

# NORCO<sup>®</sup> 1990

M O U N T A I N B I K E S





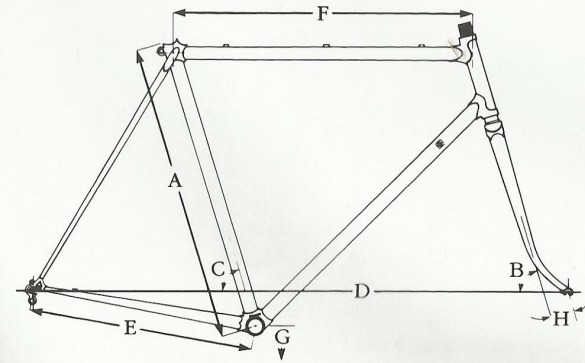
# FRAME INFORMATION

## Frame Information

Outlined below is a brief description of the key characteristics affecting a bicycle's performance. Each model is specifically designed to meet the needs of its intended user.

The *seat tube* length determines the size of each frame. It ultimately determines the fit of the bike, as it governs the height of the top tube from the ground. • The *head tube* angle and *seat tube* angle contribute to the control and responsiveness of the bicycle. Low angles generally produce a very smooth stable ride (especially at higher speeds). Steep angles generally produce a very responsive, agile bike capable of more technical riding (eg. twisting trails, or high performance road riding). • The *wheel base* and *chainstay length* also affect the handling of the bicycle. Generally, a long wheel base or long chainstay produces a stable ride in addition to providing some road shock absorption. A short wheel base contributes to a more agile responsive feel. • *Bottom bracket* height governs the centre of gravity of the bicycle and determines overall ground clearance.

For a more detailed discussion of frame characteristics, consult your local Norco dealer.



A. SEAT TUBE (mm)	B. HEAD TUBE ANGLE (°)	C. SEAT TUBE ANGLE (°)	D. WHEEL BASE (mm)	E. CHAINSTAY LENGTH (mm)	F. TOP TUBE LENGTH (mm)	G. B.B. HEIGHT (mm)	H. FORK RAKE (mm)	
RAMPAGE	497	71	73	1069	432	575	290	45
SASQUATCH	476	71	73	1066	442	570	295	45
PINNACLE	457	70.5	74	1056	420	570	300	38
BIGFOOT	535	70.5	73	1077	435	580	300	44
KOKANEE	460	70	70	1033	452	523	300	55



Shimano low mount, rapid fire STI thumbshifters. Deluxe chromo-moly Tioga T-Bone stem.



New raised chainstay frame design produces agile handling and eliminates the nuisance of chain suck.

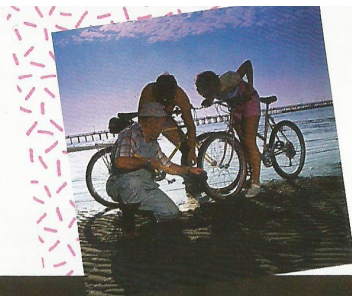


Premium quality Tange Prestige tubing. Shock diffusing Vetta Gel saddle.

## The 1990 Norco mountain bike line represents our commitment to excellence.

- Each model is meticulously fine tuned to achieve the optimum blend of frame materials, geometry, components and cosmetics.
- We utilize the latest innovations in component development from Shimano and Suntour, the world's foremost parts manufacturers.
- Shimano's "Rapid Fire" STI low mounted thumbshifters and Suntour's "X-Press" levers provide unequalled shifting response. Shimano's system incorporates a "Push Only" mechanism which is faster and easier to operate, and always returns to the same position under your thumb.
- We are pleased to announce that the revolutionary Hyperglide shifting system is available on all Shimano equipped models. Hyperglide freewheels utilize computer designed tooth shapes and sprocket relationships which result in flawless shifting performance even when operated under load. In addition, Hyperglide technology has been incorporated into front chainrings (known as Superglide) to aid front shifting performance.
- Our dynamic new colours and graphics cover both ends of the spectrum. We offer conservative yet distinctive one-tones, and a wild assortment of dayglows, splashes and splatters.
- Visit your local Norco dealer soon and check out the complete 1990 line.





