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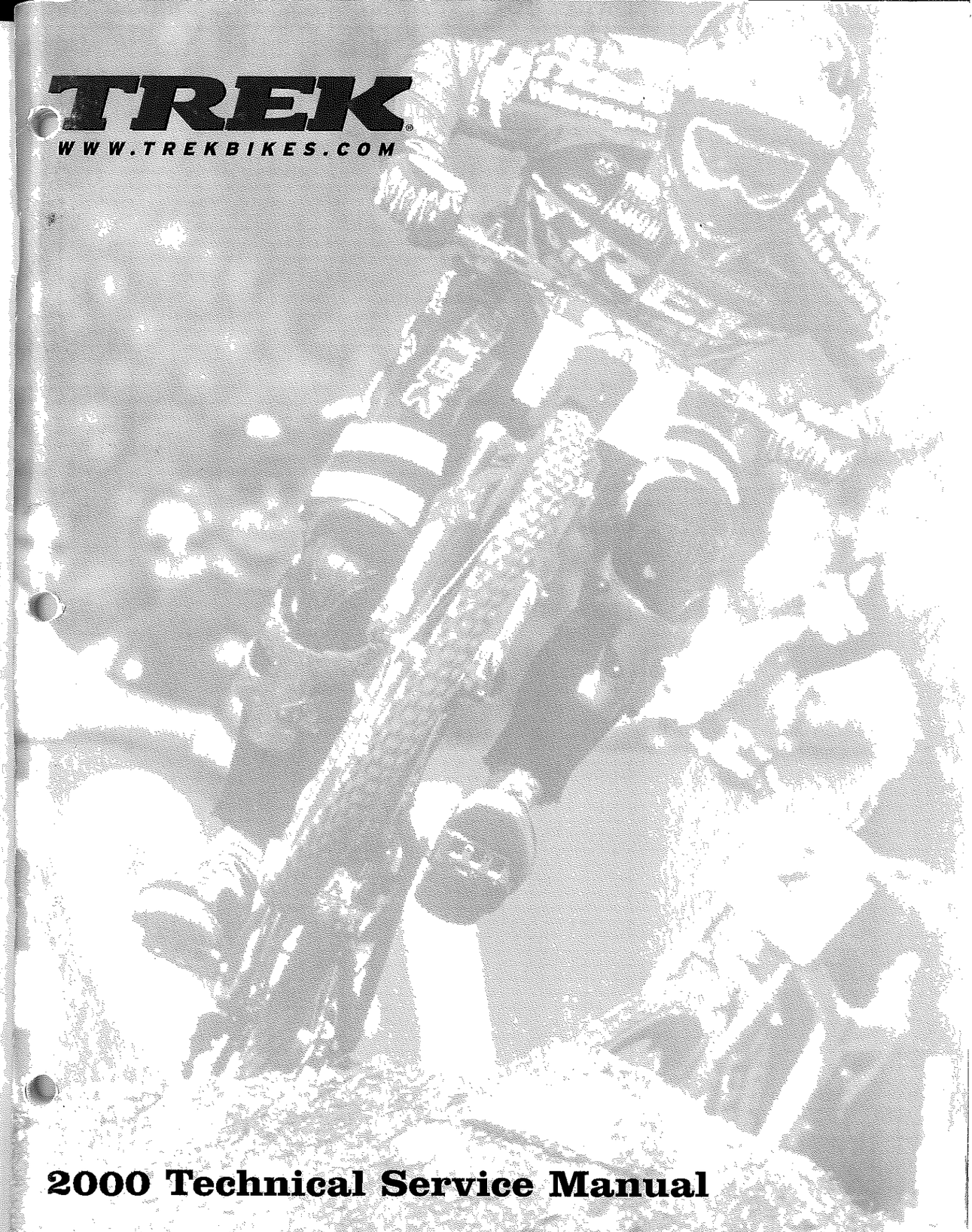

2000 Technical Service Manual

Contents

A Note About the Specs...

At the time of printing, these specs were as accurate as possible. But like it says in the catalog:

"Trek bicycles are equipped with components from sources worldwide. Specifications are subject to change without notice".

So if we changed a bike's headset for some reason, the steerer length listed may be incorrect. The information in these pages is not intended to replace good mechanical skills and practices, just to help good mechanics do their job.

A further note concerning bike weights: Each year we are faced with the request for full bike weights in our specifications. We do our best, but its important to realize that these weights come from show bikes. Many of our suppliers have not built the production pieces we will be using when we produce the real bikes, so we are forced to use mockups or a supplier's estimate of the weight of the real parts.

Congratulations, Lance!

"Welcome to Trek Bicycle, the home of the 1999 Tour de France champion, Lance Armstrong, and the U.S. Postal Team."

Yes, we're very proud of Lance and the Postal team. And understandably so. They had an incredible race, showing all the best traits of great sportsmen. The team was dedicated and unselfish in support of Lance. They had many great results, despite riding totally in support of the yellow jersey. And Lance showed himself to be a great champion both on and off the bike.

Speaking of bikes....we're equally prond of our Trek 5500s. The 5500 may be the only bike in the peloton that can be purchased in your store.

Yes, its true that the Postal team rode stock Trek 5500 framesets. The Postal team bikes were not custom bnilt, nor were they specially handled. They were picked and shipped from the Trek warehonse as if your store had ordered them and they were being sent to your shop.

No, not all the Postal bikes were stock. We hand-built most of the teams custom time-trial bikes, and Lance resorted to an old familiar time-trial frame he was comfortable with.

The only other exception was Tyler Hamilton, who rode a prototype road bike in the Tour. After all, what better place than the Tour to race-test our future developments?

What did the team think of riding stock bikes?

Well, for one thing they were on some of the lightest bikes in the peloton. With legendary OCLV climbing performance, long-distance comfort, and superior handling. On the Tourmalet, Lance showed the Trek 5500 can go uphill. George showed the 5500 can sprint.

And the whole team finished on the same frames they started on, showing both the comfort and durability of the Trek 5500.

OCLV durability made the mechanics happy, but there's more reasons the mechanics love using stock frames.

Lets look at what a bike company goes through to provide custom frames. When a maker's stock frames aren't up to the task, neither the standard tubing nor their everyday manufacturing can be used if higher performance is the goal. Special-order tubesets are used, and special race-room technicians aud facilities are called on to build these one-offs.

Then the team mechanics must either drag along duplicates for every team member, or a frame-damaging crash creates a huge fire drill where a complete painted frame has to be made and delivered to a mechanic who has to then assemble it, all in a very rushed manner.

Fortunately, for the Postal team we don't have to build 'better' bikes than we sell to you. Our stock Trek 5500 framesets deliver the performance needed to win the Tour. And we have proof!

Your customer (or you!) can buy the exact same frameset as ridden to victory down the Champs d'Elysee by Lance himself.

Its possible there were other prodnction bikes ridden in the Tour, but only Trek was first in Paris. Way to go, Lance!

ICON

ICON is a complete line of premium bicycle components. Driven by advanced technology, ICON components are specifically engineered from the ground up to fulfill the requirements of the serious cyclist.

Don't let the magazines' derogatory labeling of "house brand" fool you. Just because something is made (or merely labeled) by an aftermarket company does not make it better. How extensively do you think one of these little companies test their products? We are very thorough in design and testing of all ICON parts. If stronger, lighter, and better fitting parts are important, choose ICON.

Every detail of an ICON component's design is carefully scrutinized by a team of engineers to maximize strength and fnnction, while minimizing weight. As an example, the inner walls of the bar ends, stems and handlebars are butted to shave weight. At the same time careful concentration of material adds durability in key stress areas.

Many ICON components are formed from a proprietary one-piece, cold forging that leaves no welds to break or bonds to fail. This forging leaves grain alignment that is always placed in the direction that will yield the most support. This makes ICON parts over 40% stronger than conventional forgings.

With conventional forging, extensive machining may be required to attain the part's final shape. Like with a CNC'd part, as the machining chisels away material it leaves thousands of tiny stress risers. The ICON forging process gives a very clean final shape with little or no additional machining necessary, further enhancing strength and fatigue resistance.

Fatigue life is increased on the surface as well, using a proprietary finishing process developed by the aerospace industry. A final touch of elegance is added with laser-etched logos which augment the sleek look and are less susceptible to wear than decals or paint.

Because the ICON forging process eliminates extra material, ICON parts are very light with the highest strength-to-weight ratio possible. Still, all ICON products are fully tested for fatigue, energy absorption and impact, so we know they will withstand the stresses of hard riding. As insurance of this quality, all products have a visible date code so that each can be traced to exactly when and where it was produced.

For year 2000, ICON components have been grouped into levels as a naming standard.

Obsidian series

Crankset *(new)*

Same arms, small ring and middle ring as the Onyx (see below), but with a steel 44T big chainring. Still 9 speed. Steel 22and 32t rings provide flawless shifting and additional durability. Steel chainring bolts. Standard crank attachment bolt.

44/32/22 rings, 9 speed compatible, JIS taper

170 and 175 arms

Onyx series

Bar ends *(Formerly Fatty McGee)*

An oversized 28.6mm grip tube distributes pressure over a wider area of your hand to increase comfort. Low profile clamp eliminates protruding bolts which can damage the bike frame. ICON proprietary forging process for strength.

139 grams per pair.

ATB handlebars *(Formerly Matador)*

ICON design in butted 6061 T6 construction.

580mm width 182 grams

25.4mm bar clamp diameter

ATB Riser Bars *(Formerly Crevasse)*

Like the Graphite ATB Riser bars, but in butted 6061 alloy.

620mm width, 7° bend, 30mm rise 276 grams

25.4mm bar clamp diameter

Road Bars *(Formerly Swoop Ergo)*

Instead of the traditional curved shape, the Onyx road bars have a flat, ergo drop for a natural, more comfortable feel. The special bend also makes dual control levers easier to reach and operate. Stiffer for big riders or sprinters. 6061 alloy, bulged center.

Widths: 38, 40, 42, 44, 46cm, center to center

284 grams in 42cm width

26.0mm bar clamp diameter

ATB Stem *(Formerly Phifteen)*

This direct-connect stem features a removable face plate for easy stem changes.

15° rise, 75, 90, 105, 120, 135mm lengths.

Steerer clamp diameter 28.6mm, height 41.0mm.

194 grams in 135mm length

Bar clamp diameter 25.4mm

Seatpost *(Formerly Moses)*

One-piece forged post of 6061. Differential wall thickness (the sides are thinner than the front and rear) for increased strength and lower weight. Single bolt saddle clamp for easy adjustment. Full ICON treatment of surface treatments and pad printed logo.

250, 300, 350mm lengths, 27.2, 31.6mm diameter.

220 grams in 250mm, 27.2 diameter

Crankset *(Formerly Flywheel)*

Same arms and big ring as the Graphite crankset. Steel 22and 32t rings provide flawless shifting and additional durability. Steel chainring bolts. Standard crank attachment bolt.

44/32/22 rings, 9 speed compatible, JIS taper

170 and 175 arms

754 grams in 175mm with rings and bolts

Graphite series

Bar ends *(Formerly Maggie)*

The wide surface at the upper surface of the ergonomic grip tube distributes pressure over a wider area of your hand to increase comfort. The smaller diameter underneath allows more powerful pull. Low profile clamp eliminates protruding bolts which can damage the bike frame. ICON proprietary forging process for strength without welding, bonding, grinding, or other machining.

99 grams per pair, short bend

109 grams per pair, ski bend

ATB Handlebars *(Formerly Ernie)*

The 2014 aluminum of the Graphite series is stronger than 6061 T6. By using this high-end alloy with a design that also uses 7° bends for more wrist comfort, butted ends for strength where bar ends clamp, and ICON fatigue-resistant finish

580mm width, 149 grams

25.4mm bar clamp diameter

Road Bars *(Formerly Stash Ergo)*

Like the Onyx road bar, this is a very comfortable ergonomic bend that better fits the hands. The Graphite series road bar is made from premium 7075 alloy to reduce weight without sacrificing strength.

Widths: 38, 40, 42, 44, 46cm, center to center

254 grams in 42cm width

26.0mm bar clamp diameter

ATB Riser Handlebars *(Formerly Diesel)*

The multiple bends of downhill bars leave less room for controls and hand space. Instead of making the bars wider, and consequentially heavier, ICON shrunk the center section to give hands more real estate with a minimal weight gain. Butted 2014 alloy.

620mm width, 7° bend, 30mm rise 272 grams

620mm width, 7° bend, 50mm rise 280 grams

25.4mm bar clamp diameter

ATB Direct Connect Stem *(Formerly Durante)*

This direct-connect type stem is extremely light, even with a removable face plate for easy stem changes.

0° and 7° rises, 90, 105, 120, 135, 150mm lengths.

Steerer clamp diameter 28.6mm, height 39.5mm

176 grams in 135mm length

Bar clamp diameter 25.4mm

Road Quill Stem *(Formerly Bordeaux)*

The Graphite quill stem brings to the road stem the engineering and user-friendly features for which ICON is known. A completely redesigned handlebar clamp utilizes a removable front face plate for easy handlebar switches. Add this to the laser etched logo, proprietary surface treatment and super-light hardware, and you get a road stem that is strong, stiff and elegantly simple.

0°, -17° rises, 60, 70, 80, 90, 100, 110, 120, 130, 140mm lengths

22.2mm insertion, 26.0mm bar clamp diameter

190 grams in 60mm length

Road Direct Connect Stem *(Formerly Havanna)*

The direct-connect Graphite road stem shares the same new road-specific handlebar clamp as the Graphite quill. The steerer clamp and extension are a continuous piece of 6061 T6 aluminum forged hollow to give longitudinal grain alignment, minimal wall thickness, and no need for a rear weld. The result is an incredibly light and strong road stem with all of the standard ICON touches like proprietary surface finish and laser etched logos.

0° rise, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140mm lengths

25.4mm steerer clamp, 39.5mm steerer clamp height, 26.0mm bar clamp diameter

146 grams in 80mm length

Seatpost *(Formerly Oz)*

Same construction as the Onyx seatpost, but lighter with 2014 alloy. Laser etched logo.

250, 300, 350, and 400mm lengths, 27.2 and 31.6mm diameter.

189 grams in 250mm, 27.2 diameter

Crankset *(Formerly Crankshaft)*

Same arms and 3 anodized alloy rings. Steel chainring bolts. Standard crank attachment bolt.

44/32/22 rings, 9 speed compatible, JIS taper

170 and 175mm arms

705 grams in 175 arms with rings, chainring bolts

Sterling series

ATB Handlebars *(Formerly Crushed Velvet)*

Constructed from thermoset carbon fiber, the Sterling's butted profile is thin where material is not needed, yet bolstered at the stem clamp and near the ends which eliminates the need for B.E.R.T.s (Bar End Reinforcement Thing). **Do not cut Crushed Velvet handlebars to a narrower width.**

The seven degree sweep puts hands in a natural angle for a comfortable, relaxed feel.

580mm width, 127 grams

25.4mm bar clamp diameter

ATB Direct Connect Stem *(new)*

Like the Graphite direct connect stem, but even lighter by eliminating the removable face plate and some strategic material removal.

0° and 7° rises, 90, 105, 120, 135, 150mm lengths

Steerer clamp diameter 28.6mm, height 39.5mm

Bar clamp diameter 25.4mm

Road Direct Connect Stem *(new)*

Like the Graphite direct connect road stem, but even lighter by eliminating the removable face plate and some strategic material removal.

0° rise, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140mm lengths

25.4mm steerer clamp, 39.5mm steerer clamp height, 26.0mm bar clamp diameter

25.4mm steerer clamp, 39.5mm steerer clamp height, 26.0mm bar clamp diameter

Crankset *(Formerly Tork)*

The top of the line Sterling mountain bike crankarms are cold-forged 6061 aluminum for optimal strength and then precision-machined to exacting tolerances. The crank taper is CNC'd rather than broached to ensure a perfect chainline. ICON cranks are designed to be used with a 113mm Shimano bottom bracket spindle.

The electroless-nickel plated 7075 alloy chainrings wear longer than anodized aluminum rings, and the hard coating greatly improves shifting performance. The proprietary surface treatment enhances fatigue life. Add in alloy chainring bolts and the JuJu extractor bolts to get one of the strongest, lightest cranks with an ultra-low Q-factor!

44/32/22 rings, 9 speed compatible, JIS taper

4 arm design, 64/104mm PCD

170, 175 and 180mm arms

690 grams with 175mm arms, rings, bolts, and JuJu

Misc. ICON parts

De La Sole Clipless Pedal

This new single-sided road pedal shows many of the ICON hallmarks. Minimalist design for ultra light rotating weight and great cornering clearance. SPD-style cleat attachment makes it compatible with virtually every shoe on the market. Plus, the ICON cleats have 6 degrees of float to make them knee friendly.

9/16" pedal spindle

270 grams per pair

Solemate Clipless Pedal

This double-sided ATB pedal uses SPD-style cleats on an ICON designed pedal body. This yields 4° of float. The special body design offers wider shoe contact for increased foot stability. This is especially beneficial when using anything other than top of the line shoes, where the soles are slightly more compliant. The extra support lets the rider put more power into the pedals, and balance better on descents.

Open ball bearings for long bearing life. Double sided adjustment for release tension.

9/16" pedal spindle, 380 grams per pair

Stronghold ATB handlebars

Still high quality 6061 T6 aluminum, but plain gauge.

580mm width, 220 grams

25.4mm bar clamp diameter

ICON Sleeve Ergo Road Bars

Instead of the traditional curved shape, ICON road bars have a flat, ergo drop for a natural, more comfortable feel. The special bend also makes dual control levers easier to reach and operate. 6061 alloy. Sleeved center.

Widths: 38, 40, 42, 44, 46cm, center to center

410 grams in 46cm width

26.0mm bar clamp diameter

Carbon Classic Fork

OCLV carbon composite fork with forged aluminum crown and fork tips, Cro-Moly steerer. The Classic is one of the most comfortable forks on the market, especially well suited for long distance rides, or lighter riders (that's why we made a special 650c version for the WSD road bikes).

Wheel size 700c and 650c

1" headset, threaded or unthreaded

Size specific offsets of 38, 43, and 47mm.

450 grams

Air Rail Fork

OCLV carbon composite fork with forged aluminum crown and fork tips, Cro-Moly steerer. The Air Rail is stiffer to resist lateral flex and splay (forward/rearward flex). Although stiffer than the Carbon Classic, the Air Rail's OCLV construction is still more comfortable than most steel or aluminum forks. Excellent fork for heavier riders, or riders wanting crisper handling and rock-solid feel when out of the saddle on hard sprints or climbs.

Requires special long brake nut #950112

Wheel size 700c

1" headset, threaded or unthreaded

Size specific offsets of 43 and 47mm

540 grams

Contents:

These instructions are to be used as a guide in the maintenance, repair, or rebuilding of a Rolf wheel.

These instructions are intended to be used only by an experienced wheel builder.

Rolf wheel technology advances the state of spoked wheels. Rolf wheels are strong, lightweight, fatigue resistant, and low maintenance.

Rolf wheels are also field serviceable. However, Rolf wheels require great care and precision in their building. While simple maintenance on a Rolf wheel is sometimes easier than working on a conventional wheel, only a skilled and experienced wheel builder should attempt to field-build a Rolf wheel.

Before attempting any Rolf wheel maintenance, you should read the appropriate sections of this manual in its entirety, and watch the Rolf video. Make sure you fully understand this manual and that you have the required tools before proceeding.

Tool List

These recommended tools will improve the quality of your repair or rebuild:

Part Number	
59603	Standard spoke wrench
59607	Wrench Force Rolf spoke wrench (for Vector Pro only)
	Wheel truing stand
	Wheel dishing tool
70047	Tension gauge
70042	Rolf stressor
	Spoke holder
59932	Wrench Force chain lube
70046	Loctite® 242
	Small mallet
	Nylon rod or wood dowel
59757	Torque wrench, 3/8" drive, lb•in units with a range including 105 lb•in
70043	Dial runout indicators
70044	Rolf training video

Truing a Rolf Wheel

Comparing Rolf wheels to traditional designs

In many respects, truing Rolf wheels is just like truing a traditionally spoked wheel. Each spoke has both a vertical and lateral component to its pulling force. As you tighten a spoke, it pulls the rim radially in towards the hub, and laterally out towards the hub flange. The difference is that on a Rolf wheel, the lateral force is directly opposed by each spoke in a given pair.

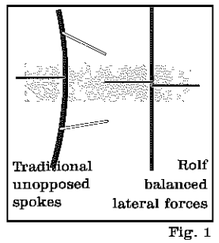

Fig. 1

Contrast that to a traditionally spoked wheel where each spoke has two neighboring spokes so each section of rim is essentially controlled through three spokes. As yon tighten one spoke, it is like trying to bend the rim between the two remaining spokes. A wave of distortion is passed by each partner, and affects the third spokes out on the rim as well. This is why over-tightening a traditionally spoked wheel will eventually lead to rim failure, commonly known as the potato chip.

When truing Rolf wheels, the paired spoke design gives you more control over both vertical and lateral rim deviations. If the rim is slightly out of true but very round, you can loosen one spoke, and tighten the other, in the pair closest to the rim deviation (Fig. 2). The rim moves laterally, but not up or down. Since no other spokes are directly affected, you're done. To move the rim down and to the side, you can tighten just one spoke (Fig. 3).

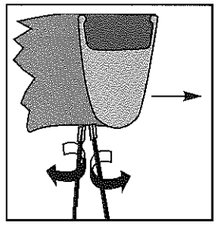
Fig. 2

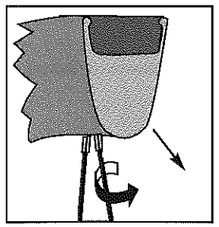
Fig. 3

With a traditionally spoked wheel with a lateral deviation and no hop, you tighten one spoke, loosen two, and tighten both of the third spokes slightly to balance the tensions. Five spokes are needed to correct a slight deviation.

Vertical deviations

If a wheel is true laterally, but out of round, its easy to fix with Rolf paired spokes. To move the rim towards the hub, equally tighten both members of a pair (Fig. 4).

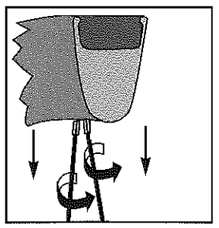
Fig. 4

Wheels built in our factory conform to a maximum vertical deviation of 0.4mm (0.015 inches). A 23c tire with 120 PSI will exhibit more out-of-roundness than this.

With an egg-shaped wheel where 0.3mm height change occurs over 1/2 of the wheel rotation, the out-of-roundness may be invisible with a normal truing stand.

With Vector Pros, the same 0.4mm vertical can show up over a very short section of the rim. In either case, the rider will not feel it, nor will it effect the ride of the bike. Consider the much greater magnitudes in the out-of-roundness of a wheel. The tire will be out of round by 1 to 2mm on a 23c tire, more as the casing gets bigger. A rider sitting on the bike with that same 23c tire at 110PSI (7atm or bars) will compress the tire by another 2-3mm.

Tightening nipples- Vector Pro and Vector Comp wheels

When tightening a nipple on a Rolf Vector Pro or Vector Comp, stabilize the bladed spoke to prevent rotation. Grasp each spoke with smooth jawed pliers or an adjustable wrench while rotating the nipple with the Rolf spoke wrench.

A Word on Spoke Tension

One of the benefits of Rolf Paired Spoke Design is the ability to use increased spoke tension without deforming the rim. The increased tension helps reduce cyclic changes in spoke tension as the wheel rotates with the rider's weight applied to it. This greatly increases the fatigue resistance and strength of the wheel.

Another problem of the loose/tight cycle of a spoked bicycle wheel is that a loose spoke has a tendency for its nipple to continue to loosen further. As loose spokes get looser the wheel will require more frequent truing.

A more highly tensioned wheel may help reduce these two problems, but there is a fairly wide range of acceptable overall spoke tension iu any wheel. However, the acceptable range of tensiou deviation within a given wheel is quite narrow. In other words, pay at least as much attention to how even the spoke tension is as to how tight the wheel is overall.

Spoke replacement

When a spoke breaks in a traditional wheel, its two neighboring spokes pull the rim away from the broken spoke, creating a wobble. The rim also moves radially away from the hub, creating a hop.

These unbalanced forces in a conventionally spoked wheel are quite strong. If nothing else was done to the rim, and the remaining spokes were carefully detensioned and removed, you'd likely find that the rim was actually bent in a gentle (or not so gentle) sine curve. After replacing the broken spoke, the hop and wobble can be usually be trued out, but the spoke tensions will be difficult to balance.

If a spoke breaks in a Rolf wheel, the rim will come very out of true due to the distance between pairs. But the spokes adjacent to the missing spoke are still laterally balanced, so the rim is not bent. To repair the Rolf wheel with a broken spoke, simply replace the spoke and bring it back to tension. Normally you will not need to re-tension any other spokes to have a true wheel.

1. Remove the broken spoke.

Remove the portion of the spoke attached to the hub (for a rear wheel, remove the cassette to do this).

For Vector Pro wheels, remove the tire and/or rim tape.

Remove the nipple from the section of broken spoke.

2. Inspect the wheel components for signs of damage.

Spokes fail for a variety of reasons, some of which may damage the rim at the same time. Look for other damaged spokes, or for signs of rim damage such as denting or bending. If a spoke nipple is deformed, replace it. Inspect the whole wheel. Do not re-use damaged parts.

3. Select the new spoke.

Determine the spoke and nipple to be used corresponding to the particular Rolf wheel model (see Replacement Parts, page 13).

4. Prepare the nipple.

For Vector Pro nipples, lubricate the spoke and the bottom of the nipple that contacts the rim with Wrench Force synthetic oil. Place the Rolf nipple (with the nylock ring first) into the Wrench Force Rolf spoke wrench.

For standard nipples, apply a drop of Loctite to the first 5mm of the spoke threads.

5. Install the new spoke.

Feed the spoke through the hub and into the free hole in the rim. Insert the spoke from the correct side of the hub (follow the existing pattern). Also follow the correct lacing pattern. For bladed spokes, note that the spoke holes are slotted to allow the blade to be iuserted easily.

Carefully start the nipple (see Installing Nipples on page 10 for a tip to ease nipple installation in deep aero rims) onto the end of the spoke 3 to 4 turns. Use a blade holder to prevent a bladed spoke from twisting during nipple installation and tensioning.

Note: For Vector Pro wheels with the Rolf self locking nipples, if the Nylock ring in the nipple is not fully engaged, Loctite® 242 should be applied to the threads to ensure proper retention of the nipple.

6. Tension the new spoke

Place the wheel into the truing stand

Increase the tension on the new spoke until the wheel is reasonably true.

7. Stress relieve the new spoke.

If needed, straighten the spoke as shown on page 13 to relieve bending fatigue at the spoke elbow.

8. Confirm all tensions are within final specification range.

Follow the instruction for using the Rolf/Hozan tension gauge. Check all spokes and compare to the Final Tension chart below.

If the wheel spoke tension is out of spec, tension the wheel by following the instructions in Wheel Building: Tensioning and Truing on pages 13-14.

9. Adjust if necessary.

Adjust hop (radial rim deflection) and wobble (lateral rim deflection) to make the wheel round and true.

10. Perform final check

For bladed spokes, adjust all spoke blades to be parallel with the plane of the rim.

Verify that all spoke tensions are within the final acceptable range (see Wheel Building: Tensioning and Truing for information on spoke tensiou)

Wheel Building: Lacing

Reference Terms

When we refer to the left or right side of a wheel, this reference is to the wheel as it would be viewed in the bike, by the rider on the bike.

Pulling spokes on a Rolf rear wheel are on both the left or right side, but in either case they can be identified from the right side of the bike by forming a rearward angle from the top of the hub to the rim.

Description of Rolf lacing patterns

Except for the Dolomite Disc, Rolf front wheels use a radial spoking pattern with the spoke heads facing outward in the hub shell. Insert all front spokes from the outside of the hub shell to achieve this lacing pattern. Dolomite Disc front wheels are laced in a two cross pattern.

Rear Rolf wheels, except Vector Pros, use a two cross pattern with 'normal' alternating spoke head orientation.

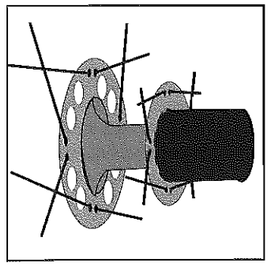

Fig. 5

Vector Pro rear wheels are laced one cross with all spoke heads on the left side of the hub flanges (Fig. 5). All spokes should be inserted from the left side of the hub. Pulling spokes are on the outside of the cross.

Also remember that unlike conventional hub shells, the drive side spokes are not always the shortest. Refer to the spoke chart in Replacement Parts to get the right length spokes.

Installing nipples

With the standard type nipples found on all Rolf wheels but the Vector Pro, we recommend the use of Loctite® 242, a thread locking compound. Before threading a standard nipple onto its spoke, apply a drop of Loctite® to the first 4-5mm of spoke threads.

With the Rolf self-locking nipples on the Vector Pro, place the Rolf nipples in a shallow bath of Wrench Force synthetic oil such that the entire nipple is submerged. This provides important lubrication to both the threads of the nipple and the nipple shoulder where it contacts the rim. It also helps hold the nipple into the Rolf spoke wrench during installation. To insert the Rolf nipples, insert a nipple into the spoke wrench with the Nylock insert going into the tool first.

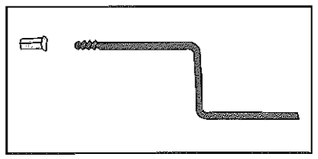

Fig. 6

If the rim has offset spoke holes, identify the right and left spoke holes. Never place a left spoke in a right hole, or vise versa as this could seriously weaken the spoke or nipple.

With deep cross section rims, it can be difficult to install nipples. Here's a trick. Make a nipple driver out of an old 14 gauge spoke. Cut the spoke to a length of about 100mm (4 inches). With a pair of pliers, put two L bends in the spoke (Fig. 6). With a pair of wire cutters, slightly crimp (do not cut!) the spoke threads about 3 or 4 threads from the spoke end. When installing nipples onto the driver, thread them on backwards, so that the wrench flats on the nipple face away from the spoke. Gently thread the nipple onto the nipple driver until you meet resistance at the crimped threads. Then use the nipple driver to reach through the rim and engage the new spoke you are lacing up. The L bends let you quickly rotate the nipple several turns.

Installing bladed spokes

On Rolf Vector Pro wheels, we use a very wide bladed spoke for aerodynamics. This blade will not fit through a normal spoke hole, so we have 'key-slotted' the hub to allow for spoke insertion. Look carefully and you will see the slightly wider section of the hole. Carefully orient the blade to pass through as you lace the wheel.

Tightening nipples with bladed spokes

Bladed spokes are not as stiff torsionally as a round spoke of the same material cross-section. When tightening nipples on bladed spokes, stabilize the spoke to prevent rotation. This windup can damage the spoke.

Lacing front wheels (radial wheels)

Determine the right side of both the hub and the rim. The right side flange on the hub is determined by looking at the hub logo, which will be in the correct position to be read by the rider on the bike (not upside-down). The 'KAZ' decal is on the right side of the rim.

When looking at a front wheel from the right side, the first spoke hole to the right of the valve hole accepts a spoke from the right side hub flange.

After lacing, go to the section Wheel Building: Tensioning and Truing on pages 13-14.

Lacing front wheels (Dolomite Disc)

First note that for a Dolomite Disc front, we use the assymetric rim from the rear wheel. To be correctly oriented it must be opposite the rear wheel; the 'KAZ' decal should face the rotor. To lace this wheel, follow the rear wheel lacing instructions with the disc hub oriented with the rotor mount in place of the freehub (in other words, where the instructions say the right side of the rear hub, instead use the left side of the front hub).

Lacing rear wheels (for Vector Pro, see next section)

Place the rim on a flat surface with the right side of the rim facing up (the 'KAZ' decal is on the right side of the rim) and the valve hole at the 12 o'clock position; at the far side of the rim (Fig. 7).

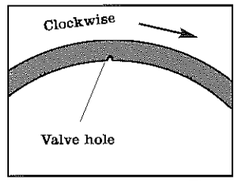

Fig. 7

Spoke #1

With the right side of the hub flange facing up, pick the spoke hole for the first right side pulling spoke. Insert the spoke from the right side of the hub. At the rim place the spoke in the first right side spoke hole to the right (in a clockwise direction) of the valve hole (Fig. 8). Carefully thread a nipple onto the spoke 3-4 turns.

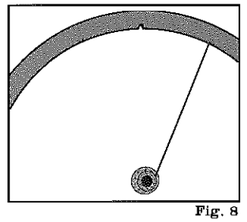

Fig. 8

Spoke #2

From the head of the first spoke, count counter-clockwise on the hub to the fifth spoke hole (or spoke location in the case of slotted spoke holes that hold two spokes) (Fig. 9). From the left of the hub, insert this non-pulling spoke. Then attach it to the first right side spoke hole to the left of the rim's valve hole and attach a nipple.

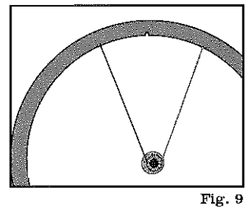

Fig. 9

Perform a quick check. On the right side of the hub there should be four spoke holes between the two spokes (Fig. 10). The spoke on the right should be head out, and the spoke on the left should be head in. At the rim between the two spokes, there should be one spoke hole and the valve hole.

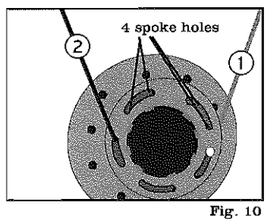

Fig. 10

Spoke #3

With the wheel in the same orientation sight across the hub from spoke #1 and find the pair of spoke holes in the larger flange which most closely line up with spoke #1. In the spoke hole closer to the valve hole, insert a left side spoke from the left side of the hub. At the rim, thread this spoke into the spoke hole between the two spokes already connected to the rim.

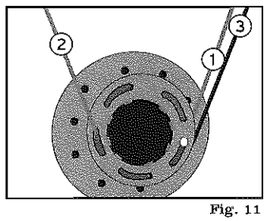

Fig. 11

Spoke #4

Next, from the right side of the wheel, count counter-clockwise on the left flange five spoke holes from spoke #3. Insert this spoke from the right side and attach it adjacent to spoke #2 at the rim (Fig. 12).

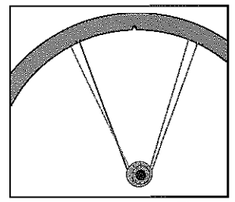

Fig. 12

Do a check before proceeding. Look at the right side of the wheel. On the right hub flange, there should be four spoke holes between the two attached spokes. With the valve hole at 12 o'clock, the spoke on the right should be head out, and the spoke on the left should be head in.

Now turn the wheel over. Viewing the left side of the wheel with the left flange up, there should be four spoke holes between the two attached spokes. With the valve hole at 12 o'clock, the spoke on the right should be head in, and the spoke on the left should be head out.

Look at the spokes connected at the rim. Each pair should consist of one spoke from the right flange, and one from the left flange. The pulling spokes (#1 and #3) should both be head out, and the non-pulling spokes (#2 and #4) should both be head-in. There should be no crosses over the valve hole. As you move along the rim, spokes should come from alternating sides of the hub in a left/right/left pattern. If your spokes match this pattern, start the next set with spoke #5 following the same pattern.

Spoke #5

Insert the next spoke from the right side of the hub. It goes through the right flange two spoke holes counter-clockwise from spoke #1 (Fig. 13).

