

RETAIL TECHNICAL MANUAL
1998



TREK[®]

AMERICAN BICYCLE  TECHNOLOGY

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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.

A Note About the Format...

Prior to each section of bicycles, we've listed some of the important things to remember in assembly and maintenance of these bikes. We've also tried to list some of the small parts not listed in the bicycle specifications pages.

YOU AND THE LAW

How do you defend yourself against the threat of a lawsuit?

Obviously, you need to do a thorough and careful job assembling and repairing bikes. We take pride in the quality workmanship offered by our Trek dealer network. That being a given, why would someone sue you? Most lawsuits involve at least one of these concepts: Failure to inform, and failure to document.

Failure to inform means that the plaintiff (the person suing you) claims they were never told that an activity could be injurious. Most common under this circumstance is accidents involving quick releases and toe clips or clipless pedals. But we have even been sued by a plaintiff claiming they did not know that riding too slow may cause them to fall.

How do you deflect these expensive complaints? Explain the mechanisms on every bike sold, and make sure that every sold bike includes ALL the literature provided. If you did a good job discussing the consumer's needs, you can also recommend the necessary accessories to help them safely enjoy their new bike, such as a helmet or lights.

OK. So you do a careful job in assembly. You tell the consumer how to use the bike safely. And you make sure they have everything they need to safely ride the bike.

IT'S STILL NOT ENOUGH!

In a court of law, you must prove that the bike was thoroughly assembled and that the consumer received the necessary safety information including the correct Owner's Manual, the correct fork manual, and any other consumer information we placed in the bike box and Owner's Bag.

To be effective, the proof that you gave the customer this information must be in writing. Using a bicycle check-out form for every sold bike is a good idea. Such forms state that the bike has been checked by a mechanic (with the date and their initials), that the bicycle's mechanisms have been explained by you (with date and initials) and understood by the consumer and that a manual has been received (with date and their signature). A nice service would be to take it one step further and fill out the customer's Owner's Manual page for them with serial number and your shop info, as well as helping the customer fill out their warranty card.

Next, you must prove that you do a thorough assembly on every bike. Does your shop have a written standard for assembly, detailing the work you do? Do your mechanics fill out paperwork detailing the work done, with date and signature? Is there a follow-up check on assembled bikes? If so, it too should be documented.

Our last advice may seem like common sense, but if you're going to lose a tag, Murphy's Law says that it will be the one you need. Make sure you have a reliable system for storing your documentation. If you can't find it, it's as good as not having filled it out.

Inform and document. These precautions may not keep you from being sued, but when the plaintiff's attorney sees that you can prove your side of the story, they will be much less likely to bring suit.

Warnings

When we produce our Owner's Manuals, a lot of thought goes into warning your customers of hazardous practices regarding their bikes. We hope you also read those manuals, but here's a few of the warnings to remind you:

- Read Chapter 1 now! It contains important safety information which you should read thoroughly before you ride your new bicycle.
- Before you ride your new bike, you should read this entire chapter. It includes safety, operational, and riding information that you should know before riding your new bicycle!
- Never allow your foot or toe clip to contact the front wheel when turning. This may cause loss of control resulting in personal injury.
- This is not a comprehensive maintenance program. Check the entire bicycle carefully. If you spot a problem, do not ride the bike until it has been corrected. If you are not certain if your bike has a problem, take your bike to your Trek dealer.
- If your brakes are not working properly, do not ride your bicycle. Refer to the Brake System section of Chapter 3 or take your bicycle to your Trek dealer for service.
- Some brakes, like direct-pull brakes or disc brakes, are extremely powerful. Initially practice using your brakes at slow speed. Overuse of any brake system can cause loss of control resulting in personal injury.
- Never touch disc brakes after hard use. The disc may be very hot.
- Failure to tighten wheel axle nuts, or have wheel quick release retention mechanisms properly adjusted and closed may cause loss of control resulting in personal injury. If you have any questions about the operation of this system, consult your Trek dealer.

- Be careful when riding at night.
- Your Trek is equipped with a full set of reflectors; keep them clean and in position. As useful as these reflectors are, remember that they do not help you see, nor do they help you be seen unless light is directed on them. Use a working headlight and a tail light when you ride at night. Also wear light, bright, and reflective clothing, especially at night, to make yourself more visible. The important thing is to see and be seen. A number of products will help you achieve this. If you do any amount of night riding, visit your Trek dealer to see what's available.
- Be careful when riding in wet conditions.
- No brakes, whatever their design, work as effectively in wet weather as they do in dry. Brakes, even when properly aligned, lubricated, and maintained, require greater lever pressure and longer stopping distances in wet weather. Anticipate the extra time it will take to stop. Also remember that wet weather causes reduced visibility (both for you and for motorists) and reduced traction. Use slower cornering when traction is reduced. Wet leaves and manhole covers are other wet weather hazards.
- Never modify your frameset in any way, including sanding, drilling, filing, or by any other technique. Such modifications will void your warranty, may cause your frame to fail, and may contribute to loss of control resulting in personal injury.
- Improper use of toe clips and straps may cause loss of control resulting in personal injury. If you are uncertain about the operation of this system, consult your Trek dealer.
- Improper use of the clipless pedaling foot-retention system may cause loss of control resulting in personal injury. If you are uncertain about the operation of this system, consult your Trek dealer.
- Loose bar ends, incorrectly positioned bar ends, or catching bar ends on objects may cause loss of control resulting in personal injury.
- If you are unsure of the safety of your handlebar system, do not ride the bicycle. Take the bicycle to your dealer for adjustments. Never ride your bicycle with the stem raised above the minimum insertion mark (sometimes called the maximum height mark, see Fig. 28) as this may cause loss of control resulting in personal injury or damage to your bicycle. A minimum of 2 3/4 inches (70mm) of the stem must always remain in the frame.
- Make sure that the minimum insertion mark, also called the maximum height mark (Fig. 31) remains inside the frame. A minimum of 2 1/2 inches (64mm) of seatpost must remain in the frame. Riding with the seat raised above this height may cause loss of control resulting in personal injury or damage to your bicycle.
- Riding a bicycle with an improperly adjusted headset can cause loss of control resulting in personal injury.
- If you are not certain your brakes are working properly, or you suspect a problem with your brake cables or hose, do not ride your bicycle. Refer to the instructions in the appropriate section of this manual or take the bicycle to your Trek dealer for service.
- If there is movement between the axle and the hub, or you suspect the hub may need an adjustment, do not ride your bicycle. Take your bicycle to your Trek dealer for service.
- Failure to keep suspension bolts tight, or to maintain adequate clearances between tire and fork crown or straddlewire carrier and brake cable housing stop may cause loss of control resulting in personal injury.
- The cooling fin and hub shell of the Shimano Inter-M roller brake can get very hot and could cause burns. Do not touch the hub for at least 30 minutes after braking.
- Never modify your frameset or bicycle components in any way, including sanding, drilling, filing, or by any other technique. Do not attempt to remove the PAS cover or disassemble the PAS drive system. If a problem occurs, consult your Trek dealer. Such modifications will void your warranty, may cause your bicycle to fail, and may contribute to loss of control resulting in personal injury.
- Do not operate the PAS main switch while in motion. If you forget to turn on the main switch prior to riding, stop the bicycle before activating the switch.
- Turn the PAS off when roadways are slick. The added torque of the PAS can cause the rear wheel to lose traction which may cause loss of control resulting in personal injury.
- Never attempt to modify or disassemble the PAS. If you think the system has malfunctioned, stop riding the PAS immediately and refer to the Troubleshooting section to try and determine the problem. If the problem is still not corrected, take the ElecTrek™ to your Trek dealer.
- Make sure the rim strip covers all of the spoke holes or spoke heads. A punctured inner tube may cause loss of control resulting in personal injury.

ASSEMBLY INFORMATION

Factory Assembly Standards

Trek bikes are manufactured and assembled with a very high level of attention to detail. Many considerations are given to every aspect of the bike, from value to the consumer to assembly ease for the dealer. Although most of the questions we run into have straight forward, common sense answers, they may not all be immediately clear. Here, we detail some of the assembly considerations of Trek bikes from the factory.

Parts Installation Specifications

On the assembly line, most of the parts are installed using torque calibrated air tools. This ensures that critical parts are installed correctly. The torque specs we follow are listed on page 8, although there are a few exceptions which we detail here:

- Front derailleur- To prevent damage of the paint on the seat tube, front derailleurs are installed at about 20 lb•in, much below their correct torque. After final adjustment, they should be tightened to Shimano's spec.
- Headset nut- Since stem insertion will effect the headset adjustment, we do not set the bearing adjustment of the headset, nor do we tighten the headset locknut past 10 lb•in.
- Handlebar clamp bolt- The position of the handlebars varies according to preference, so these bolts are only tightened enough to hold them during shipping.

Although we intend to have all other fasteners correctly tightened, bikes get a variety of treatment after leaving the factory which can effect the work we've done. Bolts can be shaken loose and wheels can be knocked out of true. For this reason, we expect that your assembly procedures will include checking to ensure that ALL fasteners on the bike are tight. We also expect our dealers to assemble and adjust Trek bikes to a very high standard. After all, we both want everyone riding a Trek to be safe and happy with their new bike!

Wheel Processes and Overall Quality Improvements

Each year we strive to improve the quality of bikes delivered to you. An important part of the bike which we've really worked hard on is the wheels. To address your needs we have done the following:

- Waterloo wheels are 100% DT spokes
- Waterloo wheels are 100% Velox rim tape equipped
- New wheel packaging
- New build processes, including:
Uniform thread lubrication
Control of tolerances at lacer
Redesigned wheel stressors (we use 2 at different stages of the build, and each is used twice)
- Results
35% improvement in spoke tension consistency
75% improvement in lowest tension in wheel

Wheel Specifications: We use computer controlled wheel lacing machines which assemble a wheel off the programmed information for spoke length, hub characteristics, and rim dimensions. After lacing, each wheel is stress relieved on a pneumatic press, and then goes through one of our 7 Holland Mechanics wheel truing robots. These machines use a computer program and light sensors to true, dish, and tension the wheels. The machines can be programmed to set their limits of accuracy, which is determined by the number of times the robot goes around the wheel. We use 3 rounds per wheel, about the highest degree of accuracy in the industry. When the wheel exits the robot, it gets stress relieved one more time, and then hand checked for true on a vellum. A vellum is a hypersensitive wheel stand, using dial indicators to show run out of both true and round. Our standard for each is .7mm total runout. In addition, we also randomly check wheels for overall tension with hand tensionometers which are re-calibrated each day for accuracy.

Triple Clamp, Dual Crown Forks

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 Trek other than the '98 dual suspension frames.

Direct Pull Brake Levers

Direct-pull brakes (Shimano calls theirs 'V' brakes) have increased leverage and stopping power, so only use levers recognized as compatible with these brakes.

Since these brakes supply what may be a greater than expected braking force, it's important to educate your customer regarding direct-pull brakes. Riders should practice use of direct-pull brakes at a slow speed to learn their operation. This is particularly important with bikes having a high center of gravity or narrow tires. If direct-pull brake levers offer adjustable braking force, read and follow the manufacturer's instructions supplied with the bike before making any such adjustment.

Shimano Rapid Rise Shifting

For 1998, Shimano has introduced two new rear derailleurs, with accompanying shifters, which are a departure from their RapidFire shift systems of the past. Called Rapid Rise, these new derailleurs have several distinct features not found on other rear derailleurs.

First, the rear derailleur works in reverse of older models; that is, pulling cable makes the derailleur move to smaller cogs (higher gears). This allows a powerful downshift action for fast accelerations. Second, shifts to larger cogs are made by spring tension, so shifts into a lower gear are smooth and predictable. The two models receiving this new design are the new Shimano XTR (M951) and the Shimano NEXAVE. While this design works best when coupled with the new shifters, the Rapid Rise design is compatible with non-Rapid Rise shifters. The difference is the shifters work backwards (the thumb shifts to smaller cogs/higher gears, and the finger shifts to larger cogs/lower gears). On Rapid Rise shifters, this is intentional. On older shifter designs, the shifting works in the same fashion, so the only real drawback is that any optical indicators will work backwards.

This enhanced shifting action allows another benefit: while coasting, a rider can 'pre-select' a gear so that when they resume pedaling, the bike shifts smoothly and quickly into the chosen gear. This is especially beneficial when shifting in changing terrain, where it's not always possible to keep the cranks spinning but the rider knows they will need to be in another gear when they resume their pedaling.

Last, the rear derailleur uses a roller device to reduce friction at the rear derailleur. This allows (requires) a much shorter rear derailleur housing, and the result is much lower cable friction and snappier shifts.

SP40

On all Waterloo built bikes, we use SP40 shift cable housing. The smaller diameter allows the housing to be more flexible, so it affects steering less, as well as reducing friction. SP40 housing comes with a choice of endcaps, either sealed or not. All ours are sealed, so lubricating the cables requires grease to be inserted into the housing (grease on the cables will be mostly wiped off as you insert a cable though the seal). We have taken the time to grease this housing, but you must install it correctly or you will only push the grease out of the housing.

To correctly install the housing, notice the end caps. If one end cap has more rings than the other, this indicates the end of the housing which had grease inserted. Thread the cable through the end cap with the most rings first. If the end caps have the same number of rings, look for the Shimano label on the housing. Insert the cable into the end of the housing with the Shimano label.

On LX and higher level shifters, Shimano includes a shift housing bootie. When properly fitted to a special housing end cap (with a protruding plastic tube we refer to as a 'snout') the bootie seals the upper end of the cable from water penetration which could degrade rear derailleur shifting performance. To properly utilize this feature, prior to inserting the rear derailleur cable into the piece of housing leading into the derailleur itself, slide the bootie onto the cable with its smaller diameter end pointing towards the shifter. Then insert the cable into the 'snout' end cap and thread through the derailleur as normal. The snout should protrude through the seatstay housing stop and protrude about 5-8mm. Slide the bootie down over the snout and Voila! you have sealed this area from water penetration.

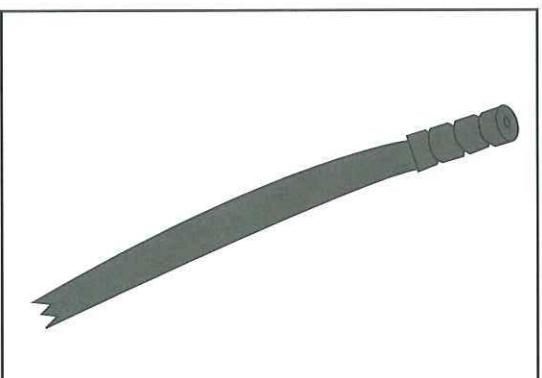


Fig. 1

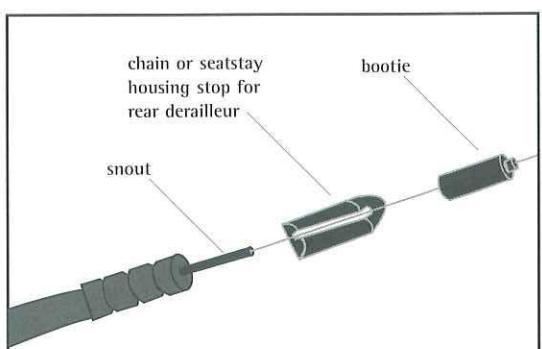


Fig. 2

SRAM Worm Bootie

For 98, GripShift has designed a sophisticated piece which does the same thing as the Shimano bootie, but without adding cable friction. It comes with instructions for installation.

MISC. PARTS INFO

Reflectors

Check that front and rear reflectors are oriented so that their reflective surfaces are perpendicular to the ground, and that all reflective surfaces are clean and in good condition. The front reflector should point directly forward, and the rear should point directly back. The rear reflector should be at least three inches below the top of the seat.

Rolf Wheels

Rolf wheels set a new standard in wheel performance with patented Paired Spoke Design technology. Paired Spoke Design Rolf Wheels are light, fast, and rock solid. Rolf Wheels solve all of the problems associated with conventional low spoke count wheels:

- Inherent radial and lateral rim deviations
- Truing difficulties
- Shorter rim and spoke fatigue life
- Performance robbing weight increases

The key is the patented Rolf Paired Spoke Technology. Lateral force at the rim, generated by the spokes, is perfectly balanced. This has many effects. As the wheel turns with a rider on the bike, the rider's weight presses down on the rim, and in turn, the ground presses the rim up toward the hub. As this happens with a conventional low spoke count wheel, each spoke goes through a cycle of tightening and loosening. This cycle of stress and release may create spoke fatigue which can eventually lead to spoke or even rim failure. With Rolf wheels, the spokes are much more highly tensioned, and they're in pairs. Since the spokes are more highly tensioned, they lose less tension as they are released. They also share the load, effectively cutting it in half, so spokes last much longer.

With a good quality wheelset, spoke fatigue takes a while to occur. But another effect that happens all the time with conventional low spoke count wheels is that as each spoke has its tension released at the bottom of the wheel, it allows the rim to move slightly out of true, so the wheel does not track straight. With Paired Spoke Technology, this does not happen because the pairs of spokes do not exert unbalanced force on the rim. With Rolf Wheels, the bike handles better and goes faster.

Still another effect of the cycling of spoke loads is that of nipples loosening and the resultant loss of true. Rolf wheels attack this problem in 3 ways. First, Paired Spoke Technology allows a higher spoke tension because the rim does not see unbalanced lateral forces. With conventional low spoke count wheels, over tensioning can cause rim failure. Paired Spoke Technology keeps the spokes from being loosened as much as conventional spokes. And, Rolf wheels use a custom alloy spoke nipple with a nylon insert to prevent loosening.

Last, why the funny looking rear hub? Rolf wheels use special hubs which support the spoke elbow better. Better spoke elbow support means longer spoke life. But the real key to the hub is torque transmission to the non-drive side spokes. With a conventional hub, all torque is transmitted solely through the drive side flange. That's why many of the low spoke count wheels use radially laced spokes on the left side. But let's do a spoke count. If only the drive side spokes transmit torque, and only half those spokes are pulling, then only 1/4 of the spokes in a conventional rear wheel carry all the torque loads for the wheel. For a 32 spoke wheel, that's just 8 spokes. You can do the math on those other low spoke count wheels. But on Rolf wheels, torque is transmitted through both the left and right flanges, so 1/2 the spokes carry the torque. In other words, a 16 spoke Rolf rear wheel has as many spokes transmitting torque as a 32 spoke conventional wheel. And each of those Rolf wheel spokes is paired so there is no lateral rim deflection and the Rolf wheels are more efficient!

Paired Spoke Design technology allows a higher spoke tension because the rim does not see the unbalanced lateral forces found with alternating spoking patterns. For Rolf wheels, spokes should be tensioned as follows:

Front- 175 to 210 lbs. Rear, Drive side- 340-410 lbs. Non-drive side- sufficient to center or dish the rim

This tension is greater than most tensionometers can accurately measure. The next best way to determine correct tension is to listen to the tone of the spoke when you pluck it, and compare it to that of a factory tensioned wheel.

Rolf spokes are bladed 13 gauge so are much stronger than conventional spokes. Rolf wheels also use special self-locking alloy nipples for low weight and resistance to unthreading. Rolf nipples require a 3/16" nut driver or socket-type spoke wrench which will fit through the access holes in the rim.

While Rolf wheels do require some special parts don't try drilling your own rims or substituting weaker conventional spokes.

Rolf Part	Part Number
Rolf self-locking aluminum nipples w/washers	983798
DT 13g bladed spoke, 287mm	984511
DT 13g bladed spoke, 289mm	984512
Rolf 14° rim	983800
Rolf 16° rim	983801
Front Rolf/Hugi hub	984179
Rear Rolf/Hugi hub, Shimano 8/9spd cassette	984180

A WORD ABOUT TORQUE

These torque specifications are listed to help you determine the correct tightness of parts and their threaded fasteners. More than anything, these should be used to make sure you do not over tighten the fasteners. Over torqueing a fastener does not provide extra holding power and may actually lead to damage or failure of a part. Over tightening bar ends can crush a handlebar, or over tightening a stem expansion bolt can bulge the fork's steerer. Usually, these parts would have been safely tightened at a much lower torque. In other words, once a part is tight enough to stay tight and be safe, it rarely does any good to tighten the part any further.