**P**remium performance for off-road fanatics.

The focal point of this race prepped thoroughbred is the lightweight, ultra tough Tange Prestige chro-moly main triangle. A super durable Tange chro-moly fork with oversize blades, full chro-moly stays and a distinctive high gloss finish make this bike tough to beat. Shimano Deore XT 21-speed STI Hyperglide equipped with powerful, easy maintenance front and rear SLR cantilever brakes. Also includes a full complement of Tioga parts and accessories including: Prestige II handlebar, T-Bone stem, Bio-Grips, and aggressive Farmer John Cousin tires.

# RAMPAGE PRESTIGE



**R**esponds effortlessly to rider and terrain demands. Built to withstand the punishment of off-road riding, the Rampage frame is manufactured in Japan using Tange MTB double butted chromoly tubing, Shimano Deore XT components including 21-speed STI push button gearing, SLR brakes, Super-glide chainrings, and Hyper-glide cogs for improved shifting under load. Utilizes comfortable Vetta Gel saddle.



## RAMPAGE



## SASQUATCH



**C**hallenge seeker. Equipped with Suntour XCD components, this Japanese manufactured Tange full chromoly bicycle is built to last. The XCD group features the new 21-speed push button X-Press shifters, Accushift Plus chainrings for improved shifting performance, and reliable BR5 brakes. Also note the deluxe black chromoly seat post, lightweight Araya RX-7 rims, and Panaracer ground biting Khartoum tires.



# TUKTOYAKTUK



## **H**i-tech lightweight T-7000 aluminum.

Redesigned for 1990, the Tuktoyaktuk main triangle and rear stays are comprised of high grade TIG welded T-7000 aluminum. The chromo-moly front fork features oversize "Uni-trak" straight blades. Components used are a selection of Shimano Exage 500 and Exage 400 equipment. The brake and shifter combination features 21-speed STI push button thumbshifters for feather touch control. SLR cantilevers, Superglide Bio-Pace chainrings, Hyperglide cogs, Ritchey Force stem, Araya RX-7 rims, and rugged Ritchey Quad tires are all standard features.



# PINNACLE

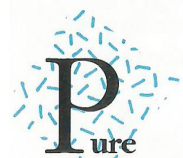


**E**xciting design, meticulous craftsmanship.

The 1990 Pinnacle takes advantage of an innovative raised chainstay frame design which delivers superb handling characteristics and eliminates the nuisance of chain suck. The Tange chro-moly "Unit-trak" straight blade fork provides agile, precise response. Features of note include: Shimano Exage 500 STI push button 21-speed shifters, SLR brakes with powerful seat-stay mounted U-brake (with booster), Hyperglide rear cogs, Superglide front chainrings, Ritchey Force stem, Ritchey grips, chro-moly seat post, Araya VP-20 rims, and paddle style skinwall off-road tires.



# BIGFOOT



**P**ure  
performance,  
pure pleasure.

The chro-moly (3 main tubes) Bigfoot frame takes advantage of a mono trak rear mono stay design which effectively stiffens the rear end, producing a very responsive ride. The Bigfoot is outfitted with Shimano Exage 500 21-speed STI push button shifters and Exage 300 derailleurs, Superglide cranks, and linear response brakes. The Hyperglide freewheel cogs dramatically improve shifting performance in a variety of conditions and terrain. Additional highlights include a comfortable lycra covered gel saddle, Ritchey Force stem, lightweight Araya VP-20 rims, and multi-purpose skinwall tires.





# KOKANEET



## **P**erformance and value tailored to your needs.

The Kokanee features a rugged sloping frame design with an oversize chromo-moly downtube for additional strength. Component highlights includes: Shimano 21-speed STI push button shift levers, a powerful Exage 500 seat-stay mounted rear U-brake (with booster), Bio-Pace Superglide front cranks for improved chainring shifting response, and Hyperglide freewheel cogs. A sleek chromo-moly stem, durable light alloy Araya rims, tough chromo-moly seatpost, and multi-purpose mountain tires represent additional key highlights on the 1990 Kokanee.



# BUSH PILOT



**H**

**i-tech features and function at an unbeatable price.**

Available in a men's or ladies' model, the Bush Pilots are packed with top-notch components. Note the durable sloping top-tube frame design with reinforced seat-collar, "Uni-trak" straight blade fork, and spell-binding new paint and graphic combinations. Additional merits include: Shimano Exage 200 21-speed SIS thumbshifters with Hyperglide freewheel cogs and smooth shifting Superglide front chainrings, dependable light action Shimano linear response brakes, comfortable textured mountain saddle, lightweight Araya rims, and grippy on/off road tires.