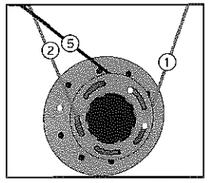

Fig. 13

Spoke #5 goes over spoke #2. After inserting the spoke, bow it slightly to the side with your fingers so that you can pull it under the rim and place it over the top of spoke #2. Be careful not to scratch the rim as you pull the spoke through.

Attach this spoke to the rim four spoke holes counterclockwise of spoke #1.

Check to make sure that at the rim there is one spoke hole between spokes #2 and #5. This establishes the pattern for the rest of the wheel, including the crosses. Its advised that you insert and attach all pulling spokes first, since its much easier to lace a heads-in spoke than one that must be threaded through the flange and bent simultaneously. Continue the pattern until lacing is complete.

After lacing is complete, check that the pattern has been maintained through out the wheel. If everything checks out, go to Wheel Building: Tensioning and Truing, on pages 13-14.

Vector Pro rear wheel spoke pattern

All spokes in a rear Vector Pro have their heads on the left side of the flanges (Fig. 14).

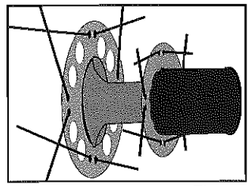
Fig. 14

Place the rim on a flat surface with the right side of the rim facing up (the 'KAZ' decal is on the right side of the rim, and both spoke holes adjacent to the valve hole are right side spoke holes)and the valve hole at the 12 o'clock position; at the far side of the rim (Fig. 15). All reference will be made to the wheel in this position.

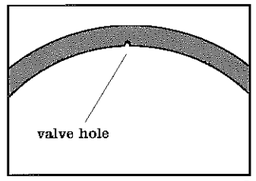

Fig. 15

Begin the wheel building procedure by placing all the spokes in the hub. Remember: all spoke heads to the left, and make sure the right side spokes are on the right side of the hub. Use the left flange access holes to feed right side spokes through the right flange.

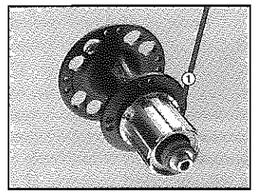
Fig. 16

Spoke #1- With the right side flange of the hub faciug up, pick the first right side pulling spoke.

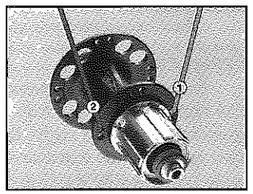
Fig. 17

At the rim, place it in the first spoke hole to the right (in a clockwise direction) of the valve hole (Fig. 16). Carefully thread a nipple onto the spoke 3-4 turns.

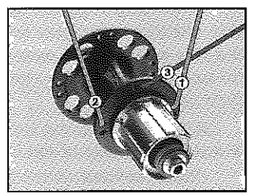
Fig. 18

Spoke #2- At the hub count three spoke holes counterclockwise (Fig. 17). At the rim, place this spoke in the first spoke hole to the left of the valve hole.

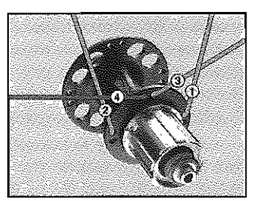
Fig. 19

Spoke #3- At the hub pick the spoke immediately counterclockwise from spoke #1 (Fig. 18). Spoke #3 is a non-pulling spoke, so goes to the inside of its cross. As spoke #3 leaves the hub, it goes under (to the left) of spoke #1. At the rim, place this spoke in the fourth spoke hole to the right of the valve hole.

Spoke #4- At the hub pick spoke #4 between spoke #2 and spoke #3 (Fig. 19). This is a pulling spoke, so it goes outside (to the right) of spoke #2. As the rim, spoke #4 goes in the fourth hole to the left of the valve hole.

Spoke #5- Sight across the hub to the spoke hole opposite spoke #3 to spoke #5 (Fig. 20). At the rim this left side spoke goes in the third spoke hole to the right of the valve hole.

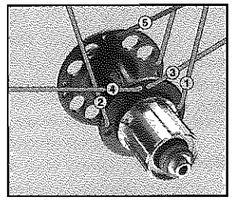
Fig. 20

Spoke #6- On the left flange, the spoke next to (and left of) spoke #5 is a pulling spoke (Fig. 21). At the rim, it goes in the third spoke hole to the left of the valve hole.

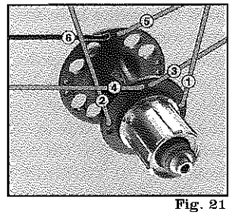
Fig. 21

Spoke #7- This left side spoke is opposite spoke #1 (Fig. 22). It crosses to the outside (left) of spoke #5 and at the rim goes in the second spoke hole to the right of the valve hole.

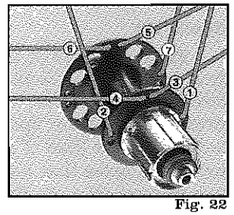
Fig. 22

Spoke #8- This non-pulliug spoke is found on the left side flange opposite spoke #2 (Fig. 23). It crosses to the inside (right) of spoke #6 and at the rim goes in the secoud spoke hole to the left of the valve hole.

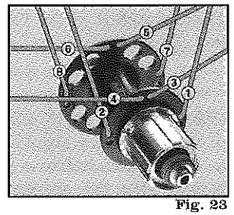
Fig. 23

You are now halfway done, but before proceeding perform a quick check. At the rim, both spokes adjacent to the valve hole should be from the right side of the wheel. Of these two spokes, the right (pulling spoke) should be on the outside of its cross, and the left should be under (inside).

As you count away from the valve hole at the rim in either direction, both spokes 2 and 3 should come from the left flange. These same left flange spokes should cross, with the pulling spokes of each cross to the outside. In the fourth hole from the valve hole (again, in either direction) should be a right side spoke. As with the left side spokes, pulling spokes always cross to the outside.

Follow the pattern until the wheel is fully laced, and go to Wheel Building: Tensioning and Truing.

Initial tensioning

Place the wheel in a truing stand. By the pairs at the rim, tighten each spoke about 1/2 turn. Follow a star pattern. Tighten the first pair to the right (clockwise) of the valve hole (Fig. 24), then skip the second pair to tighten the third pair (Fig. 25).

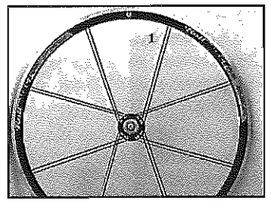

Fig. 24

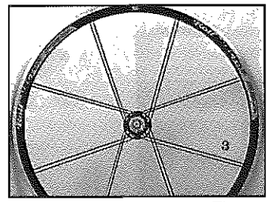

Fig. 25

Continue working around the wheel until the tension matches the specs in the First Tensioning chart.

For rear wheels, the tension specs apply to the right side spokes. For disc front wheels, the specs are for the left (disc) side of the wheel. Tension the opposite side just enough to obtain correct wheel dish.

First Tensioning	Gauge reading/ mm	
Model	Front	Drive/rear
Vector Pro	40-50	60-80
Vector Pro, Araya	50-70	60-80
Vector Comp	50-60	70-90
Vector	65-80	70-85
Propel	60-75	70-85
Urraco	60-80	70-85
Dolomite	60-80	70-85
Dolomite Disc	60-80	70-85
Satellite	70-95	90-115

Stress relieve the spokes

As a wheel rotates with the rider on the bike, the stress on each spoke changes. If a spoke does not take a straight line from the hub to the rim, it will work as a spring. As the stress on the spoke increases or decreases, it will exhibit more or less of a curve. This flexing is one of the primary sources of fatigue failure in spokes. To eliminate this flex, the spoke must take a straight line from the hub to the rim. Examine the spokes in your wheel. If they are not straight, fix this now by following these instructions.

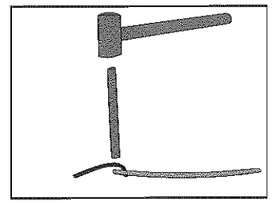
Fig. 26

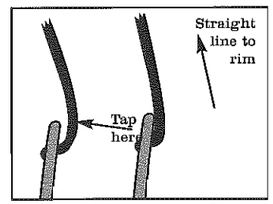

Fig. 27

Support the wheel on a flat surface with the right side facing up. Place the nylon punch on the first spoke about where the spoke leaves the hub flange (Fig. 26). Firmly tap the punch with a small mallet to make the spoke nearly conform to the shape of the hub flange (Fig. 27). Repeat this for all spokes. After this operation, spoke tension may be greatly reduced.

Second tensioning

Continue tensioning the wheel following the star pattern. This will take at least two revolutions of the wheel to achieve the specs in the Second Tensioning chart.

Second Tensioning	Gauge reading/mm	
Model	Front	Drive/rear
Vector Pro	50-60	80-90
Vector Pro, Araya	70-90	80-110
Vector Comp	60-70	90-100
Vector	80-95	85-100
Propel	70-85	85-100
Urraco	80-95	85-100
Dolomite	80-95	85-100
Dolomite Disc	80-95	85-100
Satellite	95-110	115-120

Truing

After the second tensioning, check the wheel dish using a wheel dishing tool. If the wheel is not dished, place it in a truing stand. Tighten one spoke and loosen the other from each pair.

While working on the dish, also correct any hop and wobble (vertical and lateral rim deviations) to +/- 0.5mm.

Third Tensioning

Follow the star pattern to achieve the Third Tensiou figure shown in the Third Tensioning chart.

Third Tensioning	Gauge reading/mm	
Model	Front	Drive/rear
Vector Pro	75-85	95-110
Vector Pro, Araya	90-100	110-125
Vector Comp	85-100	100-120
Vector	100-120	115-135
Propel	85-100	115-135
Urraco	100-120	115-135
Dolomite	100-120	115-135
Dolomite Disc	100-120	115-135
Satellite	110-130	120-140

Stress Relieve the Wheel

Follow the instructions for using the Rolf Stressor on page 17 and stress both sides of the wheel.

Truing

After stressing the wheel, again check the wheel for hop, wobble, and dish. Correct any hop and wobble (vertical and lateral rim deviations) to +/- 0.5mm.

Fourth Tensioning

Follow the star pattern and bring the wheel up to the tensions specified in the Fourth Tensioning chart.

Fourth Tensioning	Gauge reading/mm	
Model	Front	Drive/rear
Vector Pro	85-95	120-130
Vector Pro, Araya	100-155	125-145
Vector Comp	110-130	125-150
Vector	120-145	135-155
Propel	100-120	135-150
Urraco	120-145	135-155
Dolomite	120-145	135-155
Dolomite Disc	120-145	135-155
Satellite	130-155	140-165

Stress Relieve the Wheel

Use the Rolf Stressor and again stress both sides of the wheel.

Truing

After stressing the wheel, again check the wheel for hop, wobble, and dish. Correct any hop and wobble (vertical and lateral rim deviations) to +/- 0.5mm.

Perform final check

Check the wheel for hop, wobble, and dish. Correct any hop and wobble (vertical and lateral rim deviations) to +/- 0.5mm.

For bladed spokes, adjust the spokes so the blades are parallel with the plane of the rim. Use the spoke wrench and pliers or other tool together to prevent nipple rotation.

Verify that all spoke tensions are within the acceptable range of the Final Tension chart. Also make snre the spoke tension is as even as possible for each side of the wheel.

Final Tension	Gauge reading/mm	
Model	Front	Drive/rear
Vector Pro	80-100	115-135
Vector Pro, Araya	90-115	120-145
Vector Comp	100-135	110-155
Vector	115-150	125-160
Propel	85-120	125-160
Urraco	115-150	125-160
Dolomite	115-150	125-160
Dolomite Disc	115-150	125-160
Satellite	120-160	130-170

Calibration of Rolf Spoke Tension Gauge

Rolf custom tension gauges

Rolf has worked with Hozan to make a special gauge that is more accurate at the higher spoke tensions used on Rolf wheels. Each Rolf/Hozan gauge comes with a specific calibration bar for that gauge, with matching ID numbers on the gauge and bar. To obtain an accurate measurement, only a Rolf/Hozan tool calibrated with its specific calibration bar will work. Standard Hozan gauges are not appropriate for making these measnrements.

Calibration of the gauge should be done once a week. If the gauge is used frequently, or has been dropped or damaged in some way, it may be necessary to recalibrate it more frequently.

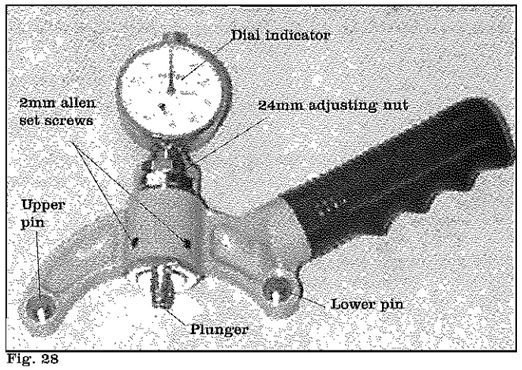

Fig. 28

Follow these instructions whenever spoke tension on a Rolf wheel needs to be evaluated. It is important to note that incorrect usage of the gauge, even in experienced hands, can result in a wide fluctuation of readings. To successfully measure correct spoke tension, it is very important that the gauge be correctly calibrated, then used in an appropriate manner.

Required tools

Special Rolf/Hozan spoke tension gauge

Calibration bar

2mm allen wrench

24mm end wrench

Calibrate the Gauge

1. Verify the dial indicator (Fig. 28) reads 0.00 at rest. If not, rotate the dial faceplate until gange reads correctly. Make this adjustment before every reading to ensnre correct measnrement.

2. Hook the calibration bar (Fig. 29) over the npper pin and make sure the pin is at the top center of the calibration bar hole.

3. Rotate the calibration bar toward the lower pin nntil it contacts the lower pin.

4. Record the value shown on the indicator dial.

5. Repeat this procedure four more times, recording the value each time.

With a properly calibrated gauge the average of the five readings should be within +/- 0.03mm of the number engraved ou the calibration bar. If your results do not meet these specifications, the gauge requires adjustment as covered in the next section.

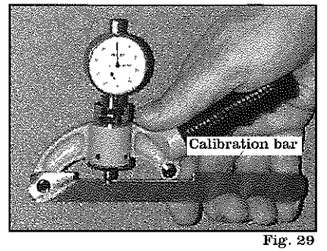

Fig. 29

Adjust the Gauge

1. Loosen the two 2mm allen set screws.

2. Turn the 24mm adjusting nut on the gauge handle to adjust the reading.

Note: Do NOT loosen or remove the indicator from the gauge body.

3. Tighten the two 2mn allen set screws.

4. Repeat the procedure **Calibrate the Gauge.**

Wheel Building:
Measuring Rolf spoke tensions

Measuring Spoke Tension

1. Establish a point on the spoke for the type of spoke being measured.

Gauge pin contact points by spoke type	
DT Revolution	Both pins on 17g section
Bladed spokes	Both pins on blade section
All others	Lower pin 10mm from edge of rim

2. With the handle of a calibrated Rolf/Hozan gauge pointing toward the rim, place the gauge upper pin on this point (Fig. 30) and push the gauge toward the spoke until the lower pin just touches the spoke. Do not press the lower pin into the spoke, as this will alter the gauge reading.

3. Note the value on the dial indicator.

4. Release the gauge. Reposition the gauge by rotating it slightly around the spoke.

5. Repeat steps 1 through 4 until you have found the lowest possible gauge reading for that spoke.

6. Compare the gauge reading to the spoke tension specifications. If the tension is out of specification, re-tension the spoke or wheel accordiugly.

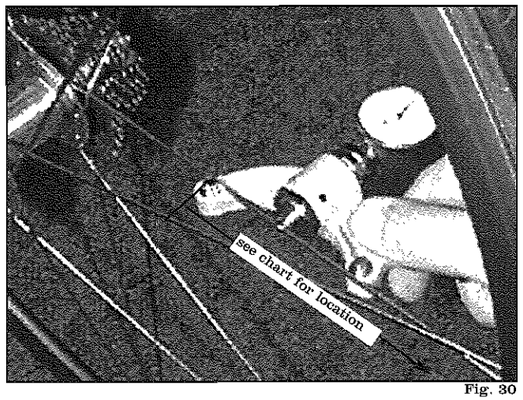

Fig. 30

Determining Spoke Gauges on Vector Pro Wheels

Early production of Rolf Vector Pro wheels used a different spoke gauge than is currently used. The heavier gauge of the earlier spoke will register a higher reading on the Rolf/Hozan tension gauge.

To determine which gauge spoke is in the wheel you are servicing measure the spoke near the elbow, where it is a round cross section, with a pair of vernier calipers.

If you cannot determine the spoke gauge with this method, a less accurate alternative is to refer to the rim in the wheel. Current production with 2.0mm spokes uses a welded rim with machined braking surfaces. The early production with 2.2mm spoke end (at the elbow) used an Araya pinned construction rim with no machining on the braking surface.

Wheel Building: Stressing

Note: Before stressing a wheel, always make sure it is at the correct tension.

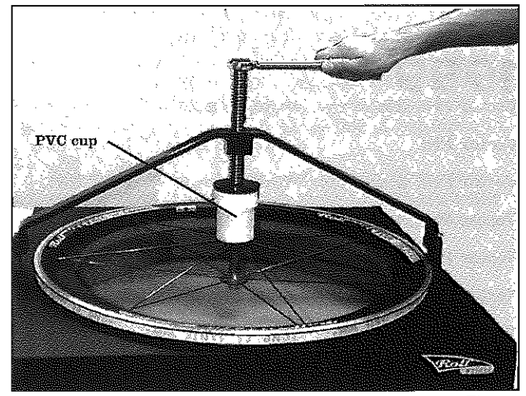

Fig. 31

Stress the wheel

Turn the threaded rod (also called a jack screw, see Fig. 31) to raise the PVC cup up as high as required to insert the wheel.

Place the wheel under the cup. Center the wheel on the base.

Turn the threaded rod by hand until the cup rests against the hub. Make sure the flange is centered under the cup.

Use a torque wrench set at 85 lb•in. Rotate the threaded rod until you have reached the preset torque.

Stress the other side

Loosen the threaded rod until the PVC cup clears the hub.

Repeat the stressing procedure on the opposite side of the wheel.

Note: The 105 lb•in setting is used for both the first and second stresses.

Rolf Replacement parts

Model	size	rim type		spoke length right	spoke length left side	spoke type	nipple
1999							
Vector Pro, Araya rim	700c	clincher	F	283		DT Blade 2.2	Rolf alloy (2.0) w/4mm washer
			R	289	287		
Vector Pro	700c	clincher	F	280		DT Blade 2.0	Rolf alloy (2.0)
			R	286	284		
Vector Pro, Araya rim	700c	tubular	F	285		DT Blade 2.2	Rolf alloy (2.0) w/4mm washer
			R	291	289		
Vector Pro, Araya rim	650c	clincher	F	257		DT Blade 2.0	Rolf alloy (2.0) w/4mm washer
			R	263	261		
Vector Pro, Araya rim	650c	tubular	F	257		DT Blade 2.0	Rolf alloy (2.0) w/4mm washer
			R	265	263		
Vector Comp	700c	clincher	F	270		DT Aero 2.0/1.3	Brass 14g (2.0)
			R	288	290		
Vector	700c	clincher	F	278		DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	288	287		
Vector, 135 OLD	700c	clincher	F	278		DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	288	287		
Vector	650c	clincher	F	252		DT Competition 14/15 (2.0/1.8)	Brass, 14g (2.0)
			R	263	262		
Propel	26"	clincher	F	250		DT Competition 14/15 (2.0/1.8)	Alloy, 14g (2.0)
			R	261	260		
Dolomite	26"	clincher	F	250		DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	261	260		
Dolomite Disc	26"	clincher	F	263	261	DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	261	260		
2000							
Starting in model year 2000, spoke lengths are listed on a rim decal.							
Vector Pro	700c	clincher	F	280		DT Blade 14 (2.0)	Rolf alloy (2.0)
			R	286	284		
Vector Pro	700c	tubular	F	282		DT Blade 14 (2.0)	Rolf alloy (2.0)
			R	289	287		
Vector Pro	650c	clincher	F	254		DT Blade 2.0	Rolf alloy (2.0)
			R	261	259		
Vector Pro	650c	tubular	F	258		DT Blade 2.0	Rolf alloy (2.0)
			R	264	261		
Vector Comp	700c	clincher	F	270		DT Aero 2.0/1.3	Brass 14g (2.0)
			R	288	290		
Vector Comp	650c	clincher	F	244		DT Competition 14/15 (2.0/1.8)	Brass, 14g (2.0)
			R	263	263		
Vector	700c	clincher	F	278		DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	288	287		
Vector, 135 OLD	700c	clincher	F	278		DT Competition 14/15 (2.0/1.8)	Brass 14g (2.0)
			R	288	287		
Vector	650c	clincher	F	252		DT Competition 14/15 (2.0/1.8)	Brass, 14g (2.0)
			R	263	261		
Propel	26"	clincher	F	252		DT Revolution 14/17 (2.0/1.4)	Alloy, 14g (2.0)
			R	261	260	Comp 14/15 (2.0/1.8)/Revolution 14/17 (2.0/1.4)	
Dolomite	26"	clincher	F	250		DT Competition 14/15 (2.0/1.8)	Alloy 14g (2.0)
			R	261	260		
Dolomite Disc	26"	clincher	F	263	261	DT Competition 14/15 (2.0/1.8)	Alloy 14g (2.0)
			R	261	260		
Urraco	26"	clincher	F	252		DT Competition 14/15 (2.0/1.8)	Alloy 14g (2.0)
			R	261	260		
Satellite	26"	clincher	F	254		DT 14g (2.0)	Brass 14g (2.0)
			R	265	263		

Note: For Vector Pro wheels with the Rolf self locking nipples, if the Nylock ring in the nipple is not fully engaged, Loctite® 242 should be applied to the threads to ensure proper retention of the nipple.

For eqnivalents, 14g = 2.0mm, 15g = 1.8mm, and 17g = 1.4mm.

Who is the new STP for?

The STP is a great suspension bike for someone who wants the efficiency and low weight of a hardtail, but some extra comfort and control in rough terrain. Another answer is if they like to climb standing, but want full suspension, this is the bike.

What makes the STP speeial?

With an STP, you get an ultralight bike with fully tunable suspension. And no rear suspension maintenance.

What does STP mean?

The STP means Soft Tail Pro. Soft Tail is a suspension bike without pivots. Pro because the STP is designed with Trek's proven Pro geometry.

How much does it weigh?

4.10 pounds (1860 grams), including the frame and shock mount hardware. That makes it one of the lightest full suspension bikes made.

Aren't there other soft tail bikes already on the market?

Yes, but the STP is unique. First, it has the "go fast" feel of OCLV. And second, it offers real quality suspension.

~~How~~ What do you mean "real quality suspension"?

Previous attempts at soft tail rear suspension have had very limited travel. They use the same kind of elastomer springs used in suspension forks about 5 years ago. And often they can't be tuned without disassembling the bike.

The Trek STP gives 35mm of travel, not a lot less than some linkage bikes on the market. And it uses a RockShox SID rear shock, so you get the benefits of an air spring, an air negative spring, and adjustable rebound damping. You can easily tune it on a ride with just an air pump. And its range of tuning is practically infinite.

Wouldn't it be easier to just stick a suspension seatpost into a 9.8?

Its certainly easier to add a suspension post to a hardtail. But the benefits aren't the same.

With a suspension seatpost, you don't have the range of suspension adjustment that the SID offers. You also don't get the pedaling efficiency, since the saddle is moving up and down on a suspension seatpost, changing the distance from the saddle to the pedals. Finally, the suspension seatpost is really a comfort item, since it doesn't suspend the bike.

With the STP, you get the enhanced traction of real suspension, even when standing. Unsuspended weight is less, so the bike can react better. And you can sit in the saddle and power, since the leg length of the bike isn't changing.

Why is OCLV better?

First there's the ride. OCLV makes a bike feel fast. Probably because of the extremely low weight. But also because of the Trek engineers' ability to tune the ride. OCLV can be forgiving over bumps, but really rigid when you're out of the saddle stomping up a hill.

Second, a properly designed carbon fiber structure has a virtually infinite fatigue life. That's what lets us make a soft tail with so much travel. Welded metals just can't take it.

Didn't Trek have problems with broken chainstays on OCLV mountaiu bikes?

After the first year of our OCLV mountain bikes (1993), we found that we had a process problem in making the bottom bracket lug. When the carbon fiber was inserted into the mold, it sometimes got wrinkled or folded, even if the operator was being very careful. This created a stress riser right at a place the carbon was already being wrapped around a tight corner.

Since it took a manufacturing problem to show up what would later be considered a design problem, neither our FEA analysis, nor our test bikes, had any problems. It didn't happen to all bikes, so it took us some time to figure out what was happening.

When we finally determined exactly what the problem was, we immediately took several steps and fixed it completely. First, we redesigned the bottom bracket lug to get rid of the tight corner. With the sharp corner gone, the operators no longer had problems with the carbon fiber layup. Now, even if you intentionally forced the carbon fiber into a fold, the carbon was in a much stronger orientation. But we also added more material to increase the strength. Since the redesign of the bottom bracket lug, we've had no problems in the area.

Why didn't Trek use the 9.8 frame for the STP?

The 9.8 uses aluminum chainstays with a tall vertical section. They do not allow the proper flex, nor the fatigue life, needed to execute the STP design.

How should I set up the STP?

First, establish the correct sag, which should be about 2 to 3mm at the rear shock, and be the same at the fork. For the rear shock, this usually takes 20-35% of body weight in PSI (Body weight in Kg x 0.04 = Pressure in Atm or BARs). Racers will likely want a stiffer setup, with no sag or just one millimeter.

Use an equal pressure in the SID's negative chamber, or 10 to 15PSI (.7 to 1.0 atm or bars) less. Using more negative spring will add sag and increase small bump compliance.

We recommend using the least damping possible, just enough that the bike doesn't rebound too hard after a compression and 'buck you off'.

What does the STP compare to?

The STP has neutral pedaling because the leverage ratio is so low, combined with the angle the shock is at relative to the chain force. It takes much much more pedal force to even begin to effect the shock so the STP climbs like a hardtail.

The STP has the good handling manners of a hardtail because overall it is closer to a hardtail than a full suspension design. There are no pivots, linkages, or similar areas that can introduce flex. So, you get the benefit of a hardtail in lateral rigidity with the benefit of suspension in the vertical direction.

The STP steers like Trek's other Pro Geometry bikes, and has the stability in rough terrain, because it is Trek Pro Geometry.

The STP has the comfort and added traction of rear suspension without the weight, complexity and maintenance. No worrying about those little pivots. No flex or squeaking.

The STP feels like a hardtail, until the suspension is needed to smooth the trail. Think of the STP as a more comfortable 9.9, and one that makes technical riding a bit easier.

How does the STP compare to a URT?

Early bikes with an URT (Unified Rear Triangle) had a rear triangle without pivots. Some later versions had a 'fixed drivetrain', where there were no pivots between the bottom bracket and the rear axle,m but there were pivots elsewhere in the rear triangle. In both cases, this makes the drivetrain efficient by preventing chain tension from activating the shock. By either definition the STP offers complete drivetrain efficiency, and essentially is a URT!

If the STP is an URT, can you compare it to the Trek Y bike?

The Y offered more rear wheel travel, desirable for some types of riding or riders. But an athletic rider can absorb a lot of shock with their legs by standing. That's the STP rider.

The STP is really best at decreasing fatigue and adding control by taking the edge off bigger bumps. Its not going to totally make them go away like some longer travel suspension systems try to do. Its not a comfort bike, but a performance ride completely suitable for cross country racing in weight , climbing performance, and out of the saddle pedaling.

If its a URT, how much does the saddle move relative to the bottom bracket?

None. They are rigidly fixed together by the seat tube.

Fitting the STP

The STP is designed to be ridden with little or no sag. This isn't a plush, comfy bike, but instead a hardtail with suspension. The distance from the bottom bracket to the saddle does not change.

Mechanic's Specs and Notes

Seatpost

STP frames are designed to accept 27.2mm seat posts with a tolerance of 27.10 to 27.20mm outer diameter. Measure the seatpost for conformity to this tolerance prior to installation.

With OCLV frames, do not grease the seatpost. OCLV bikes have a fiberglass sleeve bonded into their carbon seat tube. This sleeve prevents galvanic corrosion of the seatpost and carbon, so no grease is needed, nor recommended. If grease is applied, it may be very difficult to get adequate clamping force to hold the seatpost. If you have accidentally greased an OCLV frame, use a cloth with some degreaser to remove the grease, using normal caution to protect bearings and paint.

Bottom bracket

Be sure bottom bracket threads are clean and well greased before insertion. Failure to do so may cause galling of the threads.

Removing Headset Cups

When removing an headset in an OCLV frame, make sure the headset removal tool is engaging the headset cup. OCLV framesets do not utilize a continuous headtube, but instead use two short inserts to support the headset cups. If the headset tool is outside the insert rather than inside the insert and pressing on the cup, frame damage can result.

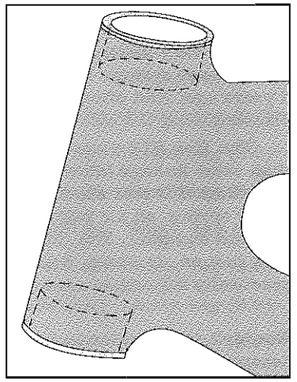

Fig. 32

STP Parts list

Replaceable derailleur hanger	980116

Our Price: $ _____

STP 400

Main tubes	Trek design OCLV carbon		
Stays	Trek design OCLV carbon		
Fork	RockShox SID Race Lite	63mm travel	
Rear shock	RockShox SID w/remote adjust	22mm stroke, 35mm rear wheel travel 144mm overall length, 7/8" end x 1.0"O.D.	
Headset	WT8 Momentum AL Threadless	25.4/34.0/30.0, 30.6mm stack	
Handlebars	ICON Sterling	25.4mm clamp diameter	
Stem	ICON Sterling, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano XTR RapidFire SL		
Front derailleur	Shimano XTR	Top pull, Plate style	
Rear derailleur	Shimano XTR SGS		
Brakes	Avid Single Digit Mag, linear pull		
Brake levers		Integrated brake/shift	
Crankset	Shimano XTR 4 arm 46/34/24	112/68 mm bolt hole circle	
Bottom bracket	Shimano XTR, cartridge	73 x 116	
Pedals	Shimano SPD M858, clipless	9/16" axle	
Cassette	Shimano XTR 12-34	9spd	
Chain	Shimano Dura-Ace	108 length, 9 speed	
Front wheel	Rolf Propel	Velox 19mm rimstrip	
Front tire	Bontrager Super-X, 127tpi, folding	49/48	
Rear wheel	Rolf Propel	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Super-X, 127tpi, folding	49/48	
Tubes	Presta valve, ultra light		
Spokes	DT Rev 14/17G (14/15 drive), alloy nips	20 spoke Radial Front 252	24 spoke 2 Rear 261/260 rear (D/ND)
Saddle	Selle Italia Flite, Gel, Ti/leather		
Seatpost	ICON Sterling, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Smoke Nude / Red fork • White/blue decal		

	24	34	46
12	52	74	101
14	45	64	86
16	39	56	75
18	35	50	67
20	31	45	60
23	27	39	52
26	24	34	46
30	21	30	40
34	19	26	35

25.3 lb.
11.49 kg.

Frame sizes	M	L	XL
Handlebar width	560	560	560
Stem length	135	135	150
Stem angle	-7	-7	-7
Crank length	175	175	175
Seatpost length	300	350	350
Steerer, mm	192	205	241
Fork length	413 mm axle-crown race		
Head angle	71.0	71.0	71.0
Seat angle	73.0	73.0	73.0
MM Standover	741	764	799
Seat tube	457	495	533
Head tube	110	123	159
Eff top tube	591	594	600
Reach	705	715	735
Chainstays	424	424	424
BB height	298	298	298
Offset	42	42	42
Trail	71	71	71
Wheelbase	1060	1063	1070
IN Standover	29.2	30.1	31.5
Seat tube	18.0	19.5	21.0
Head tube	4.3	4.8	6.3
Eff top tube	23.3	23.4	23.6
Reach	27.8	28.1	28.9
Chainstays	16.7	16.7	16.7
BB height	11.7	11.7	11.7
Offset	1.7	1.7	1.7
Trail	2.8	2.8	2.8
Wheelbase	41.7	41.9	42.1

STP 300

Our Price: $ _____

Main tubes	Trek design OCLV carbon		
Stays	Trek design OCLV carbon		
Fork	RockShox SID XC	80mm travel	
Rear shock	RockShox SID w/remote adjust	22mm stroke, 35mm rear wheel travel 144mm overall length, 7/8" end x 1.0"O.D.	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Graphite	25.4mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore XT RapidFire SL		
Front derailleur	Shimano Deore XT	Top pull, Plate style	
Rear derailleur	Shimano XTR SGS		
Brakes	Avid Single Digit 20, linear pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN72E	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Urraco	Velox 19mm rimstrip	
Front tire	Bontrager Super-X, 127tpi, folding	49/48	
Rear wheel	Rolf Urraco	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Super-X, 127tpi, folding	49/48	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	20 spoke Radial Front 252	24 spoke 2 Rear 261/260 rear (D/ND)
Saddle	Bontrager FS 2000, Gel, Cro-Moly/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Red Nude / Black fork • White/black decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

25.3 lb.
11.49 kg.

		M	L	XL
Frame sizes				
Handlebar width		580	580	580
Stem length		135	135	150
Stem angle		-7	-7	-7
Crank length		175	175	175
Seatpost length		300	350	350
Steerer, mm		192	205	241
Fork length		427 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		73.0	73.0	73.0
MM	Standover	741	764	799
	Seat tube	457	495	533
	Head tube	110	123	159
	Eff top tube	591	594	600
	Reach	706	715	736
	Chainstays	424	424	424
	BB height	298	298	298
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1060	1063	1070
IN	Standover	29.2	30.1	31.5
	Seat tube	18.0	19.5	21.0
	Head tube	4.3	4.8	6.3
	Eff top tube	23.3	23.4	23.6
	Reach	27.8	28.2	29.0
	Chainstays	16.7	16.7	16.7
	BB height	11.7	11.7	11.7
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.7	41.9	42.1

Our Price: $ _____

STP 200

Main tubes	Trek design OCLV carbon		
Stays	Trek design OCLV carbon		
Fork	RockShox Judy Race	80mm travel	
Rear shock	RockShox SID w/remote adjust	22mm stroke, 35mm rear wheel travel 144mm overall length, 7/8" end x 1.0"O.D.	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Onyx	25.4mm clamp diameter	
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Top pull, Plate style	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Avid Single Digit 20, linear pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN72E	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Dolomite	Velox 19mm rimstrip	
Front tire	Bontrager Jones AC, folding	49/54	
Rear wheel	Rolf Dolomite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC, folding	47/52	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	20 spoke Radial Front 250	24 spoke 2 Rear 261/260 rear (D/ND)
Saddle	Bontrager FS 2000, Gel, Cro-Moly/leather		
Seatpost	ICON Onyx, 6061	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Blue Nude / Orange fork • White/orange decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

25.3 lb.
11.49 kg.