We offer a range of torque specifications for several reasons. First, most torque wrenches have widely spaced increments, i.e. 25 lb-in or even 50. Second, there is a margin of error since few torque wrenches are ever recalibrated. Third, the required torque to safely attach a part varies by its manufacturing tolerances. In other words, different stems in different bikes may require different torques to achieve the same clamping force due to slight differences in diameters or surface finish. A further consideration is that a well designed clamp will correctly attach a part at a lower torque than a poorly designed clamp. For this reason we have included some torque specs which are specific to certain parts. Please be aware of these special torques.

In many cases, a lower torque value than listed may adequately tighten the part for normal function and safety. Other than torque specs, how do you determine if a part is adequately tight? Most parts have simple function tests you should perform. As an example, to test if a stem is adequately tightened to the fork, place the front wheel between your knees and try to rotate the stem by pulling on the handlebars. While this test is somewhat subjective, it places a much greater force on the system than is required of the stem clamping force in normal riding.

TORQUE SPECIFICATIONS

Item		LB-IN	Nm
Handlebars	Handlebar clamp bolt, forged stem	150-180	17-20.3
	Handlebar clamp bolt, welded stem	100-120	11.3-13.6
	Stem expander wedge bolt	175-260	19.8-29.4
	Direct connect steerer clamp bolt		
	External pinch type	100-120	11.3-13.6
	Icon stem with external pinch bolts	70-90	7.9-10.1
	Steel stem with hidden steerer clamp bolt	150-180	17-20.3
	Aluminum stem with hidden steerer clamp bolt	172-215	19.4-24.3
	Bar end attaching bolts	85-125	9.8-14.1
	ICON Carbon handlebars	50-90	5.7-10.1
Seats	Seat attaching bolt, single bolt	150-250	17-28.3
	Seat attaching bolt, double bolt w/5mm allen wrench	80-125	9.6-14.1
	Seat attaching bolt, double bolt w/4mm allen wrench	45-60	5-6.8
	Seat post binder bolt	150-180	17-20.3
Crank	Crank arm bolt	305-435	35-50
	Chainring bolt	50-70	5.7-7.9
	Pedal attachment	350-380	40.2-42.9
	Shimano cartridge fixed cup	435-608	50-70
Wheels	Wheel axle nuts	130-210	14.7-23.7
	Shimano cassette lockring	261-434	30-50
Derailleurs/Shifters	Front derailleur clamp bolt	40-60	4.5-6.8
	Rear derailleur attaching bolt	70-85	7.9-9.6
	Front and rear derailleur cable clamp bolt	35-52	3.5-5.9
	Shifter clamp bolt	44	5
	Combination shift/brake lever attaching bolt	53-69	6-8
	GripShift clamp bolt	25	2.8
Brakes	Brake lever attaching bolt, standard	44	5
	Brake lever attaching bolt, Hayes hydraulic	25-35	2.8-4
	Combination shift/brake lever attaching bolt	53-69	6-8
	Brake caliper attaching bolt	69-87	8-10
	Cantilever or direct pull brake attaching bolt	40-60	4.5-6.8
	Caliper brake pad attaching bolt	43-61	5-7
	Cantilever or direct pull brake pad attaching nut	70-80	7.9-9
	Brake cable clamping bolt	50-70	5.7-7.9
	Rotor attachment bolt	45-55	5-6.2
	Hayes caliper attachment bolt	60	6.8
Frame Attachments	Water bottle attaching bolt	20-25	2.3-2.8
	Derailleur hanger attachment bolt	50-70	5.7-7.9
Ys	Shock mount and plate mounting bolts	133-164	15.1-18.5
	Pivot bolts	100-110	11.3-12.4
Suspension Forks	Brake boss	60	6.8
	RockShox triple clamp fork crown pinch bolts	60	6.8
	Manitou triple clamp fork crown pinch bolts	70-80	7.9-9
Suspension Stems	Flexstem axle bolt	65-75	7.3-8.5

THREADED FASTENER PREP

Modern bicycle mechanics often requires the use of thread prepping agents or thread bonding agents. Used properly, these agents are well suited for the applications where we use them. Used improperly, they can provide poor performance or more serious problems.

LocTite Applications

We use LocTite, or similar product, in a variety of applications in fabrication and assembly of Trek bikes and components on those bikes. Here's a partial list, and the recommended LocTite product:

Suspension forks	Crown pinch bolts	242 Blue
	Brake arch bolts	242 Blue
	Cantilever studs	242 Blue
Rear suspension	Pivot axle bolt, left	290 Green
	Pivot axle bolt, right	242 Blue
	Pivot bushings, frame/swingarm	290 Green
	Shock mount bolts	242 Blue

Applying LocTite

First, use LocTite carefully. Follow the instructions on the package, avoiding contact with your skin, or inhaling the vapors. As noted on the package, LocTite contains a known carcinogen.

For LocTite to work correctly, the parts must be clean and dry, with no grease, oil, or dirt. LocTite Klean 'N Prime is an excellent cleaner and will reduce fixture time.

With blue 242 LocTite, apply to the threads prior to assembly. It will set up in 20 minutes, with full cure taking 24 hours. With green 290 LocTite, application is recommended after assembly. However, this can be impractical with hidden threads, like on the rear suspension pivot bolts, or when using as a fixing agent for Trek bottom brackets or rear suspension bushings. 290 is set in 3 minutes, and again requires 24 hours for a full cure. Please do not confuse LocTite 290 with LocTite 640, which is also green, as 640 can make disassembly much more difficult.

Highly Recommended Grease Applications

Most threaded fasteners will benefit from the application of a light grease-type lubricant. This prevents corrosion and galling, as well as allowing a tighter fit with a given torque. For this reason, it's a good idea to lubricate almost all threaded fasteners. But some fasteners and parts interfaces really need grease. Here are a few:

- Seatpost/seat tube interface - Grease the seatpost where it inserts into the frame on all aluminum and steel frames.
- Bottom bracket threads - We recommend applying grease to all bottom bracket/frame interfaces, as well as the bearing/cup interfaces. This prevents corrosion and will virtually eliminate creaks, a common complaint among riders with cartridge bottom brackets.
- Stem/steerer interface - Grease the quill of conventional stems where they insert into the fork. With Aheadset type stems, a light oil is recommended, as grease may make it difficult to properly secure this type of stem to the steerer.
- Stem/handlebar/bar end pinch bolts - Any and all of these fasteners are small, so corrosion or galling can really cause problems. Its also critically important to the riders safety that they be correctly tightened. Grease both the threads, as well as the bearing surface of the fasteners which rotate against the fixed part.

Places to Avoid Grease

- With OCLV Mountain, Y, and Road bikes DO NOT grease the seatpost. A fiberglass sleeve bonded into the seat tube prevents corrosion, and any grease may cause the seatpost to slip, even with correct seatpost binder torque.
- Bottom bracket axle/crank arm interface - Avoid greasing the tapered spindle of a bottom bracket, as this may allow the crank arm to insert an incorrect distance onto the bottom bracket spindle. This can cause crank arm clearance problems with the frame, or incorrect chainline with the specified components. A light oil will adequately prevent any unwanted corrosion in most cases.

DISC BRAKES

Disc brakes offer several advantages over a conventional rim brake (technically a disc also, but without some of these advantages). First, a disc is further from the debris of the trail, whether its water or mud on the rim, or dings in the rim from hitting rocks; the disc brake works on a better medium for good, smooth control.

Although a disc brake pad can wear, it's a very hard material and wears parallel to the brake surface. Pad adjustment is not necessary, nor is their replacement as frequent. When pads do need replacement, you just pop them into a spring clip which can often be accomplished without tools. No alignment is necessary unless the caliper, or brake body, is out of adjustment.

Third, although a really hot rotor can burn your hands (remember this, and be sure to warn your customers!), the resulting heat will not add inflation pressure to your front tire like a hot rim does.

Hayes offers a combination of benefits not found on other disc systems.

- Hayes uses only hydraulic pressure to activate the pads so actuation is immediate and positive. A cable stretches and housing compresses, diminishing the pressure applied to the rotor. Since the Hayes is fully hydraulic, there is no loss of energy and stopping power is always 100%.
- Hayes brakes use a dual piston design, where two separate pistons approach the rotor from opposite sides. Some systems use a single piston to push the rotor against a fixed surface. This obviously requires that the rotor be flexed. In addition, with Hayes brakes, both pistons retract fully from the rotor so there is no brake drag.
- Hayes uses a stainless steel rotor and inorganic brake pads. The rotor is a patented design to prevent warping under hard braking loads or heat.
- Hayes uses an Open System, where the hydraulic fluid volume is readjusted with each brake application. This has several benefits; the pads self adjust for clearance over the rotor, brake actuation is always exactly the same, brake pad clearance is not effected by heat, and you get predictable performance every time you apply the brake.

Because a disc brake puts a rotating torque on the fork tip and the front wheel attachment, it's highly recommended that only high force, heavy duty quick releases be used. And you already know that such a quick release adds to steering precision by reducing independent leg action on a suspension fork.

So how do you adjust a brake where the pads need no adjustment? Follow these tips:

- Never squeeze the lever with the rotor out of the caliper. If you should do so, the pads will only retract to their normal clearance (but as if the rotor was between them, which it is not). To fix this, slip the pads out of their clips. Just grab the little 'fin'ger' with some pliers and pull. They should come right out. Use a 12mm closed end wrench to push the pistons as far back into the calipers as possible. Reinsert the brake pads. The rotor should now fit easily between the pads.
- When installing a Hayes brake with an adapter (like with RockShox forks) make sure the brake pads fully engage the rotor. The adapter is not symmetric, so it is possible to install the brake so that the pads do not fully engage, reducing braking power.
- After installing the wheel fully, squeeze the brake lever a dozen times to set the hydraulic pressure and pad clearance over the rotor. Spin the wheel. If the pads rub, the caliper needs to be realigned. To do this, loosen the caliper attachment bolts. While firmly squeezing the lever, retighten the bolts. Spin the wheel to test the adjustment.
- Take care to avoid damaging hydraulic lines. Do not pinch or squeeze them. Crimps will decrease the volume of the hose, increasing pressure which will probably mean unavoidable pad drag on the rotor. To remedy this, a new hydraulic line must be installed. Replacing hydraulic hose goes beyond the scope of this manual. Please refer to the Hayes manual for further instructions.
- Avoid getting hydraulic fluid on any finished part, like painted frames, anodized finishes, or carbon fiber composite. Hydraulic fluid can mar the finish or degrade the strength of some materials. It's also not something you want on your skin. If you get hydraulic fluid on your skin, wash immediately with soap and water. Don't drink it. And, as when performing any procedure in the shop, you should always wear safety glasses.
- Do not attempt to modify the brakes by letting air into the system, or by any other means. Always follow the procedures outlined by Hayes when performing any service to Hayes brakes.

Part Number	Part Number
Left brake lever and brake caliper, 61 cm length	981766 Right brake lever and brake caliper, 116 cm length
Left brake lever and brake caliper, 69 cm length	982974 Right brake lever and brake caliper, 122 cm length
Left brake lever and brake caliper, 75 cm length	982975 Right brake lever and brake caliper, 135 cm length
Boxxer adapter	983820 Judy/SID adapter
6.3" rotor	981770 8" downhill rotor
Brake/adapter mounting bolts, pair	981771 Rotor mounting bolts, qty 6
Front line clip	981773 Rear line clip, qty 3
Canti hole screw, fork, pair	983822 Canti hole cap, rear, pair
Front Hugi hub, 32°, for 6mm quick release	981767 Front Hayes/Hugi hub, 32°, for 20mm through axle
20mm through axle	982973 Front Hayes hub, 32°, for 6mm quick release
Rear Hayes/Hugi hub, 32°, for 5mm quick release	982980 Front Hayes hub, 32°, for 6mm quick release

Inflate Air Shocks

To provide the best service to you, we design all our bike boxes (except tandems) to be shippable via UPS. Large size Y bikes will not fit into a UPS sized box without deflating the rear shock. Before assembly, inflate rear shocks to an air pressure appropriate for the intended user.

Seatposts

Aluminum Y bikes require greasing of the seatposts. However, with OCLV Y bikes, like their Mountain and Road counterparts, DO NOT grease the seatpost. A fiberglass sleeve bonded into the seat tube prevents corrosion, and any grease may cause the seatpost to slip, even with correct seatpost binder torque.

Y 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.

A minimum length of seatpost must be inserted in the frame. The seatpost may be raised to this point without damaging the frame. For seat post binder bolts, tighten to 85-125 lb•in (9.6-14.1 Nm).

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.

Special Torque Specs

Shock mounting bolts	LokTite 242	133-164 lb•in	15.1-18.5 Nm
Pivot bolt (fixed side)	LokTite 290	100-110 lb•in	11.3-12.4 Nm
Pivot bolt (removable side)	LokTite 242	100-110 lb•in	11.3-12.4 Nm
Derailleur hanger screws	LokTite 242	20-30 lb•in	2.3-3.4 Nm

Special Parts

Pivot axle assembly: Pivot axle, 2 bolts, 2 washers	Part #
Pivot bearing set: Main cylinder bearing, 2 swingarm topshuts	64304
Shock mount bolt set, Cro-Moly rear - Front bolt, rear bolt, 2 nuts	64305
Shock mount bolt set, aluminum rear - 1 front bolt, 3 rear bolts, 4 nuts	982253
Shock mount plates, pair, standard length	981977
Shock mount plates, pair, for 100+mm fork travel	981972
Derailleur hanger kit- Derailleur hanger, screw	981973
Rear shock mount cable guide	980116
135° pipe,for rear direct pull brake on aluminum Ys	982260
	970343

Top Swing Front Derailleurs

When Shimano instituted the Top Swing front derailleur with its lowered band clamp, we had to redesign our bike rear triangle to accommodate it. Due to space constraints, the new rear triangle will not work with older, high band clamp front derailleurs.

Bottom Bracket

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.

Replacing Pivot Bearings

Pivot bearings are held in place by the pivot assembly, but also with LokTite 290. To remove the bearings, after removing the axle, drive them out with an appropriate punch (the right sized socket works great). Clean and prep the surfaces of the frame and new bearings with LokTite primer, being careful not to expose the bearing material or painted surfaces to the primer. LokTite Primer will damage the paint or remove lubrication in the bearing. Apply the LokTite, wipe off any excess after installing the bearings, and assemble the pivot. Allow to cure for 24 hours before riding.

Disc Brake Adapters

Some suspension forks, like RockShox, require an adapter to mount the Hayes disc brake. Note that the adapter is not symmetric. In other words, make sure you have installed the adapter so that the pads fully contact the rotor. If you install the adapter incorrectly, only part of the pads will contact the rotor and braking force will be less than it should be.

Y BIKES

New Y aluminum swingarms

The new Y aluminum swingarm features an adjustable shock system. The Ys with aluminum rear triangles all come with the standard shock mounting plates. These plates are asymmetric so that if removed and turned over, the shock compression ratio and leverage ratio can be changed to make the rear shock function slightly different (about a 10% change). When installing the plates, hand tighten all the bolts before torquing them to spec.

In addition to the tunability of the compression ratio, another plate set is available. These are made to correct the Y Glide steering geometry when a longer fork is used; one with a longer axle to crown race dimension. They can also be used to allow a rider to ride something other than our 6.5" eye to eye rear shock length without altering the steering geometry. Without these plates, when a long fork or rear shock is installed in a Y, the head angle will vary and the sweet steering will be degraded.

Right hand cable routing

The new aluminum Ys use a right hand cable routing. For this reason, a 135° pipe is recommended for rear V or other direct pull brakes. Because the new cable routing is on the right, and the new shock mount hardware is lighter, a new rear cable guide clip has been designed for the smaller diameter bolt.

Rear shock mount cable guide
135° pipe, for rear direct pull brake

982260
970343

New replaceable derailleuer hanger

Aluminum swingarms feature a new, stiffer replaceable derailleuer hanger. Our tests show this hanger to be stiffer than some non-replaceable forged alloy hangers. A stiff hanger increases shifting accuracy, and the extra strength means less chance that it should need to be replaced in the first place. To keep things simple, this same hanger is used on the Trek hardtails.

Derailleuer hanger kit - Derailleuer hanger, screw and nut 980116

Seatpost water bottle mounts

We equip all the Y Bikes and Y Glides with a special seatpost water bottle attaching kit. This kit includes two aluminum clamps which fit 27.2mm diameter seatposts, two bottle cage mounting screws, and two longer screws to tighten the clamps.

Like any threading into aluminum, we recommend greasing the threads, and avoid over tightening. On small size frames, adjust the bottle cage height so that the rear wheel cannot hit the bottle or cage under full compression of the suspension.

The Benefit of Suspension

Suspension helps you transmit your pedal power more efficiently. With good suspension, a rider can pedal over obstacles that would otherwise suck up the rider's energy by making them stand. Because suspension smoothes the terrain (as felt at the handlebars, saddle and pedals), you can stay seated and apply full pedal power over rough terrain, without interrupting your pedal stroke. Suspension lets the rider's body follow a smoother path (than the bumpy path followed by the wheels), and this lets the rider maintain normal pedaling over rough terrain. Both add efficiency. By being more efficient, the rider uses less energy, and they can go farther or faster with the same effort.

Suspension lets the wheels follow the terrain better, so the tires maintain better traction. With better traction and a smoother path, the rider does not have to use as much muscle energy to stay in control of the bike. With better control you can ride over things that might otherwise make you go boom and get too close to nature.

The benefits of good suspension help a rider in virtually any off-road situation. Downhill or uphill, good suspension helps a rider tame the terrain and adds to their efficiency. With benefits like this, suspension is something you want full time. If the suspension is working full time, its Fully Active.

What is Active?

A lot of noise is made about suspension systems being active, or inactive. Claims are made, and opinions based on such claims without making clear what they really mean when they say 'active'. But using the following definition of the word, many of the claims made are false. This definition of 'Active':

An Active suspension is not affected by pedaling, either activated or deactivated, at any time.

In other words, if at any time the chain tension can compress the rear shock (activating the suspension) or extend the rear shock (deactivating the suspension), then the system can NOT be active. Some suspension systems are active in certain gear combinations, but not others. To be called active by this definition, it must always be active and not be gearing dependent. In other words, a bike is either active, or it's not. Active suspension is a full-time trait, so a bike cannot be 'partly active'. And if it's Active, it's also Fully Active (they are the same by this definition).

Another instance of an inactive suspension is one that is effectively locked out through the rider's body weight, in any position. So if the suspension cannot move due to the rider's weight, the system is not active.

The last instance of inactive suspension is an option we offer on the Y22 and Y33. Should you choose, you can lockout the rear shock with the handlebar mounted control. But in this case, you're not limited by the suspension design, you choose if you want Active or Inactive.

Evaluating Suspension Designs

Weight

With any suspension system, it's a given that the suspension is going to add weight and complexity to a bike. For this reason, if there isn't much travel, it's not a worthwhile trade-off. Rear suspension should offer at least as much travel as the average shock seat-post, say 2 to 3 inches.

Travel

As long as weight is kept to a minimum, more travel is generally desirable in a suspension design. If it works right, additional travel will let you ride over bigger obstacles. But because additional travel can show flaws in a design, many suspension systems limit travel. Even the Trek Y3 has 4" of travel, matching what some companies refer to in 1998 as "long travel."

Shocks

When evaluating a suspension system to see if it's Active or not, this refers to the frame design. Another important part of the suspension system is the shock. Different shocks have different spring rates, damping curves, and other performance differences (spring materials, durability, etc.). A really good suspension system (like our Y bike) can use a variety of shocks and still feel good.

The spring stores energy from hitting a bump, then gives it back. Different springs and spring materials, do this somewhat differently and effect how the suspension feels. Damping effects the suspension by slowing down the spring, actually managing that energy. But some suspension systems use excessive damping to try to manage energy from another source, namely the rider.

The bench test

Some systems have used both limited travel and excess damping to cover up their inadequacies. If the suspension doesn't move a lot, or moves slow, it's hard to tell if it's active or inactive when riding. To understand what a suspension system is doing, it sometimes helps to put the bike on a workstand and remove the shock. Then you can see what pedaling does, what the total travel might be, and how the different parts interact under loads.

EVALUATING SUSPENSION SYSTEMS

How can you tell if a suspension system is fully active?

