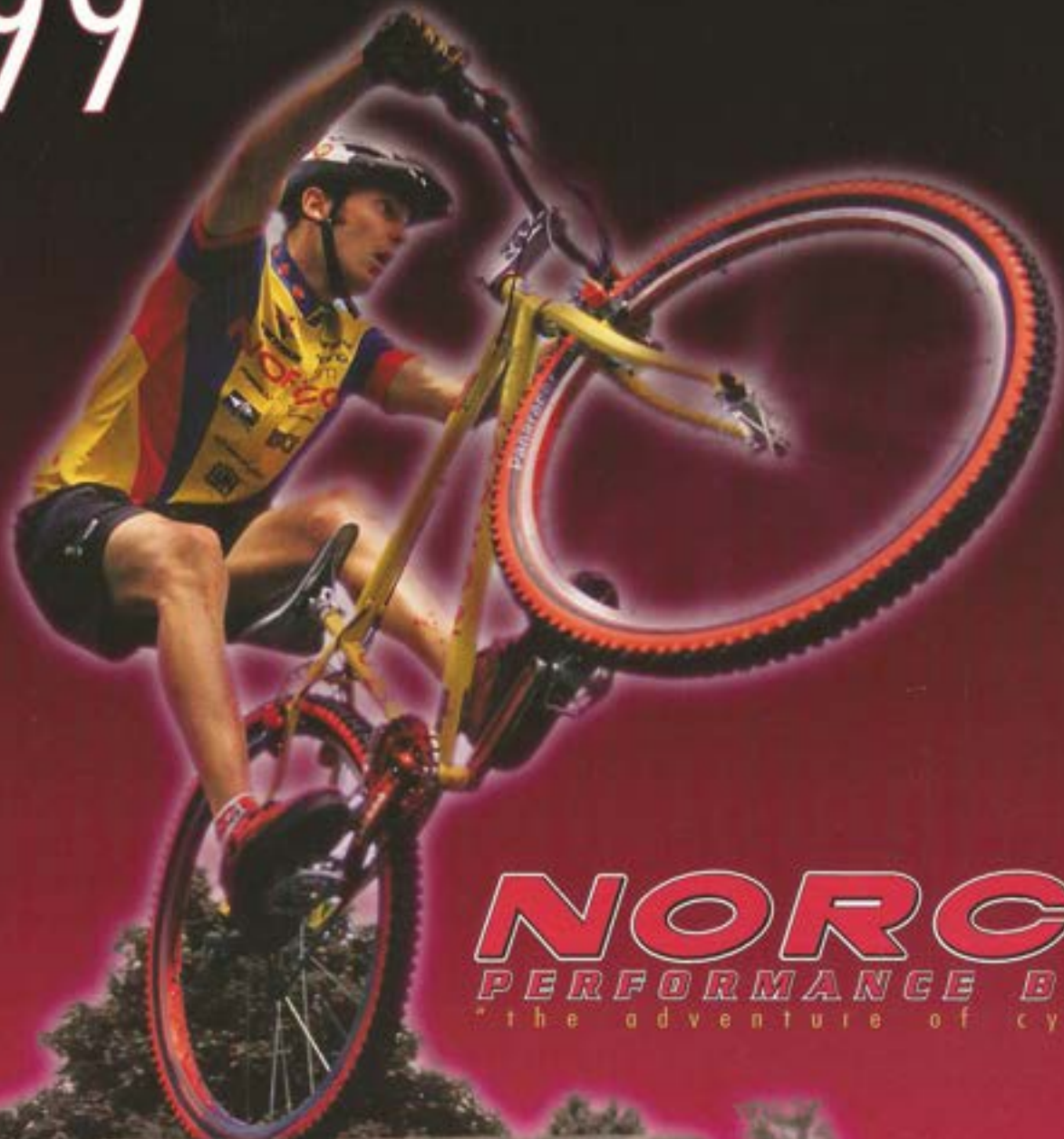


1999



**NORCO**  
PERFORMANCE BIKES  
"the adventure of cycling"

Photo by Greg Ives

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## i n t r o d u c t i o n

What are your goals for 1999? Competitive racing? Blasting down gnarly descents? Ripping up single track? Getting away on weekend adventures? Commuting? Or just heading down to the corner store? No matter what your goals, if you have a Norco bike, you've got what it takes! At Norco, our commitment to quality, value, durability, and above all increased performance, means that our bikes will provide you with years of safe riding fun.

Our location on the rugged West Coast of Canada allows us to conduct real-world testing in some of the most demanding conditions in the world. We incorporate feedback from Norco's Pro Team, our R&D staff, and comments from riders like yourself to produce bikes that will meet your needs, no matter what they are.

All of our 1999 bikes fall into one of four categories - Racing, Performance, Adventure, and Expedition Series. These categories have been designed to assist you in determining which model is best suited to your style of riding. Just look for the series icon next to each bicycle.

**Racing Series:** From Downhill to Cross-Country, our racing series provides bikes of uncompromising quality and attention to detail. Dual-Suspension bikes that allow the rider to customize the bike's geometry depending on their personal riding needs, and hardtails bred from the bone-jarring single-track of the West Coast. These bikes will get you from start to finish quickly and confidently.

## r a c i n g s e r i e s

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## p e r f o r m a n c e s e r i e s

Premium frames combined with quality components. These bikes are strong, smooth, and built to last. Select from a wide range of aluminum or chromoly models with or without suspension forks. Regardless of the terrain, Performance Series bikes will handle anything you throw at them, and keep coming back for more!



## a d v e n t u r e s e r i e s

Looking for the freedom to explore? Adventure Series bikes are suited for the whole family at prices that won't break the bank. Reliable components designed with comfort in mind and frames made for easy handling result in bikes that are pure pleasure to ride.



## e x p e d i t i o n s e r i e s

For the ultimate in multi-purpose bicycles look to our Expedition Series. Strong frames can be outfitted with panniers and racks for everything from a major tour to a quick trip to the grocery store. Features include 700 C wheels for low rolling resistance, and your choice of two styles of handlebar setups - an aerodynamic drop bar, or a comfortable upright bar. Norco Expedition Series bikes are the perfect choice in style and comfort for urban commuting and touring.





# vps-1

one

The ultimate dual-suspension idea: locking switch locks, steep descents and soiling over big drops requires confidence in your equipment. The 1999 VPS-1 takes a big juicy bite out of all challenges with its innovative component package and its proven rear suspension design.

> Tough 6061 T-6 monocoque swing link suspension frame with 5.5" to 6.5" of adjustable rear wheel travel.

> Fox Variable R adjustable rear shock for a super-plush feel and unparalleled ride.

> Marzocchi's new Monster T triple clamp fork with 180mm of travel. The ultimate in front wheel suspension.

> Shimano XT rear derailleur and GripShift 9 speed shifter provides responsive shifting.

> Hayes rear disk brake and Magura Torque rear hydraulic controllers for awesome stopping power.

> Race Face single chainring cranks for strength and stiffness combined with a Sun/Ringle chain tensioner.





If you want an all-mountain bike that can do it all take a look at the VPS-2. An adjustable rear suspension kit suits any riding style, from fire road descending to technical single track.

> Tough 6061 monocoque swing link frame with adjustable rear wheel travel from 4" to 5".

> Fox Vanilla R adjustable rear shock.

> Marzocchi Z-1 Drop-off fork new for 1999 with 5" of travel.

> Hayes cable actuated disk brake up front, Shimano LX V-Brake of the back.

> 9-speed drivetrain with new Gripshift Quartz shifters and XT derailleurs.

> Race Face cranks for positive and precise power transfer.

> Tough Sun Kyno-Lite rims with DT Stainless spokes and WTB Tyranoceptor tires.