		M	L	XL
Frame sizes				
Handlebar width		560	560	560
Stem length		135	135	150
Stem angle		15	15	15
Crank length		175	175	175
Seatpost length		300	350	350
Steerer, mm		192	205	241
Fork length		427 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		73.0	73.0	73.0
MM	Standover	741	764	799
	Seat tube	457	495	533
	Head tube	110	123	159
	Eff top tube	591	594	600
	Reach	685	695	713
	Chainstays	424	424	424
	BB height	298	298	298
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1060	1063	1070
IN	Standover	29.2	30.1	31.5
	Seat tube	18.0	19.5	21.0
	Head tube	4.3	4.8	6.3
	Eff top tube	23.3	23.4	23.6
	Reach	27.0	27.4	28.1
	Chainstays	16.7	16.7	16.7
	BB height	11.7	11.7	11.7
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.7	41.9	42.1

VRX

Who is the new Trek VRX for?

The VRX is a long travel suspeusion bike for riding in rough terrain. It offers extra comfort and control for adventure riding, and all round mountain biking. The superb suspension action keep the rear wheel firmly planted on the ground over the roughest terrain, yet the VRX design also lets the rear wheel follow even the smallest change in terrain.

Because of its special shock linkage design, the VRX is a great bike for beginners as well as hard core adventure riders, and everything in between.

What makes the VRX special?

The VRX lets the suspension work great on both big hits and little stuff, where most suspension systems only work on a narrow range of bump sizes or frequencies. In other words, the VRX provides a suspension system that is extremely plush on small to medium hits, yet won't bottom out on the big stuff.

What does VRX meau?

VRX means Variable Rate Suspension. The leverage ratio of shock actuation to rear axle changes through the suspension stroke. This means the rear wheel can easily compress the shock over small bumps, but as the rear wheel moves through its arc, the shock gains leverage, essentially making the suspension stiffer over bigger bumps.

Aren't there other variable rate bikes already on the market?

Yes, but the VRX is unique. Its a simple swingarm design, so you avoid the problems associated with having lots of little pivots controlling the rear wheel (like noise, wear, and frame flex). The pivot location provides neutral pedaling in most gears, although a slight increase in rear wheel pressure occurs in the lowest gears, adding traction on climbs. And the rear shock is isolated from side loading, which lets it run stiction free, while increasing the durability of the seals and bushings in the shock. Last, the VRX offers adjustable suspension through its multiple shock locations on the link.

What do the different shock locations do?

By moving the shock up or down on the link, you chauge the distance from the pivot to the shock mount by 20%. This changes the shock leverage ratio, and also the travel.

Please note that with an air shock, the preload adjustmeut may not go high enough for a heavier rider if the shock is mounted in the lower hole due to the increased leverage ratio.

Didu't last years link have 3 holes?

We found that most people couldn't feel the difference between the shock mount holes in the '99 link, because they were only 10% different. While 10% is theoretically a big change, if its not enough for the consumer to feel it we've not hit our goal. So for 2000, we only offer two positions. But the overall range of 99's three adjustment holes is the same as the two holes of 2000, yielding a 20% change.

In addition, the entire leverage ratio has been changed, so a lighter coil spring can be used in 2000, or even an air shock. The air shock really gets the bike weight down.

How much lighter is the new spring requirement?

The '99 VRX in size large used a 1050# spring. On a 2000 VRX the same rider only requires an 800# spring. We get better shock action, and the softer spring is much lighter.

How much travel is there?

In the 'stiff' position, about 3.75 inches (95mm). In the 'soft position, about 4.3 inches (108mm).

How should I set up the VRX?

First, establish the correct sag, which should be about 8 to 12mm at the rear shock. For an air spring rear shock, this usually takes 120-135% of body weight in PSI. But the sag measurement is more accurate due to a rider's body shape and riding position.

What does the VRX compare to?

The VRX is a pretty unique design, bringing the best features from a variety of systems together in one clean, simple, effective design. So its hard to compare to anythiug. But its features are clear:

The VRX has a very active suspension, with lots of travel.

The VRX has Trek Pro geometry for good handling manners at higher speeds.

The VRX uses a simple, and proven, pivot technology for low maintenance and super long life.

How much does the saddle move relative to the bottom bracket?

None. They are rigidly fixed together by the seat tube.

How much does it weigh?

The frame weight is very competitive at just 5.5 pounds (2520 grams).

In 1999 we really tried to get the VRX platform in at low price points, which necessitated less expensive, heavier components. We put the 2000 parts pick on a diet, so the new VRX better represents its potential as a great all-round suspension bike.

Our Price: $ _____

VRX 400

Main tubes	6061 T6 aluminum	
Stays	6061 T6 aluminum	
Fork	Marzocchi Z.3 Flylight	100mm travel
Rear shock	Fox Vanilla coilover	1.25" stroke, 123mm rear wheel travel 6.5" eye to eye, 7/8" ends
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack
Handlebars	ICON Onyx	25.4mm clamp diameter
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height
Grips	Bontrager Ergo	
Shifters	Shimano Deore LX RapidFire+	
Front derailleur	Shimano Deore LX	Down pull, Plate style
Rear derailleur	Shimano Deore XT SGS	
Brakes	Hayes Disc, full hydraulic	
Brake levers	Hayes hydraulic	
Crankset	ICON Onyx, 4 arm 44/32/22	64/104 mm bolt hole circle
Bottom bracket	Shimano BB-UN52E	73 x 113
Pedals	Shimano SPD M545, clipless	9/16" axle
Cassette	Shimano HG70 11-32	9spd
Chain	Shimano HG72	106 length, 9 speed
Front hub	Formula disc	
Front rim	Bontrager Corvair ASYM	Velox 22mm rimstrip
Front tire	Bontrager Jones	49/53
Rear hub	Formula disc	HyperGlide cassette, 8/9spd, 135mm O.L.D.
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip
Rear tire	Bontrager Jones	46/50
Tubes	Presta valve	
Spokes	DT 14G stainless	32 spoke Radial Front 264/262 — 32 spoke 3x Rear 264/262 rear (D/ND)
Saddle	Bontrager FS 2000, Cro-Moly	
Seatpost	ICON Onyx, 6061	31.6mm diameter
Seat binder	Alloy w/integral bolt	36.4 clamp diameter
Additionals	2 water bottle mounts	
Colors	Candy Gold / Polish/black fork • Black/white decal	

Frame sizes		S	M	L
Handlebar width		620	620	620
Stem length		90	105	120
Stem angle		15	15	15
Crank length		170	175	175
Seatpost length		270	350	350
Steerer, mm		204	204	224
Rear shock #		700	800	1050
Fork length		443 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		74.4	73.4	72.3
MM	Standover	686	697	721
	Seat tube	381	457	533
	Head tube	125	125	145
	Eff top tube	560	600	640
	Reach	619	678	730
	Chainstays	421	421	421
	BB height	306	306	306
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1051	1081	1110
IN	Standover	27.0	27.4	28.4
	Seat tube	15.0	18.0	21.0
	Head tube	4.9	4.9	5.7
	Eff top tube	22.0	23.6	25.2
	Reach	24.4	26.7	28.7
	Chainstays	16.6	16.6	16.6
	BB height	12.0	12.0	12.0
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.4	42.6	43.7

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

30.5 lb.
13.85 kg.

VRX 300

Our Price: $_____

Main tubes	6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	Manitou SX	80mm travel	
Rear shock	Cane Creek AD-5	1.25" stroke, 123mm rear wheel travel 165mm" eye to eye, 7/8" ends	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Graphite	25.4mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Down pull, Plate style	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Avid Single Digit 10, linear pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52E	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front wheel	Rolf Dolomite	Velox 19mm rimstrip	
Front tire	Bontrager Jones AC, folding	49/54	
Rear wheel	Rolf Dolomite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC, folding	47/52	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	20 spoke Radial Front 250	24 spoke 2 Rear 261/260 rear (D/ND)
Saddle	Bontrager FS 2000, Cro-Moly		
Seatpost	ICON Graphite, 2014	31.6mm diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Bright Silver / Red fork • White/red decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

29.5 lb.
13.39 kg.

		S	M	L
Frame sizes		S	M	L
Handlebar width		580	580	580
Stem length		90	105	120
Stem angle		7	7	7
Crank length		170	175	175
Seatpost length		270	350	350
Steerer, mm		206	206	226
Fork length		443 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		74.4	73.4	72.3
MM	Standover	686	697	721
	Seat tube	381	457	533
	Head tube	125	125	145
	Eff top tube	560	600	640
	Reach	624	683	737
	Chainstays	421	421	421
	BB height	306	306	306
	Offset	38	38	38
	Trail	75	75	75
	Wheelbase	1051	1081	1110
IN	Standover	27.0	27.4	28.4
	Seat tube	15.0	18.0	21.0
	Head tube	4.9	4.9	5.7
	Eff top tube	22.0	23.6	25.2
	Reach	24.5	26.9	29.0
	Chainstays	16.6	16.6	16.6
	BB height	12.0	12.0	12.0
	Offset	1.5	1.5	1.5
	Trail	3.0	3.0	3.0
	Wheelbase	41.4	42.6	43.7

Our Price: $_____

VRX 200

Main tubes	6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	RockShox Judy XC	80mm travel	
Rear shock	Cane Creek AD-5	1.25" stroke, 123mm rear wheel travel 165mm" eye to eye, 7/8" ends	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	ICON Stronghold	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore RapidFire+		
Front derailleur	Shimano Deore LX	Down pull, Plate style	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV77E direct pull		
Crankset	ICON Obsidian, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27E	73 x 113	
Pedals	Alloy/alloy cage, clipless adaptable	9/16" axle	
Cassette	Shimano HG50 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front wheel	Rolf Satellite	Velox 19mm rimstrip	
Front tire	Bontrager Jones AC, folding	49/54	
Rear wheel	Rolf Satellite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC, folding	47/52	
Tubes	Presta valve, ultra light		
Spokes	DT 14G stainless	20 spoke Radial Front 254	24 spoke 2 Rear 265/263 rear (D/ND)
Saddle	Bontrager FS 2000		
Seatpost	SP-312 alloy micro-adjust	31.6mm diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Trek Red / Yellow fork • White/yellow decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

29.5 lb.
13.39 kg.

		S	M	L
Frame sizes		S	M	L
Handlebar width		580	580	580
Stem length		90	105	120
Stem angle		15	15	15
Crank length		170	175	175
Seatpost length		270	320	370
Steerer, mm		208	208	228
Fork length		443 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		74.4	73.4	72.3
MM	Standover	686	697	721
	Seat tube	381	457	533
	Head tube	125	125	145
	Eff top tube	560	600	640
	Reach	617	676	729
	Chainstays	421	421	421
	BB height	306	306	306
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1051	1081	1110
IN	Standover	27.0	27.4	28.4
	Seat tube	15.0	18.0	21.0
	Head tube	4.9	4.9	5.7
	Eff top tube	22.0	23.6	25.2
	Reach	24.3	26.6	28.7
	Chainstays	16.6	16.6	16.6
	BB height	12.0	12.0	12.0
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.4	42.6	43.7

Y 3

Our Price: $_____

Main tubes	6061 T6 Trek design aluminum		
Stays	Cro-Moly		
Fork	RockShox Jett	65mm travel	
Rear shock	Fox Vanilla coilover	1.5" stroke, 102mm rear wheel travel 6.5" eye to eye, 5/8" & 7/8" ends	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 6° bend, 25mm rise	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Bontrager dual density		
Shifters	Shimano Alivio RapidFire+		
Front derailleur	Shimano Alivio	Top pull (low clamp only), 34.9 mm/1 3/8"	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV77E direct pull		
Crankset	Shimano Acera-X 42/32/22	Riveted	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Resin/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG60 11-30	8spd	
Chain	IG31	106 length, 3/32"	
Front hub	KT W55F		
Front rim	Bontrager Corvair	Velox 19mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve		
Spokes	14G stainless	32 spoke 3x Front 264	32 spoke 3x Rear 262/263 rear (D/ND)
Saddle	Trek Hi-density foam		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	1 water bottle mount		
Colors	Black Gold / Black fork • White decal		

	22	32	42
11	52	76	100
13	44	65	85
15	38	56	73
17	34	49	65
20	29	42	55
23	25	36	48
26	22	32	42
30	19	28	37

29.9 lb.
13.57 kg.

		S	M	L
	Frame sizes			
	Handlebar width	620	620	620
	Stem length	90	105	120
	Stem angle	15	15	15
	Crank length	170	175	175
	Seatpost length	300	350	350
	Steerer, mm	188	208	208
	Rear shock #	600	700	800
	Fork length	427 mm axle-crown race		
	Head angle	71.0	71.0	71.0
	Seat angle	74.0	73.0	72.0
MM	Standover	710	740	739
	Seat tube	432	483	533
	Head tube	105	125	125
	Eff top tube	564	612	644
	Reach	621	688	733
	Chainstays	425	425	425
	BB height	302	302	302
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1047	1087	1109
IN	Standover	28.0	29.1	29.1
	Seat tube	17.0	19.0	21.0
	Head tube	4.1	4.9	4.9
	Eff top tube	22.2	24.1	25.4
	Reach	24.5	27.1	28.9
	Chainstays	16.7	16.7	16.7
	BB height	11.9	11.9	11.9
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.2	42.8	43.7

LT: Long Travel hardtails

Who is a long travel hardtail for?

The long travel hardtail is for riding in rough terrain, but for the rider who wants the low weight and pedaling efficiency of a hardtail. And many riders like the lower cost of a long travel hardtail when compared to a full suspension bike.

What makes the long travel hardtail special?

Suspension should not bottom out, even when ridden hard. To do this, the suspension springs have to be stiff enough to absorb the energy. However, the longer the travel, the softer the springs can be and still prevent bottom out. So a long travel fork can be very plush compared to a shorter fork, while still offering the same total protection. With a softer spring, the bike is much more plush.

In addition, the longer fork slightly softens the head angle of the frame. With a slacker head angle and the same or similar fork offset (rake) the trail is increased, so the bike becomes more stable at speed.

If a rider likes to go fast, they will love a more stable, plusher feel. And the long travel hardtail does all this.

How much travel is there?

Our long travel forks are 100mm, or about four inches. The seatposts have about half that.

Sounds great. Why don't all hardtails use this setup?

Over the years, mountain bikes have settled into a fairly narrow range of head tube angles and offsets. For all-round riding, this 'NORBA geometry' as its been called has worked well. But since the steeper head angles became popular back in the mid-80's, mountain biking has become more diverse. Not everyone rides the same, at the same speeds, or on the same terrain. The long travel hardtail is designed to ride differently than an all-round trail bike. It works especially well on fast downhills.

Going up a steep hill, the slacker head angle on these bikes can make the steering a little light, or less precise. It takes a bit more skill to climb technical stnff. But for some, the trade-off in climbing is well worth the extra descending prowess.

What's the suspension seatpost for?

With the long travel front end of the bike taking on big hits and ruts, its pretty easy to become complacent about where you go. But remember, the rear wheel doesn't have suspension.

The result? If you don't pay attention, you can get some pretty hard whacks from the saddle. The suspension seatpost lets the rider stay seated a little longer, and it takes the sting out of the saddle if you accidentally let the rear wheel hit one of those big bumps with full force.

If the long travel hardtails work so well, why would someone bother with full suspension?

A good full suspension bike offers some additional benefits over a long travel hardtail.

First, on a VRX or STP the pedal to seat distance is fixed for more efficient pedaling. Even on a Trek Y bike where the bottom bracket moves, the most the saddle to pedal distance changes is about 1/4 inch. With a 50mm travel seatpost, that's almost 2 inches!

Second, with full suspension the unsprung weight is comprised of just the rear wheel and swingarm. Contrast that to a long travel hardtail, where the whole rear of the bike is unsprung, including water bottles and tool bag. This additional unsprung weight means the wheels don't follow the ground as well, and that more bump forces will be transferred to the rider.

How should I set up the long travel hardtail?

First, establish the correct fork sag, which should be about 15 to 20mm.

The rider's preference should be taken into account when adjusting the seatpost, but most folks prefer only a little sag. Using less sag leaves more travel for a big hit, and also means less pedal bob, and it will be easier to get on the bike. Remember, if the seatpost sags a lot, in its unsagged position it will taller by the amount of sag. And the taller the saddle, the harder it is to get on the bike.

8500 LT

Our Price: $ _____

Main tubes	Alpha SL aluminum		
Stays	Alpha SL aluminum		
Fork	Marzocchi Z.3 Flylight	100mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Graphite	25.4mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore XT RapidFire SL		
Front derailleur	Shimano Deore LX	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano XTR SGS		
Brakes	Hayes Disc, full hydraulic		
Brake levers	Hayes hydraulic		
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front wheel	Rolf Dolomite Disc	Velox 22mm rimstrip	
Front tire	Bontrager Jones AC, folding	49/54	
Rear wheel	Rolf Dolomite Disc	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC, folding	47/52	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	24 spoke Radial Front 263/261	24 spoke 3x Rear 262/264 rear (D/ND)
Saddle	Bontrager FS2000, Cro-Moly		
Seatpost	RockShox shock absorber	31.6 w/shim diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Candy Red/ Polish/black fork • Black decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

24.5 lb.
11.12 kg.

Frame sizes		S	M	L	XL
Handlebar width		620	620	620	620
Stem length		90	105	105	120
Stem angle		7	7	7	7
Crank length		175	175	175	175
Seatpost length		350	350	350	350
Steerer, mm		188	208	228	248
Fork length		445 mm axle-crown race			
Head angle		71.0	71.0	71.0	71.0
Seat angle		73.5	73.0	73.0	72.5
MM	Standover	706	742	780	821
	Seat tube	394	445	495	546
	Head tube	105	125	145	165
	Eff top tube	550	588	625	641
	Reach	614	671	708	738
	Chainstays	424	424	424	424
	BB height	297	297	297	300
	Offset	42	42	42	42
	Trail	71	71	71	71
	Wheelbase	1030	1064	1101	1114
IN	Standover	27.8	29.2	30.7	32.3
	Seat tube	15.5	17.5	19.5	21.5
	Head tube	4.1	4.9	5.7	6.5
	Eff top tube	21.7	23.1	24.6	25.2
	Reach	24.2	26.4	27.9	29.1
	Chainstays	16.7	16.7	16.7	16.7
	BB height	11.7	11.7	11.7	11.8
	Offset	1.7	1.7	1.7	1.7
	Trail	2.8	2.8	2.8	2.8
	Wheelbase	40.6	41.9	43.3	43.9

Our Price: $ _____

8000 LT

Main tubes	Alpha SL aluminum		
Stays	Alpha SL aluminum		
Fork	RockShox Judy Race	100mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Onyx	25.4mm clamp diameter	
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Hayes Disc, full hydraulic		
Brake levers	Hayes hydraulic		
Crankset	ICON Onyx, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front hub	Formula disc		
Front rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Formula disc	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve, ultra light		
Spokes	DT 14G stainless	32 spoke Radial Front 264/262	32 spoke 3x Rear 262/264 rear (D/ND)
Saddle	Bontrager FS2000, Cro-Moly		
Seatpost	Tamer Post-Centric OR	31.6mm diameter w/shim	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Metallic slate/ Orange fork • Dark blue decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

25.6 lb.
11.62 kg.

Frame sizes		S	M	L	XL
Handlebar width		620	620	620	620
Stem length		90	105	105	120
Stem angle		15	15	15	15
Crank length		170	175	175	175
Seatpost length		365	365	365	365
Steerer, mm		189	209	229	249
Fork length		445 mm axle-crown race			
Head angle		71.0	71.0	71.0	71.0
Seat angle		73.5	73.0	73.0	72.5
MM	Standover	706	742	780	821
	Seat tube	394	445	495	546
	Head tube	105	125	145	165
	Eff top tube	550	588	625	641
	Reach	607	664	701	730
	Chainstays	424	424	424	424
	BB height	297	297	297	300
	Offset	42	42	42	42
	Trail	71	71	71	71
	Wheelbase	1030	1064	1101	1114
IN	Standover	27.8	29.2	30.7	32.3
	Seat tube	15.5	17.5	19.5	21.5
	Head tube	4.1	4.9	5.7	6.5
	Eff top tube	21.7	23.1	24.6	25.2
	Reach	23.9	26.1	27.6	28.7
	Chainstays	16.7	16.7	16.7	16.7
	BB height	11.7	11.7	11.7	11.8
	Offset	1.7	1.7	1.7	1.7
	Trail	2.8	2.8	2.8	2.8
	Wheelbase	40.6	41.9	43.3	43.9

Pro Geometry

Who is Pro Geometry for?

This design means a bike has the handling and manners needed for the higher racing speeds found on the NORBA race circuit. Instead of making a bike that steers quickly so you can adjust your line in a turn, this bike has additional directional stability that lets you pick a line early and hold it. It has a touch of understeer, so if you go into a corner a little too hot, just lean it in a bit more with a touch of rear brake, and go. Instead of skittering around and washing the front tire, the additional lean puts more edge knobs onto the ground, and a Pro Geometry bike really carves. Coupled with a lightweight frame, Pro Geometry makes a bike quick from edge to edge, so it handles tight turns really well. And the longer wheelbase works like a giant slalom ski so high speed fire road riding is way fun.

How does Pro Geometry handle?

This design makes for a bike that likes to be counter-steered, an advanced handling technique where the bike is leaned deeply into a turn while the rider keeps their upper body more upright. Like a skier, this keeps the body balanced and agile, and puts the edge knobs into the turn, where hard biting traction is at its cornering best. Pick a line and the Pro Geometry will hold it. This is important, because the Pros are going too fast to change lines in a corner. They just use their awesome talent to pick the line early, and Pro geometry does the rest.

By using a longer front-center (the distance from the cranks to the front axle) the front wheel is pushed further ahead of the rider. Anytime you find yourself moving back on your bike, its in response to your body wanting to flip over the front axle. This happens on steep downhills, and also any time the bike is moving at high speed in rough terrain. When the Trek engineers moved the front axle forward, it added resistance to over-the-bars flight. You're more relaxed at speed, and since you're more in the saddle than behind it, you're in a better pedaling position to keep the power on.

With a longer front-center, the bike requires a longer top tube unless you want some pretty funny steering geometry.

How does it steer?

The shorter stem used with Pro Geometry puts your hands closer to the steering axis so steering can be done with your arms instead of a sweeping sideways movement of your shoulders. Your hands can move faster than your shoulders, so technical steering is precise at high speed.

Doesn't the short stem make the bike climb poorly?

Common sense tells us that a longer front center places less weight on the front wheel. Intuition tells us that with less weight on the front wheel, the bike might not climb well. But geometry charts only tell part of the story, and this bike actually climbs very well. Here's two reasons why: with a shorter stem, the riders shoulders stay more over the centerline of the bike, even when turning. When your center of gravity stays over the frame centerline, the bike stays in better balance. With Pro Geometry, its even easier to hold your line on steep, slow speed climbs. Secondly, when climbing hard in first gear any bike will respond to the pressure of pedaling. Imagine if the headset were placed in the middle of the bike, right below the saddle. The bike would hinge in the middle, between contact patches of the tires. With every pedal stroke the rear wheel would turn away from the pedaling force. As a result, the front wheel would turn toward the pedal side, and the bike would swim like a salmon heading upstream. But the further ahead you move the pivot (headset), and the closer to the rider's hands, the straighter the bike will climb. With the shorter stem used in Pro geometry, the rider stays over the bike, and the bike tracks straighter, making it climb very well indeed.

Fitting Pro Geometry frames

Pro Geometry bikes (OCLV hardtails, Alpha SLR, VRX, and STP) are designed to put the rider in a similar position to our other performance mountain bikes. The only difference in position is that the larger sizes of Pro Geometry use taller head tubes than we offered in the past. With taller head tubes and 25mm of spacers it may be necessary to move some spacers to the top of the stem for some customer's preferred fit.

Mechanic's Notes

With OCLV frames, do not grease the seatpost. OCLV bikes have a fiberglass sleeve bonded into their carbon seat tube. This sleeve prevents galvanic corrosion of the seatpost and carbon, so no grease is needed, nor recommended. If grease is applied, it may be very difficult to get adequate clamping force to hold the seatpost. If you have accidentally greased an OCLV frame, use a rag with some degreaser to remove the grease, using normal caution to protect bearings and paint.

OCLV hardtails, Alpha SLR, and VRX frames are designed to accept 31.6mm seat posts with a tolerance of 31.08 to 31.60mm outer diameter. Measure the seatpost for conformity to this tolerance prior to installation.

Be sure bottom bracket threads are clean and well greased before insertion. Failure to do so may cause galling of the threads, especially when inserting into an aluminum bottom bracket shell.

Triple clamp forks put additional stress on a bike frame applied by both the extra length and the extra stiffness. For this reason, triple clamp forks should not be put on any year 2000 Trek other than the VRX dual suspension frames.

Our Price: $ _____

Pro XC 9.9

Main tubes	OCLV carbon fiber composite	
Stays	OCLV carbon	
Fork	RockShox SID Race Lite	63mm travel
Headset	WTB Momentum AL Threadless	25.4/34.0/30.0, 30.6mm stack
Handlebars	ICON Sterling	25.4mm clamp diameter
Stem	ICON Sterling, direct connect	39.5mm steerer clamp height
Grips	Bontrager Ergo	
Shifters	Shimano XTR RapidFire SL	
Front derailleur	Shimano XTR	Top pull, Plate style
Rear derailleur	Shimano XTR SGS	
Brakes	Avid Single Digit Mag, linear pull	
Brake levers		Integrated brake/shift
Crankset	Shimano XTR 4 arm 46/34/24	112/68 mm bolt hole circle
Bottom bracket	Shimano XTR, cartridge	73 x 116
Pedals	Shimano SPD M858, clipless	9/16" axle
Cassette	Shimano XTR 12-34	9spd
Chain	Shimano Dura-Ace	108 length, 9 speed
Front wheel	Rolf Propel	Velox 19mm rimstrip
Front tire	Bontrager Super-X, 127tpi, folding	49/48
Rear wheel	Rolf Propel	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip
Rear tire	Bontrager Super-X, 127tpi, folding	47/46
Tubes	Presta valve, ultra light	
Spokes	DT Rev 14/17G (14/15 drive), alloy nips	20 spoke Radial Front 252 — 24 spoke 2 Rear 261/260 rear (D/ND)
Saddle	Selle Italia Flite, Gel, Ti/leather	
Seatpost	Thomson Elite	31.6mm diameter
Seat binder	Alloy w/integral bolt	39.85 clamp diameter
Additionals	3 water bottle mounts	
Colors	Team Blue/Black / Red fork • Black/blue/white decal	

	24	34	46
12	52	74	101
14	45	64	86
16	39	56	75
18	35	50	67
20	31	45	60
23	27	39	52
26	24	34	46
30	21	30	40
34	19	26	35

22.3 lb.
10.10 kg.

		M	L	XL
Frame sizes				
Handlebar width		580	580	580
Stem length		105	105	120
Stem angle		7	7	7
Crank length		175	175	180
Seatpost length		330	330	330
Steerer, mm		211	231	251
Fork length		427 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		73.0	73.0	72.5
Standover		744	782	821
MM	Seat tube	445	495	545
	Head tube	125	145	165
	Eff top tube	588	625	641
	Reach	664	708	737
	Chainstays	424	424	424
	BB height	297	297	297
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1064	1102	1113
	Standover	29.3	30.8	32.3
IN	Seat tube	17.5	19.5	21.5
	Head tube	4.9	5.7	6.5
	Eff top tube	23.1	24.6	25.2
	Reach	26.2	27.9	29.0
	Chainstays	16.7	16.7	16.7
	BB height	11.7	11.7	11.7
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.9	43.4	43.8

Elite XC 9.8

Our Price: $ _____

Main tubes	OCLV carbon fiber composite		
Stays	OCLV carbon		
Fork	Rock Shox SID SL	80mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Graphite	25.4mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Top pull, Plate style	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Avid Single Digit 20, direct pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52E	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front wheel	Rolf Dolomite	Velox 19mm rimstrip	
Front tire	Bontrager Super-X, 127tpi, folding	49/48	
Rear wheel	Rolf Dolomite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Super-X, 127tpi, folding	47/46	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	20 spoke Radial Front 250	24 spoke 2x Rear 260/261 rear (D/ND)
Saddle	Bontrager FS 2000, Cro-Moly/leather		
Seatpost	ICON Graphite, 2014	31.6mm diameter	
Seat binder	Alloy w/integral bolt	39.85 clamp diameter	
Additionals	3 water bottle mounts		
Colors	Bright Silver / Red fork • Blue/ white decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

22.3 lb.
10.10 kg.

Frame sizes		M	L	XL
Handlebar width		580	580	580
Stem length		105	105	120
Stem angle		7	7	7
Crank length		175	175	175
Seatpost length		350	350	350
Steerer, mm		208	228	248
Fork length		426.5 mm axle-crown race		
Head angle		71.0	71.0	71.0
Seat angle		73.0	73.0	72.5
MM	Standover	744	782	821
	Seat tube	445	495	545
	Head tube	125	145	165
	Eff top tube	588	625	641
	Reach	665	708	738
	Chainstays	424	424	424
	BB height	297	297	297
	Offset	42	42	42
	Trail	71	71	71
	Wheelbase	1064	1102	1113
IN	Standover	29.3	30.8	32.3
	Seat tube	17.5	19.5	21.5
	Head tube	4.9	5.7	6.5
	Eff top tube	23.1	24.6	25.2
	Reach	26.2	27.9	29.1
	Chainstays	16.7	16.7	16.7
	BB height	11.7	11.7	11.7
	Offset	1.7	1.7	1.7
	Trail	2.8	2.8	2.8
	Wheelbase	41.9	43.4	43.8

8500 R

Our Price: $ _____

Main tubes	Alpha SL aluminum		
Stays	Alpha SL aluminum		
Fork	RockShox SID XC	80mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Graphite	25.4mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore XT RapidFire SL		
Front derailleur	Shimano Deore XT	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano XTR SGS		
Brakes	Avid Single Digit 20, linear pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	106 length, 9 speed	
Front wheel	Rolf Dolomite	Velox 19mm rimstrip	
Front tire	Bontrager Super-X, 127tpi, folding	49/48	
Rear wheel	Rolf Dolomite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Super-X, 127tpi, folding	47/46	
Tubes	Presta valve, ultra light		
Spokes	DT 14/15G butted stainless, alloy nips	20 spoke Radial Front 250	24 spoke 2 Rear 260/261 rear (D/ND)
Saddle	Bontrager FS 2000, Cro-Moly/leather		
Seatpost	ICON Graphite, 2014	31.6mm diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Gloss Black/ Black fork • Cyan/white decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

24.2 lb.
10.99 kg.

Frame sizes		S	M	L	XL
Handlebar width		580	580	580	580
Stem length		90	105	105	120
Stem angle		7	7	7	7
Crank length		175	175	175	175
Seatpost length		350	350	350	350
Steerer, mm		188	208	228	248
Fork length		445 mm axle-crown race			
Head angle		71.0	71.0	71.0	71.0
Seat angle		73.5	73.0	73.0	72.5
MM	Standover	706	742	780	821
	Seat tube	394	445	495	546
	Head tube	105	125	145	165
	Eff top tube	550	588	625	641
	Reach	614	671	708	738
	Chainstays	424	424	424	424
	BB height	297	297	297	300
	Offset	42	42	42	42
	Trail	71	71	71	71
	Wheelbase	1030	1064	1101	1114
IN	Standover	27.8	29.2	30.7	32.3
	Seat tube	15.5	17.5	19.5	21.5
	Head tube	4.1	4.9	5.7	6.5
	Eff top tube	21.7	23.1	24.6	25.2
	Reach	24.2	26.4	27.9	29.1
	Chainstays	16.7	16.7	16.7	16.7
	BB height	11.7	11.7	11.7	11.8
	Offset	1.7	1.7	1.7	1.7
	Trail	2.8	2.8	2.8	2.8
	Wheelbase	40.6	41.9	43.3	43.9

8000 R

Our Price: $_____

Main tubes	Alpha SL aluminum		
Stays	Alpha SL aluminum		
Fork	RockShox Judy Race	80mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Onyx	25.4mm clamp diameter	
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height	
Grips	Bontrager Ergo		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Avid Single Digit 20, direct pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Satellite	Velox 19mm rimstrip	
Front tire	Bontrager Jones AC, folding	49/54	
Rear wheel	Rolf Satellite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC, folding	47/52	
Tubes	Presta valve, ultra light		
Spokes	DT 14G stainless	20 spoke Radial Front 254	24 spoke 2 Rear 263/265 rear (D/ND)
Saddle	Bontrager FS2000, Cro-Moly		
Seatpost	ICON Onyx, 6061	31.6mm diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Team Blue/ Red fork • Black/white decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

24.6 lb.
11.17 kg.

	S	M	L	XL
Frame sizes	S	M	L	XL
Handlebar width	580	580	580	580
Stem length	90	105	105	120
Stem angle	15	15	15	15
Crank length	170	175	175	175
Seatpost length	270	350	350	350
Steerer, mm	189	209	229	249
Fork length	437 mm axle-crown race			
Head angle	71.0	71.0	71.0	71.0
Seat angle	73.5	73.0	73.0	72.5
MM Standover	706	742	780	821
Seat tube	394	445	495	546
Head tube	105	125	145	165
Eff top tube	550	588	625	641
Reach	607	664	701	730
Chainstays	424	424	424	424
BB height	297	297	297	300
Offset	42	42	42	42
Trail	71	71	71	71
Wheelbase	1030	1064	1101	1114
IN Standover	27.8	29.2	30.7	32.3
Seat tube	15.5	17.5	19.5	21.5
Head tube	4.1	4.9	5.7	6.5
Eff top tube	21.7	23.1	24.6	25.2
Reach	23.9	26.1	27.6	28.7
Chainstays	16.7	16.7	16.7	16.7
BB height	11.7	11.7	11.7	11.8
Offset	1.7	1.7	1.7	1.7
Trail	2.8	2.8	2.8	2.8
Wheelbase	40.6	41.9	43.3	43.9

Alpha ZX

Who is the Alpha ZX for?

These bikes are designed with classic "NORBA Racing" geometry, which in modern terms we would class as all-round geometry. As such, they handle well in a wide variety of racing conditions as well as technical singletrack. This makes them perfect bikes for weekend athletes, NORBA racers, or even aspiring novice mountain bikers who have an athletic approach to cycling.

How do Alpha ZX bikes handle?

The Alpha ZX frames have a balanced feel, with fairly quick steering. They handle well in tight corners, and are moderately stable at speed. For singletrack fun and occasional racing, these are great bikes. The specially designed Alpha tubeset gives the Alpha ZX bikes a smooth, light feeling that gets a rider through technical riding with a smile on their face.

The aggressive position and long-ish top tube provide a roomy cockpit with plenty of space for body english in technical terrain. The rider can easily transfer weight for efficient climbing either in or out of the saddle, and a smooth transition between the two positions.

Fitting Alpha ZX frames

Alpha ZX bikes are designed to put the rider in an aggressive mountain bike position. This means a forward leaning posture for good weight distribution and a powerful pedaling stance. Choose the frame size which puts the riders hands in the preferred position, then adjust the saddle accordingly.

Mechanic's Notes

Alpha ZX frames are designed to accept 27.2mm seat posts with a tolerance of 27.08 to 27.20mm outer diameter. Measure the seatpost for conformity to this tolerance prior to installation, and use grease prior to insertion.

Be sure bottom bracket threads are clean and well greased before insertion. Failure to do so may cause galling of the threads, especially when inserting iuto an aluminum bottom bracket shell.