Look at how the chain tension will effect the motion of the swingarm. If the chain pulls at an angle to the pivots, it will effect the suspension motion and make it inactive.

Even if its a linkage or a strut type design?

Don't pay too much attention to other parts of the rear suspension. Whether it's a 'strut' design, multiple linkages, whether the shock is oriented horizontally or vertically, whether it's coil/over or air sprung, it's the pivot location that determines whether a system is active or inactive.

You mean those other things don't effect the suspension?

Linkages, struts, and parallelograms allow a suspension designer to alter shock compression ratios or to tweak other characteristics, but the main pivot location and the chain angle are the only things that dictate the chain's effect on the rear wheel travel. Given that we're all riding multiple geared bikes, the single feature which separates different suspension designs is the location of the main pivot.

So the pivot location is everything?

If the pivot is located so that the upper chain run lies above the pivot, and at an angle (Figs. 1 and 2), the chain will do two things; it will pull the rear wheel toward the seat, and it will resist the motion of the wheel returning to its normal position during rebound. In high gear, you'll see this effect would be stronger with this particular design.

Why don't you always feel this?

How much you feel the suspension when pedaling will depend on the amount of travel, the amount of damping, the exact pivot placement, and the gear you choose.

What about pivots above the big chainring?

Figure 3 shows a high pivot suspension design. In this case, chain tension will pull the rear wheel downward, and resist wheel movement when a bump is encountered.

But if the pivot is in line with the chain, then it's active?

Some designs attempt to counter the effect of the chain by placing the pivot exactly in line with the chain at the top of one of the chainrings. While this may allow full activity in a particular gear combination, shifting to another gear will make the suspension less active. And by definition, there is no such thing as 'partially active.'

So what designs are Active?

Figure 4 shows a Unified Rear Triangle (also sometimes called a Floating Drivetrain) which has no pivot between the bottom bracket and the rear wheel. Because these two structures are rigidly connected, chain tension cannot pull them together or apart. Regardless of what gear you are in, the suspension always works the same.

So all URTs are Active?

No. It depends on where you place the pivot.

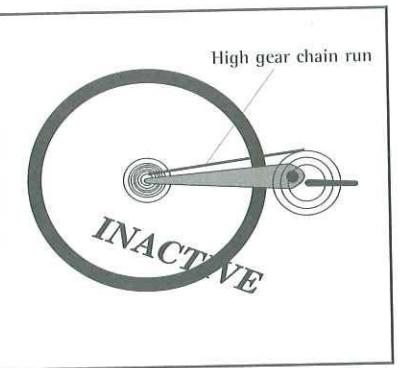


Fig. 3

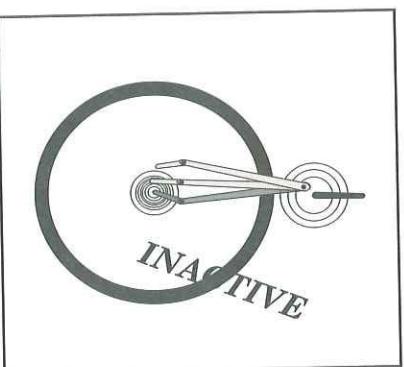


Fig. 4

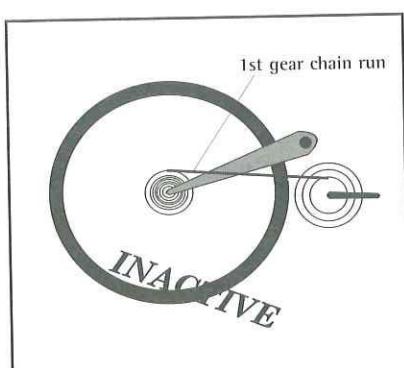


Fig. 5

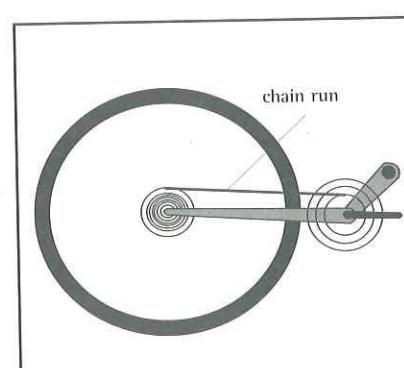


Fig. 6

How does pivot placement effect a URT?

Figure 5 shows that when the rider stands on a Y bike, their weight is applied to the swingarm right below the pivot through the bottom bracket. The rider is literally 'hanging from the pivot.' So, virtually no weight is applied to the rear wheel and the suspension can activate over any bump.

Figure 6 shows what can happen when you move the pivot. When the rider stands, their weight is applied to the rear wheel, preventing it from moving upward as it contacts a bump. If the suspension is being prevented from moving, it's inactive.

How do I tell this to my customers?

You can do a simple demonstration with a rigid beam of some type like a ruler, frame tube, or even a pencil.

How do I show them how the Y works?

Place one end of your beam on the counter. This end will represent the pivot. Let the customer hold the other end of the beam to act as the rear wheel.

In the upper half of the diagram, we show that with a Y bike, the rider's weight when standing is essentially on top of the pivot, so place your body weight as shown. The customer will still be able to move the 'rear wheel' end of the beam up and down easily, demonstrating that the Y bike is fully active when standing.

What about other URT designs?

On URT bikes with their pivot placed further forward, when the rider stands, the weight applied to the bottom bracket ends up being somewhat further back on the swingarm. The lower portion of our diagram shows that your hand should be placed further away from the pivot now, and when you push down, it will exert a force on the customer's hand (the rear wheel) showing that a standing rider on other URT designs deactivates the suspension, essentially locking it out.

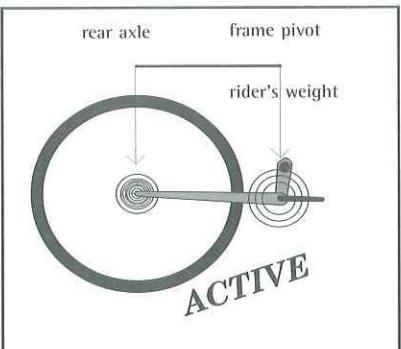


Fig. 7

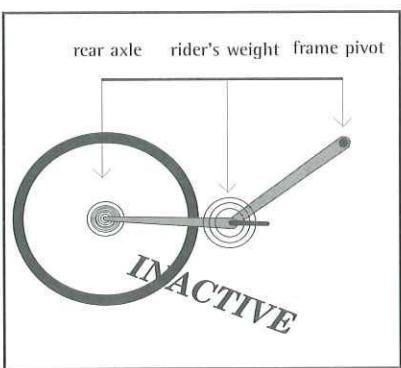


Fig. 8

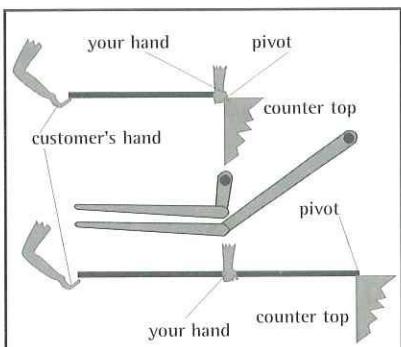


Fig. 9

OK. I see how that works, but doesn't the seat move up and down on a Y bike?

You can also use this demonstration so show that on a Y bike, it's not an issue. Have the customer move the 'rear wheel' up and down, while watching how much your hand (the bottom bracket) moves. With the Y bike pivot location, there is very little vertical motion of the bottom bracket when the rear wheel goes over a bump, allowing the rider to pedal without interruption. The actual distance for a Y bike; when the rear wheel moves up 4 inches, the bottom bracket moves up about 1/4 inch, or less than the amount the saddle will compress under a similar load.

MORE SUSPENSION TECH TALK

What's a falling rate?

A falling rate means that for each increment of rear wheel movement, the rear shock will be compressed less.

What other kinds of suspension are there?

A linear rate would yield the same amount of shock compression for each inch of wheel travel, like a telescoping suspension fork. A rising rate would mean that for each inch of wheel travel, the shock would compress slightly more.

Some magazines say a falling rate is bad. Why?

If the falling rate is significant, it means that as the shock is compressed fully, it might not provide enough stiffness to keep the suspension from bottoming out. But, to bottom out the suspension would require either a very falling rate, a very low preload (too much sag), or a low amount of travel in the first place.

Is the Y bike a falling rate suspension?

The 1997 Y bike had a very slight falling rate. The 1998 is essentially linear, although the rider has some choice with our new plate system (Fig. 10).

So the rider can choose?

With a 1998 Y bike, there are two shock positions. Of the two positions, a more falling rate is achieved with the adjustable plates oriented so the shock mount is closer to the bottom bracket.

How much of a falling rate is it?

If the bike achieves 4" of rear wheel travel, the shock compresses 0.354" during the first inch of wheel travel. During the second 1" of wheel travel, the shock compresses 0.351". The third inch of wheel travel compresses the shock 0.349", and the last inch of wheel travel compresses the shock about 0.346" (see Fig. 11). So, there is only 0.005" difference.

What about with the plates flipped?

There's only .001" difference in shock compression from the first to the last inch of wheel travel.

So there's not a lot of difference between the linear and falling rates?

The type of shock will make as much, or more difference.

So the shock's spring rate can actually have more effect than the shock compression rate?

The spring curve of the shock is the amount of compression the shock undergoes for a given force applied to the shock. In Fig. 12, the graph shows a comparison between a Fox Vanilla coil/over with a 700# coil and an Air Vanilla inflated to 190 PSI initial pressure. The straight, grey line represents the coil/over, and the black line is the Air Vanilla. Notice that at 400 pounds force (the second line up on the chart), the Air Vanilla has compressed only about 0.4", while the coil/over shock has compressed about 0.7". This indicates that on small bumps, the coil/over shock will feel a little more supple.

What's the dotted line?

That's what the curve of an older air shock would have looked like, where stiction kept the shock from moving until you hit a harder bump.

So what does this mean to the rider?

It's important to note that shock compression rates, spring curves, damping rates, etc. work together in a suspension system, so it's hard to pull just one piece of the puzzle out and see the whole picture.

The important thing is to see how the bike feels. The shock compression rate will effect how plush the bike feels, but so can the spring. You can get about a 10% leverage change by flipping the plates over, along with a small change in how the suspension feels. And one last point - if you're like most riders, you'll never bottom out a properly set up Y bike.

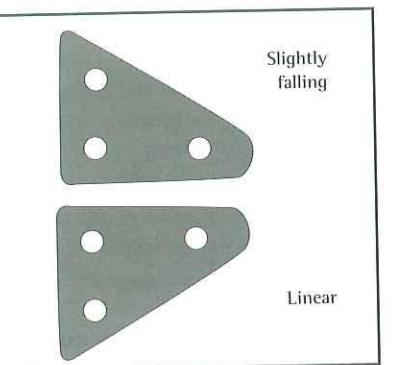


Fig. 10

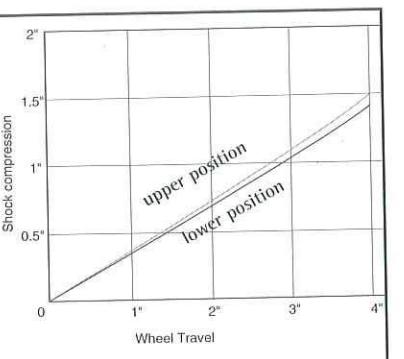


Fig. 11

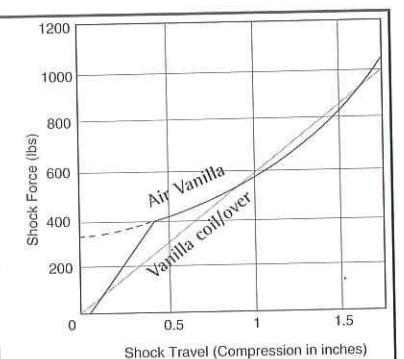


Fig. 12

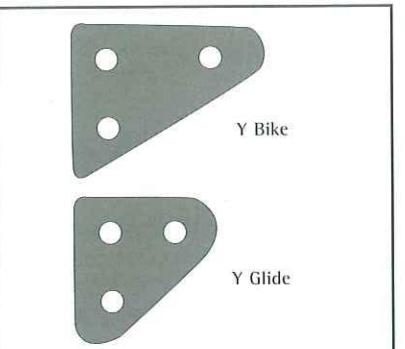


Fig. 13

Are the plates on a Y bike different from those on a Y Glide?

Yes, they are. With a different set of shock mounting plates, a Y bike can be set up for the new long travel suspension forks without losing steering precision.

How would you lose steering accuracy by using a longer fork?

Longer travel forks, by necessity, have longer axle-to-crown lengths. When you raise the head tube of a bike, you also raise the bottom bracket, slacken the head angle, and change the trail so the bike ends up handling differently.

Sounds like what happened when we first went to suspension forks.

It's no different. Yet many companies are trying to sell old frame designs with much longer forks.

So the Y Glides are the same steering as a Y bike?

It's not the same as our 'normal' Y bikes, but we don't think it should be. Look at the Team Downhill bike with its 67° head angle. This gives it extra stability at high speed, and it helps the suspension work better through a modified axle path.

Are the Y Glides downhill bikes?

They're not true downhill bikes by NORBA Pro standards, but neither are they standard cross country bikes. So, they have 70° head angles. By using the Y Glide plate, we correct the steering angle so that even with the 4" of fork travel and 5 1/2" of rear wheel travel on a Y Glide Deluxe, you still get a bike that handles beautifully and won't leave you 'out of bounds' on that twisty singltrack you like to ride.

I read that triple clamp forks would break a regular bike.

Triple clamp forks do 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 Trek other than the '98 dual suspension frames.

So who are these Y Glides for, if they're not downhill racing bikes?

- They're for 'adventure' riders, who like to ride in rougher terrain. Not everyone stays on the groomed trails.
- They're for ski area riding, where a majority of the riding is downhill.
- They're for riders who need more suspension. Ever watch what a suspension fork can do for a novice rider, letting them tackle more terrain with less fatigue? A full suspension bike has even more of this effect. And a Y Glide has more yet. So a Y Glide may be the perfect bike for a less skilled rider who want to ride in extra-rough terrain.
- And yes, the Y Glides would make great downhill bikes for those who only occasionally race, or can't afford a special-use bike, or just want to be able to get back up the hill after they do the descent.

Triple clamp forks - Aheadset® adjustment

Triple clamp forks, also called double triple clamp forks, use a crown both above and below the head tube to hold the fork's stanchions (upper tubes). This adds lots of lateral rigidity to the fork for increased steering precision. It also makes adjusting the headset slightly more time consuming. To adjust the preload on an aheadset with a triple clamp fork, first loosen the upper crown pinch bolts. Then loosen the stem's steerer pinch bolts. After adjusting the preload on the headset, torque the upper crown pinch bolts. Tighten crown pinch bolts on Manitou triple clamp models to 70-80 lb-in (7.9-9 Nm). On RockShox models, tighten crown pinch bolts to 60 lb-in (6.8 Nm). Then torque the stem's steerer clamp bolts.

Suspension set up

As important as understanding the theory behind a suspension design is knowing how to sell the suspension feel, starting with how to set it up. For most riding, we recommend that the Y Bikes be set up with between 5 and 10mm of front fork sag, and 3-8mm of rear shock sag (measured at the shock). The net result of this sag should be around 5-10mm of bottom bracket sag.

However, a first timer on suspension may find all that motion unsettling. When setting up a bike for a test ride, find out how much experience a rider has with full suspension. If it's little, explain to the customer that you are going to show them the bike twice; once set up with little sag (to mimic the feel of their hardtail bike). After a short ride, readjust to the above recommendations. If you skip the step, you could lose a sale to someone who does not realize that plush is a benefit on suspension.

The Y Glides should be ridden with about 5mm more bottom bracket drop, running 10-15mm fork sag, and 5-10mm of rear shock sag. Remember the above advice when setting a Y Glide up for a test ride, only this advice may apply to an experienced full suspension rider.

If the bike does not adjust to the settings the rider wants, there are different springs available for the rear shocks.

CARBON FIBER COMPOSITE AND OCLV

What exactly is OCLV?

OCLV stands for Optimum Compaction Low Void. It's a term describing the carbon fiber composite that Trek makes.

Isn't all carbon fiber the same?

Carbon fiber, as we tend to call it, is a composite. A composite material can be defined as two or more dissimilar materials which, when joined, exhibit better properties than each individual material. Carbon fiber composite is usually a combination of carbon fibers and resin. As such, there are three variables; carbon, resin, and the way they are combined.

So the real name is carbon fiber composite?

Yes. Carbon fibers by themselves would not make good bike frames, even though, by itself, carbon fiber is one of the strongest, stiffest materials known to man. A typical fiber is 0.0002" in diameter. They are incredibly strong along their length, but fragile when bent.

Just how strong are they?

To really answer that, we need to look at some Engineering Tables. Sorry, but engineering is who we are at Trek. Look at the Ultimate Tensile Strength (Fig. 14). This is measured by comparing a solid bar of material to its density (weight per volume). You'll notice that carbon fiber composite leads the pack. By a lot! In fact, more than double the strength per weight of any other material.

But such a thin fiber can't be very stiff!

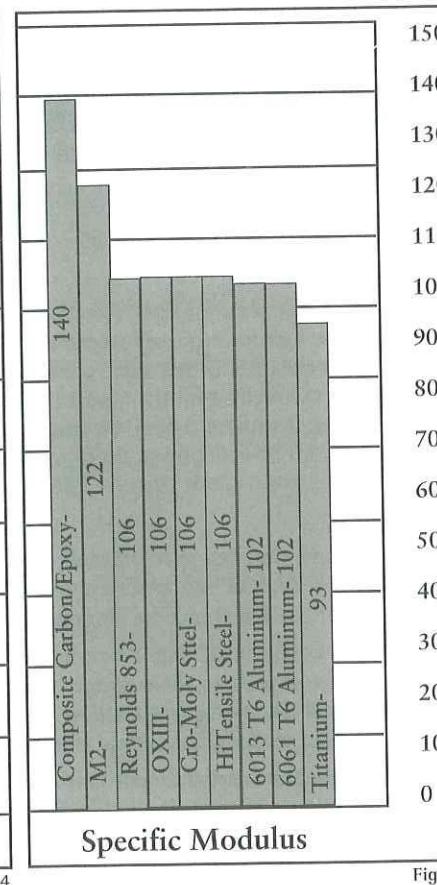
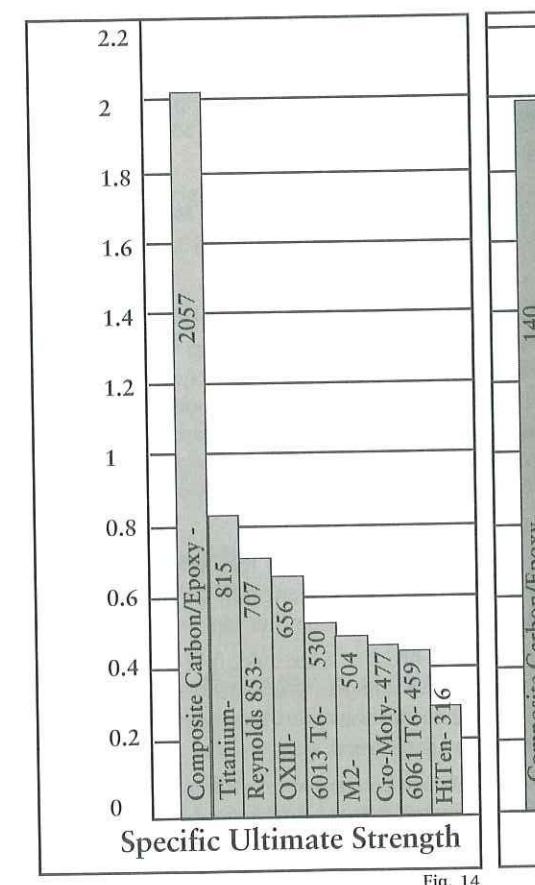
Actually, it's very stiff. Figure 15 shows the Specific Modulus of a variety of materials. This chart shows the modulus (stiffness) of each material compared again to its density, or weight per volume. You'll notice that carbon fiber is quite a bit stiffer than the other materials.

OK. So what's resin?

Resin is the glue, or matrix, which holds the individual fibers together so that they can be combined into a structural material.

What kind of glue?