# vps-2



photo by roly tucker /  
coast mtn photography

A fully suspended cross-country bike that can eat up punishing climbs while at the same time smooth out the trail on the way down. The rear suspension helps the rear wheel suck up the bumps and rocks on climbs that could cause a hardtail spinout. The race ready bike will turn heads!

- Mid-pivot active rear suspension frame. The specially placed pivot point reduces pedal induced compression for maximum efficiency.

- Fox Vanilla R adjustable rear shock gets the most out of our frame design.

- Marzocchi Z-2 Alloy suspension fork to help you over bumps and drops.

- Shimano XT rear derailleur with LX 9-speed RapidFire Plus shifters for flawless gear changes.

- Shimano LX 4-arm cranks look great and provide crisp and clean pedaling shifts.

- LX Shifters and levers for precise and predictable speed control.

- Strong Sun Rynolite rims hold onto reliable Shimano LX alloy wheels. DT Swirlens spokes, and Endurospine tires provide maximum traction.



**xcs-1** 13

# XCS-2<sup>RS</sup>



The XCS-2 gives you dual-suspension performance and quality components at a reasonable price. The secrets in cross-country applications lie because of its rear suspension and its trail-branded geometry. Look to Norco for the best value in dual-suspension performance.

> Mid-pivot action rear suspension frame. The specially placed pivot point reduces pedal induced compression for maximum efficiency.

> Fox Vanilla rear shock for a smooth and a smooth ride.

> Marzocchi 2.5 suspension fork with 75mm of bump leading travel.

> Quick shifting with 24-Speed Gepcolet Quartz shifters and Shimano XT rear derailleurs.

> Come to a stop in a hurry with the SD-10 V-Brake and 1.9L levers.

> Worry free pedaling with Shimano STX-BC crankset and Shimano cartridge bottom bracket.

> Super strong Sun Ringle double-walled rims with a braking surface, 31 stainless spokes and STX-BC hubs make a tough wheelset that will stand up to the hardest drives.

> Potentiaon Five XC tires, Alloy stem, seatpost and rise bar which you stay in control at all times.



**team** Ti

five

A premium bike that delivers a premium ride.

Titanium is a great material for bicycle frames due to its inherent properties. It is lighter than steel and will not dent or bend like aluminum. It offers the rider a sweeter and more comfortable ride because of the shock absorption qualities, but is still stiff enough to be agile and nimble in the tightest single-track trails. We are making a limited number of these two-wheeled beauties so get yours fast. One ride on Team Ti, and you'll never go back to anything else!

> New for 1999 the Marzocchi Super Fly, the cross-country racer's suspension fork of choice.

> Full XTR group with Race Face cranks and a UN-77 cartridge bottom bracket delivers the highest possible level of performance. Any World Cup racer would be jealous!

> Axiom Anti-Gravity stem, seatpost and riser bar. Strong and light, these components are designed to perform.

> WTB SSTX leather cross-country saddle is comfortable and lightweight.

> Shimano 747 SPD pedals make sure your feet are firmly planted on the pedals for efficient transfer of power.

> Sun Sub 4 rims with A&T braking surface are laced to XTR hubs with DT Competition butted spokes. Surrounded by Panaracer Fire XC tires, you have a lightweight, high-performance wheelset that will get you through the toughest trails.





Equipped with the same components as our titanium race bike, the only difference is that they are hung on a Reynolds 853 frame. Over the last few years Reynolds 853 has become the frame material of choice for discerning riders all over the world. Discover why for yourself and ride the Team 853.

> Reynolds 853 air-hardened, heat-treated steel. Super-strong frames with the shock absorption qualities that you can only find in steel.

> Tough AFS stays that resist flex under rear wheel braking and absorb some of the shock transmitted from the rear wheel.

> Racing Series Hardtail geometry gives you a quick bike that is not only extremely agile in tight single track, but also stable on high-speed descents.

> Axiom Anti-Gravity stem, seatpost and riser bar. These components are light and strong. The riser bar puts the rider in a slightly more upright riding position, giving the rider more control and confidence when descending steep pitches and riding off large drops.

> Marzocchi Super Fly suspension fork. Hydraulic shock absorption in a sub 3 pound fork.

> XTR and Race Face components. Performance and reliability at the lightest weight possible.

# team 853



photo by greg lee



Our top-of-the-line aluminum race rig. Start with a frame made with "Super-Light" Easton Taperwall tubing, add a mix of XTR and XT components and you've got a bike that will ride like a dream, not to mention impress the heck out of your friends!

> Easton "Super-Light" Taperwall frameset with AFS stays give you lightweight and a responsive feel.

> Marzocchi Z-2 Atom Bomb suspension fork with external pre-load adjustment and rebound adjustment. Allows you to fine-tune your ride for any type of terrain quickly and easily without tools.

> Shimano XTR shifters and rear derailleur provide easy and flawless shifting at your fingertips.

> New Shimano 11-34T cogset offers a wide range of gears for getting up hills fast and getting down them even faster.

> Race Face forged cranks with CNC chainrings save weight and allow super-fast front shifts and quick power transfer.

> XT V Brakes and levers deliver powerful braking power to the wheels predictably and smoothly.

> Shimano 535 SPD pedals ensure that the bike goes where you want.

> Sun Sub 4 rims with ABT sidewalls enhance braking performance and add strength. Shimano XT hubs, DT lotted spokes and WTB Enduroaptor tires round out this high-performance race package.



**torrent**



# rampage



Discover the difference steel makes. Norco's ultra-light 631 aluminum frame gives the Rampage a feel that other materials have a hard time matching. The forgiveness and absorption properties of chromoly are legendary, and the durability of a high quality chromoly frame is second to none.

> Marzocchi 7.3 Light gives you a sense of trail tuning heaven.

> Shimano XT drivetrain with Race Face forged cranks keeps the weight low and the performance high.

> Super responsive linking provided with LX V-Brakes and levers.

> High quality, lightweight wheels with Shimano LX hubs, Sun's 32mm, 36 Spoke, 4mm, DT double-butted spokes and Panasonic Fin XC kevlar tires.

> Accu-Abs Anti-Friction stem, seatpost and rear hub for weight savings and superior control when the going gets tough.



**nitro**

nine

An aluminum racing machine for the masses.

Equipped with reliable Shimano LX components and supplemented with an XT rear derailleur, this bike is sure to be in high demand. Get one quick from a dealer near you because supply is limited, and when they're gone the only place you'll see one is about of you on the trail!

- > Out of the box and ready to ride.
- > Marzocchi 7-4 suspension fork, new for 1999 allows you to easily float over trail obstacles.
- > Full Shimano LX component package with an XT 9 speed rear derailleur gives you 27 smooth running, crisp-shifting gears.
- > LX brake package provides stopping power equivalent to bikes costing hundreds of dollars more.
- > Acorn stem, seatpost and trail bar for light weight and maximum strength.
- > Comfortable Selle Italia SPX saddle colour coordinated with the frame.
- > Sun 21-8 rim, LX hubs, stainless spokes and WTB Velocimeter tires will keep you rolling smoothly with minimum maintenance.





# sasquatch

An affordable race bike, the Norco Sasquatch takes on all corners, and wins! Its Shimano drivetrain and Avid braking system means you don't have to worry about anything except hanging on and riding this off-road rock!

> Reynolds 525 double-butted chromoly frame for maximum fatigue life and a sweet ride.

> New for 1999 the Marzocchi Z5 suspension fork gives you 75mm of trail-smoothing travel.

> Shimano STX-RC shifters and XI rear derailleur provides 24 speeds to make pedaling easy.

> STX-RC cranks look great and offer superior load shifting performance due to their patented tooth patterns and ramps.