Triple clamp forks put additioual stress on a bike frame applied by both the extra length and the extra stiffness. For this reason, triple clamp forks should uot be put on any year 2000 Trek other than the VRX dual suspension frames.

Our Price: $ _____ 7000

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	Manitou SX	80mm travel	
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack	
Handlebars	ICON Onyx	25.4mm clamp diameter	
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Avid Single Digit 10, direct pull		
Brake levers		Integrated brake/shift	
Crankset	ICON Onyx, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano B8-UN52	73 x 113	
Pedals	Bontrager RE-1, clipless	9/16" axle	
Cassette	Shimano HG70 11-32	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Bontrager Superstock	Velox 19mm rimstrip	
Front tire	Bontrager Jones AC	49/54	
Rear wheel	Bontrager Superstock	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip	
Rear tire	Bontrager Jones AC	47/52	
Tubes	Presta valve		
Spokes	DT 14G stainless	24 spoke Radial Front 254	28 spoke 3x / radial Rear 267/251 rear (D/ND)
Saddle	Bontrager FS 2000, Cro-Moly		
Seatpost	ICON Onyx, 6061 Al	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts (1 on XS)		
Colors	Pearl White / Cobalt fork • Cobalt decal		
	Metal Flake yellow / Cobalt fork • Cobalt decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

25.6 lb.
11.62 kg.

		XS	S	M	L	XL
	Frame sizes					
	Handlebar width	580	580	580	580	580
	Stem length	90	105	120	120	135
	Stem angle	15	15	15	15	15
	Crank length	170	175	175	175	175
	Seatpost length	250	350	350	350	350
	Steerer, mm	172	172	189	209	229
	Fork length	442 mm axle-crown race				
	Head angle	71.0	71.0	71.0	71.0	71.0
	Seat angle	74.0	73.5	73.0	73.0	72.5
MM	Standover	661	714	742	774	805
	Seat tube	330	419	457	495	533
	Head tube	90	90	105	125	145
	Eff top tube	536	566	584	596	610
	Reach	593	642	673	685	711
	Chainstays	424	424	424	424	424
	BB height	288	291	293	295	297
	Offset	38	38	38	38	38
	Trail	75	75	75	75	75
	Wheelbase	1015	1042	1057	1070	1080
IN	Standover	26.0	28.1	29.2	30.5	31.7
	Seat tube	13.0	16.5	18.0	19.5	21.0
	Head tube	3.5	3.5	4.1	4.9	5.7
	Eff top tube	21.1	22.3	23.0	23.5	24.0
	Reach	23.3	25.3	26.5	27.0	28.0
	Chainstays	16.7	16.7	16.7	16.7	16.7
	BB height	11.3	11.5	11.5	11.6	11.7
	Offset	1.5	1.5	1.5	1.5	1.5
	Trail	3.0	3.0	3.0	3.0	3.0
	Wheelbase	40.0	41.0	41.6	42.1	42.5

6500

Our Price: $ _____

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	Rock Shox Judy XC	63mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 6° bend, 25mm rise	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano Deore RapidFire+		
Front derailleur	Shimano Deore	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV77E direct pull		
Crankset	ICON Obsidian, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Alloy/alloy cage, clipless adaptable	9/16" axle	
Cassette	Shimano HG50 11-32,	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front hub	KT W55F		
Front rim	Bontrager Corvair	Velox 19mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve		
Spokes	14G stainless	32 spoke 3x Front	32 spoke 3x Rear
		264	262/263 rear (D/ND)
Saddle	Bontrager FS2000		
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts (1 on XS)		
Colors	Gloss Black / Red fork • Red decal		
	Trek Red / Red fork • Black decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

26.6 lb.
12.08 kg.

		XS	S	M	L	XL
	Frame sizes					
	Handlebar width	620	620	620	620	620
	Stem length	90	105	120	120	135
	Stem angle	15	15	15	15	15
	Crank length	170	175	175	175	175
	Seatpost length	300	350	350	350	350
	Steerer, mm	173	173	188	208	228
	Fork length	427 mm axle-crown race				
	Head angle	71.0	71.0	71.0	71.0	71.0
	Seat angle	74.0	73.5	73.0	73.0	72.5
MM	Standover	661	714	742	774	805
MM	Seat tube	330	419	457	495	533
MM	Head tube	90	90	105	125	145
MM	Eff top tube	536	566	584	596	610
MM	Reach	593	642	673	685	711
MM	Chainstays	424	424	424	424	424
MM	BB height	288	291	293	295	297
MM	Offset	42	42	42	42	42
MM	Trail	71	71	71	71	71
MM	Wheelbase	1015	1042	1057	1070	1080
IN	Standover	26.0	28.1	29.2	30.5	31.7
IN	Seat tube	13.0	16.5	18.0	19.5	21.0
IN	Head tube	3.5	3.5	4.1	4.9	5.7
IN	Eff top tube	21.1	22.3	23.0	23.5	24.0
IN	Reach	23.4	25.3	26.5	27.0	28.0
IN	Chainstays	16.7	16.7	16.7	16.7	16.7
IN	BB height	11.3	11.5	11.5	11.6	11.7
IN	Offset	1.7	1.7	1.7	1.7	1.7
IN	Trail	2.8	2.8	2.8	2.8	2.8
IN	Wheelbase	40.0	41.0	41.6	42.1	42.5

Our Price: $ _____

6000

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Manitou Magnum	75mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	ICON Stronghold	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano Alivio RapidFire+		
Front derailleur	Shimano Acera-X	Top pull, Plate style w/34.9mm clamp	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV77E, direct pull		
Crankset	Shimano Acera-X 42/32/22	Riveted	
Bottom bracket	Shimano BB-LP27E	73 x 113	
Pedals	Resin/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	IG31	106 length, 3/32"	
Front hub	KT W55F		
Front rim	Bontrager Corvair	Velox 19mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve		
Spokes	14G stainless	32 spoke 3x Front	32 spoke 3x Rear
		264	262/263 rear (D/ND)
Saddle	Trek Hi-density foam		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle/no rack on13)		
Colors	Titanium/ Red fork • Red decal		
	Pearl Navy / Red fork • White decal		

	22	32	42
11	52	76	100
13	44	65	85
15	38	56	73
17	34	49	65
20	29	42	55
23	25	36	48
26	22	32	42
30	19	28	37

27.2 lb.
12.35 kg.

		13	16.5	18	19.5	21	22.5
	Frame sizes						
	Handlebar width	580	580	580	580	580	580
	Stem length	90	110	110	130	130	130
	Stem angle	25	25	25	25	25	25
	Crank length	170	170	175	175	175	175
	Seatpost length	300	300	350	350	350	350
	Steerer, mm	173	173	188	208	228	268
	Fork length	438 mm axle-crown race					
	Head angle	70.5	71.0	71.0	71.0	71.0	71.0
	Seat angle	74.0	73.5	73.0	73.0	73.0	72.5
MM	Standover	650	712	741	772	802	839
MM	Seat tube	330	419	457	495	533	572
MM	Head tube	90	90	105	125	145	185
MM	Eff top tube	530	560	579	589	600	610
MM	Reach	576	628	647	672	683	693
MM	Chainstays	430	430	430	430	430	430
MM	BB height	288	295	298	298	298	300
MM	Offset	38	38	38	38	38	38
MM	Trail	79	75	75	75	75	75
MM	Wheelbase	1016	1039	1055	1066	1078	1084
IN	Standover	25.6	28.0	29.2	30.4	31.6	33.0
IN	Seat tube	13.0	16.5	18.0	19.5	21.0	22.5
IN	Head tube	3.5	3.5	4.1	4.9	5.7	7.3
IN	Eff top tube	20.9	22.0	22.8	23.2	23.6	24.0
IN	Reach	22.7	24.7	25.5	26.5	26.9	27.3
IN	Chainstays	16.9	16.9	16.9	16.9	16.9	16.9
IN	BB height	11.3	11.6	11.7	11.7	11.7	11.8
IN	Offset	1.5	1.5	1.5	1.5	1.5	1.5
IN	Trail	3.1	3.0	3.0	3.0	3.0	3.0
IN	Wheelbase	40.0	40.9	41.5	42.0	42.4	42.7

Women's Specific Design- Mountain

Most bikes are built for men

For years women have been riding bikes designed partly, if not totally, for men. Their dealer may have made a few parts substitutions which made their men's bike work pretty well for them, especially in larger sizes where the physiology differences between men and women are not as great. But smaller women, who vary more from smaller men in physiology, suffered not only fit problems but performance gaps as well. Riding serious off road terrain with less than perfect handling can take a lot of the fun out of mountain biking.

More than a dropped top tube

The new WSD bikes are spec'd with women's specific components, like saddles, bars, and crank lengths. The WSD mountain bikes have women's specific suspension forks with softer springs. Not to mention that these frames are a completely different geometry than the men's bikes.

So while most 'women's' bikes make due by just tweaking a mens bike with a few add-ons or maybe a dropped top tube, we completely redesigned these bikes to meet the needs of performance oriented smaller women.

Women sit on a bike differently

There are several major differences in how men and women sit on a bike. The most obvious and most discussed is the pelvic structure. A woman's hips are wider, and the bony protuberances we all sit on, called ischial tuberosities, are also wider apart. This accounts for the popularity of women's saddles that are wider in the back than a man's.

A man's pelvic structure allows him to roll his pelvis forward on the saddle and lean forward aggressively. For most women, this hurts. The result is a woman sits on a bike seat with her pelvis in a more upright position. Then consider that a woman, compared to a man, generally has shorter arms for comparable overall height. The result is the handlebars are hard to reach for the smaller woman on a man's machine.

Adjusting geometry to fit women

Trek engineers addressed these issues in several ways in the WSD geometry. To support their wider pelvis, women tend to sit further back on the saddle. With a steeper seat tube, the seat can be positioned placing the hips over the cranks for optimal power, while her butt is on the most comfortable part of the saddle. To adjust the reach for a more upright angle to the back, a shorter top tube is used. The handlebars are place higher by using a taller head tube, so her shorter arms can be at a relaxed angle for steering control and shock absorption.

These adjustments put the rider in a more comfortable, and powerful position. That makes hills easier and long rides less tiring. A common complaint among women riders is back pain, and the correct position goes a long way to alleviate this problem.

Some of the corrections Trek made to these frames can be made to a men's frame with similar results, especially with taller women where physiology does not vary as much from a man's. But any frame will handle its best with the weight distribution applied in a certain way, and a men's frame is designed to have a man's heavy shoulders pressed firmly onto the handlebars in a bent over position. When you put a woman, who already has lighter shoulders, in a more upright position, there is much less weight on the front wheel. The result is much less steering stability and the bike becomes harder to control.

Steering and weight distribution

Steering stability on a bike is a combination of trail and centering force. Trail is the distance from the steering axis at the ground to the tire contact patch. But for trail to make a bike stable, there needs to be weight on the bars to apply a centering effect. The greater the weight on the bars the more stable a given bike will be. This is why a touring bike with front panniers is more stable than it would be with only rear panniers.

A smaller man on a small bike still applies plenty of centering force for good steering and handling. To achieve a similar amount of steering stability for a small woman in a more upright position, more trail is needed. Not only does stability lend confidence to the rider, it also means that less strength is required to hold the bike in a line. This again addresses an important difference between men and women, that of upper body strength. By decreasing the head angle of the women's bike, she will get similar handling with a similar 'feel' to that designed into a man's bike for a man.

Our Price: $ _____ 8000 WSD

Main tubes	Alpha SLR aluminum	
Stays	Alpha SLR aluminum	
Fork	RockShox Judy Race, light springs	80mm travel
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack
Handlebars	ICON Onyx	25.4mm clamp diameter
Stem	ICON Onyx, direct connect	41.0mm steerer clamp height
Grips	Bontrager Ergo	
Shifters	Shimano Deore LX RapidFire+	
Front derailleur	Shimano Deore LX	Top pull, 34.9 mm/ 1 3/8"
Rear derailleur	Shimano Deore XT SGS	
Brakes	Avid Single Digit 20, direct pull	
Brake levers	Alloy LV30E, short reach direct pull	
Crankset	ICON Graphite, 4 arm 44/32/22	64/104 mm bolt hole circle
Bottom bracket	Shimano BB-UN52	73 x 113
Pedals	Bontrager RE-1, clipless	9/16" axle
Cassette	Shimano HG70 11-32	9spd
Chain	Shimano HG72	106 length, 9 speed
Front wheel	Rolf Satellite	Velox 19mm rimstrip
Front tire	Bontrager Jones AC, folding	49/54
Rear wheel	Rolf Satellite	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 22mm rimstrip
Rear tire	Bontrager Jones AC, folding	47/52
Tubes	Presta valve, ultra light	
Spokes	DT 14G stainless	20 spoke Radial Front, 24 spoke 2 Rear 254, 263/265 rear (D/ND)
Saddle	Bontrager FS 2000 WSD	
Seatpost	ICON Onyx, 6061 Al	31.6mm diameter
Seat binder	Alloy w/integral bolt	36.4 clamp diameter
Additionals	2 water bottle mounts (1 on XS)	
Colors	Team Blue / Orange fork • Black/white decal	

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

24.6 lb.
11.17 kg.

Frame sizes	XS	S	M
Handlebar width	560	560	560
Stem length	90	105	105
Stem angle	15	15	15
Crank length	170	175	175
Seatpost length	270	350	350
Steerer, mm	174	174	189
Fork length	437 mm axle-crown race		
Head angle	70.0	70.0	70.0
Seat angle	75.0	74.0	73.5
MM Standover	670	700	740
Seat tube	355	406	457
Head tube	90	90	105
Eff top tube	518	532	563
Reach	573	607	638
Chainstays	424	424	424
BB height	288	288	293
Offset	42	42	42
Trail	78	78	78
Wheelbase	1018	1023	1051
IN Standover	26.4	27.6	29.1
Seat tube	14.0	16.0	18.0
Head tube	3.5	3.5	4.1
Eff top tube	20.4	20.9	22.2
Reach	22.6	23.9	25.1
Chainstays	16.7	16.7	16.7
BB height	11.3	11.3	11.5
Offset	1.7	1.7	1.7
Trail	3.1	3.1	3.1
Wheelbase	40.1	40.3	41.4

6500 WSD

Our Price: $ _____

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	Rock Shox Judy XC, light springs	63mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 5° bend, 25mm rise	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Bontrager dual density		
Shifters	Shimano Deore RapidFire+		
Front derailleur	Shimano Deore	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV30E, short reach direct pull		
Crankset	ICON Obsidian, 4 arm 44/32/22	64/104 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Alloy/alloy cage, clipless adaptable	9/16" axle	
Cassette	Shimano HG50 11-32	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front hub	KT W55F		
Front rim	Bontrager Corvair	Velox 19mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve		
Spokes	14G stainless	32 spoke 3x Front	32 spoke 3x Rear
		264	262/263 rear (D/ND)
Saddle	Bontrager FS 2000 WSD		
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts (1 on XS)		
Colors	Blackberry/ Yellow fork • Silver decal		

	22	32	44
11	52	76	105
12	48	70	96
14	41	60	82
16	36	52	72
18	32	47	64
21	27	40	55
24	24	35	48
28	21	30	41
32	18	26	36

26.6 lb.
12.08 kg.

Frame sizes	XS	S	M
Handlebar width	620	620	620
Stem length	90	105	105
Stem angle	15	15	15
Crank length	170	170	175
Seatpost length	300	300	350
Steerer, mm	173	173	188
Fork length	427 mm axle-crown race		
Head angle	70.0	70.0	70.0
Seat angle	75.0	74.0	73.5
MM Standover	670	700	740
Seat tube	356	406	457
Head tube	90	90	105
Eff top tube	518	532	563
Reach	574	607	638
Chainstays	424	424	424
BB height	288	288	293
Offset	42	42	42
Trail	78	78	78
Wheelbase	1018	1023	1051
IN Standover	26.4	27.6	29.1
Seat tube	14.0	16.0	18.0
Head tube	3.5	3.5	4.1
Eff top tube	20.4	20.9	22.2
Reach	22.6	23.9	25.1
Chainstays	16.7	16.7	16.7
BB height	11.3	11.3	11.5
Offset	1.7	1.7	1.7
Trail	3.1	3.1	3.1
Wheelbase	40.1	40.3	41.4

6000 WSD

Our Price: $ _____

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Manitou Magnum, light springs	75mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	ICON Stronghold	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Bontrager Race, dual density		
Shifters	Shimano Alivio RapidFire+		
Front derailleur	Shimano Acera-X	Top pull, Plate style w/34.9mm clamp	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LV30E, short reach direct pull		
Crankset	Shimano Acera-X 42/32/22	Riveted	
Bottom bracket	Shimano BB-LP27E	73 x 113	
Pedals	Resin/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	IG31	106 length, 3/32"	
Front hub	KT W55F		
Front rim	Bontrager Corvair	Velox 19mm rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Corvair ASYM	Velox 22mm rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Presta valve		
Spokes	14G stainless	32 spoke 3x Front	32 spoke 3x Rear
		264	262/263 rear (D/ND)
Saddle	Trek Women's		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle/no rack on XS, S)		
Colors	Pearl White/ Cobalt fork • Cobalt decal		

	22	32	42
11	52	76	100
13	44	65	85
15	38	56	73
17	34	49	65
20	29	42	55
23	25	36	48
26	22	32	42
30	19	28	37

27.2 lb.
12.35 kg.

Frame sizes	XS	S	M
Handlebar width	560	560	560
Stem length	90	110	110
Stem angle	25	25	25
Crank length	170	170	175
Seatpost length	300	300	300
Steerer, mm	173	173	188
Fork length	438 mm axle-crown race		
Head angle	70.0	70.0	70.0
Seat angle	75.0	74.0	73.5
MM Standover	670	700	740
Seat tube	356	406	457
Head tube	90	90	105
Eff top tube	518	532	563
Reach	563	599	630
Chainstays	424	424	424
BB height	288	288	293
Offset	38	38	38
Trail	82	82	82
Wheelbase	1018	1023	1051
IN Standover	26.4	27.6	29.1
Seat tube	14.0	16.0	18.0
Head tube	3.5	3.5	4.1
Eff top tube	20.4	20.9	22.2
Reach	22.2	23.6	24.8
Chainstays	16.7	16.7	16.7
BB height	11.3	11.3	11.5
Offset	1.5	1.5	1.5
Trail	3.2	3.2	3.2
Wheelbase	40.1	40.3	41.4

4500

Our Price: $ _____

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	RockShox Jett	65mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 5° bend	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano EZ Fire+ EF33		
Front derailleur	Shimano Altus	Top pull, Plate style w/34.9mm clamp	
Rear derailleur	Shimano Alivio		
Brakes	Alloy TX88L direct pull		
Brake levers		Integrated brake/shift	
Crankset	Shimano Altus 42/34/24	Riveted	
Bottom bracket	Shimano BB-CT92E	73 x 110	
Pedals	Resin/steel cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	KMC Z-72	106 length, 3/32"	
Front hub	Alloy, QR		
Front rim	Alloy	Rubber rimstrip	
Front tire	Bontrager Jones	49/53	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Alloy	Rubber rimstrip	
Rear tire	Bontrager Jones	46/50	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		268	263/264 rear (D/ND)
Saddle	Oasis Supersoft		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")		
Colors	Gloss Black/Candy Gold / Black fork • Black/silver decal		
	Ball burnished / Black fork • Black decal		

	24	34	42
11	57	81	100
13	48	69	85
15	42	59	73
17	37	52	65
20	31	45	55
23	27	39	48
26	24	34	42
30	21	30	37

27.7 lb.
12.58 kg.

Frame sizes	13	16.5	18	19.5	21	22.5
Handlebar width	580	580	580	580	580	580
Stem length	90	110	110	130	130	130
Stem angle	25	25	25	25	25	25
Crank length	170	170	170	170	170	170
Seatpost length	300	300	350	350	400	400
Steerer, mm	178	178	178	193	233	273
Fork length	425 mm axle-crown race					
Head angle	70.5	71.0	71.0	71.0	71.0	71.0
Seat angle	74.0	73.5	73.0	73.0	73.0	72.5
MM Standover	647	709	735	764	801	838
MM Seat tube	330	419	457	495	533	572
MM Head tube	90	90	90	105	145	185
MM Eff top tube	530	560	579	589	600	610
MM Reach	575	627	646	670	681	691
MM Chainstays	430	430	430	430	430	430
MM BB height	288	295	298	298	298	300
MM Offset	42	42	42	42	42	42
MM Trail	74	71	71	71	71	71
MM Wheelbase	1016	1039	1056	1066	1078	1084
IN Standover	25.5	27.9	28.9	30.1	31.5	33.0
IN Seat tube	13.0	16.5	18.0	19.5	21.0	22.5
IN Head tube	3.5	3.5	3.5	4.1	5.7	7.3
IN Eff top tube	20.9	22.0	22.8	23.2	23.6	24.0
IN Reach	22.6	24.7	25.4	26.4	26.8	27.2
IN Chainstays	16.9	16.9	16.9	16.9	16.9	16.9
IN BB height	11.3	11.6	11.7	11.7	11.7	11.8
IN Offset	1.7	1.7	1.7	1.7	1.7	1.7
IN Trail	2.9	2.8	2.8	2.8	2.8	2.8
IN Wheelbase	40.0	40.9	41.6	42.0	42.4	42.7

4300

Our Price: $ _____

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	Cro-Moly		
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 5° bend (Women's 50mm rise)	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano EZ Fire+ EF33		
Front derailleur	Shimano Altus	Top pull, Plate style w/34.9mm clamp	
Rear derailleur	Shimano Alivio		
Brakes	Alloy TX88L direct pull front, (TX95L rear women's)		
Brake levers	Shimano, direct pull		
Crankset	Shimano Altus 42/34/24	Riveted	
Bottom bracket	Shimano BB-CT92E	73 x 121	
Pedals	Resin/steel cage	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	KMC Z-72	108 length, 3/32"	
Front hub	Alloy, QR		
Front rim	Alloy	Rubber rimstrip	
Front tire	Trek Connection	26 x 1.95	
Rear wheel	Alloy, QR	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
	Alloy	Rubber rimstrip	
Rear tire	Trek Connection	26 x 1.95	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		267	264/266 rear (D/ND)
Saddle	Oasis Supersoft		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on 13)		
Colors	Gloss Black/Trek Red • Black/silver decal		
	Inkwell • Silver decal		

	24	34	42
11	57	81	100
13	48	69	85
15	42	59	73
17	37	52	65
20	31	45	55
23	27	39	48
26	24	34	42
30	21	30	37

27.2 lb.
12.35 kg.

Frame sizes	13	16.5	18	19.5	21	22.5	17W	20W
Handlebar width	580	580	580	580	580	580	580	580
Stem length	90	110	110	130	130	130	110	110
Stem angle	25	25	25	25	25	25	40	40
Crank length	170	170	170	170	170	170	170	170
Seatpost length	300	300	350	350	400	400	350	350
Steerer, mm	178	178	193	213	233	273	213	233
Fork length	397 mm axle-crown race							
Head angle	70.5	71.0	71.0	71.0	71.0	71.0	71.0	71.0
Seat angle	74.0	73.5	73.0	73.0	73.0	72.5	73.5	73.0
MM Standover	650	712	741	772	802	839	678	688
MM Seat tube	330	419	457	495	533	572	419	495
MM Head tube	90	90	105	125	145	185	125	145
MM Eff top tube	530	560	579	589	600	610	558	588
MM Reach	575	627	646	670	681	691	602	632
MM Chainstays	430	430	430	430	430	430	430	430
MM BB height	288	295	298	298	298	300	295	295
MM Offset	38	38	38	38	38	38	38	38
MM Trail	79	75	75	75	75	75	75	75
MM Wheelbase	1016	1039	1055	1066	1078	1084	1039	1066
IN Standover	25.6	28.0	29.2	30.4	31.6	33.0	26.7	27.1
IN Seat tube	13.0	16.5	18.0	19.5	21.0	22.5	16.5	19.5
IN Head tube	3.5	3.5	4.1	4.9	5.7	7.3	4.9	5.7
IN Eff top tube	20.9	22.0	22.8	23.2	23.6	24.0	22.0	23.1
IN Reach	22.6	24.7	25.4	26.4	26.8	27.2	23.7	24.9
IN Chainstays	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
IN BB height	11.3	11.6	11.7	11.7	11.7	11.8	11.6	11.6
IN Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
IN Trail	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
IN Wheelbase	40.0	40.9	41.5	42.0	42.4	42.7	40.9	42.0

820

Our Price: $ _____

Main tubes	Double-butted Cro-Moly steel		
Stays	High tensile steel		
Fork	Sync 288	63mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Steel, 5° bend, 30mm rise	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano EZ Fire+ EF28		
Front derailleur	Shimano Altus	Down pull, Plate style w/31.8mm clamp	
Rear derailleur	Shimano Acera-X		
Brakes	Alloy TX88L direct pull		
Brake levers		Integrated brake/shift	
Crankset	Shimano Altus 42/34/24	Riveted	
Bottom bracket	Cartridge	68 x 116	
Pedals	Resin/steel cage	9/16" axle	
Cassette	Shimano HG30-I 11-28	7spd	
Chain	KMC Z-51	108 length, 3/32"	
Front hub	Alloy, QR		
Front rim	Alloy Rubber rimstrip		
Front tire	Knobby, center connect	26 x 1.95	
Rear hub	Alloy, QR	HyperGlide cassette, 7spd, 135mm O.L.D.	
Rear rim	Alloy Rubber rimstrip		
Rear tire	Knobby, center connect	26 x 1.95	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		267	264/266 rear (D/ND)
Saddle	Oasis Supersoft		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Quick release, 47mm		
Additionals	2 water bottle mounts, rack mounts (1 bottle on 13, 17W, 20W, no rack on 13)		
Colors	Gloss Black/Bright Silver • Black/red decal		
	Rainforest • Gold decal		

	24	34	42
11	57	81	100
13	48	69	85
15	42	59	73
18	35	50	61
21	30	42	52
24	26	37	46
28	22	32	39

31.4 lb.
14.27 kg.

Frame sizes	13	16.5	18	19.5	21	22.5	17W
Handlebar width	600	600	600	600	600	600	600
Stem length	90	110	110	130	130	130	110
Stem angle	25	25	25	25	25	25	25
Crank length	170	170	170	170	170	170	170
Seatpost length	300	300	350	350	400	400	350
Steerer, mm	178	178	178	193	233	273	193
Fork length	435 mm axle-crown race						
Head angle	70.0	70.5	70.5	70.5	71.0	71.0	70.5
Seat angle	74.0	73.5	73.0	73.0	72.5	72.0	73.5
MM Standover	638	697	722	754	790	827	501
Seat tube	330	419	457	495	533	572	432
Head tube	90	90	90	105	145	185	105
Eff top tube	528	545	555	565	575	585	542
Reach	572	611	621	645	656	666	608
Chainstays	435	435	435	435	435	435	435
BB height	288	291	291	293	293	295	283
Offset	38	38	38	38	38	38	38
Trail	82	79	79	79	75	75	79
Wheelbase	1023	1032	1038	1049	1051	1057	1027
IN Standover	25.1	27.4	28.4	29.7	31.1	32.6	19.7
Seat tube	13.0	16.5	18.0	19.5	21.0	22.5	17.0
Head tube	3.5	3.5	3.5	4.1	5.7	7.3	4.1
Eff top tube	20.8	21.5	21.9	22.2	22.6	23.0	21.3
Reach	22.5	24.0	24.4	25.4	25.8	26.2	23.9
Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1
BB height	11.3	11.5	11.5	11.5	11.5	11.6	11.1
Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Trail	3.2	3.1	3.1	3.1	3.0	3.0	3.1
Wheelbase	40.3	40.6	40.9	41.3	41.4	41.6	40.4

Our Price: $ _____

800

Main tubes	Double-butted Cro-Moly steel	
Stays	High tensile steel	
Fork	Cro-Moly	
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack
Handlebars	Alloy, 5° bend (Women's 60mm rise)	25.4mm clamp diameter
Stem	ATB	25.4mm insertion
Grips	Trek Oasis, dual density	
Shifters	GripShift ESP-5.0	
Front derailleur	Shimano Altus	Down pull, Plate style w/31.8mm clamp
Rear derailleur	GripShift ESP 5.0	
Brakes	Alloy TX88L direct pull (TX95L rear women's)	
Brake levers	Alloy LG77E, direct pull	
Crankset	Shimano Acera-X 42/32/22	Riveted
Bottom bracket	Cartridge	68 x 116
Pedals	Platform	9/16" axle
Cassette	11-30	8spd
Chain	KMC Z-72	108 length, 3/32"
Front hub	Alloy, QR	
Front rim	Aluminum alloy	Rubber rimstrip
Front tire	Knobby, center connect	26 x 1.95
Rear hub	Alloy, QR	HyperGlide cassette, 8/9spd, 135mm O.L.D.
Rear rim	Aluminum alloy	Rubber rimstrip
Rear tire	Knobby, center connect	26 x 1.95
Tubes	Schraeder valve	
Spokes	14G stainless	36 spoke 3x Front / 267 — 36 spoke 3x Rear / 264/266 rear (D/ND)
Saddle	Oasis	
Seatpost	Alloy micro-adjust	27.2mm diameter
Seat binder	Quick release, 47mm	
Additionals	2 water bottle mounts (1 bottle on 13, 17W, 20W), rack mounts (no rack on 13")	
Colors	Pearl White/ Team Blue • White/black decal	
	Ice Red • Silver decal	

	22	32	42
11	52	76	100
13	44	65	85
15	38	56	73
17	34	49	65
20	29	42	55
23	25	36	48
26	22	32	42
30	19	28	37

29.2 lb.
13.27 kg.

Frame sizes	13	16.5	18	19.5	21	22.5	24	17W	20W
Handlebar width	580	580	580	580	580	580	580	580	600
Stem length	105	105	105	120	120	135	135	120	120
Stem angle	40	40	40	40	40	40	40	40	40
Crank length	170	170	170	175	175	175	175	170	170
Seatpost length	300	300	350	350	400	400	400	350	350
Steerer, mm	127	127	127	142	182	222	262	142	182
Fork length	396 mm axle-crown race								
Head angle	70.0	70.5	70.5	70.5	71.0	71.0	71.0	70.5	70.5
Seat angle	74.0	73.5	73.0	73.0	72.5	72.0	72.0	73.5	73.0
MM Standover	638	697	722	754	790	827	863	501	501
Seat tube	330	419	457	495	533	572	610	432	508
Head tube	90	90	90	105	145	185	225	105	145
Eff top tube	528	545	555	565	575	585	595	542	550
Reach	573	591	601	618	629	647	657	595	603
Chainstays	435	435	435	435	435	435	435	435	435
BB height	288	291	291	293	293	295	295	283	283
Offset	38	38	38	38	38	38	38	38	38
Trail	82	79	79	79	75	75	75	79	79
Wheelbase	1023	1032	1038	1049	1051	1057	1068	1027	1031
IN Standover	25.1	27.4	28.4	29.7	31.1	32.6	34.0	19.7	19.7
Seat tube	13.0	16.5	18.0	19.5	21.0	22.5	24.0	17.0	20.0
Head tube	3.5	3.5	3.5	4.1	5.7	7.3	8.9	4.1	5.7
Eff top tube	20.8	21.5	21.9	22.2	22.6	23.0	23.4	21.3	21.7
Reach	22.5	23.2	23.6	24.3	24.8	25.5	25.9	23.4	23.7
Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
BB height	11.3	11.5	11.5	11.5	11.5	11.6	11.6	11.1	11.1
Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Trail	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.1	3.1
Wheelbase	40.3	40.6	40.9	41.3	41.4	41.6	42.0	40.4	40.6

800 Sport

Our Price: $ _____

Main tubes	Hi Tensile steel w/Cro-Moly seat tube		
Stays	High tensile steel		
Fork	High tensile steel		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 60mm rise	25.4mm clamp diameter	
Stem	AT8	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	GripShift MRX-I8S		
Front derailleur	Shimano TY-32	Down pull, Plate style, 31.8	
Rear derailleur	Shimano Acera-X		
Brakes		Integrated	
Brake levers	Alloy LG68, direct pull		
Crankset	Shimano Tourney TY30 48/38/28	Riveted	
Bottom bracket	VP-BC55P semi-cartridge	68 x 122.5	
Pedals	Platform	9/16" axle	
Cassette	HG72 13-28	7spd	
Chain	KMC Z-51	110 length, 3/32"	
Front hub	Alloy, QR		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Knobby, center connect	26 x 1.95	
Rear hub	Alloy, QR	Threaded, 7spd, QR ft/rr, 135mm O.L.D.	
Rear rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Knobby, center connect	26 x 1.95	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		265	262/264 rear (D/ND)
Saddle	Oasis Supersoft		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Bolt, M6 x 50		
Additionals	2 water bottle mounts (1 bottle on 13, 17W, 20W), rack mounts (no rack on 13")		
Colors	Navy Pearl/Metallic Green • Navy/silver decal		
	Blackberry • Gold decal		
	Gloss Black • Red decal		

	28	38	48
13	56	77	97
15	49	66	84
17	43	59	74
19	39	52	66
21	35	47	60
24	31	42	52
28	26	36	45

29.8 lb.
13.54 kg.

Frame sizes	13	16.5	18	19.5	21	22.5	13W	17W	20W
Handlebar width	580	580	610	610	610	610	580	580	610
Stem length	105	105	105	120	120	135	105	120	120
Stem angle	40	40	40	40	40	40	40	40	40
Crank length	170	170	170	170	170	170	170	170	170
Seatpost length	300	300	350	350	400	400	300	350	350
Steerer, mm	126	126	126	141	181	221	128	141	181
Fork length	397 mm axle-crown race								
Head angle	70.0	70.5	70.5	70.5	71.0	71.0	70.0	70.5	70.5
Seat angle	74.0	73.5	73.0	73.0	72.5	72.0	74.0	73.5	73.0
MM Standover	638	697	722	754	790	827	580	501	501
Seat tube	330	419	457	495	533	572	330	432	508
Head tube	90	90	90	105	145	185	90	103	143
Eff top tube	528	545	555	565	575	585	528	542	550
Reach	573	591	601	618	629	647	573	595	603
Chainstays	435	435	435	435	435	435	435	435	435
BB height	288	291	291	293	293	295	288	283	283
Offset	38	38	38	38	38	38	38	38	38
Trail	82	79	79	79	75	75	82	79	79
Wheelbase	1023	1032	1038	1049	1051	1057	1023	1027	1031
IN Standover	25.1	27.4	28.4	29.7	31.1	32.6	22.8	19.7	19.7
Seat tube	13.0	16.5	18.0	19.5	21.0	22.5	13.0	17.0	20.0
Head tube	3.5	3.5	3.5	4.1	5.7	7.3	3.5	4.1	5.6
Eff top tube	20.8	21.5	21.9	22.2	22.6	23.0	20.8	21.3	21.7
Reach	22.5	23.2	23.6	24.3	24.8	25.5	22.5	23.4	23.7
Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
BB height	11.3	11.5	11.5	11.5	11.5	11.6	11.3	11.1	11.1
Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Trail	3.2	3.1	3.1	3.1	3.0	3.0	3.2	3.1	3.1
Wheelbase	40.3	40.6	40.9	41.3	41.4	41.6	40.3	40.4	40.6

Our Price: $ _____

Navigator 400

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Sync 168	45mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 5° bend, 50mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise, Ahead type	41.0mm steerer clamp height	
Grips	Foam		
Shifters	Shimano Nexave RapidFire+		
Front derailleur	Shimano Nexave 301	Top pull, (W-down), Plate w/34.9 clamp	
Rear derailleur	Shimano Nexave 400		
Brakes	Alloy MD110 direct pull (TX95L rear women's)		
Brake levers		Integrated brake/shift	
Crankset	Shimano Nexave 400 48/38/28, w/chainguard	79 mm bolt hole circle	
Bottom bracket	TS BB7418	73 x 113	
Pedals	Platform	9/16" axle	
Cassette	Shimano HG40-I 11-34	8spd	
Chain	IG51	108 length, 3/32"	
Front hub	KT E55F		
Front rim	Alloy	Nylon rimstrip	
Front tire	Semi-smooth	26 x 1.75	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Alloy	Nylon rimstrip	
Rear tire	Semi-smooth	26 x 1.75	
Tubes	Schraeder valve		
Spokes	15G stainless	32 spoke 3x Front	32 spoke 3x Rear
		267	264/265 rear (D/ND)
Saddle	Oasis Webspring		
Seatpost	Shock absorber	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle/no rack on S), kickstand,		
Colors	Inkwell • Silver decals		

	28	38	48
11	67	91	114
13	56	77	97
15	49	66	84
17	43	59	74
20	37	50	63
23	32	43	55
26	28	38	48
34	22	29	37

31.8 lb.
14.45 kg.