**C**risp shifting  
21-speed Hyperglide  
equipped.

The heart of the Mountaineer SL is its rugged hi-tensile frame and sleek long radius Uni-crown fork. The Hyperglide rear cogs increase shifting response and the low profile cantilever brakes assure you of reliable stopping power. Other key highlights include: a flat racing style handlebar, quality lightweight alloy rims and hubs, and a selection of dazzling new colours.



MOUNTAINEER SL



## MOUNTAINEER



**P**ractical price,  
dependable design.

The Mountaineer is available in a men's or ladies' model, and boasts a sturdy hi-tensile frame and Uni-Crown fork. Hassle free shifting performance is provided by Shimano 18-speed SIS shifters, and Hyperglide freewheel cogs. Responsive cantilever brakes with three finger levers, comfortable mid-rise handlebars, and soft touch Kraton grips represent additional key highlights.



**S**econd to none.

This durable 24" wheel mountain bike delivers performance features previously unavailable to this age group. Tough, light-weight Araya alloy rims with dual purpose tires, powerful rear U-brake with front cantilevers, and comfortable padded saddle are only a few of the Jammer's many features. The 18-speed Shimano Hyperglide gearing, and durable hi-tensile frame will provide years of trouble free enjoyment.



JAMMER

## MINI MOUNTAINEER



**R**ugged, dependable junior mountain bikes for boys and girls.

Eye catching cosmetics and top quality features make the minis a natural choice for younger cycling enthusiasts. Shimano 12-speed Hyperglide equipped. Sturdy hi-tensile frame with sloping toptube, sleek rear mono stay, and beefy straight blade fork. Reliable braking control provided by the combination of front cantilevers, and a chainstay mounted rear U-brake.



# CHEROKEE



**T**rouble free enjoyment for value conscious cyclists. The men's Cherokee utilizes a crisp, responsive 12-speed Hyperglide drivetrain, easy handling mid-rise handlebars, dependable alloy side-pull brakes with full length levers and versatile on/off road mountain tires. Available in an array of bright new colours.

# CHEROKEE

**S**tylish, practical bicycles ideal for recreational use.

In addition to the men's Cherokee we offer a ladies' and 24" wheel girl's model. Attractive colours, hassle free components, and an affordable price make these bikes truly unique. The full size ladies' model features 12-speed Hyperglide gearing, responsive side-pull brakes, and mid-rise handlebars. The girl's model shares many of the above features but is equipped with easy to use 6-speed Hyperglide gearing.







**A** natural choice for younger mountain bikers.

A quality Hi-tensile junior mountain bike available in a boy's or girl's model. Features include easy shifting Shimano 6-speed Hyperglide index gearing, safe and reliable light alloy side-pull brakes, double circular chainguard, comfortable padded saddle, rugged chrome plated rims, and multi purpose gumwall tires. The hot new colours and graphic combinations are bound to be a hit.

## MICRO MOUNTAINEER

**M**ulti-purpose, value packed fun.

Designed for road and light off-road use, the Hybrid Pro offers true versatility. This strong lugged chro-moly frame (3 main tubes) and fork assures you of lasting quality. 700 C alloy wheels and high volume 37 C tires smooth out the pot-holes. Riding comfort is enhanced by a lycra gel saddle. Suitable for touring, the Hybrid Pro comes stock with fender, rack, water bottle, and low rider braze-ons. Powered by Shimano 18-speed Hyperglide components.