In OCLV, we use epoxy resin to make thermoset carbon fiber composite. Thermoplastic carbon composite uses nylon.



I've used epoxy, but I didn't know nylon is made of glue.

When you heat nylon up and let it cool, it can work like a glue to hold the carbon fibers together.

So with epoxy, you pour the glue over the fibers?

OCLV uses something called prepreg, or pre-impregnated carbon fiber. It's a sheet of carbon fiber fabric which has been impregnated with resin. The fibers are oriented within the sheet and help in place.

What do you do with the sheets of prepreg?

We orient the sheets so the carbon is at precise angles, cut them to shape, and place them in a mold. Prepreg makes it much easier to work with the fibers than working with them in their dry form.

Why do you cut the carbon at angles?

Carbon only has strength in the direction of the fibers, so it's really important for the fibers to be in precise orientation in the frame.

Are the fibers all at the same angle?

All the fibers in a sheet of prepreg are at the same angle. This is called unidirectional. But, we might have several layers running at different angles.

Doesn't a bunch of layers make the frame sort of thick?

Each layer is 0.0005" thick, so we can stack up quite a few layers and still end up with a thin laminate.

What's a laminate?

A laminate is the structure or frame part made of composite. It's called a laminate because it has several layers which, when made right, form into a single layer.

How do you form the prepreg sheets into a single layer?

After the sheets have been oriented for fiber angle and cut to their specific shapes, they are placed in a mold where pressure and heat allow the epoxy to join everything together.

Sounds simple enough.

It's both simple and extremely difficult. With simple shapes like a flat sheet or cylinder, it's not hard to do. But with more complicated shapes and tight bends, like on a bike frame, it gets much harder. All those curves make it hard to get the uniform pressure you need to get the fibers compacted, squeezing out all the air bubbles and extra resin.

Air bubbles?

Air bubbles, even tiny ones, can cause the laminate to be weak. In OCLV, we end up with less than 1% voids. Other processes, especially thermoplastic, commonly end up with 5% or greater voids.

Why especially thermoplastic?

Thermoplastic uses a nylon resin. Nylon's natural state is a solid. So even at the very high temperatures and pressure, the nylon tends to be stiff and board-like when compared to epoxy. At much lower temperatures, epoxy is very fluid. That's important because you want the resin to completely 'wet-out', or surround every single fiber. Otherwise get voids.

OK. You don't want voids, but what's the big deal with just 4% difference?

That 4% difference in voids means about a 30% difference in structural strength.

So can't you just use more resin, or a little bit thicker laminate?

You don't want to just add resin. Resin is heavy. Plus, the most strength comes from a precise blend of resin and fibers. The frame designer will know they can't get sufficient strength with a thin laminate, so they add material for thicker walls, or internal reinforcements to try and add strength.

What does that do?

When you add thickness, or ribs, or anything else, it changes the weight and feel of the frame. It's like the benefits of butting a steel frame. Heavy, thick-walled tubes tend to feel dead and heavy. The thin walls of an OCLV bike make it feel alive under you. An OCLV frame feels like it always wants to accelerate.

Don't the thicker walls make the bike stiffer?

The stiffness of a structure is mostly defined by its outer diameter. So, if you want something to be stiffer, you should make it bigger in diameter, not thicker.

Isn't thermoplastic big in the aerospace industry?

The aerospace industry has largely dropped thermoplastic carbon composite. One major airframe manufacturer spent 2 1/2 years and millions of dollars on an R&D project to replace a thermoset part with thermoplastic. After 150 iterations, they dropped the project just like the rest of the industry.

If you could make a high quality, thermoplastic laminate bike frame, would it ride better?

Right now, the technology doesn't exist to make thermoplastic frames of the laminate quality we get with every single OCLV frame. But even if you could make a thermoplastic bicycle frame with the exact same laminate quality as OCLV, thermoplastic doesn't offer any benefits beyond those of the thermoset composite we now use.

The OCLV test:

- 1) If a material is superior to Trek's OCLV for making a bike, it should be just as strong, only lighter.
- 2) If a material is just as durable as Trek's OCLV, it should match the OCLV Limited Lifetime Warranty.
- 3) If a material is as good as Trek's OCLV, it should feel as good under you on the road or trail.

THE REDESIGNED Y BIKE

Improving a great platform

The Trek Y bike is one of the most copied bike designs ever. Look at virtually any bike catalog for 1998, and you'll see something that looks like a Trek Y Bike. Even our own road bikes!

Sometimes, it's just the general shape of the frame. Other times, it's the Y bike pivot location. And in still others, it looks like a blatant copy of the Y bike in its entirety. We're flattered, but let's be honest. Looks aren't everything.

To achieve this success, the entire package has to be great, right down to the suspension hardware (like quality, long lasting nuts and bolts). Our pivots have passed the test of time, being quiet and trouble free. With OCLV construction, our frames are some of the lightest on the planet, and Y bikes are durable, so they are a lasting investment in fun for their riders.

We're very satisfied with the acclaim the Y bikes have received. Even so, we've been doing our homework, looking for ways to improve the new 1998 Y bike. While some of the changes are to improve fit and handling, many are to address changed component requirements, including direct pull brakes, disc brakes, longer travel forks and rear shocks, and a host of details. Here's the short list:

Improvement	Benefits
Stiffer main frame	Increased pedaling efficiency Better handling
Stiffer rear triangle	Increased pedaling efficiency Better handling
Adjusted geometry for longer forks	Keeps steering correct with longer travel forks
Stronger, better aligned rear shock mount	Easier shock installation No cosmetic issues
Adjustable shock compression ratio	Tunable to shock type Tunable to rider preference Tunable to correct geometry for long travel forks
Stiffer replaceable rear derailleur hanger	Stronger Increased shifting accuracy (less flex)
Shorter, large section 'seatstays'	Stiffer to eliminate V brake flex
Integral rear disc brake mount	Simple, 2 bolt attachment for Hayes disc brakes
Cleaner cable routing	Reduced cable friction Reduced steering input from cables
No chain or seat stay bridges	Less mud accumulation Increased fatigue resistance
Increased tire clearance	Less mud accumulation Increased tire selection
Modified geometry with short steering moment	Uses shorter stems on medium and large sizes Puts hands closer to steering axis for increased control Moves front wheel further forward to resist front endos Adds steering stability
Lower bottom bracket	Lowers center of gravity for additional stability Makes bike easier to get on, especially in steep terrain
Increased size range	Small fits smaller rider, large fits larger rider

When you ride the new bike, you're going to notice it handles quite differently from other full suspension bikes. Is it the new geometry, or is it that we've almost doubled the lateral stiffness of the bike? The real answer would be: Yes.

To get the most out of the new geometry, we needed to beef up the frame's stiffness. If we had simply lengthened the old Y bike frame, it would have been more flexible. Instead, we dramatically increased the outer dimensions of the frame so now it's a lot stiffer, even though it's longer.

When the wall thickness of a structure is beefed up, you add strength (which is mostly dependent on material cross section), but the stiffness doesn't change much. However, when you increase the diameter or outer cross section, stiffness goes up fast. Figure 16 shows the outline of a new Y frame laid over the grey shape of an earlier Y frame.

The line across the frame in Figure 17 shows where we have looked at the cross section of the two frames, as shown in Figure 16. This figure shows the dark grey cross section of a new Y bike surrounding the lighter grey cross section of our earlier Y bike. The result of this increase in cross section is 100% increase in lateral stiffness of the main frame, even though it's longer. A small increase would have made a noticeable difference, but this one is huge!

The weight is almost exactly the same from the earlier Y bike to the new one. Total for the front and rear is 4.2 pounds, less than some of our competitor's hardtails!

While the front end grew, the rear end shortened. This was done primarily by laying the 'seat tube' of the rear triangle further back, shortening the seat stays by almost 2 inches. But, we also changed the cross section of both the seat and chainstays. This greatly increased their rigidity. You'll notice this under hard pedaling, but also when you clamp on the binders.

As said before, adding stiffness would make a big difference in how the Y rides, but we also changed the geometry. The intent behind this geometry change was to get the rider's hands closer to the steering axis (the point where everything turns, the headset and fork steerer).

We looked at the placement of the rider's center of gravity on a small Y bike and compared it to a large. With a stem length difference of as much as 60mm, the tall rider on a large Y bike placed much more weight on the front wheel. Plus, their hands were much farther from the steering axis, requiring them to sweep their hands sideways to effect small steering changes. And as you move your hands from the bike's centerline, your center of gravity follows your hands. Why should a large bike handle so differently than a small?

We thought about this for awhile, and argued theories on how a longer top tube and shorter stem would affect the handling. A big concern was that with less weight on the front wheel, there would be too much wheel flop on steep climbs (we were wrong). We also reasoned (correctly, as it turns out) that moving the front wheel further ahead of the rider and lowering their center of gravity would make the bike much more stable on steep descents. Eventually, we got down to building prototypes. And when we rode them, we were amazed!

As we tried different versions, we tweaked different things here and there. We played with chainstay lengths, handlebar heights, and more. We increased the fork lengths to accommodate the new 70 and 80mm travel forks. We also lowered the bottom bracket a bit. And, with the introduction of our new long travel Y Glides, we no longer felt the need to make the regular Y bikes super long travel, so we shortened the rear wheel travel down to 'just' 4 inches.

The new geometry is rock solid. At first, riders will feel this bike steers very differently than others because it is very different, particularly on the medium and large frame sizes. But after you get used to it, a 'regular' bike feels funny. Funny as in "That's funny, why didn't we think of this before".

A final concern of the new bikes is fit. The table below tells the story.

	1997			1998		
	S	M	L	S	M	L
Effective top tube	566	597	615	562	611	641
Stem length	105	120	135	90	105	105
Reach	660	705	736	643	706	736

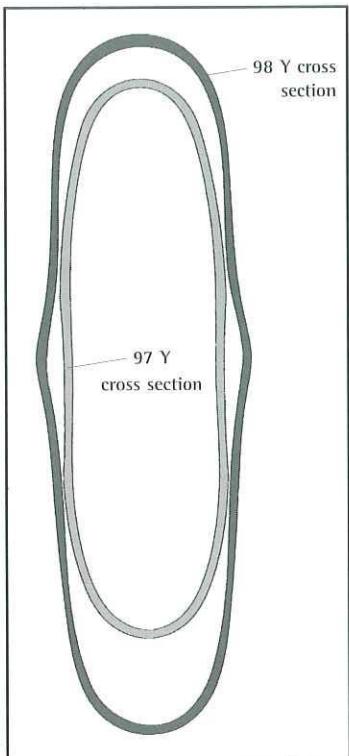


Fig. 16

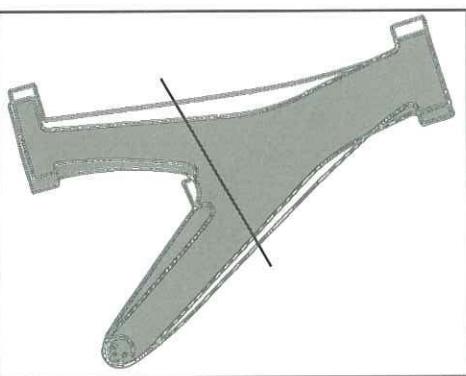


Fig. 17

OUR PRICE: \$

Main tubes	OCLV carbon	22 32 42		
Stays	6061 T6 aluminum, TIG welded URT	11 52 76 100		
Fork	RockShox Judy SL	13 44 65 85		
Rear shock	Fox Air Vanilla RC air/oil w/remote	15 38 56 73		
Headset	Cane Creek	17 34 49 65		
Handlebars	ICON 2014, 7° bend	20 29 42 55		
Stem	ICON forged alloy direct connect 39.5mm steerer clamp height	23 25 36 48		
Bar ends	ICON Carbon	26 22 32 42		
Grips	Trek Dual Density	30 19 28 37		
Shifters	Shimano XTR RapidFire SL			
Front derailleur	Shimano Deore XT Top Swing			
Rear derailleur	Shimano XTR Rapid Rise			
Brakes	Shimano XTR V			
Brake levers	Shimano XTR V			
Crankset	Shimano Deore XT 4 arm 42/32/22			
Bottom bracket	Shimano BB-UN72			
Pedals	Shimano SPD M747 clipless			
Cassette	Shimano XT 11-30			
Chain	Sachs PC-51			
Front hub	Cane Creek Crono, Salsa FlipOffs			
Front tire	Bontrager Jones, folding			
Rear hub	Cane Creek Crono, Salsa FlipOffs HyperGlide Compact cassette, 8 speed, 135mm O.L.D.			
Rear tire	Bontrager Jones, folding			
Tubes	Presta valve, ultra light			
Front Rim	Cane Creek Swami			
Rear Rim	Cane Creek Swami RDR			
Spokes	Nail head straight pull, 3/16" hex nipple			
Saddle	Bontrager FS+10 Race Lite, Titanium/leather, Kevlar corners			
Seatpost	ICON 2, 2014 Al			
Seat binder	Alloy w/integral bolt			
Additionals	2 water bottle mounts, shock pump, handlebar mount damping adjuster			
Colors	Platinum Pearl/Eggplant • Platinum 3D decal			
<hr/>				
Frame sizes	S	M	L	
Handlebar width	580	580	580	
Stem length	90	105	105	
Crank length	170	175	180	
Seatpost length	250	350	350	
Steerer, mm	196	216	236	
<hr/>				
Fork Length	433mm axle-crown race			
Head angle	71.5	71.6	71.6	
Seat angle	74.5	73.6	72.6	
<hr/>				
MM	Standover	712	730	750
	Seat tube	445	483	533
	Head tube	105	125	145
	Eff top tube	562	611	641
	Reach	643	706	736
	Chainstays	425	425	425
	BB height	313	313	313
	Offset	42	42	42
	Trail	68	68	68
	Wheelbase	1059	1099	1115
<hr/>				
IN	Standover	28.03	28.74	29.53
	Seat tube	17.52	19.02	20.98
	Head tube	4.13	4.92	5.71
	Eff top tube	22.13	24.06	25.24
	Reach	25.32	27.79	28.97
	Chainstays	16.73	16.73	16.73
	BB height	12.32	12.32	12.32
	Offset	1.65	1.65	1.65
	Trail	2.68	2.66	2.66
	Wheelbase	41.69	43.27	43.90

OUR PRICE: \$

Main tubes	OCLV carbon		22 32 42
Stays	6061 T6 aluminum, TIG welded URT		11 52 76 100
Fork	Manitou X-Vert, TPC		13 44 65 85
Rear shock	Fox Air Vanilla RC air/oil w/remote		15 38 56 73
Headset	WTB Grease Guard	80mm travel	17 34 49 65
Handlebars	ICON 2014, 7° bend	1.5" stroke, 102mm rear wheel travel	20 29 42 55
Stem	ICON forged alloy direct connect	6.5" eye to eye, 5/8" & 7/8" ends	23 25 36 48
Bar ends	ICON Forged Ergo	25.4/34.0/30.0, 27.0mm stack	26 22 32 42
Grips	Trek Dual Density	25.4mm clamp diameter	
Shifters	Shimano Deore XT RapidFire SL	39.5mm steerer clamp height	
Front derailleur	Shimano Deore XT Top Swing	Top pull, 34.9mm/1 3/8"	
Rear derailleur	Shimano XTR Rapid Rise		
Brakes	Shimano Deore XT V		
Brake levers	Shimano Deore XT V		
Crankset	Shimano Deore LX 4 arm 42/32/22	Splined/104/64mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	73 x 113	
Pedals	ICON clipless	9/16" axle	
Cassette	Shimano HG70-1 11-30	8spd	
Chain	Sachs PC-41	106 length, 3/32"	
Front hub	Shimano Deore XT		
Front tire	Bontrager Jones, folding	49/53	
Rear hub	Shimano Deore XT	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.	
Rear tire	Bontrager Jones, folding	46/50	
Tubes	Presta valve, ultra light		
Front Rim	Bontrager Valiant	541 E.R.D., Velox 22mm rim strip	
Rear Rim	Bontrager Mustang ASYM	541 E.R.D., Velox 22mm rim strip	
Spokes	DT 14/15G butted stainless, alloy nips	32 spoke Radial Front, 32 spoke 3x Rear 254, 264/265 rear (D/ND)	
Saddle	Bontrager FS+10 Race, Cro-Moly/leather		
Seatpost	ICON 2, 2014 Al	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Additionals	2 water bottle mounts, shock pump, handlebar mount damping adjuster		
Colors	Blaze Red/Mango • Mango 3D decal		
	Ice Inkwell Blue/Mango • Mango 3D decal		
Frame sizes	S M L		
Handlebar width	580 580 580		
Stem length	90 105 105		
Crank length	170 175 175		
Seatpost length	250 350 350		
Steerer, mm	183 203 223		
Fork Length	All measurements w/10mm sag front and rear, except standover and fork length		
Head angle	433mm axle-crown race		
Seat angle	71.5 71.6 71.6		
MM	71.5 71.6 71.6		
Standover	712 730 750		
Seat tube	445 483 533		
Head tube	105 125 145		
Eff top tube	562 611 641		
Reach	643 706 736		
Chainstays	425 425 425		
BB height	313 313 313		
Offset	42 42 42		
Trail	68 68 68		
Wheelbase	1059 1099 1115		
IN	28.03 28.74 29.53		
Standover	17.52 19.02 20.98		
Seat tube	4.13 4.92 5.71		
Head tube	22.13 24.06 25.24		
Eff top tube	25.32 27.79 28.97		
Reach	16.73 16.73 16.73		
Chainstays	12.32 12.32 12.32		
BB height	1.65 1.65 1.65		
Offset	2.68 2.66 2.66		
Trail	41.69 43.27 43.90		

OUR PRICE: \$

Main tubes	OCLV carbon		22 32 42
Stays	6061 T6 aluminum, TIG welded URT		11 52 76 100
Fork	RockShox Judy XC	80mm travel	13 44 65 85
Rear shock	Fox Air Vanilla air/oil	1.5" stroke, 102mm rear wheel travel	15 38 56 73
Headset	Dia-Compe SA Aheadset, alloy	6.5" eye to eye, 5/8" & 7/8" ends	17 34 49 65
Handlebars	ICON 2014, 7° bend	25.4/34.0/30.0, 27.0mm stack	20 29 42 55
Stem	ICON forged alloy direct connect	25.4mm clamp diameter	23 25 36 48
Bar ends	ICON Fatty	39.5mm steerer clamp height	26 22 32 42
Grips	Trek Dual Density	Top pull, 34.9mm/1 3/8"	30 19 28 37
Shifters	Shimano Deore LX RapidFire+		
Front derailleur	Shimano Deore LX Top Swing		
Rear derailleur	Shimano Deore XT SGS		
Brakes	Shimano M600 V		
Brake levers	Avid Speed Dial-1.9 L long pull		
Crankset	Shimano Deore LX 4 arm 42/32/22		
Bottom bracket	Shimano BB-UN52		
Pedals	ICON clipless		
Cassette	Shimano HG60-1 11-30		
Chain	Sachs PC-41		
Front hub	Shimano Deore LX		
Front tire	Bontrager Jones, folding		
Rear hub	Shimano Deore LX		
Rear tire	Bontrager Jones, folding		
Tubes	Presta valve, ultra light		
Front Rim	Bontrager Mustang		
Rear Rim	Bontrager Mustang ASYM		
Spokes	DT 14/15G butted stainless, alloy nips		
Saddle	Bontrager Race +10, Cro-Moly/leather		
Seatpost	ICON 1, 6061 Al		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mount, shock pump		
Colors	Team yellow/Black • Red 3D decal		
Frame sizes	S M L		
Handlebar width	580 580 580		
Stem length	90 105 105		
Crank length	170 175 175		
Seatpost length	250 350 350		
Steerer, mm	183 203 223		
Fork Length	All measurements w/10mm sag front and rear, except standover and fork length		
Head angle	433mm axle-crown race		
Seat angle	71.5 71.6 71.6		
MM	71.5 71.6 71.6		
Standover	712 730 750		
Seat tube	445 483 533		
Head tube	105 125 145		
Eff top tube	562 611 641		
Reach	643 706 736		
Chainstays	425 425 425		
BB height	313 313 313		
Offset	42 42 42		
Trail	68 68 68		
Wheelbase	1059 1099 1115		
IN	28.03 28.74 29.53		
Standover	17.52 19.02 20.98		
Seat tube	4.13 4.92 5.71		
Head tube	22.13 24.06 25.24		
Eff top tube	25.32 27.79 28.97		
Reach	16.73 16.73 16.73		
Chainstays	12.32 12.32 12.32		
BB height	1.65 1.65 1.65		
Offset	2.68 2.66 2.66		
Trail	41.69 43.27 43.90		