Frame sizes	S	M	L	XL	XXL	W-M	W-L
Handlebar width	600	600	600	600	600	600	600
Stem length	110	110	110	110	110	110	110
Stem angle	45	45	45	45	45	45	45
Crank length	170	170	175	175	175	170	170
Seatpost length	300	300	350	350	350	300	350
Steerer, mm	173	208	228	268	308	208	248
Fork length	397 mm axle-crown race						
Head angle	70.0	70.5	70.5	70.5	70.5	70.5	70.5
Seat angle	74.0	73.5	73.0	73.0	72.5	73.5	73.0
MM Standover	629	679	716	760	810	595	604
Seat tube	305	368	419	470	533	368	419
Head tube	90	125	145	1B5	225	125	165
Eff top tube	526	544	559	579	595	540	548
Reach	554	580	595	615	631	576	584
Chainstays	435	435	435	435	435	435	435
BB height	287	287	287	287	287	283	283
Offset	38	38	38	38	38	38	38
Trail	82	79	79	79	79	79	79
Wheelbase	1021	1032	1042	1064	1076	1026	1031
IN Standover	24.8	26.7	28.2	29.9	31.9	23.4	23.8
Seat tube	12.0	14.5	16.5	18.5	21.0	14.5	16.5
Head tube	3.5	4.9	5.7	7.3	8.9	4.9	6.5
Eff top tube	20.7	21.4	22.0	22.8	23.4	21.3	21.6
Reach	21.8	22.9	23.4	24.2	24.9	22.7	23.0
Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1
BB height	11.3	11.3	11.3	11.3	11.3	11.1	11.1
Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Trail	3.2	3.1	3.1	3.1	3.1	3.1	3.1
Wheelbase	40.2	40.6	41.0	41.9	42.4	40.4	40.6

Navigator 300

Our Price: $ _____

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Cro-Moly		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Alloy, 5° bend, 50mm rise	25.4mm clamp diameter	
Stem	Adjustable rise suspension	25.4mm insertion	
Grips	Foam		
Shifters	Shimano C202 EZ Fire+		
Front derailleur	Shimano C102	Down pull, 34.9mm clamp	
Rear derailleur	Shimano C201		
Brakes	Alloy MD110 direct pull (TX95L rear women's)		
Brake levers		Integrated brake/shift	
Crankset	Shimano C201 48/38/28, w/chainguard	Riveted	
Bottom bracket	TS BB7700	73 x 110	
Pedals	Platform	9/16" axle	
Cassette	Shimano HG40-I 11-34	8spd	
Chain	KMC Z-51	108 length, 3/32"	
Front hub	KT E55F		
Front rim	Alloy	Nylon rimstrip	
Front tire	Semi-smooth	26 x 1.95	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Alloy	Nylon rimstrip	
Rear tire	Semi-smooth	26 x 1.95	
Tubes	Schraeder valve		
Spokes	15G stainless	32 spoke 3x Front	32 spoke 3x Rear
		267	264/266 rear (D/ND)
Saddle	Oasis Webspring		
Seatpost	Shock absorber	27.2mm diameter	
Seat binder	Alloy w/quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on S), kickstand		
Colors	Ice Red • Silver decal		
	Gloss Black • Silver decal		

	28	38	48
11	67	91	114
13	56	77	97
15	49	66	84
17	43	59	74
20	37	50	63
23	32	43	55
26	28	38	48
34	22	29	37

28.5 lb.
12.95 kg.

		S	M	L	XL	XXL	W-M	W-L
	Frame sizes							
	Handlebar width	600	600	600	600	600	600	600
	Stem length	115	115	115	115	115	115	115
	Stem angle	45	45	45	45	45	45	45
	Crank length	170	170	170	170	170	170	170
	Seatpost length	300	300	350	350	350	300	350
	Steerer, mm	126	161	181	221	261	161	201
	Fork length	397 mm axle-crown race						
	Head angle	70.0	70.5	70.5	70.5	70.5	70.5	70.5
	Seat angle	74.0	73.5	73.0	73.0	72.5	73.5	73.0
MM	Standover	629	679	716	760	810	595	604
	Seat tube	305	368	419	470	533	368	419
	Head tube	90	125	145	185	225	125	165
	Eff top tube	526	544	559	579	595	540	548
	Reach	567	586	601	621	637	582	590
	Chainstays	435	435	435	435	435	435	435
	BB height	287	287	287	287	287	283	283
	Offset	38	38	38	38	38	38	38
	Trail	82	79	79	79	79	79	79
	Wheelbase	1021	1032	1042	1064	1076	1026	1031
IN	Standover	24.8	26.7	28.2	29.9	31.9	23.4	23.8
	Seat tube	12.0	14.5	16.5	18.5	21.0	14.5	16.5
	Head tube	3.5	4.9	5.7	7.3	8.9	4.9	6.5
	Eff top tube	20.7	21.4	22.0	22.8	23.4	21.3	21.6
	Reach	22.3	23.1	23.7	24.5	25.1	22.9	23.2
	Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1
	BB height	11.3	11.3	11.3	11.3	11.3	11.1	11.1
	Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Trail	3.2	3.1	3.1	3.1	3.1	3.1	3.1
	Wheelbase	40.2	40.6	41.0	41.9	42.4	40.4	40.6

Our Price: $ _____

Navigator 200

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	High tensile steel		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 50mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	Shimano C102	Dashboard	
Front derailleur	Shimano C102	Down pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano C101		
Brakes	Alloy TX102L direct pull (TX95L rear women's)		
Brake levers		Integrated brake/shift	
Crankset	Shimano C102 48/38/28, w/chainguard	Riveted	
Bottom bracket	TS 887700	73 x 110	
Pedals	Platform	9/16" axle	
Cassette	Sun Race 11-34	7spd	
Chain	KMC Z-51	110 length, 3/32"	
Front hub	Alloy, QR		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Semi-smooth	26 x 1.95	
Rear hub	Alloy, QR	Threaded, 7spd, QR ft/rr, 135mm O.L.D.	
Front rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Semi-smooth	26 x 1.95	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		267	264/265 rear (D/ND)
Saddle	Oasis Webspring		
Seatpost	Shock absorber	27.2mm diameter	
Seat binder	Quick release	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on S), kickstand		
Colors	Rainforest • Silver decal		
	Bright Silver/ Metallic Slate fade • Blue decal		

	28	38	48
11	67	91	114
13	56	77	97
16	46	62	79
19	39	52	66
22	33	45	57
26	28	38	48
34	22	29	37

30.5 lb.
13.86 kg.

		S	M	L	XL	XXL	W-M	W-L
	Frame sizes							
	Handlebar width	600	600	600	600	600	600	600
	Stem length	90	110	110	110	110	90	110
	Stem angle	45	45	45	45	45	45	45
	Crank length	170	170	170	170	170	170	170
	Seatpost length	300	350	350	350	350	300	350
	Steerer, mm	125	160	180	220	260	160	200
	Fork length	396 mm axle-crown race						
	Head angle	70.0	70.5	70.5	70.5	70.5	70.5	70.5
	Seat angle	74.0	73.5	73.0	73.0	72.5	73.5	73.0
MM	Standover	629	679	716	760	810	595	604
	Seat tube	305	368	419	470	533	368	419
	Head tube	90	125	145	185	225	125	165
	Eff top tube	526	544	559	579	595	540	548
	Reach	557	584	599	619	635	572	588
	Chainstays	435	435	435	435	435	435	435
	BB height	287	287	287	287	287	283	283
	Offset	38	38	38	38	38	38	38
	Trail	82	79	79	79	79	79	79
	Wheelbase	1021	1032	1042	1064	1076	1026	1031
IN	Standover	24.8	26.7	28.2	29.9	31.9	23.4	23.8
	Seat tube	12.0	14.5	16.5	18.5	21.0	14.5	16.5
	Head tube	3.5	4.9	5.7	7.3	8.9	4.9	6.5
	Eff top tube	20.7	21.4	22.0	22.8	23.4	21.3	21.6
	Reach	21.9	23.0	23.6	24.4	25.0	22.5	23.2
	Chainstays	17.1	17.1	17.1	17.1	17.1	17.1	17.1
	BB height	11.3	11.3	11.3	11.3	11.3	11.1	11.1
	Offset	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Trail	3.2	3.1	3.1	3.1	3.1	3.1	3.1
	Wheelbase	40.2	40.6	41.0	41.9	42.4	40.4	40.6

7700

Our Price: $_____

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	RockShox Ruby Metro	30mm travel	
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Alloy, 5° bend	25.4mm clamp diameter	
Stem	Alloy Ahead type	41.0mm steerer clamp height	
Grips	Trek Oasis, dual density		
Shifters	Shimano Nexave RapidFire+		
Front derailleur	Shimano Nexave 301	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Nexave 401		
Brakes	Avid Single Digit 10, linear pull		
Brake levers	Avid AD-1.0 L, long pull		
Crankset	Shimano Nexave 400 48/38/28	79 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Alloy/alloy cage, clipless adaptable	9/16" axle	
Cassette	Shimano HG50-I 11-30,	8spd	
Chain	Shimano IG31	112 length, 3/32"	
Front wheel	Rolf Vector	Velox 16mm rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear wheel	Rolf Vector	HyperGlide cassette, 8/9spd, 135mm O.L.D. Velox 16mm rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	DT 14/15G butted stainless	20 spoke Radial Front 278	24 spoke 2x Rear 288/287 rear (D/ND)
Saddle	Hybrid, leather cover		
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Pearl Navy / Silver fork • White decal		

	28	38	48
11	69	94	119
13	59	80	101
15	51	69	87
17	45	61	77
20	38	52	65
23	33	45	57
26	29	40	50
30	25	35	44

27.1 lb.
12.30 kg.

Frame sizes	15	17.5	20	22.5
Handlebar width	580	580	580	580
Stem length	90	90	110	110
Stem angle	25	25	25	25
Crank length	170	175	175	175
Seatpost length	300	350	350	350
Steerer, mm	173	188	188	208
Fork length	428 mm axle-crown race			
Head angle	70.0	70.5	70.5	71.5
Seat angle	74.0	74.0	73.0	73.0
MM Standover	690	732	774	822
Seat tube	381	445	508	572
Head tube	90	105	105	125
Eff top tube	545	550	564	582
Reach	590	603	632	651
Chainstays	445	445	445	445
BB height	281	281	281	281
Offset	50	50	50	50
Trail	74	70	70	64
Wheelbase	1043	1044	1049	1057
IN Standover	27.2	28.8	30.5	32.4
Seat tube	15.0	17.5	20.0	22.5
Head tube	3.5	4.1	4.1	4.9
Eff top tube	21.5	21.7	22.2	22.9
Reach	23.2	23.8	24.9	25.6
Chainstays	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0
Trail	2.9	2.8	2.8	2.5
Wheelbase	41.1	41.1	41.3	41.6

Our Price: $_____

7600

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	RockShox Ruby Metro	30mm travel	
Headset	Tange Seiki Passage	25.4/34.0/30.0, 32.0mm stack	
Handlebars	Steel, 5° bend, 60mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	GripShift Centera		
Front derailleur	Shimano Nexave 401	Top pull, (W-down), 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LG77E, direct pull		
Crankset	Shimano Nexave 400 48/38/28	79 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	IG31	112 length, 3/32"	
Front hub	Bontrager Comp I		
Front rim	Bontrager Fairlane	Velox 19mm rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	Bontrager Comp II	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Fairlane	Velox 19mm rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	32 spoke 3x Front 297	32 spoke 3x Rear 294/296 rear (D/ND)
Saddle	Trek hybrid, leather cover		
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Metallic Ice Red / Silver fork • Silver decal		

	28	38	48
11	69	94	119
13	59	80	101
15	51	69	87
17	45	61	77
20	38	52	65
23	33	45	57
26	29	40	50
30	25	35	44

27.8 lb.
12.62 kg.

Frame sizes	15	17.5	20	22.5
Handlebar width	580	580	580	580
Stem length	90	90	110	110
Stem angle	45	45	45	45
Crank length	170	170	175	175
Seatpost length	300	350	350	350
Steerer, mm	124	139	139	159
Fork length	428 mm axle-crown race			
Head angle	70.0	70.5	70.5	71.5
Seat angle	74.0	74.0	73.0	73.0
MM Standover	690	732	774	822
Seat tube	381	445	508	572
Head tube	90	105	105	125
Eff top tube	545	550	564	582
Reach	576	582	605	625
Chainstays	445	445	445	445
BB height	281	281	281	281
Offset	50	50	50	50
Trail	74	70	70	64
Wheelbase	1043	1044	1049	1057
IN Standover	27.2	28.8	30.5	32.4
Seat tube	15.0	17.5	20.0	22.5
Head tube	3.5	4.1	4.1	4.9
Eff top tube	21.5	21.7	22.2	22.9
Reach	22.7	22.9	23.8	24.6
Chainstays	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0
Trail	2.9	2.8	2.8	2.5
Wheelbase	41.1	41.1	41.3	41.6

7500

Our Price: $ _____

Main tubes	Alpha ZX aluminum		
Stays	Alpha ZX aluminum		
Fork	Cro-Moly		
Headset	Tange Seiki Passage	25.4/34.0/30.0, 32.0mm stack	
Handlebars	Steel, 5° bend, 60mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	GripShift Centera		
Front derailleur	Shimano Nexave 401	Top pull, (W-down), 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano Deore LX SGS		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LG77E, direct pull		
Crankset	Shimano Nexave 400 48/38/28	79 mm bolt hole circle	
Bottom bracket	Shimano BB-LP27	73 x 113	
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	IG31	112 length, 3/32"	
Front hub	Bontrager Comp I		
Front rim	Bontrager Fairlane	Velox 19mm rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	Bontrager Comp II	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Fairlane	Velox 19mm rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	32 spoke 3x Front 297	32 spoke 3x Rear 294/296 rear (D/ND)
Saddle	Trek hybrid, leather cover		
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Titanium • Red decal		
	Pearl White • Gold decal		

	28	38	48
11	69	94	119
13	59	80	101
15	51	69	87
17	45	61	77
20	38	52	65
23	33	45	57
26	29	40	50
30	25	35	44

27.3 lb.
12.39 kg.

Frame sizes	15	17.5	20	22.5	15W	17W
Handlebar width	580	580	580	580	580	580
Stem length	90	90	110	110	90	90
Stem angle	45	45	45	45	45	45
Crank length	170	170	175	175	170	170
Seatpost length	300	350	350	350	300	300
Steerer, mm	124	139	139	159	139	159
Fork length	428 mm axle-crown race					
Head angle	70.0	70.5	70.5	71.5	70.0	70.5
Seat angle	74.0	74.0	73.0	73.0	74.0	74.0
MM Standover	690	732	774	822	598	603
Seat tube	381	445	508	572	381	445
Head tube	90	105	105	125	105	125
Eff top tube	545	550	564	582	543	547
Reach	576	582	605	625	574	579
Chainstays	445	445	445	445	445	445
BB height	281	281	281	281	281	281
Offset	50	50	50	50	50	50
Trail	74	70	70	64	74	70
Wheelbase	1043	1044	1049	1057	1056	1056
IN Standover	27.2	28.8	30.5	32.4	23.5	23.7
Seat tube	15.0	17.5	20.0	22.5	15.0	17.5
Head tube	3.5	4.1	4.1	4.9	4.1	4.9
Eff top tube	21.5	21.7	22.2	22.9	21.4	21.5
Reach	22.7	22.9	23.8	24.6	22.6	22.8
Chainstays	17.5	17.5	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0	2.0	2.0
Trail	2.9	2.8	2.8	2.5	2.9	2.8
Wheelbase	41.1	41.1	41.3	41.6	41.6	41.6

Our Price: $ _____

7300

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Cro-Moly		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 60mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	GripShift Centera		
Front derailleur	Shimano Nexave 301	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano STX-RC		
Brakes	Alloy TX22 direct pull		
Brake levers	Alloy LG77E, direct pull		
Crankset	Shimano Nexave 301 48/38/28, w/chainguard	Riveted	
Bottom bracket	Shimano 88-CS15	73 x 122.5	
Pedals	Platform	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	HG50	112 length, 3/32"	
Front hub	KT W55F		
Front rim	Bontrager Fairlane	Velox 19mm rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	Shimano C201	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Fairlane	Velox 19mm rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	32 spoke 3x Front 295	32 spoke 3x Rear 293/294 rear (D/ND)
Saddle	Oasis Web spring		
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/integral bolt	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle on 13)		
Colors	Inkwell Blue • Silver decal		
	Black Gold • Silver decal		

	28	38	48
11	69	94	119
13	59	80	101
15	51	69	87
17	45	61	77
20	38	52	65
23	33	45	57
26	29	40	50
30	25	35	44

27.7 lb.
12.58 kg.

Frame sizes	13	15	17.5	20	22.5
Handlebar width	580	580	580	580	580
Stem length	90	90	90	110	110
Stem angle	45	45	45	45	45
Crank length	170	170	170	170	170
Seatpost length	300	300	350	350	350
Steerer, mm	126	126	141	141	161
Fork length	398 mm axle-crown race				
Head angle	70.0	70.0	70.5	70.5	71.5
Seat angle	74.5	74.0	74.0	73.0	73.0
MM Standover	654	690	732	774	822
Seat tube	330	381	445	508	572
Head tube	90	90	105	105	125
Eff top tube	538	545	550	564	582
Reach	569	576	582	604	624
Chainstays	445	445	445	445	445
BB height	281	281	281	281	281
Offset	50	50	50	50	50
Trail	74	74	70	70	64
Wheelbase	1055	1043	1044	1049	1057
IN Standover	25.7	27.2	28.8	30.5	32.4
Seat tube	13.0	15.0	17.5	20.0	22.5
Head tube	3.5	3.5	4.1	4.1	4.9
Eff top tube	21.2	21.5	21.7	22.2	22.9
Reach	22.4	22.7	22.9	23.8	24.6
Chainstays	17.5	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0	2.0
Trail	2.9	2.9	2.8	2.8	2.5
Wheelbase	41.5	41.1	41.1	41.3	41.6

7200

Our Price: $ _____

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Cro-Moly		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 60mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	25.4mm insertion	
Grips	Trek Oasis, dual density		
Shifters	Shimano C102 EZ Fire+		
Front derailleur	Shimano Nexave 301	Top pull, 34.9 mm/ 1 3/8"	
Rear derailleur	Shimano C201		
Brakes	Alloy MV33 direct pull		
Brake levers		Integrated brake/shift	
Crankset	Shimano C102 48/38/28, w/chainguard	Riveted	
Bottom bracket	Shimano BB-CS15	73 x 122.5	
Pedals	Platform	9/16" axle	
Cassette	Shimano HG50 11-34	7spd	
Chain	HG50	112 length, 3/32"	
Front hub	KT W55F		
Front rim	Bontrager Fairlane	Velox 19mm rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	Shimano C201	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	
Rear rim	Bontrager Fairlane	Velox 19mm rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	32 spoke 3x Front	32 spoke 3x Rear
		295	293/294 rear (D/ND)
Saddle	Oasis Web spring		
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/integral bolt	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle on 15, 17W, 20W)		
Colors	Metallic Ice Red • White decal		
	Rainforest / Gold decal		

	28	38	48
11	69	94	119
13	59	80	101
15	51	69	87
17	45	61	77
21	36	49	62
26	29	40	50
34	22	30	38

28.4 lb.
12.89 kg.

Frame sizes	15	17.5	20	22.5	
Handlebar width	580	580	580	580	
Stem length	90	110	110	110	
Stem angle	45	45	45	45	
Crank length	170	170	170	170	
Seatpost length	300	350	350	350	
Steerer, mm	126	141	141	161	
Fork length	398 mm axle-crown race				
Head angle	70.0	70.5	70.5	71.5	
Seat angle	74.0	74.0	73.0	73.0	
MM Standover	690	732	774	822	
Seat tube	381	445	508	572	
Head tube	90	105	105	125	
Eff top tube	545	550	564	582	
Reach	576	590	604	624	
Chainstays	445	445	445	445	
BB height	281	281	281	281	
Offset	50	50	50	50	
Trail	74	70	70	64	
Wheelbase	1043	1044	1049	1057	
IN Standover	27.2	28.8	30.5	32.4	
Seat tube	15.0	17.5	20.0	22.5	
Head tube	3.5	4.1	4.1	4.9	
Eff top tube	21.5	21.7	22.2	22.9	
Reach	22.7	23.2	23.8	24.6	
Chainstays	17.5	17.5	17.5	17.5	
BB height	11.1	11.1	11.1	11.1	
Offset	2.0	2.0	2.0	2.0	
Trail	2.9	2.8	2.8	2.5	
Wheelbase	41.1	41.1	41.3	41.6	

Our Price: $ _____

720

Main tubes	Cro-Moly steel		
Stays	High tensile steel		
Fork	Cro-Moly steel		
Headset	VP H693W	22.2/30.0/27.0, 33.5mm stack	
Handlebars	Steel, 50mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	22.2mm insertion	
Grips	Trek Oasis, dual density		
Shifters	Shimano RS40 twisters		
Front derailleur	Shimano C102	Down pull, 31.8 mm/ 1 1/4"	
Rear derailleur	Shimano C201		
Brakes	Alloy TX102L direct pull (TX96L rear women's)		
Brake levers	Alloy		
Crankset	Shimano C102 48/38/28, w/chainguard	Riveted	
Bottom bracket	VP-BC55P semi-cartridge	68 x 124.5	
Pedals	Platform	9/16" axle	
Cassette	HG74 11-34	7spd	
Chain	KMC Z-51	114 length, 3/32"	
Front hub	Alloy		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	Alloy	Threaded, 7spd, QR ft/rr, 135mm O.L.D.	
Rear rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		294	292/293 rear (D/ND)
Saddle	Oasis Webspring		
Seatpost	Shock absorber	27.2mm diameter	
Seat binder	Quick release, 47mm		
Additionals	Shimano Dashboard, 2 water bottle mounts, rack mounts (1 bottle on 15, 17W, 20W)		
Colors	Pearl Navy • Silver decal		
	Pearl White • Gold decal		

	28	38	48
11	69	94	119
13	59	80	101
16	48	65	82
19	40	54	69
22	35	47	59
26	29	40	50
34	22	30	38

28.8 lb.
13.08 kg.

Frame sizes	15	17	19	21	23	15W	17W	20W
Handlebar width	580	580	580	580	580	580	600	600
Stem length	90	90	110	110	110	90	110	110
Stem angle	45	45	45	45	45	45	45	45
Crank length	170	170	170	170	170	170	170	170
Seatpost length	300	350	350	350	350	300	300	350
Steerer, mm	123	123	123	133	173	123	153	198
Fork length	385 mm axle-crown race							
Head angle	70.0	70.5	70.5	71.5	71.5	70.0	70.5	70.5
Seat angle	74.0	74.0	73.0	73.0	73.0	74.0	74.0	73.0
MM Standover	672	706	738	776	821	582	590	599
Seat tube	381	432	483	533	584	381	432	508
Head tube	90	90	90	100	140	90	120	165
Eff top tube	545	550	560	570	580	545	548	556
Reach	576	582	600	612	622	576	588	596
Chainstays	445	445	445	445	445	445	445	445
BB height	281	281	281	281	281	281	281	281
Offset	50	50	50	50	50	50	50	50
Trail	74	70	70	64	64	74	70	70
Wheelbase	1053	1054	1054	1056	1067	1053	1054	1054
IN Standover	26.5	27.8	29.1	30.6	32.3	22.9	23.2	23.6
Seat tube	15.0	17.0	19.0	21.0	23.0	15.0	17.0	20.0
Head tube	3.5	3.5	3.5	3.9	5.5	3.5	4.7	6.5
Eff top tube	21.5	21.7	22.0	22.4	22.8	21.5	21.6	21.9
Reach	22.7	22.9	23.6	24.1	24.5	22.7	23.2	23.5
Chainstays	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Trail	2.9	2.8	2.8	2.5	2.5	2.9	2.8	2.8
Wheelbase	41.5	41.5	41.5	41.6	42.0	41.5	41.5	41.5

700

Our Price: $_____

Main tubes	Hi Tensile steel w/Cro-Moly seat tube		
Stays	High tensile steel		
Fork	High tensile steel		
Headset	VP H693W	22.2/30.0/27.0, 33.5mm stack	
Handlebars	Steel, 50mm rise	25.4mm clamp diameter	
Stem	Alloy adjustable rise	22.2mm insertion	
Grips	Trek Oasis, dual density		
Shifters	Shimano C102		
Front derailleur	Shimano C102	Down pull, 31.8 mm/ 1 1/4"	
Rear derailleur	Shimano C101		
Brakes	Alloy TX102L direct pull (TX96L rear women's)		
Brake levers		Integrated brake/shift	
Crankset	Shimano C102 48/38/28, w/chainguard	Riveted	
Bottom bracket	VP-BC55P semi-cartridge	68 x 124.5	
Pedals	Platform	9/16" axle	
Cassette	HG74 13-34	7spd	
Chain	KMC Z-51	114 length, 3/32"	
Front hub	KT E55F		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Trek Invert II	700 x 38c	
Rear hub	KT E12	Threaded, 7spd, QR ft/rr, 135mm O.L.D.	
Rear rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Trek Invert II	700 x 38c	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		294	292/293 rear (D/ND)
Saddle	Oasis Webspring		
Seatpost	Shock absorber	27.2mm diameter	
Seat binder	Quick release, 47mm		
Additionals	Shimano Dashboard, 2 water bottle mounts, rack mounts (1 bottle on 15, 17W, 20W)		
Colors	Pearl Navy • Silver decal		
	Pearl White • Gold decal		

	28	38	48
13	59	80	101
15	51	69	87
17	45	61	77
19	40	54	69
22	35	47	59
25	31	41	52
34	22	30	38

29.8 lb.
13.53 kg.

Frame sizes	15	17	19	21	23	15W	17W	20W
Handlebar width	580	580	580	580	580	580	600	600
Stem length	90	90	110	110	110	90	110	110
Stem angle	45	45	45	45	45	45	45	45
Crank length	170	170	170	170	170	170	170	170
Seatpost length	300	350	350	350	350	300	300	350
Steerer, mm	123	123	123	133	173	123	153	198
Fork length	385 mm axle-crown race							
Head angle	70.0	70.5	70.5	71.5	71.5	70.0	70.5	70.5
Seat angle	74.0	74.0	73.0	73.0	73.0	74.0	74.0	73.0
MM Standover	672	706	738	776	821	582	590	599
Seat tube	381	432	483	533	584	381	432	508
Head tube	90	90	90	100	140	90	120	165
Eff top tube	545	550	560	570	580	545	548	556
Reach	576	582	600	612	622	576	588	596
Chainstays	445	445	445	445	445	445	445	445
BB height	281	281	281	281	281	281	281	281
Offset	50	50	50	50	50	50	50	50
Trail	74	70	70	64	64	74	70	70
Wheelbase	1053	1054	1054	1056	1067	1053	1054	1054
IN Standover	26.5	27.8	29.1	30.6	32.3	22.9	23.2	23.6
Seat tube	15.0	17.0	19.0	21.0	23.0	15.0	17.0	20.0
Head tube	3.5	3.5	3.5	3.9	5.5	3.5	4.7	6.5
Eff top tube	21.5	21.7	22.0	22.4	22.8	21.5	21.6	21.9
Reach	22.7	22.9	23.6	24.1	24.5	22.7	23.2	23.5
Chainstays	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
BB height	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Offset	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Trail	2.9	2.8	2.8	2.5	2.5	2.9	2.8	2.8
Wheelbase	41.5	41.5	41.5	41.6	42.0	41.5	41.5	41.5

OCLV Road

No excuses.

Where else can you buy the exact same frameset as the one that won this year's Tour de France? Yes, Lance rode a stock 5500 frameset.

Its a beautiful bike that rides extremely well in a wide variety of conditions. In the Tour the riders must conquer incredibly steep, long climbs. They have to ride long miles, day in and day out. And the wild bunch sprints are beyond compare.

In every stage but the time trials where special bikes were used, Trek's OCLV framesets performed flawlessly for the Postal team. On climbs, descents, and even the sprints, Trek bikes were at the front of the peloton.

You can proudly ride the same frame as the Postal team. The only problem with owning one of these beautys is if your buddy nips you in the next county line sprint, you can no longer blame the equipment.

Is Trek's OCLV frame an unfair advantage?

The Trek OCLV frames are quick and agile, making them ideal for riding in the tight professional peloton. While stable enough for long Tour stages, they still respond very quickly to rider input. These frames are sensitive to weight shifts, so a racer can respond intuitively to situations as they happen. This sensitivity also lets the bike work with the rider in hard sprints and climbing efforts, helping the rider develop power as they rock the bike back and forth.

Although the carbon frame damps vibration, there is still excellent road feel. Knowing what your wheels are doing is really important to the pros. When they've got a knee out, leaning into the apex of a turn in the Alps at 50MPH, they need to feel their tires hooking up.

The comfort offered by an OCLV frame also leaves them less fatigued after a 250km stage. Of course, if they are a bit fresher in the sprint it may be they're working less on the climbs. After all, the Trek OCLV is the lightest frameset in the peloton.

OCLV Road Parts List	Part #
Chainkeeper	T83663
Chainstay guard	T950130
Front derailleur braze-on plate (OCLV)	T973749
OCLV bottom bracket cable guide	T942820
Brake nut for rear yoke	950112

Mechanic's notes

Trek road bikes are designed to accept 27.2mm seat posts with a tolerance of 27.10 to 27.20mm outer diameter. Measure the seatpost for conformity to this tolerance prior to installation.

For seat post binder bolts, tighten to 85-125 lb•in (9.6-14.1 Nm).

With OCLV frames, do not grease the seatpost. OCLV bikes have a fiberglass sleeve bonded into their carbon seat tube. This sleeve prevents galvanic corrosion of the seatpost and carbon, so no grease is needed, nor recommended. If grease is applied, it may be very difficult to get adequate clamping force to hold the seatpost. If you have accidentally greased an OCLV frame, use a cloth with some degreaser to remove the grease, using normal caution to protect bearings and paint.

Bottom bracket

Be sure bottom bracket threads are clean and well greased before insertion. Failure to do so may cause galling of the threads

Brake nuts

With OCLV bikes and the Air Rail carbon fork, the large diameter used to add stiffness means a normal brake bolt may not be long enough.

Chainkeepers and Chainstay guards

OCLV road frames (except the Y Foils) must always be fitted with a chainkeeper and chainstay guard to protect against damage in case of chainsuck or overshifting past the inner chainring.

Removing Headset Cups

When removing an headset in an OCLV frame, make sure the headset removal tool is engaging the headset cup. OCLV framesets do not utilize a continuous headtube, but instead use two short inserts to support the headset cups. If the headset tool is outside the insert rather than inside the insert and pressing on the cup, frame damage can result.

Our Price: $ 5500

Main tubes	OCLV carbon fiber composite		
Stays	OCLV carbon		
Fork	ICON Air Rail		
Headset	Cane Creek Aheadset	22.2/30.2/26.4, 26.5mm stack	
Handlebars	ICON Sterling, ergo bend	26.0mm clamp diameter	
Stem	ICON Sterling, direct connect	39.5mm steerer clamp height	
Grips	ICON Powercork		
Shifters	Shimano Dura-Ace STI		
Front derailleur	Shimano Dura-Ace	Down pull, Braze-on	
Rear derailleur	Shimano Dura-Ace		
Brakes	Shimano Dura-Ace		
Brake levers		Integrated brake/shift	
Crankset	Shimano Dura-Ace 53/39	130 mm bolt hole circle	
Bottom bracket	Shimano Ultegra	68 x 109.5	
Pedals	Shimano Dura-Ace SPD-R, clipless	9/16" axle	
Cassette	Shimano Dura-Ace 12-23	9spd	
Chain	Shimano Dura-Ace	108 length, 9 speed	
Front wheel	Rolf Vector Pro	Velox 16mm rimstrip	
Front tire	Continental Grand Prix 3000, folding	700 x 23c	
Rear wheel	Rolf Vector Pro	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Grand Prix 3000, folding	700 x 23c	
Tubes	Presta valve	48mm stem	
Spokes	Rolf/DT Super Aero, locking alloy nips	14 spoke Radial Front 280	16 spoke 1x Rear 286/284 rear (D/ND)
Saddle	Selle Italia Flite, Gel, Ti/leather		
Seatpost	Thomson Elite	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Pearl White • Blue/black decal		

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
16	64	88
17	61	82
19	54	74
21	49	67
23	45	61

17.9 lb.
8.13 kg.