HYBRID-PRO





# SPECIFICATIONS

Specifications	Rampage Prestige	Rampage	Sasquatch	Tuktoyaktuk	Pinnacle	Bigfoot	Kokanee
■ FRAME SIZES	18", 20.5".	16.5", 18", 20.5".	17", 18 3/4", 20.5", 22".	18", 20", 22".	16.5", 18", 20.5", 22".	17", 19", 21", 23".	18", 20", 22".
■ FRAME	Tange Prestige oversize chromoly with new outer butted reinforced seat collar.	Tange Japanese full chromoly light-weight tubings. Sloping top-tube design.(MTB dbl. butted.)	Tange Infinity double butted. Sloping top-tube design.	T-7000 series. Tig welded. Light alloy.	Tange chromoly raised chainstay design. (Three main tubes.)	Mono Trak design three tube chromoly. Oversize top-tube and down-tube.	Lugless mtm. frame with new sloping top-tube and Mono stay. Oversize chromoly down-tube.
■ REAR STAYS	Full chromoly. Fast Back style.	Full chromoly. Fast Back style.	Chromoly.	T-7000 alloy.	Hi-tensile. Raised chainstays.	Hi-tensile (Mono stay).	Hi-tensile (Mono stay).
■ FORK	Full chromoly. Straight bladed oversize.	Full chromoly long radius. Oversize.	Tange chromoly straight blade.	Full chromoly straight blade.	Tange chromoly straight blade.	Full chromoly Uni-Trak straight.	Hi-tensile Uni-Trak straight.
■ HEADSET	Shimano Deore XT.	Tange needle roller bearing sealed mech.	Tange sealed mech.	Chrome plated sealed mechanism. Black.	YST sealed mechanism. Black.	Chrome-plated mountain bike.	Chrome-plated steel.
■ HANDLEBARS	Tioga Prestige II.	Flat racing bar. SR chromoly.	Kusuki tapered flat bar.	Flat racing bar. Black chrome.	Flat racing style bar. Alloy.	5° bend flat bar.	Flat racing bar.
■ STEM	Tioga T-Bone chromoly.	SR chromoly "The Tube".	SR chromoly "The Tube".	Ritchey Force stem.	Ritchey Force chromoly.	Ritchey Force chromoly.	Chromoly drill hole type.
■ TAPE/GRIPS	Tioga Bio grips.	Tange racing grips.	Mid-length racing grips.	Kraton Hexagonal.	Ritchey "True" race grip.	Kraton Hex grips.	Kraton Hex grips.
■ SADDLE	Vetta Gel Turbo racing.	Vetta Gel Turbo racing.	Norco Gel ATB.	Norco Gel ATB.	Norco Gel ATB.	Norco Gel ATB.	Vetta anatomic vinyl.
■ SEAT POST	Deore XT chromoly. Black.	Deore XT chromoly. Black.	"The Pillar" 4130 chromo, black.	300mm chromoly. Black.	"The Pillar" 4130 chromoly.	"The Post" 4130 chromoly.	"The Post" 4130 chromoly.
■ SHIFT LEVERS	Deore XT 21-speed SIS. STI.	Deore XT 21-speed SIS. STI.	Suntour XCD X-press 21-speed.	Shimano Exage 400 STI, 21-spd.	Shimano Exage 500 STI, 21-spd.	Shimano 500 LX STI, 21-spd.	Shimano 200 21-speed STI.
■ FRONT DERAILLEUR	Shimano Deore XT.	Shimano Deore XT.	Suntour XCD.	Shimano Exage 400.	Shimano Exage 400 LX.	Shimano 300 LX.	Shimano 200 GS.
■ REAR DERAILLEUR	Shimano Deore XT 7-speed SIS.	Shimano Deore XT 7-speed SIS.	Suntour XCD 7-speed.	Shimano Exage 400.	Shimano Exage 400 LX.	Shimano 300 LX.	Shimano 200 GS.
■ FREEWHEEL	Shimano 13-28T 7-speed cassette. Hyperglide.	Shimano 13-28T 7-speed cassette. Hyperglide.	Suntour XCD 13-30T 7-speed snap cassette. A-Plus.	Shimano 13-30T 7-speed. Hyperglide.	Shimano 7-spd 13-30T Hyperglide.	Shimano 7-spd. 13-30T Hyperglide.	Shimano 13-30T cassette. Hyperglide.
■ CRANK SET	Full Deore XT with 24/36/46T. Round rings. 170mm or 175mm. Superglide spacing.	Full Deore XT with 24/36/46T. Round rings. 170mm or 175mm. Superglide spacing.	170/175mm XCD 6000 28-38-46T round light-alloy cranks. Sealed mech B.B.	Shimano Exage 400 28/38/48T triple. Black Bio-Pace rings. 170mm or 175mm.	Shimano Exage 400 LX light alloy 28-36-48T black Bio-Pace Superglide rings.	Shimano Exage 300 LX light alloy. 170 or 175mm 28-38-48T. Black. Superglide Bio-Pace.	Shimano Exage 200. 28-38-48T. Bio-Pace Superglide. 175mm light alloy.