OUR PRICE: \$

Main tubes	6061 T6 Trek design aluminum	22 32 42
Stays	6061 T6 aluminum, TIG welded URT	
Fork	Manitou Spyder R	
Rear shock	Fox Vanilla R coil/oil w/adj rebound	
Headset	70mm travel	
Handlebars	1.5" stroke, 102mm rear wheel travel	
Stem	6.5" eye to eye, 5/8" & 7/8" ends	
Bar ends	25.4/34.0/30.0, 27.0mm stack	
Grips	25.4mm clamp diameter	
Shifters	39.5mm steerer clamp height	
Front derailleur	Trek Dual Density	
Rear derailleur	Shimano Deore LX RapidFire+	
Brakes	Shimano STX Top Swing	
Brake levers	Shimano Deore XT SGS	
Crankset	Avid Single Digit 10 direct pull	
Bottom bracket	Avid AD-1.0 L long pull	
Pedals	Shimano STX-RC 4 arm 42/32/22	
Cassette	Shimano BB-UN52	
Chain	ICON clipless	
Front hub	Shimano HG60-1 11-30	
Front tire	Sachs PC-41	
Rear hub	Shimano Deore LX	
Rear tire	Bontrager Jones, folding	
Tubes	Shimano Deore LX	
Front Rim	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.	
Rear Rim	Bontrager Jones, folding	
Spokes	Presta valve, ultra light	
Saddle	546 E.R.D., Velox 22mm rim strip	
Seatpost	542 E.R.D., Velox 22mm rim strip	
Seat binder	32 spoke Radial Front, 32 spoke 3x Rear	
Additionals	253, 264/265 rear (D/ND)	
Colors	27.2mm diameter	
	35.0 clamp diameter	
	2 water bottle mounts	
	Team Purple/Mango • Mango 3D decal	
Frame sizes	S M L	
Handlebar width	580 580 580	
Stem length	90 105 105	
Crank length	170 175 175	
Seatpost length	250 350 350	
Steerer, mm	183 203 203	
Spring #	600 700 800	
Fork Length	All measurements w/10mm sag front and rear, except standover and fork length	
	427mm 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	645 706 738
	Chainstays	425 425 425
	BB height	302 302 302
	Offset	39 39 39
	Trail	74 74 74
	Wheelbase	1047 1087 1109
IN	Standover	27.95 29.13 29.09
	Seat tube	17.01 19.02 20.98
	Head tube	4.13 4.92 4.92
	Eff top tube	22.20 24.09 25.35
	Reach	25.39 27.81 29.07
	Chainstays	16.73 16.73 16.73
	BB height	11.89 11.89 11.89
	Offset	1.54 1.54 1.54
	Trail	2.93 2.93 2.93
	Wheelbase	41.22 42.80 43.66

OUR PRICE: \$

Main tubes	6061 T6 Trek design aluminum	20 32 42
Stays	Cro-Moly	
Fork	RockShox Indy C	
Rear shock	Fox Vanilla X coil/oil	
Headset	75mm travel	
Handlebars	1.5" stroke, 102mm rear wheel travel	
Stem	6.5" eye to eye, 5/8" & 7/8" ends	
Bar ends	25.4/34.0/30.0, 25.0mm stack	
Grips	25.4mm clamp diameter	
Shifters	41.0mm steerer clamp height	
Front derailleur	Trek Dual Density	
Rear derailleur	Shimano STX-RC RapidFire+	
Brakes	Shimano STX Top Swing	
Brake levers	Shimano Deore XT SGS	
Crankset	Dia-Compe 737 direct pull	
Bottom bracket	Dia-Compe DP7N direct pull	
Pedals	Sugino Impel 300 42/32/20	
Cassette	Shimano BB-LP27	
Chain	Resin/alloy cage w/clips and straps	
Front hub	SR PF35C 11-28	
Front tire	Sachs PC-21	
Rear hub	Shimano STX-RC	
Rear tire	Bontrager Jones	
Tubes	Shimano STX-RC	
Front Rim	Bontrager Jones	
Rear Rim	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.	
Spokes	Bontrager Jones	
Saddle	46/50	
Seatpost	Presta valve	
Seat binder	Matrix Swami	
Additionals	Matrix Swami RDR	
Colors	DT 14G stainless	
Frame sizes	S M L	
Handlebar width	580 580 580	
Stem length	90 105 105	
Crank length	170 175 175	
Seatpost length	300 350 350	
Steerer, mm	182 202 202	
Spring #	600 700 800	
Fork Length	All measurements w/10mm sag front and rear, except standover and fork length	
	427mm 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	639 699 731
	Chainstays	425 425 425
	BB height	302 302 302
	Offset	39 39 39
	Trail	74 74 74
	Wheelbase	1047 1087 1109
IN	Standover	27.95 29.13 29.09
	Seat tube	17.01 19.02 20.98
	Head tube	4.13 4.92 4.92
	Eff top tube	22.20 24.09 25.35
	Reach	25.14 27.52 28.78
	Chainstays	16.73 16.73 16.73
	BB height	11.89 11.89 11.89
	Offset	1.54 1.54 1.54
	Trail	2.93 2.93 2.93
	Wheelbase	41.22 42.80 43.66

TEAM DOWNHILL

OUR PRICE: \$

Main tubes	6061 T6 Trek design aluminum	48
Stays	6061 T6 aluminum	
Fork	RockShox Boxxer Pro	152mm travel
Rear shock	Fox Vanilla RX coil/oil w/piggyback	10mm upper clamp height 2.25" stroke, 152mm rear wheel travel 7.5" eye to eye, 0.86" ends
Headset	Cane Creek	25.4/34.0/30.0, 27.8mm stack
Handlebars	ICON Downhill, 7° bend, 50mm rise	25.4mm clamp diameter
Stem	Bontrager forged alloy direct connect	44.5mm steerer clamp height
Bar ends	-	
Grips	Trek Dual Density	
Shifters	Shimano Deore XT RapidFire SL O.G.D., right only	
Front derailleur	-	
Rear derailleur	Shimano XTR Rapid Rise	
Brakes	Hayes Disc, downhill rotors front and rear	
Brake levers	Hayes Hydraulic front & rear	
Crankset	Shimano XTR 4 arm 48T	Splined/112/68mm bolt hole circle
Bottom bracket	Shimano XTR	73 x 116
Pedals	Shimano SPD M626 DX clipless	9/16" axle
Cassette	Shimano XT 11-30	8 spd
Chain	Sachs PC-51	106 length, 3/32"
Front hub	Hayes disc compatible, thru axle	
Front tire	Bontrager Jones, folding	52/55
Rear hub	Hayes Disc	HyperGlide Compact cassette, rotor, 8 speed, 135mm O.L.D.
Rear tire	Bontrager Jones, folding	49/51
Tubes	Presta valve, ultra light	
Front Rim	Bontrager Clyde	542 E.R.D., Velox 22mm rim strip
Rear Rim	Bontrager Clyde	542 E.R.D., Velox 22mm rim strip
Spokes	DT 14/15G butted stainless	32 spoke 3x Front, 32 spoke 3x Rear 263/262, 264/264 rear (D/ND)
Saddle	Bontrager FS+10 Race, Cro-Moly/leather	27.2mm diameter
Seatpost	ICON 2, 2014 Al	35.0 clamp diameter
Seat binder	Alloy w/integral bolt	
Additionals	MRP DH-1 chain tensioner	
Colors	Team Yellow and Purple/Red • Team decal	
Frame sizes	S M L	
Handlebar width	620 620 620	
Stem length	60 60 60	
Crank length	170 170 170	
Seatpost length	250 250 350	
Steerer, mm	208 208 208	
Spring #	450 525 625	
Fork Length	All measurements w/20mm sag front and rear, except standover and fork length	
Head angle	516mm axle-crown race	
Seat angle	67.0 67.0 67.0	
MM	69.0 69.0 69.0	
Standover	736 786 820	
Seat tube	452 483 549	
Head tube	125 125 125	
Eff top tube	577 598 627	
Reach	629 650 679	
Chainstays	435 435 435	
BB height	321 321 321	
Offset	42 42 42	
Trail	97 97 97	
Wheelbase	1080 1101 1131	
IN		
Standover	28.98 30.94 32.28	
Seat tube	17.80 19.02 21.61	
Head tube	4.92 4.92 4.92	
Eff top tube	22.72 23.54 24.69	
Reach	24.76 25.59 26.73	
Chainstays	17.13 17.13 17.13	
BB height	12.64 12.64 12.64	
Offset	1.65 1.65 1.65	
Trail	3.81 3.81 3.81	
Wheelbase	42.52 43.35 44.53	

OUR PRICE: \$

Main tubes	6061 T6 Trek design aluminum	22	32	42
Stays	6061 T6 aluminum, TIG welded URT	52	76	100
Fork	Manitou X-Vert R, TPC	11	13	15
Rear shock	100mm travel	9.5mm upper clamp height		
Headset	Fox Vanilla RX piggyback coil/oil	2.0" stroke, 137mm rear wheel travel		
Handlebars	WTB Grease Guard	7.0" eye to eye, 5/8" & 7/8" ends		
Stem	ICON Downhill, 7° bend, 50mm rise	25.4/34.0/30.0, 27.0mm stack		
Bar ends	ICON forged alloy direct connect	25.4mm clamp diameter		
Grips	-	39.5mm steerer clamp height		
Shifters	Trek Dual Density			
Front derailleur	GripShift ESP-900	Top pull, 34.9mm/1 3/8"		
Rear derailleur	Shimano Deore LX Top Swing			
Brakes	GripShift ESP 9.0			
Brake levers	Hayes Disc, front and rear			
Crankset	Hayes Hydraulic, front and rear			
Bottom bracket	Shimano Deore LX 4 arm 42/32/22	Splined/104/64mm bolt hole circle		
Pedals	Shimano BB-UN52	73 x 113		
Cassette	Shimano SPD M626 DX clipless	9/16" axle		
Chain	Shimano HG60-I 11-30	8spd		
Front hub	Sachs PC-41	106 length, 3/32"		
Front tire	Hayes disc compatible			
Rear hub	IRC Missile	26 x 2.1		
Rear tire	Hayes Disc	HyperGlide Compact cassette, rotor, 8 speed, 135mm O.L.D.		
Tubes	IRC Missile	26 x 2.1		
Front Rim	Presta valve			
Rear Rim	Bontrager Mustang ASYM	542 E.R.D., Velox 22mm rim strip		
Spokes	Bontrager Mustang ASYM	542 E.R.D., Velox 22mm rim strip		
Saddle	DT 14/15G butted stainless	32 spoke 3x Front, 32 spoke 3x Rear		
Seatpost	Bontrager FS+10 Race, Cro-Moly/leather	266/262, 263/264 rear (D/ND)		
Seat binder	ICON 2, 2014 Al	27.2mm diameter		
Additionals	Alloy w/integral bolt	35.0 clamp diameter		
Colors	2 water bottle mounts			
Frame sizes	Black Mercury Pearl/Mango • Mango 3D decal			
Handlebar width	S M L			
Stem length	620 620 620			
Crank length	90 105 105			
Seatpost length	170 175 175			
Steerer, mm	250 350 350			
Spring #	192 212 212			
Fork Length	450 500 600			
Head angle	All measurements w/15mm sag front and rear, except standover and fork length			
Seat angle	465mm axle-crown race			
MM	70.0 70.0 70.0			
Standover	73.0 72.0 71.0			
Seat tube	731 759 759			
Head tube	432 483 533			
Eff top tube	105 125 125			
Reach	564 612 644			
Chainstays	644 706 738			
BB height	425 425 425			
Offset	313 313 313			
Trail	39 39 39			
Wheelbase	81 81 81			
IN	1047 1087 1109			
Standover	28.78 29.88 29.88			
Seat tube	17.01 19.02 20.98			
Head tube	4.13 4.92 4.92			
Eff top tube	22.20 24.09 25.35			
Reach	25.36 27.78 29.04			
Chainstays	16.73 16.73 16.73			
BB height	12.32 12.32 12.32			
Offset	1.54 1.54 1.54			
Trail	3.18 3.18 3.18			
Wheelbase	41.22 42.80 43.66			

Main tubes	6061 T6 Trek design aluminum	20 32 42	
Stays	6061 T6 aluminum, TiG welded URT	11 48 76 100	
Fork	RockShox Judy XL T2	12 44 70 92	
Rear shock	Fox Vanilla X coil/oil	14 37 60 79	
Headset	Dia-Compe ST Aheadset	16 33 52 69	
Handlebars	ICON Downhill, 7° bend, 30mm rise	18 29 47 61	
Stem	System 1 forged alloy direct connect	21 25 40 52	
Bar ends	-	24 22 35 46	
Grips	Trek Dual Density	28 19 30 39	
Shifters	Shimano STX-RC RapidFire+		
Front derailleur	Shimano STX Top Swing		
Rear derailleur	Shimano Deore LX SGS		
Brakes	Avid Single Digit 10 direct pull		
Brake levers	Avid AD-1.0 L long pull		
Crankset	Sugino Impel 300 42/32/20		
Bottom bracket	Shimano BB-LP27		
Pedals	Wellgo DH clipless		
Cassette	SR PF35C 11-28		
Chain	Sachs PC-41		
Front hub	Shimano STX-RC		
Front tire	Bontrager Jones		
Rear hub	Shimano STX-RC		
Rear tire	Bontrager Jones		
Tubes	Presta valve		
Front Rim	Matrix Swami		
Rear Rim	Matrix Swami RDR		
Spokes	DT 14G stainless		
Saddle	Bontrager Comp +10		
Seatpost	Alloy micro-adjust		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mounts		
Colors	Ice Inkwell Blue/Charcoal • Dark Chrome 3D decal		
Frame sizes	S M L		
Handlebar width	620 620 620		
Stem length	90 105 120		
Crank length	170 175 175		
Seatpost length	300 350 350		
Steerer, mm	196 216 216		
Spring #	500 600 700		
Fork Length			
All measurements w/15mm sag front and rear, except standover and fork length			
465mm axle-crown race			
Head angle	70.0 70.0 70.0		
Seat angle	73.0 72.0 71.0		
MM	731	759	759
	432	483	533
	105	125	125
	564	612	644
	638	698	742
	425	425	425
	313	313	313
	39	39	39
	81	81	81
	1047	1087	1109
IN	28.78	29.88	29.88
	17.01	19.02	20.98
	4.13	4.92	4.92
	22.20	24.09	25.35
	25.11	27.48	29.22
	16.73	16.73	16.73
	12.32	12.32	12.32
	1.54	1.54	1.54
	3.18	3.18	3.18
	41.22	42.80	43.66

Seatposts

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.

Trek OCLV mountain 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).

Special Torque Specs

Rear derailleur hanger

30-40 lb•in (35-45 Nm)

Special Parts

Rear derailleur hanger kit- Derailleur hanger, screw

Part #

980116

Bottom bracket

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.

Chainstay guard

OCLV Mountain frames must always be fitted with a chainstay guard to protect against damage in case of chainsuck or overshifting past the inner chainring. This piece is both riveted and bonded. If it should be damaged, the frame should be shipped back to Trek for repair.

Triple Clamp, Dual Crown Forks

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 Trek other than the '98 dual suspension frames.

Main tubes	OCLV carbon		24 34 46	
Stays	OCLV carbon		11	57 81 110
Fork	RockShox SID	63mm travel	13	48 69 93
Headset	Cane Creek	25.4/34.0/30.0, 27.8mm stack	15	42 59 80
Handlebars	ICON 2014, 7° bend	25.4mm clamp diameter	17	37 52 71
Stem	ICON forged alloy direct connect	39.5mm steerer clamp height	20	31 45 60
Bar ends	ICON Carbon		23	27 39 52
Grips	Trek Dual Density		26	24 34 46
Shifters	Shimano XTR RapidFire SL O.G.D.	Top pull, Plate style	30	21 30 40
Front derailleur	Shimano XTR Top Swing			
Rear derailleur	Shimano XTR Rapid Rise			
Brakes	Shimano XTR V			
Brake levers	Shimano XTR V			
Crankset	Shimano XTR 4 arm 46/34/24	Splined/112/68mm bolt hole circle		
Bottom bracket	Shimano XTR	73 x 116		
Pedals	Shimano SPD M747 clipless	9/16" axle		
Cassette	Shimano XTR 11-30	8spd		
Chain	Sachs PC-51	106 length, 3/32"		
Front hub	Cane Creek Crono, Salsa FlipOffs			
Front tire	Continental Double fighter, folding			
Rear hub	Cane Creek Crono, Salsa FlipOffs	26 x 2.0		
Rear tire	Continental Double fighter, folding	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.		
Tubes	Presta valve, ultra light	26 x 2.0		
Front Rim	Cane Creek Swami	Custom drilled, 546 E.R.D., Velox 19mm rim strip		
Rear Rim	Cane Creek Swami RDR	Custom drilled, 546 E.R.D., Velox 22mm rim strip		
Spokes	Nail head straight pull, 3/16" hex nip	24 spoke Radial Front 28 spoke 1x/Radial Rear 252, 233/249 rear (D/ND)		
Saddle	SSM Bontrager, Ti rails, Team embroidered	27.2mm diameter		
Seatpost	ICON 2, 2014 Al	35.0 clamp diameter		
Seat binder	Alloy w/integral bolt			
Additionals	2 water bottle mounts			
Colors	Team Yellow and Purple/Team • Team decal			
Frame sizes	15	16.5	18	19.5
Handlebar width	580	580	580	580
Stem length	90	105	120	120
Crank length	170	175	175	175
Seatpost length	250	350	350	350
Steerer, mm	188	188	188	201
Fork Length	415mm axle-crown race			
Head angle	70.5	70.5	71.0	71.0
Seat angle	73.0	73.0	73.0	73.0
MM	693	718	742	771
Standover	381	419	457	495
Seat tube	110	110	110	124
Head tube	554	565	592	594
Eff top tube	635	659	700	702
Reach	424	424	424	424
Chainstays	298	298	297	297
BB height	38	38	38	38
Offset	79	79	75	75
Trail	1030	1041	1060	1065
Wheelbase				1070
IN	27.28	28.27	29.21	30.35
Standover	15.00	16.50	17.99	19.49
Seat tube	4.33	4.33	4.33	4.88
Head tube	21.81	22.24	23.31	23.39
Eff top tube	24.98	25.94	27.55	27.63
Reach	16.69	16.69	16.69	16.69
Chainstays	11.73	11.73	11.69	11.69
BB height	1.50	1.50	1.50	1.50
Offset	3.09	3.09	2.97	2.97
Trail	40.55	40.98	41.73	41.93
Wheelbase				42.13

ALPHA ZX, ALPHA SL AND STEEL ATB

Seatposts

With aluminum and steel mountain bikes, lubricate the seatpost before insertion. Apply a thin layer of grease to the section of the seatpost that will be inserted into the frame. Insert the seatpost into the frame, adjust to the proper height, and engage the binder lever or bolt. Never engage the seatpost binder lever with the seatpost out of the frame.

Trek aluminum and steel mountain 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).

Special Torque Specs

Rear derailleur hanger

30-40 lb•in (35-45 Nm)

Special Parts

Rear derailleur hanger kit- Derailleur hanger, screw

Part #

980116

Bottom bracket

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.

Chainstay guard

Aluminum mountain frames must always be fitted with a chainstay guard to protect against damage in case of chainsuck or over-shifting past the inner chainring.

Chainstay guard

980136

Triple Clamp, Dual Crown Forks

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 Trek other than the '98 dual suspension frames.