> Avid 50-10 VBrakes and 1.9L levers to snap you in your tracks.

> Cartridge bottom bracket and STX-RC hubs deliver performance and reliability.

> Selle Italia saddle with kevlar corners resist cuts and tears.

> Sun ZF-10 A&T rims, stainless spokes and Panaracer Fire XC tires provide sure-footed traction on all surfaces.



Lightweight aluminum frame based on our competition racing frame geometry. Hop on the Charger and hit the trails. The quality components are made to handle the harshest environments, and their reliability keeps you on the trails and out of the shop!

eleven

> Lightweight 7005 aluminum frame with AFS stays and a replaceable rear derailleur hanger.

> Manitou's new Spyder suspension fork cuts up the rough stuff with 70-mm of travel.

> Fast and precise shifting performance with Shimano Alivio 24 speed shifters, STX-RC rear derailleur, Alivio cassette and Alivio cranksset.

> Avid SD-10 V-Brakes stop you quickly and confidently.

> Shimano cartridge bottom bracket and sealed Alivio hubs keep you rolling smoothly.

> Sun ZI-18 double-wall rims with ABT braking surface provide safety and strength.

> Panaracer's Fire XC 26X2.1 tires offer superior traction on all types of terrain.



**charger**



# bigfoot



Lightweight aluminum frames are on our competition racing geometry. Also on the Bigfoot is the built. The quality components made to handle the harshest elements, and their reliability keep on the trails and out of the shop.

> Lightweight 7005 aluminum frame with AFS stays and a replaceable dentiflex bridge.

> Manitou's new Spyder suspension fork cuts up the rough stuff with 100mm of travel.

> Fast and precise shifting performance with Shimano Alivio 24-speed shifters, STX-RC rear derailleur, cassette and Alivio crankset.

> Avul 50-10 V-Brakes stop quickly and confidently.

> Shimano cartridge bottom bracket and sealed Alivio hubs keep you riding smoothly.

> Sun Zi-18 double-wall wheels with A&T braking surfaces for extra safety and strength.

> Performance's Fast Track 24x2.1 tires offer superior traction on all types of terrain.



**CYPRESS**

thirteen

An off-road, race-proven, suspension-specific bike that shares the same frame as the lightest, light and strong, the Cypress can easily handle technical trails as well as more expansive bikes.

> Strong, light and responsive frame made with 7005 series aluminum with replaceable rear dropout long it.

> PSI 281 suspension fork to help you stay in control over the rough, tough stuff.

> New Shimano Centro 400 7-speed shifters with Aero-X rear derailleurs gives you 21 gears for getting over the steep climbs and down the other side.

> Tekno V-Breaks and levers to get you stopped quickly and safely in all circumstances.

> Comfortable saddle with kevlar corners to prevent rips and tears.

> Strong double-walled rim, alloy quick-release hubs and stainless spokes keep you rolling smoothly over the roughest terrain.

> Aggressive Kenda off-road tires for all weather traction.



**PS**

# KOKANEE

The Norco Kokanee is a true performer on or off the road. Its lightweight frame and high value component package lets you ride it just about anywhere!

> Full chromoly frame, (main tubes, fork and stays) with AFS stays for rigidity and stiffness under rear wheel braking.

> New for 1999, oversized 1 1/8" headtube with a threadless stem for responsive steering control.

> Smooth shifting Shimano Altus 24-speed drivetrain with Arma crankset provides precise shifting at your fingertips.

> Takto V-Brakes and levers offer strong and steady braking power in all conditions.

> Shimano cartridge bottom bracket for worry free reliability.

> Oversize, quick-release hubs and alloy rims and stainless spokes give you strength and convenience in a lightweight wheelset.





A front suspension mountain bike at a great price! The Norco Wolverine offers a smooth, comfortable ride, a strong frame and quality components all at a reasonable price.

fifteen

> Lightweight sloping top-tube frame with chromoly main tubes and AFS stays for flex free braking.

> SR 7500 suspension fork provides 2" of plush travel to tame trail obstacles.

> Shimano Acera-X rear derailleur and new EZ-Fire 21-speed shifters for clean, crisp shifts.

> High powered braking with Tekro V-Brakes.

> Alloy rims and quick-release hubs for convenience and weight savings.



*wolverine*

# *bush pilot*

**as**

One of our most popular bikes, the Norco Bush Pilot is a favorite choice for people who are just beginning to explore off-road riding. Chromoly main tubes make it strong enough to handle tough terrain. Available in both men's and women's versions.

> Proven frame design features chromoly main tubes. Lighter and stronger than hi-tensile steel.

> Shimano Acera-X drivetrain and shifters with TY-40 crankset means shifting is easy, fast and precise.

> Powerful Tektex V-Brakes provide effortless braking response in any situation.

> Cartridge bottom bracket for maintenance free reliability.

> Super-soft foam saddle and light-weight alloy micro-adjust seatpost for a comfortable ride.

> Durable wheel set with alloy rims, alloy quick-release hubs and aggressive tread Kenda tires for superior traction on all types of surfaces.



Performance and affordability wrapped up in a nice clean package. The all-new 1999 Norco Scrambler will provide you with years of enjoyment for a lot less than you would imagine.

> Durable oversized frame with chromoly top and down tubes.

> Check out the new SR 6100 suspension fork featuring 2" of travel.

> Have your shift with a reliable full Shimano drivetrain including 21-speed Revs shifters, TY30 rear derailleur, TY32 front derailleur and TY30 crankset.

> V-brakes and alloy rims for powerful braking in all weather conditions.

> Quick-release front and rear wheels for easy transport and maintenance.

> Super soft foam "Comfort" saddle with lightweight alloy micro-ribbed seatpost for a smooth ride.

*scrambler*





# mountaineer

A value-packed mountain bike suitable for the whole family. The 1999 Mountaineer SL combines quality components and a rugged frame creating an unbelievable bargain! Men's and Women's models available.

- > Super-tough frame with chromoly and oversized tubes and AFS stays that resist flex under braking.
- > 21-speed Shimano Revvo shifters with wide range Shimano gearing gets you up and down hills with ease.
- > Braking is made quick and safe with V-style linear pull brakes and alloy rims.
- > Shimano TF-30 crankset with patented tooth profiles to make front shifting easy and accurate.
- > Quick-release front wheel allows for convenient storage and transport.



A durable 18-speed bike to get you around in style and comfort. And it's loaded with performance features!

nineteen

> Rugged oversize frame with AFS anti-flex stays.

> Quick and accurate gear changes with Shimano's new Revo 18-speed shifters and Shimano derailleurs.

> Triple front cranks provide a wide range of gears for all kinds of terrain.

> Alloy rims with V-style linear pull brakes for superior braking response in dry or wet weather.

> 40 degree rise stem adds comfort and puts all of the shifting and braking controls close at hand.

> Aggressive knobby tires provide excellent traction and enhance braking performance.



*cherokee*



# axia



Whether you want a bike to take you across the country or just across town, the Norco Axia will get you there quickly and comfortably. Its 700 C wheels have less rolling resistance than regular mountain bikes and its strong, lightweight frame comes with braze-ons for a rear rack. Its upright handlebar setup is extremely comfortable, putting the rider in the best position to control the bike safely.

> 7005 series aluminum frame with complete braze-ons for rear racks and two water bottles.

> SR Hybrid suspension fork and a suspension seatpost to smooth out those rough roads and offer easy handling when the bike is loaded.

> Easy ascents and no spinouts with wide ratio Shimano Nexave 24 speed gearing.

> Outstanding braking response with Shimano Nexave V-Brakes with built-in power modulator.

> Customize your riding position with an adjustable stem.