■ BRAKE CALIPERS	Shimano Deore XT cantilevers front and rear. Stainless tube cable routing.	Shimano Deore XT cantilevers with rear U-brake (seatstay mount).	Suntour XCE front cantilever and rear U-brake. (Seatstay mounted.)	Shimano Exage 500 cantilevers.	Shimano 500 LX front cantilevers with rear U-brake.	Shimano 300 front cantis. U-brake on 17/19". (Seatstay mount)	Shimano Exage 200 front cantis. 500 U-brake seatstay mount.
■ BRAKE LEVERS	Deore XT 2-finger, deluxe mtm. cables. STI combo type.	Deore XT 2-finger with deluxe mtm. cables. STI combo type.	Suntour XCD mountain levers. Combo type.	Shimano Exage STI combo type. Full length.	Shimano 500 LX STI combo full length levers.	Exage 300 STI full length combo type.	Shimano 200 SLR mountain levers.
■ PEDALS	Shimano Deore XT with clips.	Shimano Deore XT regular cage.	Suntour XCD racing.	Shimano Low Profile.	Low Profile racing.	New plastic mountain.	Plastic mountain pedals with reflector.
■ CHAIN	Deore XT narrow. Hyperglide.	Deore XT narrow. Hyperglide.	Suntour XCD narrow index.	1/2 x 3/32" Hyperglide.	1/2 x 3/32" Hyperglide.	1/2 x 3/32" Hyperglide.	1/2" x 3/32" Hyperglide.
■ HUBS	Shimano Deore XT quick-release hub set. 7-speed cassette rear. 32 hole.	Shimano Deore XT quick-release hub set. 7-speed cassette rear. 32 hole.	Suntour XCD 6000 with quick release. Rear 7-speed cassette.	Shimano sealed mech small flange. Front quick release.	Shimano Exage 500 light alloy. Both are quick release.	Shimano 300 LX light alloy. Rear 7-speed cassette.	Shimano light alloy. Front quick release. Rear 7-speed cassette.
■ SPOKES	Stainless Steel.	Stainless Steel	14G with brass nipples.	14G with 5/8" brass nipples.	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.
■ RIMS	Araya RM-14 super hard anodized.	Araya RM-17 super hard anodized.	Araya RX-7 26 x 1.50 light alloy.	Araya 26 x 1.5 RX-7. Anodized.	Araya VP-20 light alloy anodized.	Araya VP-20 light alloy anodized.	Araya VP-20 light alloy anodized.
■ TIRES	Tioga Farmer John's Cousin.	Panaracer 26 x 2.0 Khartoum.	Panaracer 26 x 2.0 Khartoum.	Ritchey Quad 26 x 1.9.	26 x 1.9 Skinwall on/off mountain .	26 x 1.9 Skinwall on/off mountain tires.	26 x 1.90 on/off skinwall mountain tires.
■ WEIGHT	29 lbs.	29.5 lbs.	30 lbs.	29.5 lbs.	30 lbs.	31.5 lbs.	32 lbs.
■ COLOUR	Shiny Black with Day-glow Pink trim.	Euro Red/Black trim; Day-glow Green/Yellow/Pink.	Grey/Day-glow Pink with Smoke; Pearl White/Shiny Black trim.	Silver/Black trim; Black/Purple/Lilac trim.	Fuschia/White/Black; White; D.G. Yellow/Black/D.G. Pink.	Black/D.G. Pink; White/Euro Red; Black/Purple Splash.	Blue/D.G. Yellow; Red/Yellow; Black/D.G. Green (Splash & Fade).
■ MISCELLANEOUS	Full braze-ons and reflector set. "Snake" extra long fabric toe straps. Paints clear coated.	Full braze-ons and reflector set. Shimano Shark Fin. Paints clear coated.	Full braze-ons and reflectors. Paints clear coated.	Complete with 2 sets of H2O bosses and reflectors.	Double H2O mounts, pump peg, and carrier boss braze-ons with reflectors.	Complete with full complement of braze-ons and reflectors.	Complete with H <sub>2</sub> O braze-ons and reflectors.