8900

OUR PRICE: \$

Main tubes	Butted 6013 T6 aluminum	22 32 42			
Stays	6061 T6 aluminum				
Fork	RockShox SID				
Headset	WTB Grease Guard				
Handlebars	ICON 2014, 7° bend				
Stem	ICON forged alloy direct connect				
Bar ends	ICON Forged Ergo				
Grips	Trek Dual Density				
Shifters	Shimano Deore XT RapidFire SL				
Front derailleur	Shimano Deore XT Top Swing				
Rear derailleur	Shimano XTR Rapid Rise				
Brakes	Hayes Disc, front and rear				
Brake levers	Hayes Hydraulic, front and rear				
Crankset	Shimano Deore XT 4 arm 42/32/22				
Bottom bracket	Shimano BB-UN72				
Pedals	ICON clipless				
Cassette	Shimano XT 11-30				
Chain	Sachs PC-51				
Front hub	Hayes Disc				
Front tire	Bontrager Revolt SS, folding				
Rear hub	Hayes Disc				
Rear tire	Bontrager Revolt SS, folding				
Tubes	Presta valve, ultra light				
Front Rim	541 E.R.D., Velox 22mm rim strip				
Rear Rim	541 E.R.D., Velox 22mm rim strip				
Spokes	32 spoke 3x Front, 32 spoke 3x Rear				
Saddle	DT 14/15G butted stainless, alloy nips				
Seatpost	Bontrager FS+10 Race Lite, Titanium/leather				
Seat binder	27.2mm diameter				
Additionals	Alloy w/integral bolt				
Colors	2 water bottle mounts (1 on 13")				
	Team Yellow/Video Blue • Blue decal				
Frame sizes	13 16.5 18 19.5 21				
Handlebar width	580 580 580 580 580				
Stem length	90 105 120 120 135				
Crank length	170 175 175 175 175				
Seatpost length	250 350 350 350 350				
Steerer, mm	168 168 183 203 223				
Fork Length	415mm 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	617 660 692 704 731			
	Chainstays	424 424 424 424 424			
	BB height	288 291 293 295 297			
	Offset	42 42 42 42 42			
	Trail	71 71 71 71 71			
	Wheelbase	1015 1042 1057 1070 1080			
IN	Standover	26.02 28.11 29.21 30.47 31.69			
	Seat tube	12.99 16.50 17.99 19.49 20.98			
	Head tube	3.54 3.54 4.13 4.92 5.71			
	Eff top tube	21.10 22.28 22.99 23.46 24.02			
	Reach	24.29 26.00 27.24 27.71 28.79			
	Chainstays	16.69 16.69 16.69 16.69 16.69			
	BB height	11.34 11.46 11.54 11.61 11.69			
	Offset	1.65 1.65 1.65 1.65 1.65			
	Trail	2.80 2.80 2.80 2.80 2.80			
	Wheelbase	39.96 41.02 41.61 42.13 42.52			

OUR PRICE: \$

Main tubes	Butted 6013 T6 aluminum	22 32 42			
Stays	6061 T6 aluminum				
Fork	Manitou SX-R, TPC				
Headset	Dia-Compe SA Aheadset, alloy				
Handlebars	ICON 2014, 7° bend				
Stem	ICON forged alloy direct connect				
Bar ends	ICON Fatty				
Grips	Trek Dual Density				
Shifters	Shimano Deore XT RapidFire SL				
Front derailleur	Shimano Deore XT Top Swing				
Rear derailleur	Shimano XTR Rapid Rise				
Brakes	Shimano Deore XT V				
Brake levers	Shimano Deore XT V				
Crankset	Shimano Deore XT 4 arm 42/32/22				
Bottom bracket	Shimano BB-UN52				
Pedals	ICON clipless				
Cassette	Shimano HG60-1 11-30				
Chain	Sachs PC-41				
Front hub	Shimano Deore XT				
Front tire	Bontrager Revolt ST, folding				
Rear hub	Shimano Deore XT				
Rear tire	Bontrager Revolt ST, folding				
Tubes	Presta valve, ultra light				
Front Rim	Bontrager Mustang				
Rear Rim	Bontrager Mustang ASYM				
Spokes	DT 14/15G butted stainless, alloy nips				
Saddle	Bontrager FS+10 Race, Cro-Moly/leather				
Seatpost	ICON 2, 2014 Al				
Seat binder	Alloy w/integral bolt				
Additionals	2 water bottle mounts (1 on 13")				
Colors	Blaze Red/Mango • Mango decal				
Frame sizes	13 16.5 18 19.5 21				
Handlebar width	580 580 580 580 580				
Stem length	90 105 120 120 135				
Crank length	170 175 175 175 175				
Seatpost length	250 350 350 350 350				
Steerer, mm	168 168 183 203 223				
Fork Length	415mm 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	617 660 692 704 731			
	Chainstays	424 424 424 424 424			
	BB height	288 291 293 295 297			
	Offset	42 42 42 42 42			
	Trail	71 71 71 71 71			
	Wheelbase	1015 1042 1057 1070 1080			
IN	Standover	26.02 28.11 29.21 30.47 31.69			
	Seat tube	12.99 16.50 17.99 19.49 20.98			
	Head tube	3.54 3.54 4.13 4.92 5.71			
	Eff top tube	21.10 22.28 22.99 23.46 24.02			
	Reach	24.29 26.00 27.24 27.71 28.79			
	Chainstays	16.69 16.69 16.69 16.69 16.69			
	BB height	11.34 11.46 11.54 11.61 11.69			
	Offset	1.65 1.65 1.65 1.65 1.65			
	Trail	2.80 2.80 2.80 2.80 2.80			
	Wheelbase	39.96 41.02 41.61 42.13 42.52			

8500

OUR PRICE: \$

Main tubes	Butted 6013 T6 aluminum	22 32 42
Stays	6061 T6 aluminum	
Fork	Manitou SX, TPC	
Headset	Dia-Compe SA Aheadset, alloy	
Handlebars	ICON Downhill, 7° bend, 30mm rise	
Stem	ICON forged alloy direct connect	
Bar ends	ICON Fatty	
Grips	Trek Dual Density	
Shifters	Shimano Deore XT RapidFire SL	
Front derailleur	Shimano Deore XT Top Swing	
Rear derailleur	Shimano XTR Rapid Rise	
Brakes	Avid Single Digit 20 direct pull	
Brake levers	Avid Speed Dial-1.9 L long pull	
Crankset	Shimano Deore LX 4 arm 42/32/22	
Bottom bracket	Shimano BB-UN52	
Pedals	ICON clipless	
Cassette	Shimano HG60-1 11-30	
Chain	Sachs PC-41	
Front hub	Shimano Deore LX	
Front tire	Bontrager Revolt ST, folding	
Rear hub	Shimano Deore LX	
Rear tire	Bontrager Revolt ST, folding	
Tubes	Presta valve, ultra light	
Front Rim	Bontrager Mustang	
Rear Rim	Bontrager Mustang ASYM	
Spokes	DT 14/15G butted stainless, alloy nips	
Saddle	Bontrager Comp +10	
Seatpost	ICON 2, 2014 Al	
Seat binder	Alloy w/integral bolt	
Additionals	2 water bottle mounts (1 on 13")	
Colors	Trek Red/Silver • Black decal	
Frame sizes	13 16.5 18 19.5 21	
Handlebar width	620 620 620 620 620	
Stem length	90 105 120 120 135	
Crank length	170 175 175 175 175	
Seatpost length	250 350 350 350 350	
Steerer, mm	168 168 183 203 223	
Fork Length	415mm 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	617 660 692 704 731
	Chainstays	424 424 424 424 424
	BB height	288 291 293 295 297
	Offset	42 42 42 42 42
	Trail	71 71 71 71 71
	Wheelbase	1015 1042 1057 1070 1080
IN	Standover	26.02 28.11 29.21 30.47 31.69
	Seat tube	12.99 16.50 17.99 19.49 20.98
	Head tube	3.54 3.54 4.13 4.92 5.71
	Eff top tube	21.10 22.28 22.99 23.46 24.02
	Reach	24.29 26.00 27.24 27.71 28.79
	Chainstays	16.69 16.69 16.69 16.69 16.69
	BB height	11.34 11.46 11.54 11.61 11.69
	Offset	1.65 1.65 1.65 1.65 1.65
	Trail	2.80 2.80 2.80 2.80 2.80
	Wheelbase	39.96 41.02 41.61 42.13 42.52

OUR PRICE: \$

Main tubes	Butted 6013 T6 aluminum	22 32 42
Stays	6061 T6 aluminum	
Fork	RockShox Judy T2	
Headset	Dia-Compe SA Aheadset, alloy	
Handlebars	ICON 2014, 7° bend	
Stem	ICON forged alloy direct connect	
Bar ends	ICON Fatty	
Grips	Trek Dual Density	
Shifters	Shimano Deore XT RapidFire+	
Front derailleur	Shimano Deore LX Top Swing	
Rear derailleur	Shimano Deore XT SGS	
Brakes	Shimano M600 V	
Brake levers	Avid Speed Dial-1.9 L long pull	
Crankset	Shimano Deore LX 4 arm 42/32/22	
Bottom bracket	Shimano BB-UN52	
Pedals	ICON clipless	
Cassette	Shimano HG60-1 11-30	
Chain	Sachs PC-41	
Front hub	Shimano Deore LX	
Front tire	Bontrager Revolt ST, folding	
Rear hub	Shimano Deore LX	
Rear tire	Bontrager Revolt ST, folding	
Tubes	Presta valve	
Front Rim	Bontrager Maverick	
Rear Rim	Bontrager Maverick ASYM	
Spokes	DT 14/15G butted stainless	
Saddle	Bontrager Comp +10, Cro-Moly rails	
Seatpost	ICON 2, 2014 Al	
Seat binder	Alloy w/integral bolt	
Additionals	2 water bottle mounts (1 on 13")	
Colors	Metallic Blue/Black • Blue decal Team Yellow/Black • Blue decal	
Frame sizes	13 16.5 18 19.5 21	
Handlebar width	580 580 580 580 580	
Stem length	90 105 120 120 135	
Crank length	170 175 175 175 175	
Seatpost length	250 350 350 350 350	
Steerer, mm	168 168 183 203 223	
Fork Length	415mm 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	617 660 692 704 731
	Chainstays	424 424 424 424 424
	BB height	288 291 293 295 297
	Offset	42 42 42 42 42
	Trail	71 71 71 71 71
	Wheelbase	1015 1042 1057 1070 1080
IN	Standover	26.02 28.11 29.21 30.47 31.69
	Seat tube	12.99 16.50 17.99 19.49 20.98
	Head tube	3.54 3.54 4.13 4.92 5.71
	Eff top tube	21.10 22.28 22.99 23.46 24.02
	Reach	24.29 26.00 27.24 27.71 28.79
	Chainstays	16.69 16.69 16.69 16.69 16.69
	BB height	11.34 11.46 11.54 11.61 11.69
	Offset	1.65 1.65 1.65 1.65 1.65
	Trail	2.80 2.80 2.80 2.80 2.80
	Wheelbase	39.96 41.02 41.61 42.13 42.52

7000

OUR PRICE: \$

Main tubes	6013 T6 aluminum	22 32 42
Stays	6061 T6 aluminum	
Fork	RockShox Indy XC	
Headset	Dia-Compe ST Aheadset	
Handlebars	ICON 2014, 7° bend	
Stem	System 1 forged alloy direct connect	
Bar ends	System 1	
Grips	Trek Dual Density	
Shifters	Shimano STX-RC RapidFire+	
Front derailleur	Shimano STX Top Swing	
Rear derailleur	Shimano Deore XT SGS	
Brakes	Avid Single Digit 10 direct pull	
Brake levers	Avid AD-1.0 L long pull	
Crankset	Shimano STX-RC 4 arm 42/32/22	
Bottom bracket	Shimano BB-UN52	
Pedals	ICON clipless	
Cassette	Shimano HG60-1 11-30	
Chain	Sachs PC-21	
Front hub	Shimano STX-RC	
Front tire	IRC Mythos	26 x 2.1
Rear hub	Shimano STX-RC	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.
Rear tire	IRC Mythos	26 x 2.1
Tubes	Presta valve	
Front Rim	Matrix Swami	546 E.R.D., Velox 19mm rim strip
Rear Rim	Matrix Swami RDR	542 E.R.D., Velox 22mm rim strip
Spokes	DT 14G stainless	32 spoke Radial Front, 32 spoke 3x Rear
Saddle	Bontrager Comp +10	256, 263/264 (D/ND)
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 13")	
Colors	Metallized Yellow/Black fork • Black decal	
	Gloss Black/Black • Silver decal	
Frame sizes	13 16.5 18 19.5 21	
Handlebar width	580 580 580 580 580	
Stem length	90 105 120 135	
Crank length	170 175 175 175	
Seatpost length	300 350 350 350	
Steerer, mm	167 167 182 202 222	
Fork Length	415mm 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 Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	661 714 742 774 805 330 419 457 495 533 90 90 105 125 145 536 566 584 596 610 611 653 683 695 722 424 424 424 424 424 288 291 293 295 297 42 42 42 42 42 71 71 71 71 71 1015 1042 1057 1070 1080
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	26.02 28.11 29.21 30.47 31.69 12.99 16.50 17.99 19.49 20.98 3.54 3.54 4.13 4.92 5.71 21.10 22.28 22.99 23.46 24.02 24.04 25.71 26.91 27.38 28.42 16.69 16.69 16.69 16.69 16.69 11.34 11.46 11.54 11.61 11.69 1.65 1.65 1.65 1.65 1.65 2.80 2.80 2.80 2.80 2.80 39.96 41.02 41.61 42.13 42.52

OUR PRICE: \$

Main tubes	6013 T6 aluminum	24 34 42
Stays	6061 T6 aluminum	
Fork	RockShox Indy C	63mm travel
Headset	Dia-Compe ST Aheadset	25.4/34.0/30.0, 25.0mm stack
Handlebars	System 1, 6° bend alloy	25.4mm clamp diameter
Stem	System 1 forged alloy direct connect	41.0mm steerer clamp height
Bar ends	-	
Grips	Trek Dual Density	
Shifters	Shimano STX-RC RapidFire+	
Front derailleur	Shimano Alivio Top Swing	Top pull, 34.9mm/1 3/8"
Rear derailleur	Shimano Deore LX SGS	
Brakes	Dia-Compe 737 direct pull	
Brake levers	Dia-Compe DP7N direct pull	
Crankset	Sugino Impel 250 42/34/24	
Bottom bracket	Shimano BB-LP27	Riveted
Pedals	Resin/alloy cage w/clips and straps	73 x 113
Cassette	SR PF35C 11-28	9/16" axle
Chain	Sachs PC-21	8spd
Front hub	Shimano STX-RC	106 length, 3/32"
Front tire	IRC Mythos	26 x 2.1
Rear hub	Shimano STX-RC	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.
Rear tire	IRC Mythos	26 x 2.1
Tubes	Presta valve	
Front Rim	Matrix Swami	546 E.R.D., Velox 19mm rim strip
Rear Rim	Matrix Swami RDR	542 E.R.D., Velox 22mm rim strip
Spokes	DT 14G stainless	32 spoke Radial Front, 32 spoke 3x Rear
Saddle	Bontrager Comp +10	256, 263/264 (D/ND)
Seatpost	Alloy micro-adjust	27.2mm diameter
Seat binder	Alloy w/integral bolt	35.0 clamp diameter
Additionals	2 water bottle mounts (1 on 13")	
Colors	Ice Earth Green/Black • Silver decal	
	Pearl Navy/Black • Silver decal	
Frame sizes	13 16.5 18 19.5 21	
Handlebar width	580 580 580 580 580	
Stem length	90 105 120 135	
Crank length	170 175 175 175	
Seatpost length	300 350 350 350	
Steerer, mm	167 167 182 202 222	
Fork Length	415mm 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 Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	661 714 742 774 805 330 419 457 495 533 90 90 105 125 145 536 566 584 584 610 611 653 683 695 722 424 424 424 424 424 288 291 293 295 297 42 42 42 42 42 71 71 71 71 71 1015 1042 1057 1070 1080
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	26.02 28.11 29.21 30.47 31.69 12.99 16.50 17.99 19.49 20.98 3.54 3.54 4.13 4.92 5.71 21.10 22.28 22.99 23.46 24.02 24.04 25.71 26.91 27.38 28.42 16.69 16.69 16.69 16.69 16.69 11.34 11.46 11.54 11.61 11.69 1.65 1.65 1.65 1.65 1.65 2.80 2.80 2.80 2.80 2.80 39.96 41.02 41.61 42.13 42.52

6500

OUR PRICE: \$

Main tubes	7005 T6 TIG aluminum	24 34 42	
Stays	7005 T6 TIG aluminum		
Fork	RockShox Indy S		
Headset	Dia-Compe ST Aheadset		
Handlebars	System 1, 6° bend alloy		
Stem	System 1 forged alloy direct connect		
Bar ends	-		
Grips	Trek Comfort		
Shifters	Shimano STX RapidFire+		
Front derailleur	Shimano Alivio Top Swing		
Rear derailleur	Shimano STX SGS		
Brakes	Lee Chi TX22 direct pull		
Brake levers	Lee Chi LV77E direct pull		
Crankset	Sugino Impel 250 42/34/24		
Bottom bracket	Shimano BB-LP27		
Pedals	Platform w/clips and straps		
Cassette	Shimano HG50C 11-28		
Chain	Sachs PC-21		
Front hub	System 1, suspension axle		
Front tire	IRC Mythos	26 x 2.1	
Rear hub	Shimano Alivio	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	
Rear tire	IRC Mythos	26 x 2.1	
Tubes	Schraeder valve		
Front Rim	Weinmann 519 alloy	548 E.R.D., Velox 22mm rim strip	
Rear Rim	Weinmann 519 alloy	548 E.R.D., Velox 22mm rim strip	
Spokes	DT 14G stainless	32 spoke 3x Front, 32 spoke 3x Rear	
Saddle	Trek Dual density, Trek logo	268, 266/267 (D/ND)	
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/QR, 60mm	31.9 clamp diameter	
Additionals	2 water bottle mounts, rack mounts (1 bottle/no rack on 13")		
Colors	Ice Roja/Black • Silver decal		
Frame sizes	13 16.5 18 19.5 21 22.5		
Handlebar width	580 580 580 580 580 580		
Stem length	90 105 105 120 135 135		
Crank length	170 170 175 175 175 175		
Seatpost length	300 300 350 350 350 350		
Steerer, mm	167 167 182 202 222 262		
Fork Length	415mm 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	
	Seat tube	330 419 457 495 533 572	
	Head tube	90 90 105 125 145 185	
	Eff top tube	530 560 579 589 600 610	
	Reach	604 647 666 688 712 722	
	Chainstays	430 430 430 430 430 430	
	BB height	288 295 298 298 298 300	
	Offset	38 38 38 38 38 38	
	Trail	79 75 75 75 75 75	
	Wheelbase	1016 1039 1055 1066 1078 1084	
IN	Standover	25.59 28.03 29.17 30.39 31.57 33.03	
	Seat tube	12.99 16.50 17.99 19.49 20.98 22.52	
	Head tube	3.54 3.54 4.13 4.92 5.71 7.28	
	Eff top tube	20.87 22.05 22.80 23.19 23.62 24.02	
	Reach	23.79 25.47 26.22 27.11 28.03 28.42	
	Chainstays	16.93 16.93 16.93 16.93 16.93 16.93	
	BB height	11.34 11.61 11.73 11.73 11.73 11.81	
	Offset	1.50 1.50 1.50 1.50 1.50 1.50	
	Trail	3.09 2.97 2.97 2.97 2.97 2.97	
	Wheelbase	40.00 40.91 41.54 41.97 42.44 42.68	