Frame sizes		50	52	54	56	58	60	62
Handlebar width		400	400	420	420	440	440	460
Stem length		70	80	80	100	100	120	120
Stem angle		0	0	0	0	0	0	0
Crank length		170	170	172.5	172.5	175	175	175
Seatpost length		250	250	250	250	250	250	250
Steerer, mm		188	188	191	208	227	246	264
Fork length		370 mm axle-crown race						
Head angle		72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle		75.0	75.0	74.0	73.5	73.0	73.0	72.5
MM	Standover	749	759	773	793	811	830	848
	Seat tube	500	520	540	560	580	600	620
	Head tube	101	101	104	121	140	159	177
	Eff top tube	518	528	545	560	570	580	590
	Reach	567	593	610	645	655	685	695
	Chainstays	408	408	410	410	412	412	412
	BB height	266	266	266	268	268	268	268
	Offset	47	47	47	43	43	43	43
	Trail	61	58	55	54	54	53	53
	Wheelbase	979	982	987	986	994	1001	1006
IN	Standover	29.5	29.9	30.4	31.2	31.9	32.7	33.4
	Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.4
	Head tube	4.0	4.0	4.1	4.8	5.5	6.3	7.0
	Eff top tube	20.4	20.8	21.5	22.0	22.4	22.8	23.2
	Reach	22.3	23.3	24.0	25.4	25.8	27.0	27.4
	Chainstays	16.1	16.1	16.1	16.1	16.2	16.2	16.2
	BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
	Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
	Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
	Wheelbase	38.5	38.7	38.9	38.8	39.1	39.4	39.6

5200D

Our Price: $ _____

Main tubes	OCLV carbon fiber composite		
Stays	OCLV carbon		
Fork	ICON Air Rail		
Headset	Cane Creek Aheadset, alloy	22.2/30.2/26.4, 26.5mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	ICON Powercork		
Shifters	Shimano Ultegra STI, Flite Deck compatible		
Front derailleur	Shimano Ultegra	Down pull, Braze-on	
Rear derailleur	Shimano Ultegra		
Brakes	Shimano Ultegra		
Brake levers		Integrated brake/shift	
Crankset	Shimano Ultegra 53/39	130 mm bolt hole circle	
Bottom bracket	Shimano Ultegra	68 x 109.5	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano Ultegra 12-25	9spd	
Chain	Shimano HG92	108 length, 9 speed	
Front wheel	Rolf Vector Comp	Velox 16mm rimstrip	
Front tire	Continental Ultra 3000, folding	700 x 23c	
Rear wheel	Rolf Vector Comp	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Ultra 3000, folding	700 x 23c	
Tubes	Presta valve	48mm stem	
Spokes	DT Aero 2.0/1.3	18 spoke Radial Front 270	20 spoke 2x Rear 290/288 rear (D/ND)
Saddle	Selle Italia Flite, Gel, Ti/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Bright Silver / Black/White decal		
	USPS / White/red decal		

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
17	61	82
19	54	74
21	49	67
23	45	61
25	41	56

19.6 lb.
8.90 kg.

Frame sizes	50	52	54	56	58	60	62
Handlebar width	400	400	420	420	440	440	460
Stem length	60	80	80	100	100	120	120
Stem angle	0	0	0	0	0	0	0
Crank length	170	170	172.5	172.5	175	175	175
Seatpost length	250	250	250	250	250	250	250
Steerer, mm	177	179	186	203	222	241	259
Fork length	370 mm axle-crown race						
Head angle	72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0	72.5
MM Standover	749	759	773	793	811	830	848
Seat tube	500	520	540	560	580	600	620
Head tube	95	97	104	121	140	159	177
Eff top tube	518	528	545	560	570	580	590
Reach	559	594	612	647	657	686	696
Chainstays	408	408	410	410	412	412	412
BB height	266	266	266	268	268	268	268
Offset	47	47	47	43	43	43	43
Trail	61	58	55	54	54	53	53
Wheelbase	977	980	985	988	996	1003	1008
IN Standover	29.5	29.9	30.4	31.2	31.9	32.7	33.4
Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.4
Head tube	3.7	3.8	4.1	4.8	5.5	6.3	7.0
Eff top tube	20.4	20.8	21.5	22.0	22.4	22.8	23.2
Reach	22.0	23.4	24.1	25.5	25.9	27.0	27.4
Chainstays	16.1	16.1	16.1	16.1	16.2	16.2	16.2
BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
Wheelbase	38.5	38.6	38.8	38.9	39.2	39.5	39.7

Our Price: $ _____

5200T

Main tubes	OCLV carbon fiber composite		
Stays	OCLV carbon		
Fork	ICON Air Rail		
Headset	Cane Creek Aheadset, alloy	22.2/30.2/26.4, 26.5mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height	
Grips	ICON Powercork		
Shifters	Shimano Ultegra STI, Flite Deck compatible		
Front derailleur	Shimano Ultegra T	Down pull, Braze-on	
Rear derailleur	Shimano Ultegra GS		
Brakes	Shimano Ultegra		
Brake levers		Integrated brake/shift	
Crankset	Shimano Ultegra 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano Ultegra	68 x 118	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano Ultegra 12-25	9spd	
Chain	Shimano HG92	108 length, 9 speed	
Front wheel	Rolf Vector Comp	Velox 16mm rimstrip	
Front tire	Continental Ultra 3000, folding	700 x 23c	
Rear wheel	Rolf Vector Comp	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Ultra 3000, folding	700 x 23c	
Tubes	Presta valve	48mm stem	
Spokes	DT Aero 2.0/1.3	18 spoke Radial Front 270	20 spoke 2x Rear 290/288 rear (D/ND)
Saddle	Selle Italia Flite, Gel, Ti/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts		
Colors	Bright Silver / Black/White decal		
	USPS / White/red decal		

	30	42	52
12	66	93	115
13	61	85	106
14	57	79	98
15	53	74	92
17	47	65	81
19	42	58	72
21	38	53	65
23	35	48	60
25	32	44	55

19.8 lb.
8.99 kg.

Frame sizes	50	52	54	56	58	60	62
Handlebar width	400	400	420	420	440	440	460
Stem length	60	80	80	100	100	120	120
Stem angle	0	0	0	0	0	0	0
Crank length	170	170	172.5	172.5	175	175	175
Seatpost length	250	250	250	250	250	250	250
Steerer, mm	177	179	186	203	222	241	259
Fork length	370 mm axle-crown race						
Head angle	72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0	72.5
MM Standover	749	759	773	793	811	830	848
Seat tube	500	520	540	560	580	600	620
Head tube	95	97	104	121	140	159	177
Eff top tube	518	528	545	560	570	580	590
Reach	559	594	612	647	657	686	696
Chainstays	408	408	410	410	412	412	412
BB height	266	266	266	268	268	268	268
Offset	47	47	47	43	43	43	43
Trail	61	58	55	54	54	53	53
Wheelbase	977	980	985	988	996	1003	1008
IN Standover	29.5	29.9	30.4	31.2	31.9	32.7	33.4
Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.4
Head tube	3.7	3.8	4.1	4.8	5.5	6.3	7.0
Eff top tube	20.4	20.8	21.5	22.0	22.4	22.8	23.2
Reach	22.0	23.4	24.1	25.5	25.9	27.0	27.4
Chainstays	16.1	16.1	16.1	16.1	16.2	16.2	16.2
BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
Wheelbase	38.5	38.6	38.8	38.9	39.2	39.5	39.7

Alpha Road

Racing heritage

The overall design of the Trek Alpha series road bikes is racing. The geometry is almost identical to the OCLV bike ridden by Lance Armstrong in the '99 Tonr de France. The biggest difference between Trek OCLV and Trek Alpha geometry is that the chainstays are about 2mm longer.

Through careful design, we have blended the best characteristics of the OCLV bikes and aluminum construction. These bikes are extremely light (2.9 pounds for Alpha SL). They ride very well. And unlike some of the monster-tube aluminum road bikes on the market, Trek Alpha road bikes are also comfortable for longer rides.

The Alpha SL frame uses butted 6061 T6 aluminum with a radical, deeply aero down tube. This beefy tube is very aero, also eye-catching, but there's some serious engineering at work here. By using a larger diameter down tube, we have vastly increased pedaling efficiency through increased bottom bracket stiffness. This beefy tube is joined to an outer butted head tube. This reinforcement at the headset cups prevents distortion that could prematurely wear the headset bearings.

The top tube is smaller diameter than some of our competitors designs. This reduces weight, but more importantly, its specially selected to add some comfort that those huge-tubed bikes are seriously lacking. A super stiff bike may feel great in a test ride around the block, but unless your roads are better than those near our factory in Wiscousin, that stiffness is not very welcome at mile 98 of the local century.

The stays are tapered and shaped 6061. Then they're welded to a hollow 3-D forged monostay that mimics our OCLV road bikes in styling. This compliments the aerodynamics of the down tube, but our goal was to stiffen braking response, and it works. The other end of the stays are joined to forged dropouts with a replaceable derailleur hanger.

There are many other frame details. Increased tire clearance has a host of benefits including fitting bigger tires, but also can help you get home with a wheel that's out of true. Incredibly smooth welds, with no griuding or putty, highlights the skill of Trek welders.

Alpha SL special parts	Part #
Front derailleur clamp	T973749
Rear derailleur hanger	990116
Attachment bolt	990129
Seat clamp	981631

Our Price: $ _____

2300D

Main tubes	Aero 6061 T6 aluminum	
Stays	6061 T6 aluminum	
Fork	ICON Air Rail	
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack
Handlebars	ICON Graphite	26.0mm clamp diameter
Stem	ICON Graphite, quill	22.2mm insertion
Grips	ICON Powercork	
Shifters	Shimano Ultegra STI, Flite Deck compatible	
Front derailleur	Shimano Ultegra	Down pull, Braze-on w/34.9mm clamp
Rear derailleur	Shimano Ultegra	
Brakes	Shimano Ultegra	
Brake levers		Integrated brake/shift
Crankset	Shimano Ultegra 53/39	130 mm bolt hole circle
Bottom bracket	Shimano Ultegra	68 x 109.5
Pedals	ICON De La Sole, clipless	9/16" axle
Cassette	Shimano Ultegra 12-25	9spd
Chain	Shimano HG92	108 length, 9 speed
Front wheel	Rolf Vector Comp	Velox 16mm rimstrip
Front tire	Continental Ultra 3000, folding	700 x 23c
Rear wheel	Rolf Vector Comp	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip
Rear tire	Continental Ultra 3000, folding	700 x 23c
Tubes	Presta valve	48mm stem
Spokes	DT Aero 2.0/1.3	18 spoke Radial Front, 270 — 20 spoke 2x Rear, 290/288 rear (D/ND)
Saddle	Selle Italia XO, vanadium	
Seatpost	ICON Graphite, 2014	27.2mm diameter
Seat binder	Alloy w/integral bolt	35.0 clamp diameter
Additionals	2 water bottle mounts, rack mounts	
Colors	Gloss Black • Silver decal Metal Flake Yellow • White decal	

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
17	61	82
19	54	74
21	49	67
23	45	61
25	41	56

21.1 lb.
9.58 kg.

Frame sizes	50	52	54	56	58	60	63
Handlebar width	400	400	420	420	440	440	460
Stem length	60	80	80	110	110	120	120
Stem angle	-17	-17	-17	-17	-17	-17	-17
Crank length	170	170	172.5	172.5	175	175	175
Seatpost length	250	250	250	250	250	250	250
Steerer, mm	144	144	151	168	187	206	234
Rear shock #							
Fork length	370 mm axle-crown race						
Head angle	72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0	72.5
Standover	740	754	768	788	806	825	854
Seat tube	500	520	540	560	580	600	630
MM Head tube	97	97	104	121	140	159	186
MM Eff top tube	523	528	545	560	570	580	600
MM Reach	573	598	616	661	671	691	711
MM Chainstays	417	417	417	417	417	417	417
MM BB height	266	266	266	268	268	268	270
MM Offset	47	47	47	43	43	43	43
MM Trail	61	58	55	54	54	53	53
MM Wheelbase	988	989	993	994	999	1006	1021
MM Standover	29.1	29.7	30.2	31.0	31.7	32.5	33.6
IN Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.8
IN Head tube	3.8	3.8	4.1	4.8	5.5	6.3	7.3
IN Eff top tube	20.6	20.8	21.5	22.0	22.4	22.8	23.6
IN Reach	22.6	23.6	24.2	26.0	26.4	27.2	28.0
IN Chainstays	16.4	16.4	16.4	16.4	16.4	16.4	16.4
IN BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
IN Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
IN Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
IN Wheelbase	38.9	38.9	39.1	39.1	39.3	39.6	40.2

2300T

Our Price: $ _____

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Air Rail		
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano Ultegra STI, Flite Deck compatible		
Front derailleur	Shimano Ultegra T	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano Ultegra GS		
Brakes	Shimano Ultegra		
Brake levers		Integrated brake/shift	
Crankset	Shimano Ultegra 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano Ultegra	68 x 118	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano Ultegra 12-25,	9spd	
Chain	Shimano HG92	108 length, 9 speed	
Front wheel	Rolf Vector Comp	Velox 16mm rimstrip	
Front tire	Continental Ultra 3000, folding	700 x 23c	
Rear wheel	Rolf Vector Comp	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Ultra 3000, folding	700 x 23c	
Tubes	Presta valve	48mm stem	
Spokes	DT Aero 2.0/1.3	18 spoke Radial Front 270	20 spoke 2x Rear 290/288 rear (D/ND)
Saddle	Selle Italia XO Gel, vanadium/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Gloss Black • Silver decal Metal Flake Yellow • White decal		

	30	42	52
12	66	93	115
13	61	85	106
14	57	79	98
15	53	74	92
17	47	65	81
19	42	58	72
21	38	53	65
23	35	48	60
25	32	44	55

21.3 lb.
9.67 kg.

Frame sizes	50	52	54	56	58	60	63
Handlebar width	400	400	420	420	440	440	460
Stem length	60	80	80	100	100	120	120
Stem angle	0	0	0	0	0	0	0
Crank length	170	170	170	172.5	175	175	175
Seatpost length	250	250	250	250	250	250	250
Steerer, mm	144	144	151	168	187	206	234
Fork length	370 mm axle-crown race						
Head angle	72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0	72.5
MM Standover	740	754	768	788	806	825	854
Seat tube	500	520	540	560	580	600	630
Head tube	97	97	104	121	140	159	186
Eff top tube	523	528	545	560	570	580	600
Reach	570	595	612	647	657	687	707
Chainstays	417	417	417	417	417	417	417
BB height	266	266	266	268	268	268	270
Offset	47	47	47	43	43	43	43
Trail	61	58	55	54	54	53	53
Wheelbase	988	989	993	994	999	1006	1021
IN Standover	29.1	29.7	30.2	31.0	31.7	32.5	33.6
Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.8
Head tube	3.8	3.8	4.1	4.8	5.5	6.3	7.3
Eff top tube	20.6	20.8	21.5	22.0	22.4	22.8	23.6
Reach	22.5	23.4	24.1	25.5	25.9	27.0	27.8
Chainstays	16.4	16.4	16.4	16.4	16.4	16.4	16.4
BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
Wheelbase	38.9	38.9	39.1	39.1	39.3	39.6	40.2

Our Price: $ _____

2200D

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Air Rail		
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano 105 STI, Flite Deck compatible		
Front derailleur	Shimano 105	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano 105		
Brakes	Shimano 105 front, Shimano 105 rear		
Brake levers		Integrated brake/shift	
Crankset	Shimano 105 53/39	130 mm bolt hole circle	
Bottom bracket	Shimano 105	68 x 109.5	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano HG70 12-25	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Vector	Velox 16mm rimstrip	
Front tire	Continental Super Sport	700 x 25c	
Rear wheel	Rolf Vector	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Super Sport	700 x 25c	
Tubes	Presta valve	48mm stem	
Spokes	DT 14/15G butted stainless	20 spoke Radial Front 278	24 spoke 2x Rear 288/287 rear (D/ND)
Saddle	Selle Italia XO Gel, FeC/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Trek Red • Black decal		

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
17	61	82
19	54	74
21	49	67
23	45	61
25	41	56

21.5 lb.
9.76 kg.

Frame sizes	50	52	54	56	58	60
Handlebar width	400	400	420	420	440	440
Stem length	60	80	80	100	100	120
Stem angle	0	0	0	0	0	0
Crank length	170	170	172.5	172.5	175	175
Seatpost length	250	250	250	250	250	250
Steerer, mm	155	155	162	179	198	217
Fork length	370 mm axle-crown race					
Head angle	72.0	72.5	73.0	73.8	73.8	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0
MM Standover	740	754	768	788	806	825
Seat tube	500	520	540	560	580	600
Head tube	97	97	104	121	140	159
Eff top tube	523	528	545	560	570	580
Reach	567	591	609	644	654	684
Chainstays	417	417	417	417	417	417
BB height	266	266	266	268	268	268
Offset	47	47	47	43	43	43
Trail	61	58	55	54	54	53
Wheelbase	988	989	993	994	999	1006
IN Standover	29.1	29.7	30.2	31.0	31.7	32.5
Seat tube	19.7	20.5	21.3	22.0	22.8	23.6
Head tube	3.8	3.8	4.1	4.8	5.5	6.3
Eff top tube	20.6	20.8	21.5	22.0	22.4	22.8
Reach	22.3	23.3	24.0	25.4	25.8	26.9
Chainstays	16.4	16.4	16.4	16.4	16.4	16.4
BB height	10.5	10.5	10.5	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7
Trail	2.4	2.3	2.1	2.1	2.1	2.1
Wheelbase	38.9	38.9	39.1	39.1	39.3	39.6

2200T

Our Price: $ _____

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Air Rail		
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano 105 STI, Flite Deck compatible		
Front derailleur	Shimano 105 T	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano 105 GS		
Brakes	Shimano 105		
Brake levers		Integrated brake/shift	
Crankset	Shimano 105 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano 105	68 x 118	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano HG70 12-25	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Vector	Velox 16mm rimstrip	
Front tire	Continental Super Sport	700 x 25c	
Rear wheel	Rolf Vector	HyperGlide cassette, 8/9spd, 130mm O.L.D.	
		Velox 16mm rimstrip	
Rear tire	Continental Super Sport	700 x 25c	
Tubes	Presta valve	48mm stem	
Spokes	DT 14/15G butted stainless	20 spoke Radial Front	24 spoke 2x Rear
		278	288/287 rear (D/ND)
Saddle	Selle Italia XO Gel, FeC/leather		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Trek Red • Black decal		

	30	42	52
12	66	93	115
13	61	85	106
14	57	79	98
15	53	74	92
17	47	65	81
19	42	58	72
21	38	53	65
23	35	48	60
25	32	44	55

21.7 lb.
9.85 kg.

Frame sizes	52	54	56	58	60
Handlebar width	400	420	420	440	440
Stem length	80	80	100	100	120
Stem angle	0	0	0	0	0
Crank length	170	170	170	175	175
Seatpost length	250	250	250	250	250
Steerer, mm	155	162	179	198	217
Fork length	370 mm axle-crown race				
Head angle	72.5	73.0	73.8	73.8	74.0
Seat angle	75.0	74.0	73.5	73.0	73.0
MM Standover	754	768	788	806	825
Seat tube	520	540	560	580	600
Head tube	97	104	121	140	159
Eff top tube	528	545	560	570	580
Reach	591	609	644	654	684
Chainstays	417	417	417	417	417
BB height	266	266	268	268	268
Offset	47	47	43	43	43
Trail	58	55	54	54	53
Wheelbase	989	993	994	999	1006
IN Standover	29.7	30.2	31.0	31.7	32.5
Seat tube	20.5	21.3	22.0	22.8	23.6
Head tube	3.8	4.1	4.8	5.5	6.3
Eff top tube	20.8	21.5	22.0	22.4	22.8
Reach	23.3	24.0	25.4	25.8	26.9
Chainstays	16.4	16.4	16.4	16.4	16.4
BB height	10.5	10.5	10.6	10.6	10.6
Offset	1.9	1.9	1.7	1.7	1.7
Trail	2.3	2.1	2.1	2.1	2.1
Wheelbase	38.9	39.1	39.1	39.3	39.6

Our Price: $ _____

2000T

Main tubes	Aero 6061 T6 aluminum	
Stays	6061 T6 aluminum	
Fork	ICON Carbon Classic	
Headset	Tange Seiki Passage	22.2/30.2/26.4, 30.9mm stack
Handlebars	ICON Sleeve Ergo	26.0mm clamp diameter
Stem	KWG alloy, 90°	22.2mm insertion
Grips	ICON Powercork	
Shifters	Shimano Tiagra STI Dual Control	
Front derailleur	Shimano Tiagra T	Down pull, Braze-on w/34.9mm clamp
Rear derailleur	Shimano Tiagra GS	
Brakes	Shimano Sora	
Brake levers		Integrated brake/shift
Crankset	Shimano Tiagra 52/42/30	74/130 mm bolt hole circle
Bottom bracket	Shimano BB-UN40	68 x 113
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle
Cassette	Shimano HG50 12-25	9spd
Chain	Shimano HG72	108 length, 9 speed
Front wheel	Rolf Vector	Velox 16mm rimstrip
Front tire	Continental Super Sport	700 x 25c
Rear wheel	Rolf Vector	HyperGlide cassette, 8/9spd, 130mm O.L.D.
		Velox 16mm rimstrip
Rear tire	Continental Super Sport	700 x 25c
Tubes	Presta valve	48mm stem
Spokes	DT 14/15G butted stainless	20 spoke Radial Front — 24 spoke 2x Rear
		278 — 288/287 rear (D/ND)
Saddle	Selle Italia XO Gel, FeC/leather	
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter
Seat binder	Alloy w/integral bolt	35.0 clamp diameter
Additionals	2 water bottle mounts, rack mounts	
Colors	Blackberry • Silver decal	

	30	42	52
12	66	93	115
13	61	85	106
14	57	79	98
15	53	74	92
17	47	65	81
19	42	58	72
21	38	53	65
23	35	48	60
25	32	44	55

22.1 lb.
10.03 kg.

Frame sizes	52	54	56	58	60	63
Handlebar width	400	420	420	440	440	460
Stem length	70	90	100	100	115	115
Stem angle	0	0	0	0	0	0
Crank length	170	170	170	175	175	175
Seatpost length	250	250	250	250	250	250
Steerer, mm	139	147	164	183	202	229
Fork length	371 mm axle-crown race					
Head angle	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	74.0	73.5	73.0	73.0	72.5
MM Standover	754	768	788	806	825	854
Seat tube	520	540	560	580	600	630
Head tube	97	104	121	140	159	186
Eff top tube	528	545	560	570	580	600
Reach	586	622	648	658	682	702
Chainstays	417	417	417	417	417	417
BB height	266	266	268	268	268	270
Offset	47	47	47	43	43	43
Trail	58	55	50	54	53	53
Wheelbase	989	993	994	999	1006	1021
IN Standover	29.7	30.2	31.0	31.7	32.5	33.6
Seat tube	20.5	21.3	22.0	22.8	23.6	24.8
Head tube	3.8	4.1	4.8	5.5	6.3	7.3
Eff top tube	20.8	21.5	22.0	22.4	22.8	23.6
Reach	23.1	24.5	25.5	25.9	26.9	27.7
Chainstays	16.4	16.4	16.4	16.4	16.4	16.4
BB height	10.5	10.5	10.6	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7
Trail	2.3	2.1	2.0	2.1	2.1	2.1
Wheelbase	38.9	39.1	39.1	39.3	39.6	40.2

1200T

Our Price: $ _____

Main tubes	Aero 6061 T6 aluminum	
Stays	6061 T6 aluminum	
Fork	Epoxy bonded aluminum	
Headset	Tange Seiki Passage	22.2/30.2/26.4, 30.9mm stack
Handlebars	ICON Sleeve Ergo	26.0mm clamp diameter
Stem	KWG alloy, 90°	22.2mm insertion
Grips	ICON Powercork	
Shifters	Shimano Sora STI Dual Control	
Front derailleur	Shimano Sora T	Down pull, Braze-on w/34.9mm clamp
Rear derailleur	Shimano Sora GS	
Brakes	Shimano Sora	
Brake levers		Integrated brake/shift
Crankset	Shimano Sora 52/42/30	74/130 mm bolt hole circle
Bottom bracket	Shimano BB-UN40	68 x 113
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle
Cassette	Shimano HG50 13-26	8spd
Chain	HG50	112 length, 3/32"
Front hub	Shimano RSX	
Front rim	Mavic CXP21	Velox 16mm rimstrip
Front tire	Continental Super Sport	700 x 25c
Rear hub	Shimano Sora	HyperGlide cassette, 8spd, 130mm O.L.D.
Rear rim	Mavic CXP21	Velox 16mm rimstrip
Rear tire	Continental Super Sport	700 x 25c
Tubes	Presta valve	48mm stem
Spokes	DT 14G stainless	32 spoke 3x Front / 32 spoke 3x Rear
		295 / 292/294 rear (D/ND)
Saddle	Selle Italia XO Gel, FeC	
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter
Seat binder	Alloy w/integral bolt	35.0 clamp diameter
Additionals	2 water bottle mounts, rack mounts	
Colors	Metal Flake Blue • White decal	

	30	42	52
13	61	85	106
14	57	79	98
15	53	74	92
17	47	65	81
19	42	58	72
21	38	53	65
23	35	48	60
26	31	43	53

22.9 lb.
10.40 kg.

Frame sizes	50	52	54	56	58	60	63
Handlebar width	400	400	420	420	440	440	460
Stem length	70	70	90	100	100	115	115
Stem angle	0	0	0	0	0	0	0
Crank length	170	170	170	170	175	175	175
Seatpost length	250	250	250	250	250	250	250
Steerer, mm	140	140	147	164	183	202	230
Fork length	370 mm axle-crown race						
Head angle	72.0	72.5	73.0	73.8	73.8	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.0	73.0	72.5
MM Standover	740	754	768	788	806	825	854
Seat tube	500	520	540	560	580	600	630
Head tube	97	97	104	121	140	159	186
Eff top tube	523	528	545	560	570	580	600
Reach	580	586	622	648	658	682	702
Chainstays	417	417	417	417	417	417	417
BB height	266	266	266	268	268	268	270
Offset	47	47	47	43	43	43	43
Trail	61	58	55	54	54	53	53
Wheelbase	988	989	993	994	999	1006	1021
IN Standover	29.1	29.7	30.2	31.0	31.7	32.5	33.6
Seat tube	19.7	20.5	21.3	22.0	22.8	23.6	24.8
Head tube	3.8	3.8	4.1	4.8	5.5	6.3	7.3
Eff top tube	20.6	20.8	21.5	22.0	22.4	22.8	23.6
Reach	22.9	23.1	24.5	25.5	25.9	26.9	27.7
Chainstays	16.4	16.4	16.4	16.4	16.4	16.4	16.4
BB height	10.5	10.5	10.5	10.6	10.6	10.6	10.6
Offset	1.9	1.9	1.9	1.7	1.7	1.7	1.7
Trail	2.4	2.3	2.1	2.1	2.1	2.1	2.1
Wheelbase	38.9	38.9	39.1	39.1	39.3	39.6	40.2

Our Price: $ _____

1000T

Main tubes	Trek Alpha aluminum	
Stays	Trek Alpha aluminum	
Fork	Aero Cro-Moly	
Headset	Steel	22.2/30.0/27.0, 33.5mm stack
Handlebars	ICON Sleeve Ergo	26.0mm clamp diameter
Stem	KWG alloy, 90°	22.2mm insertion
Grips	Cork tape	
Shifters	Shimano Sora STI Dual Control	
Front derailleur	Shimano Sora T	Down pull, 31.8mm clamp
Rear derailleur	Shimano Sora GS	
Brakes	Alloy dual pivot	
Brake levers		Integrated brake/shift
Crankset	Cyclone, alloy rings, 52/42/30	
Bottom bracket	Cartridge	68 x 118
Pedals	Resin/alloy cage w/clips and straps	9/16" axle
Cassette	Sunrace 11-28	8spd
Chain	KMC Z51	108 length, 3/32"
Front hub	Alloy QR	
Front rim	Vuelta Airline 2	PVC rimstrip
Front tire	Continental Sport 1000	700 x 25c
Rear hub	Alloy QR	HyperGlide cassette, 8spd, 130mm O.L.D.
Rear rim	Vuelta Airline 2	PVC rimstrip
Rear tire	Continental Sport 1000	700 x 25c
Tubes	Presta valve	48mm stem
Spokes	15G stainless	32 spoke 3x Front / 32 spoke 3x Rear
		291 / 288/290 rear (D/ND)
Saddle	Selle Bassano Smart	
Seatpost	Alloy micro-adjust	27.2mm diameter
Seat binder	Alloy w/integral bolt	31.8 clamp diameter
Additionals	2 water bottle mounts, rack mounts	
Colors	Metal Flake Blue • White decal	

	30	42	52
11	74	103	128
12	68	95	117
14	58	81	100
16	51	71	88
18	45	63	78
21	39	54	67
24	34	47	59
28	29	41	50

23.9 lb.
10.86 kg.

Frame sizes	43	50	54	56	58	60
Handlebar width	380	400	400	400	420	420
Stem length	80	90	100	110	120	130
Stem angle	0	0	0	0	0	0
Crank length	170	170	170	175	175	175
Seatpost length	250	250	250	250	250	250
Steerer, mm	147	147	147	162	182	197
Fork length	356 mm axle-crown race					
Head angle	72.5	72.5	72.5	73.5	74.0	74.0
Seat angle	75.0	75.0	74.0	73.5	73.5	73.0
MM Standover	713	747	765	785	804	821
Seat tube	430	500	540	560	580	600
Head tube	100	100	100	115	135	150
Eff top tube	520	520	536	555	565	575
Reach	587	597	622	652	672	691
Chainstays	415	415	415	415	415	415
BB height	266	266	266	266	266	266
Offset	47	47	47	47	43	43
Trail	60	60	60	54	55	55
Wheelbase	980	980	987	989	989	999
IN Standover	28.1	29.4	30.1	30.9	31.7	32.3
Seat tube	16.9	19.7	21.3	22.0	22.8	23.6
Head tube	3.9	3.9	3.9	4.5	5.3	5.9
Eff top tube	20.5	20.5	21.1	21.9	22.2	22.6
Reach	23.1	23.5	24.5	25.7	26.5	27.2
Chainstays	16.3	16.3	16.3	16.3	16.3	16.3
BB height	10.5	10.5	10.5	10.5	10.5	10.5
Offset	1.9	1.9	1.9	1.9	1.7	1.7
Trail	2.4	2.4	2.4	2.1	2.1	2.1
Wheelbase	38.6	38.6	38.9	38.9	38.9	39.3

Women's road bike geometry

Most women have only been able to choose from a single category of bike design; men's. On taller women, this choice was often satisfactory. Perhaps a few easy changes were necessary, such as a shorter stem and adjusting a different, ladies saddle further forward.

But on smaller women, it was much harder to get a good fit. And even if the fit was accomplished, performance on the small bike often suffered.

Some companies tried to address this by using shorter top tubes coupled to shorter seat tubes. This helped some, but the usual compromise on these attempts was to raise the bottom bracket considerably. Why the high bottom bracket? As the top tube is shortened, the toe clearance around the front wheel is compromised. Raising the bottom bracket alleviates this somewhat. This doesn't help with an already restricted standover, nor does raising the rider's center of gravity help the bike's handling, instead making it tippy and precarious in corners. An additional problem is that raising the bottom bracket without adjusting the handlebar position upward puts the bars lower, when the bars really need to be higher for a woman.

Another solution has been to use a smaller front wheel. This allows a shorter front center, but having two tire sizes, two tube size, two rim sizes, etc causes some maintenance headaches for riders.

Our engineers evaluated all this and decided that to get the best overall fit, AND PERFORMANCE, smaller wheels front and rear coupled to an entire new geometry was the best way to solve the small rider fit. An important point here is that although the frame engineers were working on women's solutions, many smaller males may find that these bikes ride better than past compromises they've made to get a good fit.

Smaller wheels

The WSD road bikes use a 650c diameter wheelset. Smaller wheels are easier to accelerate. They present less frontal area, make them more aerodynamic. No wonder we also use them on our built-for-speed Hilo tri bikes.

Using smaller wheels has many effects on the bike design. Instead of being forced into particular angles to accommodate an ill-fitting wheelset, 650c wheels allowed our engineers the freedom to pick the exact angles that would yield the best ride. It also allows more 'normal' tubing lengths so the bike has the normal flex and liveliness 'big' people expect from their bikes. Better fit. Better feel. Better function.

For better fit, we started by offering a shorter top tube. Previous attempts used a radically slack head angle and steep seat angle to shorten the top tube. While Trek women's geometry is different than men's in this respect, our shorter top tube is not at the sacrifice of handling. The head angles are slightly more relaxed, but this is to add steering stability, not toe clip clearance. Toe clip clearance is adequate on even the smallest frame size, assuming that the small rider also has small feet. But women riders do not have as much weight in their shoulders as a man of similar height. That weight works with trail to provide steering stability and tracking on a bicycle. The WSD head angles are tuned just to provide good handling.

Another special detail we've added is to address the lower centripetal force generated by the smaller diameter wheel. The wheel's rotation provides a stabilizing force much like a gyroscope. The lighter the wheel, or the closer to the hub the mass is located, the lower this force is. Since this force provides stability coupled with trail, we use a shorter fork rake (offset) to add trail. The result is a bike that handles neutrally, even with the lighter, smaller wheel. yet those smaller wheels really accelerate, so a smaller person who might not have the horsepower of a bigger rider can really move. Fun. And fast!

Alpha SL WSD Special Parts	Part #
Front derailleur clamp	T973749
Seat clamp	981631
650c ICON Carbon Classic fork	
650c Rolf Vector Comp wheelset	
Rear derailleur hanger	990116
Attachment bolt	990129

2300 WSD

Our Price: $ _____

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Carbon Classic 650		
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano Ultegra STI, Flite Deck compatible		
Front derailleur	Shimano Ultegra	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano Ultegra GS		
Brakes	Shimano Ultegra		
Brake levers		Integrated brake/shift	
Crankset	Shimano Ultegra 53/39	130 mm bolt hole circle	
Bottom bracket	Shimano Ultegra	68 x 118	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano Ultegra 12-25	9spd	
Chain	Shimano HG92	108 length, 9 speed	
Front wheel	Rolf Vector Comp 650	Velox 16mm rimstrip	
Front tire	Continental Grand Prix	650 x 23c	
Rear wheel	Rolf Vector Comp 650	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Grand Prix	650 x 23c	
Tubes	Presta valve, 40mm stem		
Spokes	DT 14/15G butted stainless	18 spoke Radial Front 244	20 spoke 2x Rear 263/263 rear (D/ND)
Saddle	Bontrager FS 2000 WSD, CrMo		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Pearl White • Cobalt decal		

	39	53
12	79	107
13	73	99
14	68	92
15	63	86
17	56	76
19	50	68
21	45	61
23	41	56
25	38	51

21.1 lb.
9.58 kg.

Frame sizes	43	47	52
Handlebar width	380	380	380
Stem length	70	90	100
Stem angle	0	0	0
Crank length	165	165	170
Seatpost length	250	250	250
Steerer, mm	144	144	180
Fork length	345 mm axle-crown race		
Head angle	73.0	72.5	72.5
Seat angle	76.0	75.0	74.0
MM Standover	683	708	751
Seat tube	430	470	520
Head tube	97	97	133
Eff top tube	490	500	505
Reach	548	576	591
Chainstays	412	412	412
BB height	262	264	264
Offset	38	38	38
Trail	55	58	58
Wheelbase	950	956	954
IN Standover	26.9	27.9	29.6
Seat tube	16.9	18.5	20.5
Head tube	3.8	3.8	5.2
Eff top tube	19.3	19.7	19.9
Reach	21.6	22.7	23.3
Chainstays	16.2	16.2	16.2
BB height	10.3	10.4	10.4
Offset	1.5	1.5	1.5
Trail	2.2	2.3	2.3
Wheelbase	37.4	37.6	37.6

Our Price: $ _____

2200 WSD

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Carbon Classic 650		
Headset	Tange Seiki Passage DX, alloy	22.2/30.2/26.4, 35.3mm stack	
Handlebars	ICON Graphite	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano 105 STI, Flite Deck compatible		
Front derailleur	Shimano 105 T	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano 105 GS		
Brakes	Shimano 105		
Brake levers		Integrated brake/shift	
Crankset	Shimano 105 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano 105	68 x 118	
Pedals	ICON De La Sole, clipless	9/16" axle	
Cassette	Shimano HG70 12-25	9spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Vector 650	Velox 16mm rimstrip	
Front tire	Continental Grand Prix	650 x 23c	
Rear wheel	Rolf Vector 650	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Grand Prix	650 x 23c	
Tubes	Presta valve, 40mm stem		
Spokes	DT 14/15G butted stainless	20 spoke Radial Front 252	24 spoke 2x Rear 263/261 rear (D/ND)
Saddle	Bontrager FS 2000 WSD, CrMo		
Seatpost	ICON Graphite, 2014	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Metallic Purple • White decal		

	30	42	52
12	61	85	105
13	56	78	97
14	52	73	90
15	49	68	84
17	43	60	74
19	38	54	66
21	35	49	60
23	32	44	55
25	29	41	50

21.7 lb.
9.85 kg.