# SPECIFICATIONS

Specifications	Bush Pilot	Mountaineer / SL	Jammer	Mini Mountaineer	Cherokee	Micro Mountaineer	Multi-Sport Hybrid
■ FRAME SIZES	M: 15", 17", 19", 21", 23". L: 17.5", 20".	M: 17", 19", 21", 23". L: 17.5", 20".	15.5" Boys'.	15.5" Boys' and Girls'.	M: 18", 20", 22", L: 18", 20". G: 16".	10" Boys' and Girls'.	19", 21", 23".
■ FRAME	Lugless Hi-tensile mountain frame. Sloping top-tube, Mono stay design. Men's or Ladies'.	Lugless Hi-tensile mountain bike frame. Ladies' model available in SIS only.	Lugless Hi-tensile Mini mountain frames. Sloping top-tube and Mono stay design.	Lugless Hi-tensile Mini mountain frames. Available in girls' or boys' frame geometry.	Lugless Hi-tensile semi mtn. frame. Also available in smaller girls' frame.	Lugless Hi-tensile micro mountain frames. Available in girls' and boys' frame geometry.	Tri-moly fully lugged touring style frame.
■ REAR STAYS	Hi-tensile. (Mono stay).	Hi-tensile, Ladies'; 3 stays.	Hi-tensile. (Mono stay).	Hi-tensile. (Mono stay).	Hi-tensile.	Hi-tensile.	Oversize Hi-tensile.
■ FORK	Hi-tensile Uni-Trak straight.	Hi-tensile. Long radius.	Unicrown straight blade.	Unicrown straight blade.	Hi-tensile.	Unicrown Hi-tensile. Long radius.	Hybrid chro-moly.
■ HEADSET	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Touring style sealed mechanism top nut.
■ HANDLEBARS	Flat race bar. Painted.	SL: Flat race. Reg: Mid rise.	Flat bar. Painted.	Flat racing bar.	Mid-rise mountain style.	Flat racing bar.	Flat racing bar.
■ STEM	One-piece bar/stem combo. Drill hole type.	Drill hole mountain stem.	Drill hole mountain stem.	Drill hole mountain stem.	Chrome-plated stem.	Mid-rise mountain stem.	Light alloy mountain type.
■ TAPE/GRIPS	Kraton Hex grips.	Black mountain grips.	Black mountain grips.	Black mountain grips.	Black mountain grips.	Black mountain grips.	Soft Kraton.
■ SADDLE	Norco anatomic vinyl pigskin.	Anatom. mtn. saddle with spring.	Anatomic design (vinyl).	Anatomic design (vinyl).	Anatomic wide mountain saddle.	Anatomic design (vinyl).	Norco Gel Touring.
■ SEAT POST	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	Chrome-plated steel.	SR light alloy.
■ SHIFT LEVERS	Shimano 200 21-speed thumb-shifters.	SL: 21-speed. SIS. Reg: 18-speed. SIS.	Shimano 18-speed SIS.	Shimano 12-speed SIS.	Shimano 12-speed SIS.	Shimano 6-speed SIS.	Shimano MY-20 18-speed.
■ FRONT DERAILLEUR	Shimano Exage 200.	Shimano FD-TY-25 GS.	Shimano long cage mtn changer.	Shimano FD-TY-20.	Shimano long cage mtn. changer.	N/A	Shimano TY-25.
■ REAR DERAILLEUR	Shimano Exage 200.	Shimano RD-R552GS.	Shimano RD-TY-20 GS.	Shimano RD-TY-20 GS.	Shimano RD-TY-20 GS.	Shimano RD-TY-20.	Shimano TY-20 GS.
■ FREEWHEEL	Shimano 7-spd. Hyperglide cassette 13-30T.	Shimano 14-28T 6 or 7-speed.	14-28T 6-speed Hyperglide.	14-28T 6-speed Hyperglide.	14-28T 6-speed Hyperglide.	14-28T 6-speed SIS. Hyperglide.	Shimano 6-speed. Hyperglide. 14-28T.
■ CRANK SET	Shimano Exage 200. 28-38-48T. Bio-Pace steel rings. 175mm light alloy with interchangeable rings.	170mm cotterless steel triple. 28-38-48T with plastic chain guard.	165mm steel cotterless crank. Triple 28-36-44T rings w/guard.	165mm steel cotterless crank. 36-44T rings with guard.	Cotterless steel 170mm with 40-48T rings. (Chrome-plated). With circular chain guard.	5-1/2" steel cotterless one-piece crank. 42T chrome-plated ring with guard.	Shimano Exage 200 with 28-38-48T Bio-Pace rings.