> Durable alloy rims enhance braking efficiency, Shimano STD-RC hubs ensure reliability and hybrid multi-purpose tires reduce rolling resistance without sacrificing traction.





twenty-one

An aluminum frame, suspension fork, and Shimano components. For the ultimate in expedition performance you can't beat the Norco Avanti. Built to last, and with comfort in mind, you'll be tempted to ride your Avanti everywhere!

> The SR suspension fork will enhance your comfort and control.

> 21 speed Nexus 300 group for quick, reliable shifting and powerful braking.

> Comfortable dual-density saddle combine with front suspension fork and suspension seatpost for a super-plush ride.

> Rise bars and adjustable stem lets you customize the riding position for maximum comfort without sacrificing safety.

> Shimano hubs and alloy rims make a strong, light wheelset that will perform well and last for years.

*avanti*





If you demand quality, performance and reliability at a reasonable price, check out the 1999 Norco Monterey. Equipped with a chromoly frame, name-brand components, and loaded with comfort features to minimize fatigue, your Norco Monterey will provide years of riding pleasure. Available in both men's and women's models.

> Reliable Nexus-300 21-speed gear system and V-Brake set for crisp, clean shifts and the ultimate in braking performance.

> An adjustable stem and rise bar offers a personalized fit and a more upright riding position.

> Super-soft spring saddle and a suspension seatpost smooth the ride so that you will think you're on a La-Z-Boy!

> Alloy hubs and rims, and Kenda Hybrid tires make a strong, light set of wheels that excel on a variety of surfaces.

# monterey





As the name suggests, this is a bike that you can cruise on through the countryside with ease. However, don't let the name fool you. It's also great for commuting and just joy riding 'round the city. Hop on and enjoy!

> Durable hybrid frame featuring a chromoly frame, stays and fork.

> Shimano Acera EZ-Fire 21-speed shifters with an STX-RC rear derailleur ensures that your shifts are accurate and fast.

> Maximum braking power is attained through the use of Tekro V-Brakes.

> Cartridge bottom bracket and sealed hubs ensure reliability and long life.

> Spring saddle and suspension seatpost place a premium on comfort without sacrificing performance.

> Riser bar and an adjustable stem provide an upright, customized riding position.

> Easy rolling wheels with hybrid style tires and alloy rims.



*vermont*



# rideout



A value-packed, multi-purpose bike with many of the features found on our more expensive models. Its reliability and comfort make it a hit among people who want a quality bike at a reasonable price. The Nova Riders is available in both men's and women's models.

> A reliable frame design with chromoly fork and main tubes.

> Flawless shifting performance with Shimano El-Five 21-speed shifter and an Alivio rear derailleur.

> Worry free pedaling with Shimano TF30 crankset and TF30 cartridge bottom bracket.

> Stop quickly and confidently with Tokta V-Breaks.

> An exceptional, comfortable ride is standard with a spring saddle, suspension seatpost, rear fender and adjustable rise stem.

> Alloy rims and hubs with Kenda Hybrid tires results in a wheelset that is durable, lightweight and smooth riding.





*Yorkville*

twenty-five

Are you looking for a bike that is tough enough to ride on dirt roads and graded trails, but is more comfortable and easier to ride than a mountain bike? Consider the Norco Yorkville. Its expedition style frame and comfort enhancing features make it an excellent alternative to a mountain bike.

> This rugged frame utilizes a chromoly seat-tube to reduce weight and increase strength.

> Shimano's new 21 speed Revo shifters and Acera-X rear derailleur gives you high speed shifting performance with the flick of your wrist.

> High-rise handlebar and adjustable rise stem provide a comfortable, upright riding position.

> Ultra-powerful braking with V-style linear pull brakes and levers.

> Quick-release, light alloy hubs with alloy rims provide convenience in a strong but light wheelset.



The logo consists of the lowercase letters 'es' in a stylized, rounded font, enclosed within a horizontal oval shape.

New for 1999, the Norco Olympia offers specialty shop quality at a fantastic price. As with all Norco bikes this bike is chock full of value. Features on the Olympia are found on many higher-priced bikes. We are sure you won't find a bike of equal quality at a lower price. Available in both men's and women's styles.

- > Shimano Revvo shifters give you 18 gears to comfortably help you make the grade.
- > Shimano rear derailleur for sure, clean shifting every time.
- > V-style linear pull brakes for superior stopping power in all weather conditions.
- > Hi-rise bar and adjustable rise stem provide a customized riding position, which maximizes comfort and safety.
- > Alloy hubs with quick-releases and alloy rims result in a quality wheelset that will perform for years.

# olympia



twenty-seven

A premium quality touring bike for cyclists who demand the best. Unique frame geometry makes this bike easy to handle, even when fully loaded. The Terrene's high-quality component package will make this bike the envy of everyone in your group.

► Lightweight, strong and versatile; the 7005 series aluminum frame and chromoly fork are fully accessorized for mounting a low-rider front rack, a rear rack, and bottle cages.

► Full Shimano 1051 drivetrain including STI 9 speed dual-control shifter/brake levers, long cage rear derailleur, front derailleur, triple ring crankset, bottom bracket, front and rear hubs and 9 speed cassette.

► Superior stopping power is supplied by Tektro's new Mini V-Brake, which has been specially designed for use with road bike brake levers.

► Adjustable rise stem for a custom fit and alloy drop bars that provide numerous hand positions to minimize fatigue.

► Suspension seatpost and a Selle Italia XO saddle to smooth out those bumpy roads.

► Alloy rims with 36 holes for strong yet light wheels that can easily handle the load of a full touring bike.



**terrene**



# alteres



A less expensive cousin to the Terrene. The Norco Alteres shares the same frame and fork as the Terrene; however, it is equipped with Shimano RSX components. If you want a high-quality touring bike at a great price, pick up a Norco Alteres, available only at Norco authorized dealers.

> Full braze-ons for racks and water bottles including fork mounts for low rider racks.

> Full RSX triple crank drivetrain including bottom bracket and STI 8 speed dual control shifter/brake levers and long cage rear derailleur.

> Specially designed Mini-V-Breaks from Tektro supply the stopping power needed to bring a fully loaded touring bike to a quick and safe stop.

> Adjustable rise stem and drop bars allow the rider to customize the riding position for comfort and efficiency.

> Selle Italia XO saddle allows you to enjoy the scenery in comfort.

> Strong double-walled rims by Alex, Shimano RSX hubs and smooth rolling, tough 700x35c tires.



Recreation is the order of the day when you are riding a Sekine Nexus cruiser. Featuring a Shimano Nexus 4 speed internal gear system and a coaster brake on a classic cantilever style frame, you will be rolling in ultimate style. The Sekine Nexus is also available in a mens frame.



*Sekine*

The true "Cruiser." Guaranteed comfort and smooth riding with a classic cantilever frame, single speed, coaster brake, high-rise bars and a comfortable spring cruiser saddle. Comes with white-wall balloon tires for street or beach. Also available with a woman's step-through frame.

*Santa Cruz*





**cape cod tandem**

Cycling is twice the fun with the Norco Cape Cod. Featuring Shimano indexed 21-speed gearing, V-Brakes and levers brakes and light alloy 26" wheels. Get one at a dealer near you.



**CAPE COD**

**evolution tandem**

A great tandem package for you and a friend. Shimano STX gearing with Gripshift shifters for reliability and quick gear changes. A chromoly frame and RST 381R suspension fork smooth out the ride up front, while a suspension seatpost keeps the stoker pedaling in comfort. Lekto V-brakes and a threadless stem keep you in control. 40 hole, 26" alloy wheels keep you rolling along.