OUR PRICE: \$

Main tubes	7005 T6 TIG aluminum	24 34 42	
Stays	7005 T6 TIG aluminum		
Fork	Cro-Moly		
Headset	VP H913W	25.4/34.0/30.0, 35.0mm stack	
Handlebars	System 1, 10° bend alloy, 65mm rise	25.4mm clamp diameter	
Stem	Girvin Flexstem	25.4mm insertion	
Bar ends	-		
Grips	Trek Comfort		
Shifters	GripShift SRT-4.0		
Front derailleur	Shimano Alivio Top Swing		
Rear derailleur	Shimano STX SGS	Top pull, 34.9mm/1 3/8"	
Brakes	Shimano Nexus V		
Brake levers	Shimano Nexus		
Crankset	Sugino Impel 250 42/34/24		
Bottom bracket	Shimano BB-LP27		
Pedals	Platform	Riveted	
Cassette	Shimano HG50C 11-28	73 x 113	
Chain	Sachs PC-21	9/16" axle	
Front hub	System 1, suspension axle	7spd	
Front tire	C1100 Smoothie	106 length, 3/32"	
Rear hub	Shimano Alivio	26 x 1.9	
Rear tire	C1100 Smoothie	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	
Tubes	Schraeder valve	26 x 1.9	
Front Rim	Weinmann 519 alloy	548 E.R.D., Velox 22mm rim strip	
Rear Rim	Weinmann 519 alloy	548 E.R.D., Velox 22mm rim strip	
Spokes	DT 14G stainless	32 spoke 3x Front, 32 spoke 3x Rear	
Saddle	Trek	268, 266/267 (D/ND)	
Seatpost	Polygon shock absorber	27.2mm diameter	
Seat binder	Alloy w/QR, 60mm	31.9 clamp diameter	
Additionals	2 water bottle mounts, kickstand, rack mounts (1 bottle/no rack on 13")		
Colors	Ice Earth Green/Ice Inkwell fade • Dark Silver decal		
Frame sizes	13 16.5 18 19.5 21 22.5		
Handlebar width	580 580 580 580 580 580		
Stem length	100 100 100 100 100 100		
Crank length	170 175 175 175 175 175		
Seatpost length	350 350 350 350 350 350		
Steerer, mm	127 127 142 162 182 222		
Fork Length	415mm 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	
	Seat tube	330 419 457 495 533 572	
	Head tube	90 90 105 125 145 185	
	Eff top tube	530 560 579 589 600 610	
	Reach	595 626 645 668 679 689	
	Chainstays	430 430 430 430 430 430	
	BB height	288 295 298 298 298 300	
	Offset	38 38 38 38 38 38	
	Trail	79 75 75 75 75 75	
	Wheelbase	1016 1039 1055 1066 1078 1084	
IN	Standover	25.59 28.03 29.17 30.39 31.57 33.03	
	Seat tube	12.99 16.50 17.99 19.49 20.98 22.52	
	Head tube	3.54 3.54 4.13 4.92 5.71 7.28	
	Eff top tube	20.87 22.05 22.80 23.19 23.62 24.02	
	Reach	23.42 24.63 25.38 26.29 26.72 27.12	
	Chainstays	16.93 16.93 16.93 16.93 16.93 16.93	
	BB height	11.34 11.61 11.73 11.73 11.73 11.81	
	Offset	1.50 1.50 1.50 1.50 1.50 1.50	
	Trail	3.09 2.97 2.97 2.97 2.97 2.97	
	Wheelbase	40.00 40.91 41.54 41.97 42.44 42.68	

OUR PRICE: \$

Main tubes	True Temper triple butted Cro-Moly				
Stays	Cro-Moly steel				
Fork	Manitou Spyder	70mm travel			
Headset	Dia-Compe ST Aheadset	25.4/34.0/30.0, 25.0mm stack			
Handlebars	System 1, 6° bend alloy	25.4mm clamp diameter			
Stem	System 2 forged alloy direct connect	41.0mm steerer clamp height			
Bar ends	System 1				
Grips	Trek Dual Density				
Shifters	Shimano STX-RC RapidFire+				
Front derailleur	Shimano STX Top Swing	Top pull, 31.8mm/1 1/4"			
Rear derailleur	Shimano Deore XT SGS				
Brakes	Shimano M600 V				
Brake levers	Avid Speed Dial-1.9 L long pull				
Crankset	Sugino Impel 300 42/32/20	58/94mm bolt hole circle			
Bottom bracket	Shimano BB-UN52	73 x 113			
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle			
Cassette	Shimano HG60-1 11-30	8spd			
Chain	Sachs PC-41	106 length, 3/32"			
Front hub	System 1, suspension axle				
Front tire	IRC Mythos	26 x 2.1			
Rear hub	Shimano STX-RC	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.			
Rear tire	IRC Mythos	26 x 2.1			
Tubes	Presta valve				
Front Rim	Matrix Guru, eyeleted	546 E.R.D., Cloth rim strip			
Rear Rim	Matrix Guru RDR, eyeleted	542 E.R.D., Cloth rim strip			
Spokes	DT 14G stainless	32 spoke 3x Front, 32 spoke 3x Rear			
Saddle	Velo Crossbow, Women's on 13	268, 263/264 (D/ND)			
Seatpost	Alloy micro-adjust	27.2mm diameter			
Seat binder	Quick release, 47mm				
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")				
Colors	Ice RC Blue/Silver • Black decal				
Frame sizes	13 16.5 18 19.5 21 22.5				
Handlebar width	580 580 580 580 580 580				
Stem length	90 105 105 120 120 135				
Crank length	170 170 175 175 175 175				
Seatpost length	300 300 350 350 350 350				
Steerer, mm	167 167 167 182 222 257				
Fork Length	415mm 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 Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	647 709 735 764 801 838 330 419 457 495 533 572 90 90 90 105 145 185 530 560 580 590 600 610 612 652 672 695 705 728 430 430 430 430 430 430 288 295 298 298 298 300 38 38 38 38 38 38 79 75 75 75 75 75 1016 1039 1056 1066 1078 1084			
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	25.47 27.91 28.94 30.08 31.54 32.99 12.99 16.50 17.99 19.49 20.98 22.52 3.54 3.54 3.54 4.13 5.71 7.28 20.87 22.05 22.83 23.23 23.62 24.02 24.09 25.66 26.45 27.36 27.75 28.66 16.93 16.93 16.93 16.93 16.93 16.93 11.34 11.61 11.73 11.73 11.73 11.81 1.50 1.50 1.50 1.50 1.50 1.50 3.09 2.97 2.97 2.97 2.97 2.97 40.00 40.91 41.57 41.97 42.44 42.68			

OUR PRICE: \$

Main tubes	True Temper triple butted Cro-Moly				
Stays	Cro-Moly steel				
Fork	RockShox Indy S	50mm travel			
Headset	Dia-Compe ST Aheadset	25.4/34.0/30.0, 25.0mm stack			
Handlebars	System 1, 6° bend alloy	25.4mm clamp diameter			
Stem	System 1 forged alloy direct connect	41.0mm steerer clamp height			
Bar ends	-				
Grips	Trek Dual Density				
Shifters	GripShift ESP-700				
Front derailleur	Shimano Alivio Top Swing	Top pull, 31.8mm/1 1/4"			
Rear derailleur	GripShift ESP 7.0				
Brakes	Lee Chi TX22 direct pull				
Brake levers	Lee Chi LV77E direct pull				
Crankset	Sugino Impel 250 42/34/24	Riveted			
Bottom bracket	Shimano BB-LP27	73 x 113			
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle			
Cassette	SR PF35C 11-28	8spd			
Chain	Sachs PC-21	106 length, 3/32"			
Front hub	System 1, suspension axle				
Front tire	IRC Mythos	26 x 2.1			
Rear hub	Quick release cassette	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.			
Rear tire	IRC Mythos	26 x 2.1			
Tubes	Presta valve				
Front Rim	Matrix Guru	546 E.R.D., Cloth rim strip			
Rear Rim	Matrix Guru RDR	542 E.R.D., Cloth rim strip			
Spokes	14G stainless	32 spoke 3x Front, 32 spoke 3x Rear			
Saddle	Velo Crossbow, Women's on 13	268, 263/264 (D/ND)			
Seatpost	Alloy micro-adjust	27.2mm diameter			
Seat binder	Quick release, 47mm				
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")				
Colors	Metallized Green/Black • Red decal Black/Black • Red decal				
Frame sizes	13 16.5 18 19.5 21 22.5				
Handlebar width	580 580 580 580 580 580				
Stem length	90 105 105 120 120 135				
Crank length	170 170 175 175 175 175				
Seatpost length	300 300 350 350 350 350				
Steerer, mm	167 167 167 182 222 257				
Fork Length	415mm 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 Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	647 709 735 764 801 838 330 419 457 495 533 572 90 90 90 105 145 185 530 560 580 590 600 610 604 647 667 689 699 722 430 430 430 430 430 430 288 295 298 298 298 300 38 38 38 38 38 38 79 75 75 75 75 75 1016 1039 1056 1066 1078 1084			
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	25.47 27.91 28.94 30.08 31.54 32.99 12.99 16.50 17.99 19.49 20.98 22.52 3.54 3.54 3.54 4.13 5.71 7.28 20.87 22.05 22.83 23.23 23.62 24.02 23.79 25.47 26.26 27.15 27.54 28.42 16.93 16.93 16.93 16.93 16.93 16.93 11.34 11.61 11.73 11.73 11.73 11.81 1.50 1.50 1.50 1.50 1.50 1.50 3.09 2.97 2.97 2.97 2.97 2.97 40.00 40.91 41.57 41.97 42.44 42.68			

OUR PRICE: \$

Main tubes	True Temper triple butted Cro-Moly	24 34 42
Stays	Cro-Moly steel	11 57 81 100
Fork	Cro-Moly, taper gauge	12 52 74 92
Headset	VP H97W, sealed	14 45 64 79
Handlebars	System 1, 6° bend alloy	16 39 56 69
Stem	ATB, removable front	18 35 50 61
Bar ends	-	21 30 42 52
Grips	Trek Dual Density	24 26 37 46
Shifters	GripShift SRT-6.0	28 22 32 39
Front derailleur	Shimano Acera-X	
Rear derailleur	Shimano STX-RC SGS	
Brakes	Lee Chi TX22 direct pull	
Brake levers	Lee Chi LV77E direct pull	
Crankset	Sugino Impel 250 42/34/24	
Bottom bracket	Shimano BB-LP27	
Pedals	Riveted	
Cassette	73 x 113	
Chain	Resin w/clips and straps	
Front hub	9/16" axle	
Front tire	SR PF35C 11-28	
Rear hub	8spd	
Rear tire	Sachs PC-21	
Tubes	106 length, 3/32"	
Front Rim	System 1, suspension axle	
Rear Rim	IRC Mythos	
Spokes	26 x 2.1	
Saddle	Quick release cassette	
Seatpost	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.	
Seat binder	IRC Mythos	
Additionals	26 x 2.1	
Colors		
	Velo Crossbow, Women's on 13	
	Alloy micro-adjust	
	27.2mm diameter	
	Quick release, 47mm	
	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")	
	Ice Inkwell • Silver decal	
	Bright Silver • Mango decal	
Frame sizes	13 16.5 18 19.5 21 22.5 24	
Handlebar width	580 580 580 580 580 580	
Stem length	90 105 105 120 120 135 135	
Crank length	170 170 175 175 175 175	
Seatpost length	300 300 350 350 350 350	
Steerer, mm	128 128 128 143 183 223 263	
Fork Length	415mm axle-crown race	
Head angle	70.5 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 72.5	
MM	Standover	647 709 735 764 801 838 875
	Seat tube	330 419 457 495 533 572 609
	Head tube	90 90 90 105 145 185 225
	Eff top tube	530 560 580 590 600 610 620
	Reach	595 637 657 678 688 709 719
	Chainstays	430 430 430 430 430 430
	BB height	288 295 298 298 300 300
	Offset	38 38 38 38 38 38
	Trail	79 75 75 75 75 75
	Wheelbase	1016 1039 1056 1066 1078 1084 1095
IN	Standover	25.47 27.91 28.94 30.08 31.54 32.99 34.45
	Seat tube	12.99 16.50 17.99 19.49 20.98 22.52 23.98
	Head tube	3.54 3.54 3.54 4.13 5.71 7.28 8.86
	Eff top tube	20.87 22.05 22.83 23.23 23.62 24.02 24.41
	Reach	23.44 25.07 25.86 26.68 27.08 27.90 28.30
	Chainstays	16.93 16.93 16.93 16.93 16.93 16.93
	BB height	11.34 11.61 11.73 11.73 11.81 11.81
	Offset	1.50 1.50 1.50 1.50 1.50 1.50
	Trail	3.09 2.97 2.97 2.97 2.97 2.97
	Wheelbase	40.00 40.91 41.57 41.97 42.44 42.68 43.11

OUR PRICE: \$

Main tubes	Cro-Moly steel	24 34 42
Stays	High tensile steel	11 57 81 100
Fork	Cro-Moly	13 48 69 85
Headset	VP H97W, sealed	15 42 59 73
Handlebars	Steel, 60mm rise	18 35 50 61
Stem	Girvin suspension stem	21 30 42 52
Bar ends	-	24 26 37 46
Grips	Trek Comfort	28 22 32 39
Shifters	GripShift MRX-170	
Front derailleur	Shimano Altus CT92E	
Rear derailleur	Shimano Alivio	Down pull, Plate style, 31.8
Brakes	Lee Chi TX22 direct pull	
Brake levers	Lee Chi LV77E direct pull	
Crankset	Shimano Altus CT92 42/34/24 w/chainguard, Riveted	
Bottom bracket	Shimano BB-CT91E	
Pedals	Resin	
Cassette	Shimano HG50C 11-28	
Chain	Sachs PC-10	
Front hub	Forged alloy suspension	
Front tire	Smooth	
Rear hub	Shimano Altus	
Rear tire	Smooth	
Tubes	Schraeder valve	
Front Rim	Weinmann 519 alloy	
Rear Rim	Weinmann 519 alloy	
Spokes	14G stainless	
Saddle	Spring	
Seatpost	SP57 shock absorber	
Seat binder	Quick release, 47mm	
Additionals	2 water bottle mounts, kickstand, rack mounts (1 bottle, no rack on 13")	
Colors	Ice Green • Silver decal	
Frame sizes	13 16.5 18 19.5 21 22.5 24	
Handlebar width	580 580 580 610 610 610 580	
Stem length	100 100 100 100 100 120 100	
Crank length	170 170 170 170 170 170 170	
Seatpost length	300 300 350 350 350 350 350	
Steerer, mm	127 127 127 142 182 222 127	
Fork Length	385mm axle-crown race	
Head angle	70.0 70.5 70.5 70.5 71.0 71.0 70.0	
Seat angle	74.0 73.5 73.0 73.0 72.5 72.0 73.5	
MM	Standover	638 698 722 752 789 826 862
	Seat tube	330 419 457 495 533 572 610
	Head tube	90 90 90 105 145 185 225
	Eff top tube	528 545 555 565 575 585 595
	Reach	592 610 620 630 641 664 674
	Chainstays	435 435 435 435 435 435 435
	BB height	288 291 291 293 293 295 288
	Offset	38 38 38 38 38 38 38
	Trail	82 79 79 79 75 75 82
	Wheelbase	1021 1030 1036 1047 1050 1056 1067
IN	Standover	25.12 27.48 28.43 29.61 31.06 32.52 33.94
	Seat tube	12.99 16.50 17.99 19.49 20.98 22.52 24.02
	Head tube	3.54 3.54 3.54 4.13 5.71 7.28 8.86
	Eff top tube	20.79 21.46 21.85 22.24 22.64 23.03 23.43
	Reach	23.32 24.01 24.41 24.80 25.22 26.13 26.52
	Chainstays	17.13 17.13 17.13 17.13 17.13 17.13 17.13
	BB height	11.34 11.46 11.46 11.54 11.54 11.61 11.61
	Offset	1.50 1.50 1.50 1.50 1.50 1.50 1.50
	Trail	3.22 3.09 3.09 3.09 2.97 2.97 3.22
	Wheelbase	40.20 40.55 40.79 41.22 41.34 41.57 40.28

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

29.3 lb.

13.30kg

820 SHX

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	Cro-Moly steel	High tensile steel	RockShox Indy S	VP H97W, sealed	System 1, 6° bend alloy	ATB	24 34 42
Main tubes	Cro-Moly steel	High tensile steel	RockShox Indy S	VP H97W, sealed	System 1, 6° bend alloy	ATB	11 57 81 100
Stays	High tensile steel	RockShox Indy S	VP H97W, sealed	System 1, 6° bend alloy	ATB	-	13 48 69 85
Fork	RockShox Indy S	VP H97W, sealed	System 1, 6° bend alloy	ATB	-	-	15 42 59 73
Headset	VP H97W, sealed	System 1, 6° bend alloy	ATB	-	-	-	18 35 50 61
Handlebars	System 1, 6° bend alloy	ATB	-	-	-	-	21 30 42 52
Stem	ATB	-	-	-	-	-	24 26 37 46
Bar ends	-	-	-	-	-	-	28 22 32 39
Grips	Trek Comfort	GripShift MRX-170	Shimano Altus CT92	Shimano Altivio	-	-	-
Shifters	GripShift MRX-170	Shimano Altus CT92	Shimano Altivio	-	-	-	-
Front derailleur	Shimano Altus CT92	Shimano Altivio	-	-	-	-	-
Rear derailleur	Shimano Altivio	-	-	-	-	-	-
Brakes	Lee Chi TX22 direct pull	Lee Chi LV77E direct pull	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	-	-	-
Brake levers	Lee Chi TX22 direct pull	Lee Chi LV77E direct pull	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	-	-	-
Crankset	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	Resin	Shimano HG50C 11-28	Sachs PC-10	Forged alloy suspension	Riveted
Bottom bracket	Shimano BB-CT91E	Resin	Shimano HG50C 11-28	Sachs PC-10	Trek Connection	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	68 x 116
Pedals	Resin	Shimano HG50C 11-28	Sachs PC-10	Trek Connection	Shimano Altus	26 x 1.95	9/16" axle
Cassette	Shimano HG50C 11-28	Sachs PC-10	Trek Connection	Shimano Altus	26 x 1.95	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	7spd
Chain	Sachs PC-10	Trek Connection	Shimano Altus	26 x 1.95	Schraeder valve	26 x 1.95	106 length, 3/32"
Front hub	Forged alloy suspension	Shimano Altus	26 x 1.95	Weinmann 519 alloy	Weinmann 519 alloy	548 E.R.D., Rubber rim strip	548 E.R.D., Rubber rim strip
Front tire	Trek Kahuna	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.	26 x 1.95	Weinmann 519 alloy	Weinmann 519 alloy	548 E.R.D., Rubber rim strip	36 spoke 3x Front, 36 spoke 3x Rear
Rear hub	Shimano Altus	26 x 1.95	264, 262/263 (D/ND)	Weinmann 519 alloy	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear	264, 262/263 (D/ND)
Rear tire	Trek Kahuna	26 x 1.95	Dual Density, Women's on 13, 17W, 20W	14G stainless	-	264, 262/263 (D/ND)	27.2mm diameter
Tubes	Schraeder valve	27.2mm diameter	Alloy micro-adjust	-	-	-	-
Front Rim	Weinmann 519 alloy	Quick release, 47mm	Quick release, 47mm	-	-	-	-
Rear Rim	Weinmann 519 alloy	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")	2 water bottle mounts, rack mounts (1 bottle on 13, 17W, 20W, no rack on 13")	-	-	-	-
Spokes	14G stainless	Ice Red/Ice Orange fade • Black decal	Ice Red/Ice Orange fade • Black decal	-	-	-	-
Saddle	Dual Density, Women's on 13	-	-	-	-	-	-
Seatpost	Alloy micro-adjust	-	-	-	-	-	-
Seat binder	Quick release, 47mm	-	-	-	-	-	-
Additionals	2 water bottle mounts, rack mounts (1 bottle, no rack on 13")	-	-	-	-	-	-
Colors	Ice Red/Ice Orange fade • Black decal	-	-	-	-	-	-
Frame sizes	13	16.5	18	19.5	21	22.5	24
Handlebar width	580	580	580	580	580	580	580
Stem length	90	105	105	120	120	135	135
Crank length	170	170	170	170	170	170	170
Seatpost length	300	300	350	350	350	350	350
Steerer, mm	127	127	127	142	182	222	262
Fork Length	385mm axle-crown race						
Head angle	70.0	70.5	70.5	70.5	71.0	71.0	71.0
Seat angle	74.0	73.5	73.0	73.0	72.5	72.0	72.0
MM	Standover	638	698	722	752	789	862
	Seat tube	330	419	457	495	533	610
	Head tube	90	90	90	105	145	225
	Eff top tube	528	545	555	565	585	595
	Reach	559	582	592	607	618	643
	Chainstays	435	435	435	435	435	435
	BB height	288	291	291	293	295	295
	Offset	38	38	38	38	38	38
	Trail	82	79	79	75	75	75
	Wheelbase	1021	1030	1036	1047	1050	1067
IN	Standover	25.12	27.48	28.43	29.61	31.06	32.52
	Seat tube	12.99	16.50	17.99	19.49	20.98	22.52
	Head tube	3.54	3.54	3.54	4.13	5.71	7.28
	Eff top tube	20.79	21.46	21.85	22.24	23.03	23.43
	Reach	22.00	22.90	23.30	23.90	24.33	25.33
	Chainstays	17.13	17.13	17.13	17.13	17.13	17.13
	BB height	11.34	11.46	11.46	11.54	11.61	11.61
	Offset	1.50	1.50	1.50	1.50	1.50	1.50
	Trail	3.22	3.09	3.09	2.97	2.97	2.97
	Wheelbase	40.20	40.55	40.79	41.22	41.34	41.57