■ BRAKE CALIPERS	Shimano Exage 200 cantilevers. Rear U-brake on 15-17-19".	Lee Chi Black cantilever brake. U-brake 17".	Lee Chi Black cantilever style. Rear U-brake.	Lee Chi Black cantilever front. Rear steel/resin U-brake.	Chang Star 900 light alloy side-pull.	Chang Star light alloy side-pull. With quick release.	Shimano 200 cantilevers front and rear.
■ BRAKE LEVERS	Shimano Exage 200.	Lee Chi Black light alloy 3-finger levers.	Lee Chi 3-finger light alloy mountain levers. (Black).	Lee Chi 3-finger light alloy mountain levers. (Black).	Chang Star light alloy levers.	Light alloy mountain levers.	Shimano 200 regular length mountain levers.
■ PEDALS	Black mountain pedals with reflectors.	Plastic mountain pedals with reflectors.	Plastic mountain pedals with reflectors.	Plastic mountain pedals.	Plastic mountain pedals.	Plastic mountain pedals.	Low Profile.
■ CHAIN	1/2" x 3/32" Hyperglide.	1/2" x 3/32" Hyperglide.	1/2" x 3/32" Hyperglide.	1/2" x 3/32" Hyperglide.	1/2" x 3/32" Hyperglide.	1/2 x 3/32" Hyperglide.	1/2 x 3/32" Hyperglide.
■ HUBS	Shimano light alloy. Front quick release. Rear 7-speed cassette.	Steel (Chrome-plated). Sealed mechanism. SL: 7-spd. csst.	36 Hole chrome-plated steel. Sealed mechanism.	36 Hole chrome-plated steel. Sealed mechanism.	Chrome-plated steel (36H). Sealed mechanism.	36 Hole chrome-plated steel.	Joy You sealed mechanism light alloy. Front quick release.
■ SPOKES	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.	14G with brass nipples.
■ RIMS	Araya MP-22 anodized.	Mountaineer; steel. Mountaineer SL: alloy.	24 x 1.50 light-alloy.	24 x 1.5 chrome-plated steel.	CMC 26 x 1.5" steel.	20 x 1.75 chrome-plated steel.	Araya SP-30 700C alloy.
■ TIRES	26 x 1.9 on/off gumwall.	26 x 1.9 on/off gumwall.	24 x 1.9 on/off road mountain.	24 x 1.9 on/off road mountain.	26 x 1.9 on/off road skinwall.	20 x 1.75 Knobby.	700 x 37C skinside Hybrid.
■ WEIGHT	Men's: 32 lbs., Ladies': 33 lbs.	M: 35 lbs., L: 35.5 lbs., SL: 34 lbs.	30.5 lbs.	Boys'/Girls' 31.5 lbs.	35 lbs.	29.5 lbs.	29.5 lbs.
■ COLOUR	M: Wht/3-tone splash; Wht/D.G. Pink & Blue Cloud; Blue; Black. L: Fuschia/D.G. Pink; Blk Rose Splash; Wht/Lilac Splash.	SL: Blue/Sky Blue; Black/D.G. Grn; Euro Red. Reg. M: Black/Aqua; Blue/D.G. Grn; White. Reg. L: Teal/D.G. Yell; White.	White/D.G. Pink/Electric Blue; Black/D.G. Green Splatter and Fade.	Boys': Blu/D.G. Grn, Blk/D.G. Yel; Teal/D.G. Yel Splatter. Girls': Fuschia/Pink; Teal/ D.G. Pink Splatter.	Men's: Black/D.G. Pink; White/Euro Red; Electric Blue one-tone. L: Black/D.G. Pink; Drk Pink Pastel Pink.	Boys': Wht/Elec Blue; Blk/D.G. Yellow splatter. Girls': Fuschia/D.G. Pink; Wht/Lilac Splatter.	Black/3-tone Splash; Silver/Midnight Blue.
■ MISCELLANEOUS	Both bikes come with braze-on cable guides, stops and reflectors.	Braze-on cable guides and stops with reflectors.	Complete with cable guide, cable stop braze-ons and reflectors.	Complete with cable guide, cable stop braze-ons and reflectors.	Braze-on cable guides, cable stoppers and reflectors. NOTE: Girls' is 6-speed Hyperglide.	Complete with cable guide, cable stop braze-ons and reflectors.	H <sub>2</sub> O fitting, full rack and fender eyelets. With reflectors.