**EVOLUTION**

**A****B****C****D****E****F****G****H****A. monster 1**

> Secret test fork for over a year. Now available. > Triple clamp design provides unparalleled torsional stiffness. > Oversize upper and lower clamps, rigid brake arch and 20mm oversize through axle design add to stiffness. > 40mm stanchion tubes. Extra wide stance reduces twist and provides maximum steering control at high speeds. > Dual cartridges for superior adjustability. > New "Pro-Wind" coil spring offers a more progressive spring feel. > 180-mm travel with disk brake mounts only. Weight is not relevant on this downhill specific fork.

**B. super fly**

> Marzocchi's first sub-3 lb. fork at 1,362 grams. > A lightweight cross-country racing suspension fork. > Same rigidity and strength as the Atom Bomb. > Air sprung and oil damped. > Large diameter stanchion tubes allows for the use of low air pressure. > Pressure is easily adjusted with a Schroeder valve located near each brake boss. > Speed Sensitive Valving based on proven "Open Bath" design. > SSV adjusters and rebound adjusters in each leg for the ultimate in tuneability. > B.A.M. forged alloy and CNC machined crown and legs. > 70-mm travel with 5-mm negative travel gives the rider 75-mm of usable travel. > No disk brake mounts.

**C. z-1 drop-off**

> New fork for 1999. > Similar internals to the Z-3 Light and the Z-4 but with longer travel. > The feel of the fork can be changed by adjusting the oil height, the oil weight and the valve ports. > "Pro Wind" coil springs for a progressive spring feel. > New design forged B.A.M.-CNC brake arch for increased stiffness. > Forged B.A.M.-CNC sliders for lightness and strength. > 135-mm travel. 1,800 grams, (4 lbs.). > 1998 standard disc brake mount.

**D. z-2 atom bomb**

> The most popular Bomber for 1998 is back with some improvements. > Single hydraulic cartridge for adjustability and negative travel design. > B.A.M. crown and lower legs and an Easton EA70 steer tube. > New progressive wound "Pro-Wind" springs for a more progressive, three-stage spring feel. > 75-mm travel. 1,589 grams, (3.5 lbs.). > No disk brake mounts.

**E. z-2 alloy**

> The fork that started the Bomber revolution. > Single SSV adjustable cartridge. > Forged B.A.M. - CNC brake arch for added stiffness. > "Pro-Wind" coil springs. > 75-mm travel. 1,725 grams, (3.8 lbs.). > 1997 standard disc brake mount.

**F. z-3 light**

> Proven "Open Bath" coil and oil design. > Speed Sensitive Valving controls oil flow through a series of holes and bushings creating progressive three stage damping performance without external adjust. > "Pro-Wind" coil springs. > Feel of fork can be adjusted by changing oil height, oil weight and valve porting. > B.A.M. alloy CNC brake arch, Easton EA70 stanchion tubes and steer tube. > 75-mm travel. 1,770 grams, (3.9 lbs.). > 1997 standard disc brake mounts.

**z-4**

All the same great features as the Z-3 Light, but with a casted alloy brake arch and a steel steer tube.

**G. z-5**

> Air sprung, oil damped fork with original Open Bath design. > Speed Sensitive Valving as found on Z-3 Light and Z-4. > Air spring adjusted by Schroeder valves > Tunable by changing oil height, oil weight and valve porting. > Chromoly stanchion tubes, steel steer tube. > 75-mm travel. > 1997 standard disc brake mounts.

**H. manitou spyder**

> 1 piece die-cast magnesium legs and brake arch for stiffness. > Butted chromoly steer tube and stanchions. > Norglide bushings reduce friction, eliminate deflection and increase durability. > Micro-lube system allows you to lubricate the sliders with a standard grease applicator without disassembling the fork. > Ride worry free for up to 100 hours before tear down and cleaning is required. > Compression and rebound is controlled with MCUs and springs. > Adjustable with external pre-load adjusters. > 70-mm travel. 1,630 grams, (3.6 lbs.). > No disk brake mounts.

## hayes brake systems

Hayes has been making high performance braking systems for more than 40 years. Norco is proud to announce that we are using Hayes front disc brakes on two of our models for 1999. Our VPS-1 has a Full Open Hydraulic Disc Brake System, while our VPS-2 uses the Cable-Actuated Hydraulic Front Disc Brake System.



### hayes open hydraulic system

Hayes patented open system eliminates brake fade and lockup due to fluid expansion. Excess fluid flows through port timing hole into a fluid reservoir as the fluid expands. The calipers use a fixed mount design. 2 pistons apply pad pressure on each side of the disc.

Each pad retracts away from the disc when the lever is released thereby eliminating "free running drag" which is present with floating mount designs. Special sintered metallic pad material and stainless steel disc provide long wear. Pistons self adjust for pad wear. As the brake pads wear down the caliper pistons automatically slide outward to compensate for the reduced pad thickness. Brake pads can be changed in seconds without using any tools. After some 52 designs, Hayes finally created a one piece stainless steel disc that is lightweight but won't warp or deform from the heat of heavy downhill braking.

### hayes cable-actuated hydraulic system

> Compatible with all V-Brake levers. > Adjustable brake actuation point. > Fixed mount design caliper for positive pad retraction to ensure there is no "free-running drag." > Open hydraulic system caliper with fluid reservoir. As fluid expands the excess fluid flows into the reservoir thereby eliminating brake fade or lock up under heavy, prolonged braking. > No fluid lines to sever. Brake cables can be replaced on the trail. > Uses the same high quality brake pads and disc as the Full Hydraulic System > Pistons self adjust for pad wear. As the brake pads wear down the caliper pistons automatically slide outward to compensate for the reduced pad thickness. > Pads can be replaced in seconds without using any tools.

## fox racing shox

In the mid-70's a motocross racer named Bob Fox decided that he was going to build himself a better shock absorber for his motorcycle. As a mechanical engineer he was able to design and build a high performance, externally adjustable, air-pressurized shock. In the years that followed, his company grew and he began making shocks for many applications, including some of the best bicycle shocks in the world! We are using 2 models for 1999. The Fox Vanilla R is used on the VPS-1, VPS-2 and XCS-1 while the Vanilla is used on the XCS-2.



### vanilla r

> External coil over spring gives the rider a plush feel. > Internal floating piston. > Adjustable pre-load. > Nitrogen charged. > One-piece aluminum body. > 12 click external rebound damping. > Multi-valve piston. > Speed-sensitive rebound valve stack > Force-sensitive compression. The harder the hit the stiffer the shock will act to prevent bottoming out.

### vanilla

> External coil over spring. > Internal floating piston. > Adjustable pre-load. > Nitrogen charged. > One-piece aluminum body. > One-piece eyelet. > Urethane bushings for long life and smooth functioning.

## v-brakes

When Shimano introduced its V-brake a few years ago it set a new standard in bicycle brake technology. Since then, every brake manufacturer has developed a linear pull, long arm braking system similar to Shimano's V-Brake. V-Brakes have a softer feel at the lever, provide better modulation and supply significantly more braking power to the rim than cantilever style brakes. As a result, bicycle riding has become a more enjoyable and safer activity for everyone. All bikes in our 1999 product line come equipped with superior V-Brake technology.

Some new innovations in V-Brake technology are noteworthy.

Shimano has extended its parallel-push technology that was previously only available on XTR and XT brakes to its LX entry-level race series. As with XTR and XT brakes the pad remains square to the rim throughout its entire range of motion resulting in maximum pad contact with the rim and more powerful braking.

As in 1998, Shimano's Nexave series, which is used on a number of our Expedition Series bikes feature a built-in power modulator on the brake. The adjustable modulator varies the power output of the brake to ensure that the rider keeps control of the bike in severe, emergency braking conditions.

Tektro's development of a Mini V-Brake is an important breakthrough in road bike brake technology. Previously, road bike brake levers could not accommodate the cable pull requirements of regular V-brakes. The Mini V solves this problem. As a result you are now able to enjoy the benefits of V-Brake technology on touring bikes and road bikes.