Frame sizes	43	47	52
Handlebar width	380	380	380
Stem length	70	90	100
Stem angle	0	0	0
Crank length	165	165	170
Seatpost length	250	250	250
Steerer, mm	144	144	180
Fork length	345 mm axle-crown race		
Head angle	73.0	72.5	72.5
Seat angle	76.0	75.0	74.0
MM Standover	683	708	751
Seat tube	430	470	520
Head tube	97	97	133
Eff top tube	490	500	505
Reach	548	576	591
Chainstays	412	412	412
BB height	262	264	264
Offset	38	38	38
Trail	55	58	58
Wheelbase	950	956	954
IN Standover	26.9	27.9	29.6
Seat tube	16.9	18.5	20.5
Head tube	3.8	3.8	5.2
Eff top tube	19.3	19.7	19.9
Reach	21.6	22.7	23.3
Chainstays	16.2	16.2	16.2
BB height	10.3	10.4	10.4
Offset	1.5	1.5	1.5
Trail	2.2	2.3	2.3
Wheelbase	37.4	37.6	37.6

2000T WSD

Our Price: $_____

Main tubes	Aero 6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	ICON Carbon Classic 650		
Headset	Tange Seiki Passage	22.2/30.2/26.4, 30.9mm stack	
Handlebars	ICON Sleeve Ergo	26.0mm clamp diameter	
Stem	KWG alloy, 90°	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano Tiagra STI Dual Control		
Front derailleur	Shimano Tiagra T	Down pull, 31.8 mm/ 1 1/4"	
Rear derailleur	Shimano Tiagra GS		
Brakes	Shimano Sora		
Brake levers		Integrated brake/shift	
Crankset	Shimano Tiagra 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano BB-UN40	68 x 113	
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle	
Cassette	Shimano HG50 12-25	8spd	
Chain	Shimano HG72	108 length, 9 speed	
Front wheel	Rolf Vector 650	Velox 16mm rimstrip	
Front tire	Continental Grand Prix	650 x 23c	
Rear wheel	Rolf Vector 650	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip	
Rear tire	Continental Grand Prix	650 x 23c	
Tubes	Presta valve		
Spokes	DT 14/15G butted stainless	20 spoke Radial Front 252	24 spoke 2x Rear 263/261 rear (D/ND)
Saddle	Bontrager FS 2000 WSD		
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, rack mounts		
Colors	Blackberry • Gold decal		

	30	42	52
12	61	85	105
13	56	78	97
15	49	68	84
17	43	60	74
19	38	54	66
21	35	49	60
23	32	44	55
25	29	41	50

22.1 lb.
10.03 kg.

Frame sizes		43	47	52
Handlebar width		380	380	380
Stem length		70	90	100
Stem angle		0	0	0
Crank length		165	165	170
Seatpost length		250	250	250
Steerer, mm		139	139	175
Fork length		345 mm axle-crown race		
Head angle		73.0	72.5	72.5
Seat angle		76.0	75.0	74.0
MM	Standover	683	708	751
	Seat tube	430	470	520
	Head tube	97	97	133
	Eff top tube	490	500	505
	Reach	548	577	592
	Chainstays	412	412	412
	BB height	262	264	264
	Offset	38	38	38
	Trail	55	58	58
	Wheelbase	950	956	954
IN	Standover	26.9	27.9	29.6
	Seat tube	16.9	18.5	20.5
	Head tube	3.8	3.8	5.2
	Eff top tube	19.3	19.7	19.9
	Reach	21.6	22.7	23.3
	Chainstays	16.2	16.2	16.2
	BB height	10.3	10.4	10.4
	Offset	1.5	1.5	1.5
	Trail	2.2	2.3	2.3
	Wheelbase	37.4	37.6	37.6

Our Price: $_____

540

Main tubes	6061 T6 aluminum		
Stays	6061 T6 aluminum		
Fork	Cro-Moly		
Headset	Tange Seiki CDS	22.2/30.2/26.4, 33.7mm stack	
Handlebars	ICON Graphite, ergo bend	26.0mm clamp diameter	
Stem	ICON Graphite, quill	22.2mm insertion	
Grips	ICON Powercork		
Shifters	Shimano Ultegra bar ends		
Front derailleur	Shimano 105 T	Down pull, Braze-on w/34.9mm clamp	
Rear derailleur	Shimano Deore XT SGS		
Brakes	Shimano STX-RC V		
Brake levers	Dia-Compe 287 Aero		
Crankset	Shimano 105 52/42/30	74/130 mm bolt hole circle	
Bottom bracket	Shimano 105	68 x 118	
Pedals	Shimano SPD M323, platform/clipless	9/16" axle	
Cassette	Shimano HG50-I 11-30	8spd	
Chain	Shimano HG72	116 length, 9 speed	
Front hub	Shimano Deore LX		
Front rim	Bontrager Fairlane	Velox 19mm rimstrip	
Front tire	Continental Top Touring	700 x 32c	
Rear hub	Shimano Deore LX	HyperGlide cassette, 8/9spd, 135mm O.L.D.	
Rear rim	Bontrager Fairlane ASYM	Velox 22mm rimstrip	
Rear tire	Continental Top Touring	700 x 32c	
Tubes	Presta valve		
Spokes	DT 14G stainless	36 spoke 3x Front 295	36 spoke 3x Rear 292/293 rear (D/ND)
Saddle	Selle Bassano E-Z Rider		
Seatpost	ICON Graphite, 2014	31.6mm diameter	
Seat binder	Alloy w/integral bolt	36.4 clamp diameter	
Additionals	3 water bottle mounts, front & rear rack mounts (no rear mount on 52)		
Colors	Pearl White • Gold decal		

	30	42	52
11	74	103	128
13	62	87	108
15	54	76	94
17	48	67	83
20	41	57	70
23	35	49	61
26	31	44	54
30	27	38	47

22.9 lb.
10.39 kg.

Frame sizes		52	56	58	60	64
Handlebar width		400	420	420	440	460
Stem length		60	80	80	100	120
Stem angle		0	0	0	0	0
Crank length		170	170	175	175	175
Seatpost length		270	270	270	270	270
Steerer, mm		128	162	185	207	248
Fork length		392 mm axle-crown race				
Head angle		70.9	71.9	72.3	72.3	72.9
Seat angle		71.9	72.4	72.3	72.3	72.4
MM	Standover	709	797	818	839	883
	Seat tube	457	550	590	610	650
	Head tube	82	113	136	157	201
	Eff top tube	542	554	578	590	616
	Reach	589	620	645	676	722
	Chainstays	457	457	457	457	457
	BB height	258	261	262	265	270
	Offset	52	52	52	52	52
	Trail	65	58	56	56	52
	Wheelbase	1027	1048	1057	1070	1093
IN	Standover	27.9	31.4	32.2	33.0	34.8
	Seat tube	18.0	21.7	23.2	24.0	25.6
	Head tube	3.2	4.4	5.4	6.2	7.9
	Eff top tube	21.3	21.8	22.8	23.2	24.3
	Reach	23.2	24.4	25.4	26.6	28.4
	Chainstays	18.0	18.0	18.0	18.0	18.0
	BB height	10.2	10.3	10.3	10.4	10.6
	Offset	2.0	2.0	2.0	2.0	2.0
	Trail	2.5	2.3	2.2	2.2	2.1
	Wheelbase	40.4	41.3	41.6	42.1	43.0

520

Our Price: $

Main tubes	True Temper double butted Cro-Moly	
Stays	Cro-Moly steel	
Fork	Cro-Moly Touring	
Headset	Tange Seiki CDS	22.2/30.2/26.4, 33.7mm stack
Handlebars	ICON Graphite, ergo bend	26.0mm clamp diameter
Stem	ICON Graphite, quill	22.2mm insertion
Grips	ICON Powercork	
Shifters	Shimano Ultegra bar ends	
Front derailleur	Shimano 105 T	Down pull, 31.8 mm/ 1 1/4"
Rear derailleur	Shimano Deore LX SGS	
Brakes	Shimano STX-RC V	
Brake levers	Dia-Compe 287 Aero	
Crankset	Shimano 105 52/42/30	74/130 mm bolt hole circle
Bottom bracket	Shimano 105	68 x 118
Pedals	Shimano SPD M323, platform/clipless	9/16" axle
Cassette	Shimano HG50-I 11-30	8spd
Chain	Shimano HG72	114 length, 9 speed
Front hub	Shimano Deore LX	
Front rim	Bontrager Fairlane	Velox 19mm rimstrip
Front tire	Continental Top Touring	700 x 32c
Rear hub	Shimano Deore LX	HyperGlide cassette, 8/9spd, 135mm O.L.D.
Rear rim	Bontrager Fairlane ASYM	Velox 22mm rimstrip
Rear tire	Continental Top Touring	700 x 32c
Tubes	Presta valve	
Spokes	DT 14G stainless	36 spoke 3x Front: 295 / 36 spoke 3x Rear: 292/293 rear (D/ND)
Saddle	Trek hybrid, leather cover	
Seatpost	Alloy micro-adjust	27.2mm diameter
Seat binder	Alloy w/integral bolt	31.9 clamp diameter
Additionals	3 water bottle mounts, front & rear rack mounts, rear rack	
Colors	Pearl Navy • Gold decal	

	30	42	52
11	74	103	128
13	62	87	108
15	54	76	94
17	48	67	83
20	41	57	70
23	35	49	61
26	31	44	54
30	27	38	47

26.3 lb.
11.94 kg.

Frame sizes	17	19	21	23	25
Handlebar width	400	420	420	440	460
Stem length	60	80	100	100	120
Stem angle	0	0	0	0	0
Crank length	170	170	170	175	175
Seatpost length	250	250	250	250	250
Steerer, mm	136	136	136	166	211
Fork length	390 mm axle-crown race				
Head angle	71.0	71.0	71.0	72.0	72.5
Seat angle	74.0	74.0	73.5	73.0	72.0
MM Standover	697	727	764	806	852
Seat tube	432	483	533	584	635
Head tube	90	90	90	120	165
Eff top tube	540	545	555	566	590
Reach	587	611	640	652	695
Chainstays	450	450	450	450	450
BB height	268	268	268	268	268
Offset	52	52	52	52	52
Trail	64	64	64	58	55
Wheelbase	1044	1046	1054	1052	1062
IN Standover	27.4	28.6	30.1	31.7	33.5
Seat tube	17.0	19.0	21.0	23.0	25.0
Head tube	3.5	3.5	3.5	4.7	6.5
Eff top tube	21.3	21.5	21.9	22.3	23.2
Reach	23.1	24.0	25.2	25.7	27.4
Chainstays	17.7	17.7	17.7	17.7	17.7
BB height	10.6	10.6	10.6	10.6	10.6
Offset	2.0	2.0	2.0	2.0	2.0
Trail	2.5	2.5	2.5	2.3	2.1
Wheelbase	41.1	41.2	41.5	41.4	41.8

Hilo (Triathlon)

Who are the new Hilos for?

The new Hilo triathlon frames are designed for individual time trials, contre la montre, the race of truth. To accomplish this goal they use Rolf wheels, a slippery frame design, and a very aerodynamic position to cheat the wind for flat out speed. In other words, the Hilo is built to go fast.

What makes the Hilo special?

The design of the Hilo has two sources of inspiration. Most notably was our engineers' work with Lance Armstrong in a wind tunnel. But our engineers also relied heavily on an extensive racing background that includes multiple finishes of the famed Ironman Triathlon on Hawaii. Combining these experiences into a clean-slate type of design allows Trek to execute a triathlon design that is fresh from the ground up.

In addition to the aerodynamics of the frame and riding position, a big increase in performance comes from the custom Rolf 650c wheels. Not only are they lighter than their 700c cousins, but they present a smaller profile to the wind for even more efficiency.

How much does a Hilo frame weigh?

The Hilo frame weighs just 2.9 pounds, or 1.32 kilograms. But remember: weight of the bike is important in adding efficiency and reducing the power needed to propel the bike. At speed, aerodynamics are much more important than weight in reducing the power output required by the rider. In other words, being light helps but its improved aerodynamics that really make the Hilo fast.

How do you size a Hilo?

If a rider fits a 58cm 5500, they should also fit a 58cm Hilo. This was done intentionally to make it easier for you to get the rider onto the correct size. When applying this rule, make sure you consider any outside factors which might make it difficult for a rider to be comfortable in a full aero position. If they have back problems, or are overweight, they may find a full tuck is difficult to maintain. In such a case it might be good to try a larger size (with a shorter stem) to take advantage of the higher bar position, or try substituting a high-rise stem.

Racing heritage

The Hilo frame uses butted 6061 T6 aluminum with a radical, deeply aero down tube. This beefy tube is very aero, as well as eye-catching, but there's some serious engineering at work here. By using a larger diameter down tube, we have vastly increased pedaling efficiency through increased bottom bracket stiffness. This beefy tube is joined to an outer butted head tube. This reinforcement at the headset cups prevents distortion that could prematurely wear the headset bearings.

The stays are tapered and shaped 6061. Then they're welded to a hollow 3-D forged monostay that mimics our OCLV road bikes in styling. This compliments the aerodynamics of the down tube, but our goal was to stiffen braking response, and it works. The other end of the stays are joined to forged dropouts with a replaceable derailleur hanger.

Hilo special parts	Part #
Front derailleur clamp	T973749
Rear derailleur hanger	990116
Attachment bolt	990129
Seat clamp	981631

Hilo 2000

Our Price: $ _____

Main tubes	Aero 6061 T6 aluminum					
Stays	6061 T6 aluminum					
Fork	Carbon Aero 650c					
Headset	Cane Creek Aheadset	22.2/30.2/26.4, 26.5mm stack				
Handlebars	ICON Sterling TT w/Syntace Streamliner clip-on	26.0mm clamp diameter				
Stem	ICON Sterling, direct connect	39.5mm steerer clamp height				
Grips	ICON Powercork					
Shifters	Shimano Dura-Ace bar ends					
Front derailleur	Shimano Ultegra	Down pull, Braze-on w/34.9mm clamp				
Rear derailleur	Shimano Ultegra					
Brakes	Shimano Ultegra					
Brake levers	Dia-Compe BL188 Aero					
Crankset	Shimano Ultegra 53/39	130 mm bolt hole circle				
Bottom bracket	Shimano Ultegra	68 x 109.5				
Pedals	-	9/16" axle				
Cassette	Shimano Ultegra 12-25	9spd				
Chain	Shimano HG92	108 length, 9 speed				
Front wheel	Rolf Vector Pro 650	Velox 16mm rimstrip				
Front tire	Continental Grand Prix	650 x 23c				
Rear wheel	Rolf Vector Pro 650	HyperGlide cassette, 8/9spd, 130mm O.L.D.				
		Velox 16mm rimstrip				
Rear tire	Continental Grand Prix	650 x 23c				
Tubes	Presta valve	48mm stem				
Spokes	DT Blade 2.2/1.0, locking alloy nips	14 spoke Radial Front		16 spoke 1x Rear		
		254		261/259 rear (D/ND)		
Saddle	Selle Italia Flite, Gel, Ti/leather					
Seatpost	Thomson Elite	27.2mm diameter				
Seat binder	Alloy w/integral bolt	35.0 clamp diameter				
Additionals	2 water bottle mounts, Clip-ons					
Colors	Metal Flake Yellow • White decal					

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
17	61	82
19	54	74
21	49	67
23	45	61
25	41	56

19.2 lb.
8.72 kg.

Frame sizes	50	54	56	58	60	
Handlebar width						
Stem length	70	80	100	110	120	
Stem angle	0	0	0	0	0	
Crank length	170	172.5	172.5	175	175	
Seatpost length	250	250	250	250	250	
Steerer, mm	191	208	227	246	273	
Fork length	343 mm axle-crown race					
Head angle	72.0	73.0	73.8	73.8	74.0	
Seat angle	75.0	74.0	73.5	73.0	73.0	
MM Standover	740	768	788	806	825	
Seat tube	500	540	560	580	600	
Head tube	104	121	140	159	186	
Eff top tube	523	545	560	570	580	
Reach	572	610	645	665	685	
Chainstays	417	417	417	417	417	
BB height	266	266	268	268	268	
Offset	35	35	35	35	35	
Trail	73	67	62	62	61	
Wheelbase	988	993	994	999	1006	
IN Standover	29.1	30.2	31.0	31.7	32.5	
Seat tube	19.7	21.3	22.0	22.8	23.6	
Head tube	4.1	4.8	5.5	6.3	7.3	
Eff top tube	20.6	21.5	22.0	22.4	22.8	
Reach	22.5	24.0	25.4	26.2	27.0	
Chainstays	16.4	16.4	16.4	16.4	16.4	
BB height	10.5	10.5	10.6	10.6	10.6	
Offset	1.4	1.4	1.4	1.4	1.4	
Trail	2.9	2.6	2.5	2.5	2.4	
Wheelbase	38.9	39.1	39.1	39.3	39.6	

Our Price: $ _____

Hilo 1000

Main tubes	Aero 6061 T6 aluminum					
Stays	6061 T6 aluminum					
Fork	Carbon Aero 650c					
Headset	Cane Creek Aheadset	22.2/30.2/26.4, 26.5mm stack				
Handlebars	ICON Sterling TT w/Syntace Streamliner clip-on	26.0mm clamp diameter				
Stem	ICON Graphite, direct connect	39.5mm steerer clamp height				
Grips	ICON Powercork					
Shifters	Shimano Dura-Ace bar ends					
Front derailleur	Shimano 105	Down pull, Braze-on w/34.9mm clamp				
Rear derailleur	Shimano 105					
Brakes	Shimano 105					
Brake levers	Dia-Compe BL188 Aero					
Crankset	Shimano 105 53/39	130 mm bolt hole circle				
Bottom bracket	Shimano 105	68 x 109.5				
Pedals	Platform	9/16" axle				
Cassette	Shimano HG70 12-25	9spd				
Chain	Shimano HG72	108 length, 9 speed				
Front wheel	Rolf Vector 650	Velox 16mm rimstrip				
Front tire	Continental Grand Prix	650 x 23c				
Rear wheel	Rolf Vector 650	HyperGlide cassette, 8/9spd, 130mm O.L.D.				
		Velox 16mm rimstrip				
Rear tire	Continental Grand Prix	650 x 23c				
Tubes	Presta valve	48mm stem				
Spokes	DT 14/15G butted stainless	20 spoke Radial Front		24 spoke 2x Rear		
		252		263/261 rear (D/ND)		
Saddle	Selle Italia XO Gel, vanadium/leather					
Seatpost	ICON Graphite, 2014	27.2mm diameter				
Seat binder	Alloy w/integral bolt	35.0 clamp diameter				
Additionals	2 water bottle mounts, rack mounts					
Colors	Metallic Purple • White decal					

	39	53
12	86	117
13	79	108
14	74	100
15	69	93
17	61	82
19	54	74
21	49	67
23	45	61
25	41	56

19.7 lb.
8.94 kg.

Frame sizes	50	54	56	58	60	
Handlebar width						
Stem length	60	80	100	110	120	
Stem angle	0	0	0	0	0	
Crank length	170	172.5	172.5	175	175	
Seatpost length	250	250	250	250	250	
Steerer, mm	191	208	227	246	273	
Fork length	343 mm axle-crown race					
Head angle	72.0	73.0	73.8	73.8	74.0	
Seat angle	75.0	74.0	73.5	73.0	73.0	
MM Standover	740	768	788	806	825	
Seat tube	500	540	560	580	600	
Head tube	104	121	140	159	186	
Eff top tube	523	545	560	570	580	
Reach	562	610	645	665	685	
Chainstays	417	417	417	417	417	
BB height	266	266	268	268	268	
Offset	35	35	35	35	35	
Trail	73	67	62	62	61	
Wheelbase	988	993	994	999	1006	
IN Standover	29.1	30.2	31.0	31.7	32.5	
Seat tube	19.7	21.3	22.0	22.8	23.6	
Head tube	4.1	4.8	5.5	6.3	7.3	
Eff top tube	20.6	21.5	22.0	22.4	22.8	
Reach	22.1	24.0	25.4	26.2	27.0	
Chainstays	16.4	16.4	16.4	16.4	16.4	
BB height	10.5	10.5	10.6	10.6	10.6	
Offset	1.4	1.4	1.4	1.4	1.4	
Trail	2.9	2.6	2.5	2.5	2.4	
Wheelbase	38.9	39.1	39.1	39.3	39.6	

XO (Cyclocross)

Who is the new XO for?

The new XO is a cyclocross bike. As such, its intended for cyclocross racing where a rider on a drop-bar road bike races off pavement. These races usually have a mixture of pavement, gravel, dirt, and even mud road riding, some singletrack, and a good portion of unrideable terrain or obstacles where the rider dismounts and carries the bike.

While meeting the demands of a cyclocross race, a well designed 'cross bike also makes a very versatile machine which works well for touring, commuting, or other road riding. The typical 'cross rider has a stable of bikes, but the 'cross bike may be the racer's version of a hybrid bike: one bike that can do it all.

What makes the XO special?

The XO was bred to race. But by careful frame design and parts selection, it will meet many other needs. Check out the details:

We use top-routed cables to keep them out of the gunk. But notice the cable stop under the down tube? If a rider wants to use a standard road crankset, they'll need to use a standard road front derailleur for best shifting. Since all road derailleurs are down pull, that stop lets you route the front derailleur cable under the bottom bracket.

A higher hand position than a road bike helps the 'cross rider avoid pitching over the bars on steep descents, even when on the drops for maximum control. This also makes the XO comfortable as well as making it easier for a rider to check for traffic behind.

The XO has a level top tube which leaves more room for shouldering the bike, an important consideration when dismounting for a run-up.

We gave the XO lots of mud clearance around the tires, even with larger knobs. This also means a commuter or tourer has room for fenders.

We spec'd cantilever brakes so that the cable pull would be acceptable with the STI combi shift levers.

And we worked with Shimano to develop a custom crankset with gearing that's right for 'cross riding.

How do you size an XO frame?

Although the position is slightly different for a crosser than from a standard road bike, the same frame size should fit.

Remember that the 'cross rider usually sits more upright, and with their weight further back. Imagine taking a road riders position and rotating them around the bottom bracket. By rotating the rider around the bottom bracket, the rider's muscles will maintain their range of motion and angles.

This rotated position puts the rider in a more upright position with their weight further back on the bike. Sitting more upright helps the rider control the bike in technical terrain, while being further back adds rear wheel traction and helps prevent flying over the handlebars.

XO special parts	Part #
Front derailleur clamp	T973749
Rear derailleur hanger	990116
Attachment bolt	990129
Seat clamp	981631

Our Price: $ _____

XO 1

Main tubes	Alpha aluminum			
Stays	Alpha aluminum			
Fork	Cross X-Lite, aluminum			
Headset	Tange Seiki Passage	22.2/30.2/26.4, 30.9mm stack		
Handlebars	ICON Sleeve Ergo	26.0mm clamp diameter		
Stem	ICON Graphite, quill	22.2mm insertion		
Grips	ICON Powercork			
Shifters	Shimano RSX STI Dual Control			
Front derailleur	Shimano Nexave 401	Top pull, 34.9 mm/ 1 3/8"		
Rear derailleur	Shimano RSX SS			
Brakes	Shimano STX, cantilever			
Brake levers		Integrated brake/shift		
Crankset	Shimano RX100 50/39	130 mm bolt hole circle		
Bottom bracket	Shimano BB-UN52	68 x 115		
Pedals	Bontrager RE-1, clipless	9/16" axle		
Cassette	Shimano HG50 13-26	8spd		
Chain	HG50	112 length, 3/32"		
Front wheel	Rolf Vector	Velox 16mm rimstrip		
Front tire	Cross Country	700 x 35c		
Rear wheel	Rolf Vector	HyperGlide cassette, 8/9spd, 130mm O.L.D. Velox 16mm rimstrip		
Rear tire	Cross Country	700 x 35c		
Tubes	Presta valve			
Spokes	DT 14/15G butted stainless	20 spoke Radial Front 278		24 spoke 2x Rear 288/287 rear (D/ND)
Saddle	Bontrager FS Race, Cro-Moly rails			
Seatpost	SP-312 alloy micro-adjust	27.2mm diameter		
Seat binder	Alloy w/integral bolt, cable hanger	35.0 clamp diameter		
Additionals				
Colors	Candy Gold • Black decal			

	39	50
13	82	105
14	76	97
15	71	91
17	62	80
19	56	72
21	51	65
23	46	59
26	41	52

23.4 lb.
10.62 kg.

	Frame sizes	52	55	58	61
	Handlebar width	420	440	440	460
	Stem length	100	110	110	120
	Stem angle	15	15	15	15
	Crank length	175	175	175	175
	Seatpost length	300	300	300	300
	Steerer, mm	138	163	182	201
	Fork length	403 mm axle-crown race			
	Head angle	71.0	71.5	72.0	72.5
	Seat angle	74.5	73.5	73.0	72.5
MM	Standover	774	801	826	851
	Seat tube	520	550	580	610
	Head tube	97	121	140	159
	Eff top tube	530	550	570	590
	Reach	604	633	653	683
	Chainstays	430	430	430	430
	BB height	284	284	284	284
	Offset	45	45	45	45
	Trail	73	69	66	63
	Wheelbase	1017	1018	1034	1043
IN	Standover	30.5	31.5	32.5	33.5
	Seat tube	20.5	21.7	22.8	24.0
	Head tube	3.8	4.8	5.5	6.3
	Eff top tube	20.9	21.7	22.4	23.2
	Reach	23.8	24.9	25.7	26.9
	Chainstays	16.9	16.9	16.9	16.9
	BB height	11.2	11.2	11.2	11.2
	Offset	1.8	1.8	1.8	1.8
	Trail	2.9	2.7	2.6	2.5
	Wheelbase	40.0	40.1	40.7	41.1

Recumbent

Who should ride a recumbent?

The appeal of the recumbent is enjoying all the normal pleasures of cycling while feeling like you're laying back in a barcalounger. Comfort and relaxation are unparalleled compared to other styles of bicycles.

Certainly there are other advantages. The aero position provides a measure of cycling efficiency which results in lower effort, or higher speed. And to date, no other bike will get you noticed as much.

Recumbent types

Recumbents are generally classified into two types; long wheelbase and short wheelbase. Like a conventional bicycle, a longer wheelbase tends to add stability. But the lower center of gravity of a recumbent already greatly increases stability over a standard bike.With this in mind, Trek designed the R200 with a more sporty, quick handling short wheelbase.

With the front wheel underneath the rider (instead of in front of them) the seating position needs to be a bit higher. Combined with a more upright seating position, this puts the rider's head in most cases slightly higher than the average car hood. The rider sees better, and the cars can see the rider.

The R200s seating position also makes it easier to get started. On a regular bike, you get under way by leaning forward slightly and giving a good push with your grounded foot. To get an idea of how a low position recumbent can make it hard to get under way, imagine trying to accelerate a skateboard while lying on your back. With a slightly higher and more upright position, you can provide plenty of thrust, and learning to ride an R200 doesn't require hours of practice.

Equally important for our target recumbent customer is safety. After talking to lots of riders, we designed the R200 to have a high head position. While the higher position sacrifices some aerodynamics, it puts the riders head and field of vision where they can see traffic, and be seen.

Another style division is hand placement. Recumbents which are focused on speed lay the rider way back, and then put their hands beneath the seat. When you rotate the cyclist's feet up with a high bottom bracket, the aero benefits becomes eveu more pronounced.

But for a casual cyclist, haviug the hands up in front and the feet a bit lower is less foreign, adding a feeling of security. The proponents of "low hands" say that the upright, high hand position can put your hands to sleep. The R200 avoids this syndrome by using a fully adjustable, telescoping handlebar system that can even be moved while riding. Its a secure position that steers more like other wheeled vehicles. The adjustable feature maintains a high degree of comfort. And when its time to get off, the handlebars fold forward, allowing the rider to easily dismount, hold and guide the bike.

A newer division in recumbents is suspension vs. rigid design. Like standard bikes, a rigid frame can be lighter and less expensive. But unlike on a standard bike, a recumbent rider cannot transfer weight to their hands and feet to absorb road shock. Each bump goes straight up the spine. Again, Trek opted for the comfortable approach. The R200 offers a rear suspension design, and the carefully selected pivot location allows the front wheel to benefit from the shock as well.

To summarize, the Trek R200 is a high hands, short wheelbase, suspension recumbent which is easy to learn to ride and fun on the long haul.

Where's the front derailleur?

One of the mechanical problems often found on recumbents is that the super long chain run allows the chain to flop around a bit. The result is often greasy chain marks on the legs, or worse yet poor shifting or a dropped chain. The Trek R200 avoids these problems by using a 'jackshaft' design with two freewheels. There is no front derailleur sticking off the front of the bike or cable running between your legs, and there is only one chainring. Overall shifting performance is enhanced and there is a wide gear range with tons of choices, so riders may fine-tune their gears to adapt easily to hills or plains.

Easy transporting

Some recumbents are a real problem to transport to your favorite riding area. Not the R200. Its standard length wheelbase fits standard roof racks. Or even better, the R200 can be easily folded using quick releases. By pulling the QRs, the R200 can be stowed in a standard-sized car trunk in a matter of seconds without tools.

Easy adjustment

With some recumbents, adjusting the distance from the seat to the pedals requires extensive mechanics, including changing the chain length. With the ease of standard quick releases, the R200's sliding seat rail can be adjusted up to ten inches to fit anyone from 5'1" - 6'6". And equally easy, the seat back is adjustable for angle. Combined with the quick release stem length and pivoting steering column, the R200 can go from compact and extra small to extra large and spacious in a matter of minutes.

Our Price: $ _____ R 200

Main tubes	Alpha aluminum	
Stays	Alpha aluminum	
Fork	Cro-Moly	
Rear shock	Cane Creek AD5	1" stroke, 35mm rear wheel travel 4" eye to eye, 7/8 ends
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack
Handlebars	Alloy, Arc	25.4mm clamp diameter
Stem	Recumbent adjustable w/quick release	30mm steerer clamp height
Grips	Trek Oasis, dual density	
Shifters	SRAM Centera, 2 rights	
Front derailleur	SRAM ESP 7.0	
Rear derailleur	SRAM ESP 7.0	
Brakes	Avid Single Digit 10, direct pull	
Brake levers	Avid AD-1.0 L, long pull	
Crankset	Cyclone	110 mm bolt hole circle
Bottom bracket	Shimano BB-UN52	73 x 110
Pedals	ICON SoleMate, clipless	9/16" axle
Cassette	Shimano HG50-I 11-30	8spd
Chain	KAZ LR900	166, 140 length, 3/32"
Front hub	Bontrager Comp I	
Front rim	Bontrager Maverick	19mm Velox rimstrip
Front tire	Primo Comet	20 x 1.35
Rear hub	Bontrager Comp II	HyperGlide cassette, 8/9spd, 135mm O.L.D.
Rear rim	Bontrager Maverick	19mm Velox rimstrip
Rear tire	Primo Comet	20 x 1.35
Tubes		
Spokes	DT 15G stainless	24 spoke 3x Front 189
		28 spoke 3x Rear 179/186 rear (D/ND)
Saddle	Rans	
Additionals	3 bottle mounts	
Colors	Trek Red • Silver decal	

Frame sizes	M
Handlebar width	580
Stem length	Adjustable
Stem angle	Adjustable
Crank length	170
Seatpost length	n/a
Steerer, mm	158
Fork length	270 mm axle-crown race
Head angle	76
Seat angle	n/a
MM Standover	581
Seat tube	n/a
Head tube	105
Eff top tube	Adjustable
Reach	Adjustable
Chainstays	n/a
BB height	603
Offset	38
Trail	23
Wheelbase	1117
IN Standover	22.9
Seat tube	n/a
Head tube	4.1
Eff top tube	Adjustable
Reach	Adjustable
Chainstays	n/a
BB height	23.7
Offset	1.5
Trail	0.9
Wheelbase	44.0

	13	15	18	21	24
11	123	106	88	76	66
13	104	90	75	64	56
15	90	78	65	56	49
17	79	69	57	49	43
20	67	58	49	42	37
23	59	51	42	36	32
26	52	45	37	32	28
30	45	39	32	28	24

29.2 lb.
13.26 kg.