# WARRANTY

## LIMITED LIFETIME WARRANTY

**NORCO PRODUCTS LTD. (hereinafter called NORCO)** warrants the replacement or repair of any original part due to defect in material and/or workmanship for the period of one year from date of purchase. Such purchase must be documented by original sales slip or other proof of purchase by original owner. This warranty shall continue in full force and effect for the first year of the original ownership following the date of purchase. • **NORCO** at its sole discretion, will replace or repair without charge, any original part that is determined by **NORCO** to be defective under the terms of this warranty. However, transportation and dealer labour charges are not covered hereunder. • Failure due to accident, abuse, neglect, normal wear, stunt riding, commercial use, rental use, dirt riding, improper assembly, improper fit, maintenance and/or assembly by any other than an authorized **NORCO** dealer, or use of parts inconsistent with the use originally intended for the bicycle as sold are not covered by this warranty. • This warranty does not apply when the bicycle is used in any competitive event, or when used for training for such competitive events. • Due to the nature of the sport, mountain biking may induce accelerated wear on the frame and components when used for off-road purposes, and the resulting wear will not be considered warranty. • There are no other warranties or guarantees, expressed or implied, made by **NORCO** of this bicycle. The exclusive liability of **NORCO** and/or any of its authorized dealers, affiliates or agents pursuant to this warranty shall be for the replacement or repair of the defective part, and incidental or consequential damages are expressly excluded hereunder.

**LIMITED LIFETIME FRAME WARRANTY:** Due to superior quality control and design, **NORCO** warrants the frame against defects in materials and/or workmanship, pursuant to the terms and conditions outlined above, for the duration of the original ownership following the date of purchase.

## NOTES:

- Front fork is not considered part of the frame and the limited lifetime frame warranty does not apply.
- In no event shall **NORCO**, its agents or dealers be liable to the purchasers of its bicycles, or to third parties for any incidental damage, consequential damage, or personal injury, due to its use.
- All warranty inquiries should be made through an authorized **NORCO**, **NISHIKI**, or **FIORI** dealer.
- Day Glow paints will fade more rapidly than regular colours when exposed to ultra-violet light. Due to properties inherent in day-glow paint pigments, colour fading will not be covered by this warranty.
- Specifications are subject to change without notice. Actual colours may differ from pictures shown. Weights are approximate.
- Due to the dangers inherent with the sport of cycling **NORCO PRODUCTS LTD.** urges the consumers and dealers using our bicycles (and equipment) to wear, and use proper safety equipment (including certified helmet, reflective clothing, bicycle reflectors, gloves, front cantilever cross-over cable safety hanger, and other appropriate safety gear) during any riding session.
- All **NORCO**, **NISHIKI** and **FIORI** bicycles (excluding 12" and 16" sidewalk bikes) are supplied with C.P.S.C. approved reflectors.

## YOUR AUTHORIZED NORCO DEALER



### PHOTOGRAPHY ENTHUSIASTS

We would like to see your photographs in our brochures and welcome any cycling oriented pictures depicting products distributed by Norco. Please send photographs to our Vancouver address (shown below) attention: Advertising Department. In the event your print (& negative), 35 mm slide, or transparency is selected, you will receive \$200 (retail value) of **NORCO** products. Photographs not selected will be returned.

**Vancouver**  
7950 Enterprise St.  
Burnaby, B.C. V5A 1V7

**Winnipeg**  
Unit #10 - 1832 King Edward St.  
Winnipeg, Man. R2R 0N1

**Toronto**  
321 Hanlan Road  
Woodbridge, Ont. L4L 3R7

**Montréal**  
135 Boulevard de Mortagne  
Boucherville, Qué. J4B 6G4

**NORCO PRODUCTS LTD.**  
**100% CANADIAN OWNED**