## riser bars

We have learned a number of things riding in the rugged and rugged-ass, unforgiving Pacific North-West. Not the least among them is that you have to be in a stable, balanced position to ride seriously steep terrain and big drop-offs. Riser bars help you get that position. By raising you up and away from your front wheel your weight is shifted back allowing to be more centered over your bike, and the wide set-up on most riser bars enhances stability. Climbing can also improve because your chest is opened up more and your shoulders will be more relaxed (because you won't be bent over so much), thereby allowing you to breathe easier.



## comfort features

Here at Norco we place a great deal of importance on your comfort. Our Adventure Series and Expedition Series bikes have many features that make riding them easy and enjoyable.

> Lycra-covered spring saddles: These saddles provide a soft platform to allow you to ride comfortably. The springs act as shock absorbers, smoothing out the roughest roads and trails.

## suspension seatposts

Seatposts with small shock absorbers built right into them. A lot of road shock is transferred from the rear wheel, straight up the frame and into the rider through the seatpost. By putting a shock absorber in the seatpost most of the roughness is absorbed before it gets to the rider resulting in a silky, smooth ride. When combined with a spring saddle you get a ride that is so comfortable you might forget that you're riding a bike!

## micro-adjust systems

Often, people suffer back pain when riding a bicycle because their stem is too low. Adjustable stems allow you to adjust the rise of the stem, thereby eliminating stress on the back. By adjusting the rise you can set your handlebars in the optimum position for both comfort and safety.

## hybrid suspension forks

For 1999 a number of our Expedition Series Hybrid bicycles have suspension forks as standard equipment. These forks smooth out all kinds of terrain and give riders more control and better handling in all situations. They also absorb road shock, which causes fatigue in the hands of riders who ride without front suspension.



## t u b i n g

### t i t a n i u m

The 1999 Norco Team Titanium introduces a new material to the Norco line-up. Norco is working closely with Ancotco, a U. S. company that specializes in the production of high-quality titanium bicycle racing frames. The Team Ti. uses 3-2.5 titanium, which produces a bicycle frame of unequalled strength. The inherent properties of titanium make for a forgiving and compliant ride, yet allow the frame to be stiff enough to accelerate quickly and dart through the tightest corners. Titanium is extremely dent resistant and will never rust and its incredibly long fatigue life means that the frame will outlast most cars.

### r e y n o l d s

Reynolds revolutionary 853 tubing is renowned in the bicycle industry for its outstanding ride characteristics. Unlike other steels, this alloy increases in strength in the critical joint areas as it cools after welding. As a result, 853 delivers outstanding fatigue life, resists dents extremely well and is lightweight. For 1999 we have used Reynolds 853 tubing on the Team 853.

We had so much positive feedback about the 1998 Norco Rampage that we decided to use Reynolds 631 tubing again for the 1999 Rampage. 631 shares many of the same characteristics as 853 including its strengthening properties after welding. It has high tensile strength, a long fatigue life and is comparable in weight to the 853.

The 1999 Norco Sasquatch uses Reynolds 525 frame tubes. 525 chromoly is seamless and double-butted for incredible strength. With chromoly you can be sure you will get a lively and compliant ride. And with a name like Reynolds behind it, you can be assured of quality.

### e a s t o n

Easton is the world leader in aluminum bicycle tubing. Everything from handlebars and forks to frame tubes are made with Easton aluminum. Easton taperwall tubes have been engineered to be light and strong. The 1999 Norco Torrent uses Easton's new "Super-Light" tubing. With a low weight and a lively resilient ride feel, "Super-Light" tubing from Easton is one of the most popular, high performance frame tube sets on the "hike-a-bike" trails - and in the world.

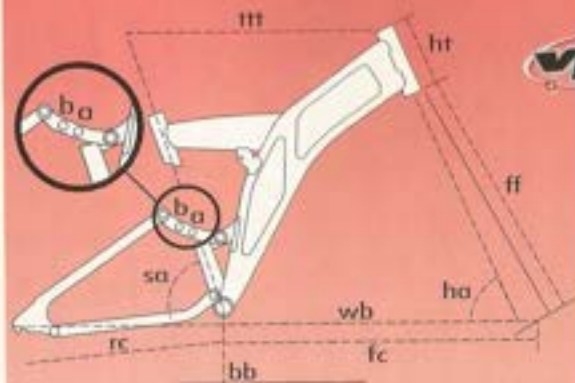
All Norco aluminum frames use replaceable rear derailleur hangers. In the case of an accident the hanger will break away which will save you the cost of an expensive frame repair, or replacement.



VPS "Variable Point Suspension" has evolved further for 1999 and can be found on the new VPS-1 and VPS-2. Both bikes provide a multitude of performance tuning options by varying the mounting position of the shock in the frame.

### v p s - 1

The VPS-1 is a dedicated single chain ring descender. Travel is adjustable from 137mm up to 162mm. It features a longer wheel base, slacker head angles, and more bb clearance. The chart below indicates geometry changes that occur by modifying the shock mount location.



#### v p s - 1 g e o m e t r y

S	mm/inch small	mm/inch medium	mm/inch large
TTT	560/22.0	591/23.3	606/23.9
HT	150/5.9	150/5.9	150/5.9
RC	440/17.32	440/17.32	440/17.32
FC	684/26.93	694/27.32	694/27.32
WB	1121/44.13	1131/44.53	1131/44.53
FF	559/22.0	559/22.0	559/22.0
*BB	375/14.76	375/14.76	375/14.76
*HA	66°	66°	66°
*SA	71°	69°	69°

\*Geometry based on hole "b"

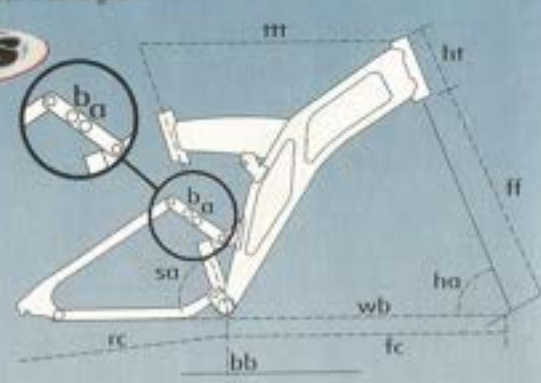
#### v p s - 1 v a r i a b l e t r a v e l & g e o m e t r y

hole	BB	HA	rear travel
a	398mm	67.9°	162mm
b	375mm	66°	137mm

Note: By changing to a shorter travel front fork, angles will increase and bb height will drop.

### v p s - 2

The VPS-2 comes equipped with a triple front crank. Hole "b" is best suited for use with the triple crank, and will perform best in variable riding conditions. Hole "a" is best suited for descending. Norco recommends conversion to single front chain rings for this shock position. If this hole position is used with triple cranks front derailleur interference will be encountered in some gear combinations.