Town and Country

Our Price: $ _____

Main tubes	Hi Tensile steel		33
Stays	Hi Tensile steel		20 43
Fork	Hi Tensile steel		
Headset	HP-665 ST	22.2/32.5/27.0, 35.5mm stack	
Handlebars	Cruiser, steel	25.4mm clamp diameter	
Stem	Alloy	22.2mm insertion	
Grips	Dual density with Cruiser pads		
Shifters	GripShift SRT-4.0 for Nexus, right only		
Front derailleur			
Rear derailleur			
Brakes	Shimano Revo coaster rear		
Brake levers			
Crankset	Dotek, 33T	1 piece	
Bottom bracket	VP-B33W		
Pedals	Platform	1/2" axle	35.8 lb. 16.25 kg.
Cassette	20		
Chain	KMC 410	98 length, 1/8"	
Front hub	Alloy, nutted		
Front rim	Alloy	Rubber rimstrip	
Front tire	Whitewall	26 x 2.125	
Rear hub	Shimano Nexus 4 speed	Internal 4 speed, Nutted front & rear, 123.5mm O.L.D.	
Rear rim	Alloy	Rubber rimstrip	
Rear tire	Whitewall	26 x 2.125	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		264	253/254 rear (D/ND)
Saddle	Oasis webspring Cruiser		
Seatpost	Alloy	25.6mm diameter	
Seat binder	Quick release		
Additionals	Kickstand, chainguard		
Colors	Blue Moon • Black decal		

Frame sizes	20	23	17W
Handlebar width	700	700	700
Stem length	80	80	80
Stem angle	25	25	25
Crank length	170	170	170
Seatpost length	350	350	350
Steerer, mm	190	245	245
Fork length	365 mm axle-crown race		
Head angle	69.5	69.5	69.5
Seat angle	72.8	72.8	72.8
MM Standover	683	727	526
Seat tube	508	584	432
Head tube	155	210	210
Eff top tube	583	630	560
Reach	631	678	608
Chainstays	450	450	450
BB height	275	275	275
Offset	58	58	58
Trail	64	64	64
Wheelbase	1105	1155	1080
IN Standover	26.9	28.6	20.7
Seat tube	20.0	23.0	17.0
Head tube	6.1	8.3	8.3
Eff top tube	23.0	24.8	22.0
Reach	24.9	26.7	24.0
Chainstays	17.7	17.7	17.7
BB height	10.8	10.8	10.8
Offset	2.3	2.3	2.3
Trail	2.5	2.5	2.5
Wheelbase	43.5	45.5	42.5

Our Price: $ _____

Cruiser Calypso

Main tubes	Hi Tensile steel		40
Stays	Hi Tensile steel		14 75
Fork	Hi Tensile steel		16 66
Headset	VP H-75	22.2/32.5/27.0, 35.5mm stack	18 58
Handlebars	Cruiser, steel	25.4mm clamp diameter	21 50
Stem	Alloy	22.2mm insertion	24 44
Grips	Dual density with Cruiser pads		28 37
Shifters	GripShift MRX-170, right only		
Front derailleur			
Rear derailleur	Shimano Tourney TY22		
Brakes	CS 852AT-1 cantilever		
Brake levers	Chang Star N380A		
Crankset	One piece type, 40T	1 piece	
Bottom bracket	One-piece type		
Pedals	Platform	1/2" axle	
Cassette	HG60 14-28	6spd	34.6 lb. 15.71 kg.
Chain	KMC Z-51	108 length, 3/32"	
Front hub	Alloy, nutted		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Whitewall	26 x 2.125	
Rear hub	Alloy, nutted	Threaded, 6 speed, Nutted front & rear, 126mm O.L.D.	
Rear rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Whitewall	26 x 2.125	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		264	261/263 rear (D/ND)
Saddle	Oasis Webspring Cruiser		
Seatpost	Alloy	25.6mm diameter	
Seat binder	Quick release		
Additionals	Kickstand, chainguard		
Colors	Mirror Black • Red decal		
	Metal Flake Green • White decal		

Frame sizes	20	23	17W
Handlebar width	700	700	700
Stem length	80	80	80
Stem angle	25	25	25
Crank length	165	165	165
Seatpost length	350	350	350
Steerer, mm	190	245	245
Fork length	365 mm axle-crown race		
Head angle	69.5	69.5	69.5
Seat angle	72.8	72.8	72.8
MM Standover	683	727	526
Seat tube	508	584	432
Head tube	155	210	210
Eff top tube	583	630	560
Reach	631	678	608
Chainstays	450	450	450
BB height	275	275	275
Offset	58	58	58
Trail	64	64	64
Wheelbase	1105	1155	1080
IN Standover	26.9	28.6	20.7
Seat tube	20.0	23.0	17.0
Head tube	6.1	8.3	8.3
Eff top tube	23.0	24.8	22.0
Reach	24.9	26.7	24.0
Chainstays	17.7	17.7	17.7
BB height	10.8	10.8	10.8
Offset	2.3	2.3	2.3
Trail	2.5	2.5	2.5
Wheelbase	43.5	45.5	42.5

Cruiser Classic

Our Price: $ _____

Main tubes	Hi Tensile steel		40
Stays	Hi Tensile steel		18 58
Fork	Hi Tensile steel		
Headset	VP H-75	22.2/32.5/27.0, 35.5mm stack	
Handlebars	Cruiser, steel	25.4mm clamp diameter	
Stem	Alloy	22.2mm insertion	
Grips	Cruiser		
Shifters			
Front derailleur			
Rear derailleur			
Brakes	Shimano coaster rear		
Brake levers			
Crankset	One piece type, 40T	1 piece	
Bottom bracket	One-piece type		
Pedals	Platform	1/2" axle	32.0 lb. 14.53 kg.
Cassette	18		
Chain	KMC 410	100 length, 1/8"	
Front hub	Alloy, nutted		
Front rim	Aluminum alloy	Rubber rimstrip	
Front tire	Whitewall	26 x 2.125	
Rear hub	Shimano coaster	Nutted front, Coaster rear, 110mm O.L.D.	
Rear rim	Aluminum alloy	Rubber rimstrip	
Rear tire	Whitewall	26 x 2.125	
Tubes	Schraeder valve		
Spokes	14G stainless	36 spoke 3x Front	36 spoke 3x Rear
		264	260 rear (D/ND)
Saddle	Oasis Webspring Cruiser		
Seatpost	Alloy	25.6mm diameter	
Seat binder			
Additionals	Kickstand, chainguard		
Colors	Ice Royal Blue • White decal		
	Ice Red • White decal		

Frame sizes	20	23	17W
Handlebar width	700	700	700
Stem length	80	80	80
Stem angle	25	25	25
Crank length	165	165	165
Seatpost length	350	350	350
Steerer, mm	190	245	245
Fork length	365 mm axle-crown race		
Head angle	69.5	69.5	69.5
Seat angle	72.8	72.8	72.8
MM Standover	683	727	526
Seat tube	508	584	432
Head tube	155	210	210
Eff top tube	583	630	560
Reach	631	678	608
Chainstays	450	450	450
BB height	275	275	275
Offset	58	58	58
Trail	64	64	64
Wheelbase	1105	1155	1080
IN Standover	26.9	28.6	20.7
Seat tube	20.0	23.0	17.0
Head tube	6.1	8.3	8.3
Eff top tube	23.0	24.8	22.0
Reach	24.9	26.7	24.0
Chainstays	17.7	17.7	17.7
BB height	10.8	10.8	10.8
Offset	2.3	2.3	2.3
Trail	2.5	2.5	2.5
Wheelbase	43.5	45.5	42.5

TR-30

Our Price: $ _____

Main tubes	Cro-Moly steel		44
Stays	Cro-Moly steel		16 55
Fork	Cro-Moly, 1 3/8"		
Headset	Dia-Compe SST-FS Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Trek Cro-Moly	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager BMX		
Brakes	CS 932A U-brake		
Brake levers	CS VL-211D		
Crankset	1-pc. Cro-Moly	110 mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Alloy BMX	1/2" axle	
Cassette	16		
Chain	KMC 410	90 length, 1/8"	
Front hub	Trek, alloy, 14mm axle		25.6 lb. 11.62 kg.
Front rim	Bontrager Bruiser	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.125	
Rear hub	Trek, alloy, 14mm axle	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Bontrager Bruiser	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	48 spoke 4x Front	48 spoke 4x Rear
		184	183 rear (D/ND)
Saddle	Bontrager FS10 BMX		
Seatpost	Alloy	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals	Trek steel rear pegs		
Colors	Blood Red • Cream decal		

Frame sizes	Pro
Handlebar width	685
Stem length	55
Stem angle	0
Crank length	180
Seatpost length	300
Steerer, mm	158
Fork length	286 mm axle-crown race
Head angle	73.5
Seat angle	71.0
MM Standover	
Seat tube	201
Head tube	95
Eff top tube	545
Reach	587
Chainstays	380
BB height	296
Offset	33
Trail	42
Wheelbase	951
IN Standover	
Seat tube	7.9
Head tube	3.7
Eff top tube	21.5
Reach	23.1
Chainstays	15.0
BB height	11.7
Offset	1.3
Trail	1.7
Wheelbase	37.4

TR-20

Our Price: $ _____

Main tubes	Hi Tensile steel w/Cro-Moly down tube		44 / 16 55
Stays	High tensile steel		
Fork	1 3/8" Cro-Moly		
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Trek Cro-Moly	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager BMX		
Brakes	C•Star 888AK, direct pull		
Brake levers	CS VL-211D		
Crankset	Trek forged Cro-Moly		
Bottom bracket	One-piece type	24 TPI	
Pedals	Alloy BMX	1/2" axle	
Cassette	16		
Chain	KMC 410	90 length, 1/8"	25.9 lb. / 11.76 kg.
Front hub	Trek, alloy		
Front rim	Bontrager Bruiser	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.125	
Rear hub	Trek, alloy	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Bontrager Bruiser	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	48 spoke 4x Front 184	48 spoke 4x Rear 183 rear (D/ND)
Saddle	Bontrager FS10 BMX		
Seatpost	Steel	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals			
Colors	Gloss White • Red decal Khaki Green/Gloss Black • Black/red decal		

Frame sizes	Pro	
Handlebar width	685	
Stem length	55	
Stem angle	0	
Crank length	180	
Seatpost length	300	
Steerer, mm	155	
Fork length	286 mm axle-crown race	
Head angle	73.5	
Seat angle	71.0	
MM Standover		
Seat tube	201	
Head tube	95	
Eff top tube	545	
Reach	587	
Chainstays	380	
BB height	296	
Offset	33	
Trail	42	
Wheelbase	951	
IN Standover		
Seat tube	7.9	
Head tube	3.7	
Eff top tube	21.5	
Reach	23.1	
Chainstays	15.0	
BB height	11.7	
Offset	1.3	
Trail	1.7	
Wheelbase	37.4	

TR-10

Our Price: $ _____

Main tubes	High tensile steel		44 / 16 55
Stays	High tensile steel		
Fork	1 3/8" blades		
Headset	VP H775	21.2/32.5/26.4, 40.5mm stack	
Handlebars	Trek	22.2mm clamp diameter	
Stem	Trek Jaws BMX	21.2mm insertion	
Grips	Bontrager BMX		
Brakes	CS VB888AK, direct pull		
Brake levers	CS VL-211D		
Crankset	Trek forged, 1 piece ring		
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform	1/2" axle	
Cassette	16		
Chain	KMC 410	90 length, 1/8"	26.1 lb. / 11.85 kg.
Front hub	Steel		
Front rim	Bontrager Bruiser	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.125	
Rear hub	Steel	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Bontrager Bruiser	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	36 spoke 4x Front 186	36 spoke 4x Rear 183 rear (D/ND)
Saddle	Bontrager FS10 BMX		
Seatpost	Steel	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals			
Colors	Gloss Black • Red/khaki decal Gloss White/Metal Flake Blue • Black/blue decal		

Frame sizes	Expert
Handlebar width	685
Stem length	55
Stem angle	0
Crank length	175
Seatpost length	300
Steerer, mm	133
Fork length	286 mm axle-crown race
Head angle	73.5
Seat angle	71.0
MM Standover	
Seat tube	256
Head tube	95
Eff top tube	525
Reach	572
Chainstays	380
BB height	296
Offset	33
Trail	42
Wheelbase	932
IN Standover	
Seat tube	10.1
Head tube	3.7
Eff top tube	20.7
Reach	22.5
Chainstays	15.0
BB height	11.7
Offset	1.3
Trail	1.7
Wheelbase	36.7

TI 2

Our Price: $_____

Main tubes	Alpha aluminum		44
Stays	Alpha aluminum		16 55
Fork	Cro-Moly, 1 3/8"		
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Trek Cro-Moly	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager		
Brakes	CS VB888AK, direct pull		
Brake levers	CS VL-211D		
Crankset	1-pc. Cro-Moly, 1 pc.		
Bottom bracket	One-piece type	24 TPI	
Pedals	Alloy 8MX	1/2" axle	
Cassette	16		
Chain	KMC 410	92 length, 1/8"	24.8 lb. 11.26 kg.
Front hub	Trek, alloy		
Front rim	Bontrager Bruiser	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.125	
Rear hub	Trek, alloy	Cassette, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Bontrager Bruiser	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	36 spoke 4x Front 184	36 spoke 4x Rear 1B3 rear (D/ND)
Saddle	Bontrager FS10 BMX		
Seatpost	Bontrager Comp	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals			
Colors	Trek Red/Gloss Black • Black/white decal		

Frame sizes	Pro XL	
Handlebar width	685	
Stem length	55	
Stem angle	0	
Crank length	180	
Seatpost length	300	
Steerer, mm	175	
Fork length	335 mm axle-crown race	
Head angle	74.0	
Seat angle	71.0	
MM Standover		
Seat tube	275	
Head tube	115	
Eff top tube	566	
Reach	608	
Chainstays	381	
BB height	306	
Offset	33	
Trail	40	
Wheelbase	980	
IN Standover		
Seat tube	10.8	
Head tube	4.5	
Eff top tube	22.3	
Reach	23.9	
Chainstays	15.0	
BB height	12.0	
Offset	1.3	
Trail	1.6	
Wheelbase	38.6	

Our Price: $_____

TI 1

Main tubes	Alpha aluminum		44
Stays	Alpha aluminum		16 55
Fork	1 3/8" blades		
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Trek BMX Cro-Moly	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager BMX		
Brakes	CS VB888AK, direct pull		
Brake levers	CS VL-211D		
Crankset	1-pc. Cro-Moly, 12 pc.		
Bottom bracket	One-piece type	24 TPI	
Pedals	Alloy BMX	1/2" axle	
Cassette	16		
Chain	KMC 410	92 length, 1/8"	25.6 lb. 11.62 kg.
Front hub	Trek, alloy		
Front rim	Bontrager Bruiser	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.125	
Rear hub	Trek, alloy	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Bontrager Bruiser	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	36 spoke 4x Front 185	36 spoke 4x Rear 183 rear (D/ND)
Saddle	Bontrager FS10 BMX		
Seatpost	Alloy	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals			
Colors	Gloss White/Metal Flake Blue • White/blue decal Bright Green/Gloss Black • Black/white decal		

Frame sizes	Pro	
Handlebar width	685	
Stem length	55	
Stem angle	0	
Crank length	180	
Seatpost length	300	
Steerer, mm	175	
Fork length	335 mm axle-crown race	
Head angle	74.0	
Seat angle	71.0	
MM Standover		
Seat tube	274	
Head tube	115	
Eff top tube	545	
Reach	587	
Chainstays	381	
BB height	306	
Offset	33	
Trail	40	
Wheelbase	960	
IN Standover		
Seat tube	10.8	
Head tube	4.5	
Eff top tube	21.5	
Reach	23.1	
Chainstays	15.0	
BB height	12.0	
Offset	1.3	
Trail	1.6	
Wheelbase	37.8	

Vert 1

Our Price: $ _____

Main tubes	Hi Tensile steel		44
Stays	High tensile steel		16 55
Fork	1 3/8" tapered		
Headset	VP H775	21.2/32.5/26.4, 40.5mm stack	
Handlebars	Trek Freestyle	22.2mm clamp diameter	
Stem	Trek Jaws BMX	21.2mm insertion	
Grips	Bontrager		
Brakes	Tektro 984AFS		
Brake levers	CS VL-211D		
Crankset	One-piece type, Trek forged		
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform, alloy	1/2" axle	
Cassette	16		
Chain	KMC 410	88 length, 1/8"	26.8 lb. 12.17 kg.
Front hub	Steel		
Front rim	Aluminum alloy	PVC rimstrip	
Front tire	LHR Freestyle	20 x 1.95	
Rear hub	Steel	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Aluminum alloy	PVC rimstrip	
Rear tire	LHR Freestyle	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	48 spoke 4x Front	48 spoke 4x Rear
		185	184 rear (D/ND)
Saddle	Trek Freestyle		
Seatpost	Steel	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals	SST rotor, rear pegs		
Colors	Chrome • Black/red decal		
	Deep Blue • Black/red decal		

Frame sizes	Street
Handlebar width	685
Stem length	55
Stem angle	0
Crank length	175
Seatpost length	300
Steerer, mm	146
Fork length	280 mm axle-crown race
Head angle	75.0
Seat angle	74.0
MM Standover	
Seat tube	229
Head tube	104
Eff top tube	514
Reach	561
Chainstays	381
BB height	297
Offset	33
Trail	35
Wheelbase	919
IN Standover	
Seat tube	9.0
Head tube	4.1
Eff top tube	20.2
Reach	22.1
Chainstays	15.0
BB height	11.7
Offset	1.3
Trail	1.4
Wheelbase	36.2

Vert 2

Our Price: $ _____

Main tubes	Cro-Moly downtube		44
Stays	High tensile steel		16 55
Fork	Cro-Moly 1 3/8" blades		
Headset	Dia-Compe SE-1 Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Freestyle	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager		
Brakes	CS 932A U-brake		
Brake levers	CS VL-211D		
Crankset	1-pc. Cro-Moly, 1 pc.		
Bottom bracket	One-piece type	24 TPI	
Pedals	Alloy BMX	1/2" axle	
Cassette	16		
Chain	KMC 410	90 length, 1/8"	26.4 lb. 11.99 kg.
Front hub	Trek, alloy		
Front rim	Aluminum alloy	PVC rimstrip	
Front tire	LHR Freestyle	20 x 1.95	
Rear hub	Trek, alloy, 14mm axle	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Aluminum alloy	PVC rimstrip	
Rear tire	LHR Freestyle	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	48 spoke 4x Front	48 spoke 4x Rear
		184	183 rear (D/ND)
Saddle	Trek Freestyle		
Seatpost	Steel	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals	SST rotor, Trek pegs front and rear		
Colors	Black Gold • Cream/red decal		

Frame sizes	Air
Handlebar width	685
Stem length	55
Stem angle	0
Crank length	180
Seatpost length	300
Steerer, mm	167
Fork length	280 mm axle-crown race
Head angle	75.0
Seat angle	73.0
MM Standover	
Seat tube	229
Head tube	104
Eff top tube	538
Reach	581
Chainstays	381
BB height	297
Offset	33
Trail	35
Wheelbase	935
IN Standover	
Seat tube	9.0
Head tube	4.1
Eff top tube	21.2
Reach	22.9
Chainstays	15.0
BB height	11.7
Offset	1.3
Trail	1.4
Wheelbase	36.8

Vert 3

Our Price: $_____

Main tubes	Cro-Moly steel		
Stays	Cro-Moly steel		
Fork	Cro-Moly, 1 3/8" blades		
Headset	Dia-Compe SST-FS Aheadset	25.4/34.0/30.0, 25.5mm stack	
Handlebars	Trek freestyle Cro-Moly	22.2mm clamp diameter	
Stem	Trek Jaws BMX, direct connect	31.7mm steerer clamp height	
Grips	Bontrager dual density		
Brakes	CS 932A U-brake		
Brake levers	CS VL-211D		
Crankset	1-pc. Cro-Moly, alloy 44T chainring	1 piece	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform, alloy	1/2" axle	
Cassette	16		
Chain	KMC 410	90 length, 1/8"	
Front hub	Trek, alloy, 14mm axle		
Front rim	Alex Alpha	PVC rimstrip	
Front tire	LHR Freestyle	20 x 1.95	
Rear hub	Trek, alloy, 14mm axle	Threaded, 1 speed, Nutted front & rear, 110mm O.L.D.	
Rear rim	Alex Alpha	PVC rimstrip	
Rear tire	LHR Freestyle	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	48 spoke 4x Front	48 spoke 4x Rear
		183	182 rear (D/ND)
Saddle	Trek Freestyle		
Seatpost	Alloy micro-adjust	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Additionals	SST rotor, Trek pegs front and rear		
Colors	Blood Red • Cream/black decal		

	44
16	55

26.2 lb.
11.89 kg.

Frame sizes	Air
Handlebar width	685
Stem length	55
Stem angle	0
Crank length	180
Seatpost length	300
Steerer, mm	167
Fork length	280 mm axle-crown race
Head angle	75.0
Seat angle	73.0

MM	
Standover	
Seat tube	229
Head tube	104
Eff top tube	538
Reach	581
Chainstays	381
BB height	297
Offset	33
Trail	35
Wheelbase	935

IN	
Standover	
Seat tube	9.0
Head tube	4.1
Eff top tube	21.2
Reach	22.9
Chainstays	15.0
BB height	11.7
Offset	1.3
Trail	1.4
Wheelbase	36.8

Our Price: $_____

Y 24

Main tubes	Hi Tensile steel	
Stays	High tensile steel	
Fork	Sync 288B	52mm travel
Rear shock	Aintec A8-7000	30mm stroke, 50 mm rear wheel travel
		125mm eye to eye, 22/23mm ends
Headset	VP H992W	25.4/34.0/30.0, 33.5mm stack
Handlebars	Steel, 5° bend, 40mm rise	25.4mm clamp diameter
Stem	ATB	25.4mm insertion
Grips	Kraton	
Shifters	SR 225	
Front derailleur	Shimano Altus	Top pull, 28.6 mm/ 1 1/8"
Rear derailleur	Shimano TY-30 GS	
Brakes	CS VB888AK, direct pull	
Brake levers	CS VL-313D	
Crankset	SR XR17G 42/34/24	Riveted
Bottom bracket	VP-B33W	68
Pedals	Platform	9/16" axle
Cassette	HG72 13-28	7spd
Chain	KMC Z-51	102 length, 3/32"
Front hub	Alloy, nutted	
Front rim	Alloy	PVC rimstrip
Front tire	Bontrager Revolt ST-2	24 x 2.1
Rear hub	Alloy, nutted	HyperGlide cassette, 7spd, 135mm O.L.D.
Rear rim	Alloy	PVC rimstrip
Rear tire	Bontrager Revolt ST-2	24 x 1.95
Tubes	Schraeder valve	
Spokes	14G UCP	32 spoke 3x Front — 241
		32 spoke 3x Rear — 239/240 rear (D/ND)
Saddle	Padded	
Seatpost	Alloy micro-adjust	27.2mm diameter
Seat binder	Quick release, 47mm	
Additionals		
Colors	Team White/Pearl Blue / White fork • Black/white/red decal	

	24	34	42
13	44	62	76
15	38	54	66
17	33	47	58
19	30	42	52
22	26	37	45
25	23	32	40
28	20	29	35

34.1 lb.
15.48 kg.

Frame sizes	S
Handlebar width	580
Stem length	50
Stem angle	15
Crank length	162
Seatpost length	300
Steerer, mm	134
Rear shock #	650
Fork length	428 mm axle-crown race
Head angle	70.0
Seat angle	71.5

MM	
Standover	
Seat tube	380
Head tube	100
Eff top tube	529
Reach	555
Chainstays	400
BB height	304
Offset	38
Trail	70
Wheelbase	993

IN	
Standover	
Seat tube	15.0
Head tube	3.9
Eff top tube	20.8
Reach	21.8
Chainstays	15.7
BB height	12.0
Offset	1.5
Trail	2.7
Wheelbase	39.1

Mt. Track 240

Our Price: $ _____

Main tubes	Alpha aluminum		
Stays	Alpha aluminum		
Fork	Sync 288	52mm travel	
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 40mm rise	25.4mm clamp diameter	
Stem	ATB	25.4mm insertion	
Grips	Kraton		
Shifters	SR 225		
Front derailleur	Shimano Altus	Top pull, 31.8 mm/ 1 1/4"	
Rear derailleur	Shimano Tourney TY30		
Brakes	CS V8888AK, direct pull		
Brake levers	CS VL-313D		
Crankset	SR XR-17 42/34/24	Riveted	
Bottom bracket	VP-B33W	68	
Pedals	Platform	9/16" axle	
Cassette	HG72 13-28	7spd	
Chain	KMC Z-51	102 length, 3/32"	
Front hub	Alloy, nutted		
Front rim	Alloy	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	24 x 2.1	
Rear hub	Alloy, nutted	HyperGlide cassette, 7spd, 135mm O.L.D.	
Rear rim	Alloy	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	24 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	32 spoke 3x Front 241	32 spoke 3x Rear 239/240 rear (D/ND)
Saddle	Padded		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Quick release		
Additionals	Rear derailleur guard		
Colors	Pearl Blue to Team White fade/ White fork • Red/black/blue/white decal		

	24	34	42
13	44	62	76
15	38	54	66
17	33	47	58
19	30	42	52
22	26	37	45
25	23	32	40
28	20	29	35

29.7 lb.
13.48 kg.

Frame sizes	13	
Handlebar width	580	
Stem length	50	
Stem angle	15	
Crank length	162	
Seatpost length	300	
Steerer, mm	125	
Fork length	388 mm axle-crown race	
Head angle	70.0	
Seat angle	72.0	
MM Standover	615	
Seat tube	335	
Head tube	90	
Eff top tube	529	
Reach	554	
Chainstays	407	
BB height	273	
Offset	38	
Trail	70	
Wheelbase	988	
IN Standover	24.2	
Seat tube	13.2	
Head tube	3.5	
Eff top tube	20.8	
Reach	21.8	
Chainstays	16.0	
BB height	10.7	
Offset	1.5	
Trail	2.7	
Wheelbase	38.9	

Our Price: $ _____

Mt. Track 220

Main tubes	Cro-Moly seat tube		
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 5° bend, 40mm rise	25.4mm clamp diameter	
Stem	ATB	25.4mm insertion	
Grips	Kraton		
Shifters	SR 225		
Front derailleur	Shimano Altus	Top pull, (W-down), 31.8 mm/ 1 1/4"	
Rear derailleur	Shimano Tourney TY30		
Brakes	CS VB888AK, direct pull		
Brake levers	CS VL-313D		
Crankset	SR XR-17 42/34/24	Riveted	
Bottom bracket	VP-B33W	68	
Pedals	Platform	9/16" axle	
Cassette	HG72 13-28	7spd	
Chain	KMC Z-51	102 length, 3/32"	
Front hub	Alloy, nutted		
Front rim	Alloy	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	24 x 2.1	
Rear hub	Alloy, nutted	HyperGlide cassette, 7spd, 135mm O.L.D.	
Rear rim	Alloy	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	24 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	32 spoke 3x Front 241	32 spoke 3x Rear 239/240 rear (D/ND)
Saddle	Padded		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Quick release		
Additionals	Rear derailleur guard, kickstand		
Colors	Gloss Black/Trek Red • Red/black/white decal (B)		
	Ice Royal Blue • red/white/blue decal (B)		
	Raspberry • White/silver decal (G)		
	Teal/ Light Teal fade • Teal/light teal/white decal (G)		
	Ice Grape Purple • Teal/grey/white decal (G)		

	24	34	42
13	44	62	76
15	38	54	66
17	33	47	58
19	30	42	52
22	26	37	45
25	23	32	40
28	20	29	35

31.9 lb.
14.48 kg.

	13B	13G
Frame sizes	13B	13G
Handlebar width	580	580
Stem length	50	50
Stem angle	15	15
Crank length	162	162
Seatpost length	300	250
Steerer, mm	125	125
Fork length	377 mm axle-crown race	
Head angle	70.0	70.0
Seat angle	72.0	72.0
MM Standover	606	550
Seat tube	335	335
Head tube	90	90
Eff top tube	524	524
Reach	549	549
Chainstays	405	405
BB height	273	273
Offset	45	45
Trail	62	62
Wheelbase	983	983
IN Standover	23.9	21.7
Seat tube	13.2	13.2
Head tube	3.5	3.5
Eff top tube	20.6	20.6
Reach	21.6	21.6
Chainstays	15.9	15.9
BB height	10.7	10.7
Offset	1.8	1.8
Trail	2.5	2.5
Wheelbase	38.7	38.7

Mt. Lion 60

Our Price: $ _____

Main tubes	Hi Tensile steel		
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	VP H992W	25.4/34.0/30.0, 34.5mm stack	
Handlebars	Steel, 5° bend, 40mm rise	25.4mm clamp diameter	
Stem	ATB	25.4mm insertion	
Grips	Kraton		
Shifters	SR 225, right only		
Front derailleur			
Rear derailleur	Shimano Tourney TY22		
Brakes	CS VB888AK, direct pull		
Brake levers	CS VL-313D		
Crankset	Three-piece type w/chainguard, 38T	Riveted	
Bottom bracket	VP-B33W	68	
Pedals	Platform	9/16" axle	
Cassette	HG60 14-28	6spd	
Chain	KMC Z-51	100 length, 3/32"	
Front hub	Alloy, nutted		
Front rim	Aluminum alloy	PVC rimstrip	
Front tire	Bontrager Revolt ST-2	20 x 2.1	
Rear hub	Alloy, nutted	Threaded, 6 speed, Nutted front & rear, 135mm O.L.D.	
Rear rim	Aluminum alloy	PVC rimstrip	
Rear tire	Bontrager Revolt ST-2	20 x 1.95	
Tubes	Schraeder valve		
Spokes	14G UCP	32 spoke 3x Front 192	32 spoke 3x Rear 189/191 rear (D/ND)
Saddle	Padded		
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Quick release, 47mm		
Additionals	Rear derailleur guard, double chainring guards, kickstand		
Colors	Pearl Blue to Team White fade • Red/black/blue/white decal (B) Metallic Teal • Purple/black/white decal (G) Ice Pink • Purple/black/white decal (G)		

	38
14	55
16	48
18	42
21	36
24	32
28	27

26.0 lb.
11.80 kg.

Frame sizes		12B	12G
Handlebar width		580	580
Stem length		50	50
Stem angle		15	15
Crank length		140	140
Seatpost length		300	250
Steerer, mm		125	125
Fork length		320 mm axle-crown race	
Head angle		70.0	70.0
Seat angle		72.0	72.0
MM	Standover	562	505
	Seat tube	305	305
	Head tube	95	95
	Eff top tube	419	419
	Reach	444	444
	Chainstays	355	355
	BB height	250	250
	Offset	42	42
	Trail	49	49
	Wheelbase	832	832
IN	Standover	22.1	19.9
	Seat tube	12.0	12.0
	Head tube	3.7	3.7
	Eff top tube	16.5	16.5
	Reach	17.5	17.5
	Chainstays	14.0	14.0
	BB height	9.8	9.8
	Offset	1.7	1.7
	Trail	1.9	1.9
	Wheelbase	32.8	32.8

Our Price: $ _____

Mt. Lion 30

Main tubes	Hi Tensile steel		
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	VP H732	22.2/30.0/27.0, 35.0mm stack	
Handlebars	BMX	22.2mm clamp diameter	
Stem	Trek Jaws BMX	22.2mm insertion	
Grips	Trek Paw Print		
Brakes	Coaster with CS VB888AK, direct pull rear		
Brake levers	CS VL-313D, right only		
Crankset	One-piece type, 36T	1 piece	
Bottom bracket	One-piece type		
Pedals	Platform	1/2" axle	
Cassette	19		
Chain	KMC 410	86 length, 1/8"	
Front hub	Steel		
Front rim	Steel	PVC rimstrip	
Front tire	Trek Paw	20 x 2.0	
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.	
Rear rim	Steel	PVC rimstrip	
Rear tire	Trek Paw	20 x 2.0	
Tubes	Schraeder valve		
Spokes	14G UCP	32 spoke 3x Front 189	32 spoke 3x Rear 185 rear (D/ND)
Saddle	Trek Paw design		
Seatpost	Steel	22.2mm diameter	
Seat binder	Alloy w/integral bolt	25.4 clamp diameter	
Additionals	Chainguard, kickstand, and pads		
Colors	Ice Royal Blue • Red/white/black decal (B) Ice Red • Black/yellow/white decal (B) Ice Pink • Purple/teal/black decal (G) Vivid Purple • Teal/purple/white decal (G)		

	36
19	38

28.6 lb.
12.98 kg.

Frame sizes		9.5B	9.5G
Handlebar width		550	550
Stem length		50	50
Stem angle		0	0
Crank length		140	140
Seatpost length		255	255
Steerer, mm		123	123
Fork length		320 mm axle-crown race	
Head angle		69.0	69.0
Seat angle		71.0	71.0
MM	Standover	507	467
	Seat tube	243	243
	Head tube	90	90
	Eff top tube	468	468
	Reach	50B	508
	Chainstays	372	372
	BB height	255	255
	Offset	27	27
	Trail	70	70
	Wheelbase	883	B33
IN	Standover	20.0	18.4
	Seat tube	9.6	9.6
	Head tube	3.5	3.5
	Eff top tube	18.4	18.4
	Reach	20.0	20.0
	Chainstays	14.6	14.6
	BB height	10.0	10.0
	Offset	1.1	1.1
	Trail	2.8	2.8
	Wheelbase	34.8	32.8

Mt. Cub 16

Our Price: $ _____

Main tubes	Hi Tensile steel		32 / 19 26
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	VP H732	22.2/30.0/27.0, 35.0mm stack	
Handlebars	Steel BMX, 130mm rise	22.2mm clamp diameter	
Stem	4 bolt BMX, alloy top	22.2mm insertion	
Grips	Trek Paw design		
Brakes	Coaster w/ Vanguard cantilever rear		
Brake levers	Vanguard, right only		
Crankset	One-piece type, 32T	1 piece	
Bottom bracket	One-piece type	24 TPI	25.3 lb. / 11.49 kg.
Pedals	Platform	1/2" axle	
Cassette	19		
Chain	KMC 410	74 length, 1/8"	
Front hub	Steel		
Front rim	Steel	PVC rimstrip	
Front tire	Trek Paw	16 x 2.125	
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.	
Rear rim	Steel	PVC rimstrip	
Rear tire	Trek Paw	16 x 2.125	
Tubes	Schraeder valve		
Spokes	14G UCP	28 spoke 3x Front	28 spoke 3x Rear
		138	133 rear (D/ND)
Saddle	Trek Paw design		
Seatpost	Steel	22.2mm diameter	
Seat binder	Bolt, M6 x 30		
Additionals	Training wheels, chainguard, and pads, streamers (girls' only)		
Colors	Ice Royal Blue • White/red/black decal (B)		
	Ice Red • Black/yellow/red decal (B)		
	Pretty Pink • Teal/pink/white decal (G)		
	Pure Purple • Teal/blue/white decal (G)		

Frame sizes		9B	9G
Handlebar width		510	510
Stem length		50	50
Stem angle		0	0
Crank length		114	114
Seatpost length		255	255
Steerer, mm		128	128
Fork length		254 mm axle-crown race	
Head angle		71.0	71.0
Seat angle		69.0	69.0
MM	Standover	435	410
	Seat tube	236	236
	Head tube	95	95
	Eff top tube	405	405
	Reach	446	446
	Chainstays	308	308
	BB height	211	211
	Offset	26	26
	Trail	41	41
	Wheelbase	734	734
IN	Standover	17.1	16.1
	Seat tube	9.3	9.3
	Head tube	3.7	3.7
	Eff top tube	15.9	15.9
	Reach	17.6	17.6
	Chainstays	12.1	12.1
	BB height	8.3	8.3
	Offset	1.0	1.0
	Trail	1.6	1.6
	Wheelbase	28.9	28.9

Our Price: $ _____

Mt. Cub 12

Main tubes	Hi Tensile steel		28 / 19 17
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	VP H732	22.2/30.0/27.0, 35.0mm stack	
Handlebars	BMX	22.2mm clamp diameter	
Stem	4 bolt BMX, alloy cap	22.2mm insertion	
Grips	Trek Paw design		
Brakes	Coaster rear		
Brake levers			
Crankset	One-piece type, 2BT	1 piece	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform	1/2" axle	
Cassette	19		
Chain	KMC 410	60 length, 1/8"	
Front hub	Steel		
Front rim	Steel	PVC rimstrip	20.9 lb. / 9.49 kg.
Front tire	Trek Paw	12 x 2.125	
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.	
Rear rim	Steel	PVC rimstrip	
Rear tire	Trek Paw	12 x 2.125	
Tubes	Schraeder valve		
Spokes	14G UCP	20 spoke 3x Front	20 spoke 3x Rear
		75	86 rear (D/ND)
Saddle	Trek Paw design		
Seatpost	Steel	22.2mm diameter	
Seat binder	Bolt, M6 x 30		
Additionals	Training wheels, chainguard, fenders, and pads, streamers (girls' only)		
Colors	Gloss Black • Green/blue/white decal (B)		
	Pretty Pink • Teal/pink/white decal (G)		

Frame sizes		8	8G
Handlebar width		480	480
Stem length		50	50
Stem angle		0	0
Crank length		89	89
Seatpost length		255	255
Steerer, mm		123	123
Fork length		207 mm axle-crown race	
Head angle		72.0	72.0
Seat angle		72.0	72.0
MM	Standover	396	396
	Seat tube	208	208
	Head tube	90	90
	Eff top tube	342	342
	Reach	384	3B4
	Chainstays	235	235
	BB height	172	172
	Offset	34	34
	Trail	13	13
	Wheelbase	609	609
IN	Standover	15.6	15.6
	Seat tube	8.2	8.2
	Head tube	3.5	3.5
	Eff top tube	13.5	13.5
	Reach	15.1	15.1
	Chainstays	9.3	9.3
	BB height	6.8	6.8
	Offset	1.3	1.3
	Trail	0.5	0.5
	Wheelbase	24.0	24.0