#### v p s - 2 g e o m e t r y

S	mm/inch small	mm/inch medium	mm/inch large
TTT	560/22.0	595/23.4	606/23.9
HT	137/5.4	137/5.4	137/5.4
RC	430/16.93	430/16.93	430/16.93
FC	671/26.42	675/26.57	675/26.57
WB	1100/43.3	1104/43.5	1104/43.5
FF	512/20.16	512/20.16	512/20.16
*BB	345/13.58	345/13.58	345/13.58
*HA	67.5°	67.5°	67.5°
*SA	72°	72°	72°

\*Geometry based on hole "b"

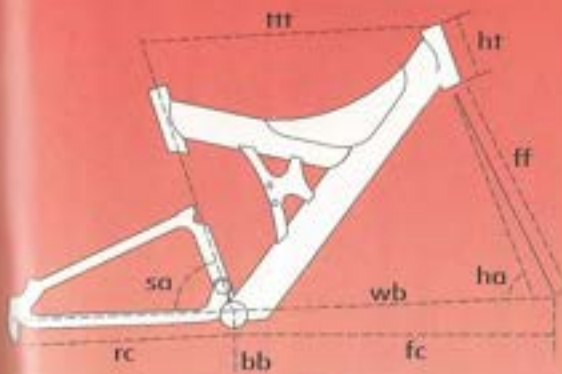
#### v p s - 2 v a r i a b l e t r a v e l & g e o m e t r y

hole	BB	HA	rear travel
a	352mm	68.1°	136mm
b	345mm	67.5°	106mm

Note: By changing to a shorter travel front fork, angles will increase and bb height will drop.

## xcs-1 & xcs-2

New designs for 1999 the XCS models feature a mid chain ring pivot point that reduces bob and pedal induced suspension travel, while maintaining a very active feel. Designed for cross-country and all round terrain the new XCS models will deliver the ultimate in control, comfort and performance.



### xcs-1 & xcs-2 geometry

	mm/inch	mm/inch
S	small/medium	medium/long
TTT	573/22.5	605/23.8
HT	170/4.7	145/5.7
RC	430/16.93	430/16.93
FC	638/25.12	670/26.38
WB	1067/42.0	1100/43.3
FF	442/17.4	442/17.4
*BB	325/12.8	325/12.8
*HA	71"	71"
*SA	72"	72"

rear wheel travel 4 inches

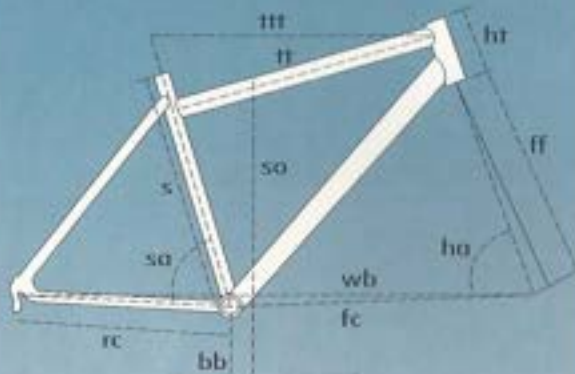
### geometry key

s-seat tube length size  
tt-top tube (centre-centre)  
bb-bottom bracket height  
ha-head tube angle  
ff-front fork length & headset  
so-standover height

wb-wheel base  
tt-theoretical top tube  
rc-chain stays  
fc-front centre  
so-seat tube angle  
ht-head tube

## hardtails

Racing and riding in the rugged west coast mountains has shaped our hard tail designs into what they are today. Their unique design features taller bottom brackets for increased clearance, longer top tubes and wheelbase for added stability, and long headtubes for a more upright position required for tackling steep descents.



### hardtail geometry

S	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch
S	381/15	435/17	475/18.5	510/20	560/22
TT	540/21.3	543/21.4	564/22.2	588/23.2	610/24.0
TTT	562/22.1	565/22.2	590/23.2	612/24.1	630/24.8
HT	100/3.9	116/4.6	130/5.1	145/5.7	166/6.5
RC	425/16.7	425/16.7	425/16.7	425/16.7	425/16.7
FC	623/24.5	625/24.6	641/25.2	661/26.0	680/26.8
WB	1046/41.2	1049/41.3	1064/41.9	1083/42.6	1104/43.5
FF	437/17.2	437/17.2	437/17.2	437/17.2	437/17.2
BB	305/12	305/12	305/12	305/12	305/12
HA	70.5"	71"	71"	71"	71"
SA	74"	74"	73"	72.5"	72.5"
SO	685/26.9	725/28.5	752/29.6	778/30.6	818/32.2

	vps-1	vps-2	xcs-1	xcs-2
frames	Aluminum 6061 Aluminum swing link full suspension. 175 variable 4 to 5" adjustable suspension. Fm: 2575 g Bike 22. lbs	Aluminum 6061 Aluminum swing link full suspension. 175 variable 4 to 5" adjustable suspension. Fm: 2500 g Bike 22. lbs	Aluminum 7075 and steel Active full suspension. 4 inches rear wheel travel. Fm: 2100g Bike 20 lbs	Aluminum 7075 and steel Active full suspension. 4 inches rear wheel travel. Fm: 3300g Bike 31 lbs
fork	Aluminum Bomber 2 175mm travel	Aluminum Bomber 2.1 dropoff. 150mm travel	Aluminum Bomber 2.2 75mm travel	Aluminum Bomber 2.5 75mm travel
headset	Aluminum 40.1	"Stretch 408. 1.1/8"	"Stretch 408. 1.1/8"	"Stretch 588 1.1/8"
cranks	Aluminum 26. 116, 145 mm	Race Face Fargod/CNC 22-22-440	Shimano Deore LX 22-22-440	Shimano SR1 RC 22-22-410
bottom bracket	Shimano BB-52, 68, 110	"Shimano BB-52, 68, 110"	"Shimano BB-52, 68, 110"	Shimano BB-110
pedals	Shimano 634	Shimano 638	SR dylem	SR dylem
chain	Shimano HG-71	Shimano HG-72	Shimano HG-71	Shimano HG-51
freewheel	Shimano FT 6-110 11-24 7-5pd	Shimano LX HG-70 11-32 7-5pd	Shimano FT HG-70 11-32 7-5pd	Shimano HG-50 11-30X 8-5pd
front derailleur	Shimano Deore XT	Shimano Deore XT	Shimano Deore LX	Shimano SR1 RC
rear derailleur	Shimano XT	Shimano Deore XT	Shimano Deore XT	Shimano Deore XT
shifters	Shimano Deore XT	Gripshift Deore XT speed	Shimano Deore LX Foghorn	Gripshift Deore XT speed
bar	Aluminum 26mm	Aluminum 26mm	Aluminum 26mm	Aluminum 26mm
stem	Aluminum Gravity CNC, shiny	Aluminum Gravity CNC, shiny	Aluminum Pro Threadless	Aluminum Camp Threadless
brakes	Hydro Form - 20mm wheel	Hydro Cable front, CE rear	Shimano - 18.5mm wheel	Aluminum SD-10, V-brakes
brake levers	"Hydro, Hydro"	Shimano LX	Shimano LX	Aluminum SD-1.9 V-brake
hubs	6-Speed 40-220	7-Speed 40-220	Shimano Deore LX	Shimano SR1 RC
rims	SR1 Deore LX 220	SR1 Deore LX 220	SR1 Deore LX 220	SR1 Axle with 32 H
spokes	31 Spokes	31 Spokes	31 Spokes	31 Spokes
front & rear tires	SR1 Deore LX 26" 2.1-4.0	SR1 Deore LX 26" 2.1-4.0	SR1 Deore LX 26" 2.1-4.0	SR1 Deore LX 26" 2.1-4.0
saddle	SR1 26"	SR1 26"	SR1 26"	SR1 26"
seatpost	Aluminum Pro	Aluminum Pro	Aluminum Pro	Aluminum Camp
colours	Black/Blue	Black/Green	Black/Blue	Red/Silver
sizes	S,M,L	S,M,L	S,M,L	S,M,L

\*all weights are approximate, and based on prototypes of the time of printing

	team 51	team 853	torrent	rampage	nitro	sasquatch	charger	bigfoot	cypress	kokanee	wolverine	
frames	72.5, double Shimano AF5 double seat stays, 25mm rear stays, 100kg like 24.8lb	Reynolds 531 main tubes, Fuji Steel light AF5 stays, investment cast dropouts, Fm: 1850 Bkx: 24.8lb	Carbon Superlight double frame, 20% heavier than with standard frame, Fm: 1050g Bkx: 23.5lb	Reynolds 631 air hard-weld steel, AF5 double butted stays with forged dropouts, Fm: 1950g Bkx: 25.43lb	Reynolds 575S steel frame to 33, AF5 standard stays with replaceable fenders, Fm: 1800g Bkx: 24.75lb	Reynolds 525 double butted Chromoly, Double butted stays with forged dropouts, Fm: 2150g Bkx: 25.95lb	7005 T6 Aluminum, Great Steel tube, AF5 double stays with replaceable fenders	7005 T6 Aluminum, 6061 down tube, AF5 double stays with replaceable fenders	7005 T6 Aluminum, 6061 down tube, AF5 double stays with replaceable fenders	7005 T6 Aluminum, 6061 down tube, AF5 double stays with replaceable fenders	Chromoly D/S top and down tubes, dual tapered Chromoly AF5 stays and semi forged vertical dropouts	Chromoly D/S top and down tube with dual tapered AF5 stays, investment Chromoly for front mount and change
fork	Reynolds Super Fly 85mm road	Mavic Super Fly 75mm road	Mavic Super Fly 85mm road	Mavic Super Fly 75mm road	Mavic Super Fly 75mm road	Mavic Super Fly 75mm road	Mavic Super Fly 75mm road	RST 2015, 50mm front 40mm spring/carbon	RST 2015, 50mm front 40mm spring/carbon	Chromoly long radius, 100mm suspension fork, 1.0" travel	100mm Suspension fork, 1.0" travel	
headset	Shimano RT-1	"WTB Aluminum R. 1 1/8"	"Shimano RT-1 1/8"	"Dietrich 68N 1 1/8"	"Shimano RT-1 1/8"	Dietrich 58N 1 1/8"	Shimano RT-1 1/8"	Shimano RT-1 1/8"	Shimano RT-1 1/8"	Shimano RT-1 1/8"	Shimano RT-1 1/8"	
cranks	Shimano Force forged/CNC 22-32-44T	"Shimano Force forged/CNC 22-32-44T"	"Shimano Force forged/CNC 22-32-44T"	Shimano Force forged / CNC 22-32-44T	Shimano Force 28-32-44T	Shimano SXI R 4mm 22-32-44T	Shimano Force 22-32-44T	Shimano Force 22-32-44T	Shimano Force 22-32-44T	Shimano Force 22-32-44T	Shimano Force 22-32-44T	
bottom bracket	Shimano BB-72 68/110"	"Shimano BB-72 68/110"	"Shimano BB-72 68/110"	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	Shimano BB-52 68/110	
pedals	Shimano 24T	Shimano 24T	Shimano 24T	XT pedals	XT pedals	XT pedals	XT pedals	Shimano 24T	Shimano 24T	Shimano 24T	Shimano 24T	
chain	Shimano HG-72	Shimano HG-72	Shimano HG-72	Shimano HG-72	Shimano HG-72	Shimano HG-51	Shimano HG-51	Shimano HG-72	Shimano HG-72	Shimano HG-72	Shimano HG-72	
frowheel	Shimano XT 11-34T 9 Spl	Shimano XT 11-34T 9 Spl	Shimano XT 11-34T 9 Spl	Shimano XT 11-34T 9 Spl	Shimano XT 11-34T 9 Spl	Shimano HG 11-30T 8 sp	Shimano HG 11-30T 8 sp	Shimano HG 11-30T 8 sp	Shimano HG 11-30T 8 sp	Shimano HG 11-30T 8 sp	Shimano HG 11-30T 8 sp	
front derailleur	Shimano XT	Shimano XT	Shimano Deore XT	Shimano Deore XT	Shimano Deore XT	Shimano SXI R 28.4	Shimano Deore	Shimano Deore	Shimano Deore	Shimano Deore	Shimano Deore	
rear derailleur	Shimano XT	Shimano XT	Shimano XT	Shimano Deore XT	Shimano Deore XT	Shimano Deore XT	Shimano XT R	Shimano Deore	Shimano Deore	Shimano Deore	Shimano Deore	
shifters	Shimano XT Rapidfire	Shimano XT Rapidfire	Shimano XT Rapidfire	Shimano XT Rapidfire	Shimano XT Rapidfire	Shimano SXI R Rapidfire	Shimano Deore Rapidfire	Shimano Deore Rapidfire	Shimano Deore Rapidfire	Shimano Deore Rapidfire	Shimano Deore Rapidfire	
bar	Shimano composite	Shimano composite	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	Shimano 20mm steel	
stem	Shimano Pro Threadless	Shimano Pro Threadless	Shimano Pro Threadless	Shimano Pro Threadless	Shimano Camp Threadless	Shimano Camp Threadless	Shimano Camp Threadless	Shimano Threadless	Shimano Threadless	Shimano Threadless	Shimano 40mm	
brakes	Shimano XT V-brakes	Shimano XT V-brakes	Shimano XT V-brakes	Shimano XT V-brakes	Shimano XT V-brakes	Avid 50.1.0 V-brakes	Avid 50.1.0 V-brakes	Shimano Aho V-brakes	Shimano Aho V-brakes	Shimano Aho V-brakes	Shimano Aho V-brakes	
brake levers	Shimano XT	Shimano XT	Shimano XT	Shimano XT	Shimano XT	Avid 50.1.0 V-brake	Shimano Deore	Shimano Aho V-brake	Shimano Aho V-brake	Shimano Aho V-brake	Shimano Aho V-brake	
hubs	Shimano XT	Shimano XT	Shimano Deore XT	Shimano XT	Shimano XT	Shimano SXI R	Shimano Deore front 6mm	Shimano Deore rear	Shimano Deore rear	Shimano Deore rear	Shimano Deore rear	
rims	Shimano SA 4 32 H	Shimano SA 4 32 R	Shimano SA 4 32 H	Shimano SA 4 32 H	Shimano 21.2 double wall	Shimano 21.2 double wall	Shimano 21.2 double wall	Shimano 21.2 double wall	Shimano 21.2 double wall	Shimano 21.2 double wall	Shimano 21.2 double wall	
spokes	31 38 stainless	31 38 stainless	31 38 stainless	31 38 stainless	31 38 stainless	Stainless 2.0	Stainless 2.0	Stainless 2.0	Stainless 2.0	Stainless 2.0	Stainless 2.0	
front & rear tires	Panasonic Fire 24" 2.1 Evolr	Panasonic Fire 24" 2.1 Evolr	WTB Enduro Evo 24" 2.1 Evolr	Panasonic Fire 24" 2.1 Evolr	WTB Enduro Evo 24" 2.1 Evolr	Panasonic Fire 24" 2.1	Panasonic Fire 24" 2.1	Kevlar Breecher and Beartack	Kevlar Breecher and Beartack	Kevlar Breecher and Beartack	Kevlar with air pump	
saddle	WTB seat	WTB seat	Selle Italia 90	Selle Italia 90	Selle Italia 90	Selle Italia 90	Selle Italia 90	Yelo WTB	Yelo WTB	Yelo WTB	Yelo WTB	
seatpost	Shimano Composite	Shimano Composite	Shimano Pro	Shimano Pro	Shimano Camp	Shimano Camp	Shimano Camp	Shimano Camp	Shimano Camp	Shimano Camp	Shimano Camp	
colours	Shimano Orange	X Green	Shimano Blue	White	Red/black/white	Shimano Red	Shimano Red	Shimano Red	Shimano Red	Shimano Red	Shimano Red	
sizes	14", 17", 18.5", 20", 22"	15", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	15", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	15", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	15", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	14", 17", 18.5", 20", 22"	

\*All specifications subject to change without notice





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