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	Cro-Moly steel	High tensile steel	Cro-Moly	VP H97W, sealed	System 1, 6° bend alloy	ATB, 50° rise	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	24 34 42
Main tubes	Cro-Moly steel	High tensile steel	Cro-Moly	VP H97W, sealed	System 1, 6° bend alloy	ATB, 50° rise	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	11 57 81 100
Stays	High tensile steel	Cro-Moly	VP H97W, sealed	System 1, 6° bend alloy	ATB, 50° rise	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	13 48 69 85
Fork	Cro-Moly	VP H97W, sealed	System 1, 6° bend alloy	ATB, 50° rise	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	15 42 59 73
Headset	VP H97W, sealed	System 1, 6° bend alloy	ATB, 50° rise	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	18 35 50 61
Handlebars	System 1, 6° bend alloy	ATB, 50° rise	-	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	21 30 42 52
Stem	ATB, 50° rise	-	-	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	24 26 37 46
Bar ends	-	-	-	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	28 22 32 39
Grips	Trek Comfort	GripShift MRX-170	Shimano Altus CT92	Shimano Altivio	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	24 34 42
Shifters	GripShift MRX-170	Shimano Altus CT92	Shimano Altivio	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	11 57 81 100
Front derailleur	Shimano Altus CT92	Shimano Altivio	-	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	13 48 69 85
Rear derailleur	Shimano Altivio	-	-	-	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	15 42 59 73
Brakes	Lee Chi TX22 direct pull	Lee Chi LV77E direct pull	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	18 35 50 61
Brake levers	Lee Chi TX22 direct pull	Lee Chi LV77E direct pull	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	-	-	25.4/34.0/30.0, 35.0mm stack	25.4mm clamp diameter	25.4mm insertion	21 30 42 52
Crankset	Shimano Altus CT92 42/34/24	Shimano BB-CT91E	Resin	Shimano HG50C 11-28	Sachs PC-10	Forged alloy suspension	Riveted	68 x 116	9/16" axle	27.8 lb.
Bottom bracket	Shimano BB-CT91E	Resin	Shimano HG50C 11-28	Sachs PC-10	Trek Connection					

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Main tubes	Hi Tensile steel w/Cro-Moly seat tube	24 34 42
Stays	High tensile steel	11 57 81 100
Fork	High tensile steel	13 48 69 85
Headset	VP H97W, sealed	15 42 59 73
Handlebars	Steel, 5° bend, Women's 60mm rise	18 35 50 61
Stem	ATB	21 30 42 52
Bar ends	-	24 26 37 46
Grips	Trek Comfort	28 22 32 39
Shifters	Shimano EZ Fire+ EF28	
Front derailleur	Shimano Altus CT92	Down pull, Plate style, 31.8
Rear derailleur	Shimano Acera-X	
Brakes	Lee Chi TX33 direct pull	
Brake levers	combi brake/shift	
Crankset	Shimano Altus CT92 42/34/24	Riveted
Bottom bracket	Shimano BB-CT91E	68 x 118
Pedals	Resin	9/16" axle
Cassette	Shimano HG50C 11-28	7spd
Chain	Sachs PC-10	106 length, 3/32"
Front hub	Forged alloy suspension	
Front tire	Trek Connection	26 x 1.95
Rear hub	Shimano Altus	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.
Rear tire	Trek Connection	26 x 1.95
Tubes	Schraeder valve	
Front Rim	Weinmann 519 alloy	548 E.R.D., Rubber rim strip
Rear Rim	Weinmann 519 alloy	548 E.R.D., Rubber rim strip
Spokes	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear 265, 264/265 (D/ND)
Saddle	Dual Density, Women's Dual Density w/springs on 17W, 20W	
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	Mediterranean Blue/Ice Inkwell fade • White decal	
	Bright Silver • Red decal	
Frame sizes	13 16.5 18 19.5 21 22.5 17W 20W	
Handlebar width	580 580 580 580 580 580 610	
Stem length	90 90 110 110 130 130 110	
Crank length	170 170 170 170 170 170 170	
Seatpost length	300 300 350 350 350 350 350	
Steerer, mm	130 130 130 145 185 225 144	184
Fork Length	385mm 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 73.0	
MM	638 698 722 752 789 826 584 593	
Standover	330 419 457 495 533 572 432 508	
Seat tube	90 90 90 105 145 185 103 143	
Head tube	528 545 555 565 575 585 542 550	
Eff top tube	559 577 594 604 622 632 581 589	
Reach	435 435 435 435 435 435 435 435	
Chainstays	288 291 291 293 293 295 283 283	
BB height	38 38 38 38 38 38 38 38	
Offset	82 79 79 79 75 75 79 79	
Trail	1021 1030 1036 1047 1050 1056 1025 1030	
IN	25.12 27.48 28.43 29.61 31.06 32.52 22.99 23.35	
Standover	12.99 16.50 17.99 19.49 20.98 22.52 17.01 20.00	
Seat tube	3.54 3.54 3.54 4.13 5.71 7.28 4.06 5.63	
Head tube	20.79 21.46 21.85 22.24 22.64 23.03 21.34 21.65	
Eff top tube	22.00 22.70 23.37 23.76 24.47 24.87 22.86 23.17	
Reach	17.13 17.13 17.13 17.13 17.13 17.13 17.13 17.13	
Chainstays	11.34 11.46 11.46 11.54 11.54 11.61 11.14 11.14	
BB height	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	
Offset	3.22 3.09 3.09 3.09 2.97 2.97 3.09 3.09	
Trail	40.20 40.55 40.79 41.22 41.34 41.57 40.35 40.55	

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Main tubes	Tensile steel w/Cro-Moly seat tube	28 38 48
Stays	High tensile steel	14 52 71 90
Fork	High tensile steel	16 46 62 79
Headset	VP H97W, sealed	18 41 55 70
Handlebars	Steel, 60mm rise	20 37 50 63
Stem	ATB	22 33 45 57
Bar ends	-	24 31 42 52
Grips	Trek Comfort	28 26 36 45
Shifters	GripShift MRX-170	
Front derailleur	Shimano Tourney TY32	Down pull, Plate style, 31.8
Rear derailleur	Shimano Tourney TY30	
Brakes	Lee Chi TX33 direct pull	
Brake levers	Lee Chi LV77E direct pull	
Crankset	Shimano Tourney TY30 48/38/28 w/chainguard, Riveted	
Bottom bracket	VP-BC55P semi-cartridge	68 x 118
Pedals	Resin	9/16" axle
Freewheel	Shimano HG37 14-28	7spd
Chain	UG50	110 length, 3/32"
Front hub	Alloy	26 x 2.0
Front tire	Knobby	Threaded, 7 speed, QR front & rear, 135mm O.L.D.
Rear hub	Quick release threaded	26 x 2.0
Rear tire	Knobby	
Tubes	Schraeder valve	
Front Rim	Weinmann 519 alloy	548 E.R.D., Rubber rim strip
Rear Rim	Weinmann 519 alloy	548 E.R.D., Rubber rim strip
Spokes	14G UCP	36 spoke 3x Front, 36 spoke 3x Rear 265, 262/264 (D/ND)
Saddle	Dual Density (Women's Padded on 13, 17W, 20W)	
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	Gloss Black • Red decal	
	Mellow Gold • Red decal	
	Violet Pearl • Titanium decal	
Frame sizes	13 16.5 18 19.5 21 22.5 17W 20W	
Handlebar width	580 580 610 610 610 610 580 610	
Stem length	90 90 110 110 130 130 110 110	
Crank length	170 170 170 170 170 170 170 170	
Seatpost length	300 300 350 350 350 350 350 350	
Steerer, mm	130 130 130 145 145 145 185 225	144 184
Fork Length	385mm axle-crown race	
Head angle	70.0 70.5 70.5 70.5 71.0 71.0 70.5 70.5	
Seat angle	74.0 73.5 73.0 73.0 72.5 72.0 73.5 73.0	
MM	638 698 722 752 789 826 584 593	
Standover	330 419 457 495 533 572 432 508	
Seat tube	90 90 90 105 145 185 103 143	
Head tube	528 545 555 565 575 585 542 550	
Eff top tube	559 577 594 604 622 632 581 589	
Reach	435 435 435 435 435 435 435 435	
Chainstays	288 291 291 293 293 295 283 283	
BB height	38 38 38 38 38 38 38 38	
Offset	82 79 79 79 75 75 79 79	
Trail	1021 1030 1036 1047 1050 1056 1025 1030	
IN	25.12 27.48 28.43 29.61 31.06 32.52 22.99 23.35	
Standover	12.99 16.50 17.99 19.49 20.98 22.52 17.01 20.00	
Seat tube	3.54 3.54 3.54 4.13 5.71 7.28 4.06 5.63	
Head tube	20.79 21.46 21.85 22.24 22.64 23.03 21.34 21.65	
Eff top tube	22.00 22.70 23.37 23.76 24.47 24.87 22.86 23.17	
Reach	17.13 17.13 17.13 17.13 17.13 17.13 17.13 17.13	
Chainstays	11.34 11.46 11.46 11.54 11.54 11.61 11.14 11.14	
BB height	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	
Offset	3.22 3.09 3.09 3.09 2.97 2.97 3.09 3.09	
Trail	40.20 40.55 40.79 41.22 41.34 41.57 40.35 40.55	
Wheelbase	25.12 27.48 28.43 29.61 31.06 32.52 22.99 23.35	
IN	12.99 16.50 17.99 19.49 20.98 22.52 17.01 20.00	
Standover	3.54 3.54 3.54 4.13 5.71 7.28 4.06 5.63	
Seat tube	20.79 21.46 21.85 22.24 22.64 23.03 21.34 21.65	
Head tube	22.00 22.70 23.37 23.76 24.47 24.87 22.86 23.17	
Eff top tube	17.13 17.13 17.13 17.13 17.13 17.13 17.13 17.13	
Reach	11.34 11.46 11.46 11.54 11.54 11.61 11.14 11.14	
Chainstays	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	
BB height	3.22 3.09 3.09 3.09 2.97 2.97 3.09 3.09	
Offset	40.20 40.55 40.79 41.22 41.34 41.57 40.35 40.55	
Trail	25.12 27.48 28.43 29.61 31.06 32.52 22.99 23.35	
Wheelbase	12.99 16.50 17.99 19.49 20.98 22.52 17.01 20.00	

800 SPORT

HYBRIDS

UAV

Seatposts

With aluminum and steel hybrids, lubricate the seatpost before insertion. Apply a thin layer of grease to the section of the seatpost that will be inserted into the frame. Insert the seatpost into the frame, adjust to the proper height, and engage the binder lever or bolt. Never engage the seatpost binder lever with the seatpost out of the frame.

Trek aluminum and steel hybrids 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).

Special Torque Specs

Rear derailleur hanger

30-40 lb•in (35-45 Nm)

Bottom bracket

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.

OUR PRICE: \$

	28	38	48	
Main tubes	7005 T6 TIG aluminum			
Stays	7005 T6 TIG aluminum			
Fork	Manitou suspension	48mm travel		
Headset	Dia-Compe SA Aheadset, alloy	25.4/34.0/30.0, 27.0mm stack		
Handlebars	ICON Downhill w/crossbar, 7° bend, 50mm rise, 25.4mm clamp diameter			
Stem	ICON forged alloy direct connect	39.5mm steerer clamp height		
Grips	Trek Comfort			
Shifters	GripShift ESP-700			
Front derailleur	Shimano Nexave Top Swing	Top pull, 34.9mm/1 3/8"		
Rear derailleur	GripShift ESP 9.0			
Brakes	Shimano M600 V			
Brake levers	Avid Speed Dial-1.9 L long pull			
Crankset	Shimano Nexus 48/38/28	79mm bolt hole circle		
Bottom bracket	Shimano BB-UN52	73 x 113		
Pedals	Shimano SPD M323 clipless	9/16" axle		
Cassette	Shimano HG60-1 11-30	8spd		
Chain	Sachs PC-51	108 length, 3/32"		
Front hub	Shimano Alivio			
Front tire	Tioga City Slicker II	700 x 38c		
Rear hub	Shimano STX-RC	HyperGlide Compact cassette, 8 speed, 135mm O.L.D.		
Rear tire	Tioga City Slicker II	700 x 38c		
Tubes	Presta valve			
Front Rim	Matrix Vapor, eyeleted	610 E.R.D., Velox 19mm rim strip		
Rear Rim	Matrix Vapor, eyeleted	610 E.R.D., Velox 19mm rim strip		
Spokes	14G stainless, alloy nipples	32 spoke 3x Front, 32 spoke 3x Rear		
Saddle	Selle Bassano Vuelta, 531 rails/leather cover	300, 298/299 (D/ND)		
Seatpost	Polygon PM900 shock absorber			
Seat binder	Alloy w/integral bolt	27.2mm diameter		
Additionals	2 water bottle mounts, rack mounts	31.9 clamp diameter		
Colors	Gloss Black/Black • Red decal			
Frame sizes	15	17.5	20.5	23
Handlebar width	620	620	620	620
Stem length	90	90	105	120
Crank length	170	170	175	175
Seatpost length	350	350	350	350
Steerer, mm	171	171	186	206
Fork Length	428mm 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
	Seat tube	381	445	508
	Head tube	90	90	105
	Eff top tube	545	550	564
	Reach	625	631	658
	Chainstays	445	445	445
	BB height	281	281	281
	Offset	38	38	38
	Trail	86	83	83
	Wheelbase	1043	1044	1049
IN	Standover	27.17	28.82	30.47
	Seat tube	15.00	17.52	20.00
	Head tube	3.54	3.54	4.13
	Eff top tube	21.46	21.65	22.20
	Reach	24.61	24.82	25.90
	Chainstays	17.52	17.52	17.52
	BB height	11.06	11.06	11.06
	Offset	1.50	1.50	1.50
	Trail	3.40	3.28	3.28
	Wheelbase	41.06	41.10	41.30
24.9 lb. 11.30kg				

Main tubes	7005 T6 TIG aluminum	22 32 42	
Stays	7005 T6 TIG aluminum		
Fork	Cro-Moly		
Headset	Tange Seiki Passage OV	11 54 79 104	
Handlebars	System 1, 10° bend alloy, 30mm rise	13 46 67 88	
Stem	25.4mm clamp diameter	15 40 58 76	
Grips	Alloy adjustable rise	17 35 51 67	
Shifters	Trek Comfort	20 30 44 57	
Front derailleur	GripShift SRT-6.0	23 26 38 50	
Rear derailleur	Shimano STX-RC Top Swing	26 23 34 44	
Brakes	Shimano Deore LX SGS	30 20 29 38	
Brake levers	Shimano M600 V		
Crankset	Avid AD-1.0 L long pull		
Bottom bracket	Shimano Deore LX 4 arm 42/32/22		
Pedals	Shimano BB-UN52		
Cassette	Resin/alloy cage w/clips and straps		
Chain	Shimano HG60-1 11-30		
Front hub	Sachs PC-41		
Front tire	Shimano Alivio		
Rear hub	Trek Invert II, 60TPI		
Rear tire	Shimano STX-RC		
Tubes	Trek Invert II, 60TPI		
Front Rim	Presta valve		
Rear Rim	Matrix Vapor, eyeleted		
Spokes	Matrix Vapor, eyeleted		
	14G stainless, alloy nipples		
Saddle	Selle Bassano Hybrid, Cro-Moly/leather		
Seatpost	Polygon PM900 shock absorber		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mounts, rack mounts		
Colors	Titanium • Metallic Teal decal		
Frame sizes	15 17.5 20.5 23 25		
Handlebar width	580 580 580 580 580		
Stem length	90 90 105 105 105		
Crank length	170 175 175 175 175		
Seatpost length	350 350 350 350 350		
Steerer, mm	124 124 139 159 179		
Fork Length	428mm axle-crown race		
Head angle	70.0 70.5 70.5 71.5 71.5		
Seat angle	74.0 74.0 73.0 73.0 72.5		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	690 732 774 822 869 381 445 508 572 635 90 90 105 125 145 545 550 564 582 592 583 589 609 629 639 445 445 445 445 445 281 281 281 281 281 38 38 38 38 38 86 83 83 77 77 1043 1044 1049 1057 1062	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	27.17 28.82 30.47 32.36 34.21 15.00 17.52 20.00 22.52 25.00 3.54 3.54 4.13 4.92 5.71 21.46 21.65 22.20 22.91 23.31 22.95 23.18 23.98 24.76 25.15 17.52 17.52 17.52 17.52 17.52 11.06 11.06 11.06 11.06 11.06 1.50 1.50 1.50 1.50 1.50 3.40 3.28 3.28 3.02 3.02 41.06 41.10 41.30 41.61 41.81	

Main tubes	7005 T6 TIG aluminum	22 32 42	
Stays	7005 T6 TIG aluminum		
Fork	Cro-Moly		
Headset	Tange Seiki Passage OV	11 54 79 104	
Handlebars	System 1, 10° bend alloy, 30mm rise	13 46 67 88	
Stem	25.4mm clamp diameter	15 40 58 76	
Grips	Alloy adjustable rise	18 33 48 64	
Shifters	Trek Comfort	20 29 42 54	
Front derailleur	GripShift SRT-4.0	23 25 36 48	
Rear derailleur	Shimano Alivio Top Swing	26 21 31 41	
Brakes	Shimano STX-RC SGS		
Brake levers	Lee Chi TX22 direct pull		
Crankset	Lee Chi LV77E direct pull		
Bottom bracket	Shimano BB-LP27		
Pedals	Resin w/clips and straps		
Cassette	Shimano IG50 11-28		
Chain	Sachs PC-21		
Front hub	Shimano Alivio		
Front tire	Trek Invert II		
Rear hub	Shimano Alivio		
Rear tire	Trek Invert II		
Tubes	Schraeder valve		
Front Rim	Matrix Vapor		
Rear Rim	Matrix Vapor		
Spokes	14G stainless		
Saddle	Selle Bassano		
Seatpost	Polygon PM900 shock absorber		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mounts, rack mounts		
Colors	Ice Inkwell • Titanium decal		
Frame sizes	15 17.5 20.5 23 25 17W 20W		
Handlebar width	580 580 580 580 580 580 580		
Stem length	90 90 105 105 90 105 105		
Crank length	170 170 175 175 170 175 175		
Seatpost length	350 350 350 350 350 350 350		
Steerer, mm	117 132 172 172 212 159 199		
Fork Length	428mm axle-crown race		
Head angle	70.0 70.5 70.5 71.5 71.5 70.5 70.5		
Seat angle	74.0 74.0 73.0 73.0 72.5 74.0 73.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	690 732 774 822 869 685 705 381 445 508 572 635 445 508 90 90 105 125 145 125 165 546 551 566 582 592 548 562 584 590 611 629 639 587 607 445 445 445 445 445 445 445 281 281 281 281 281 281 281 38 38 38 38 38 38 38 86 83 83 77 77 83 83 1043 1044 1049 1057 1062 1044 1049	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	27.17 28.82 30.47 32.36 34.21 26.97 27.76 15.00 17.52 20.00 22.52 25.00 17.52 20.00 3.54 3.54 4.13 4.92 5.71 4.92 6.50 21.46 21.65 22.20 22.91 23.31 21.57 22.13 22.95 23.18 23.98 24.76 25.15 23.10 23.91 17.52 17.52 17.52 17.52 17.52 17.52 17.52 11.06 11.06 11.06 11.06 11.06 11.06 11.06 1.50 1.50 1.50 1.50 1.50 1.50 1.50 3.40 3.28 3.28 3.02 3.02 3.28 3.28 41.06 41.10 41.30 41.61 41.81 41.10 41.30	

OUR PRICE: \$

Main tubes	Hi Tensile steel w/Cro-Moly seat tube						40
Stays	High tensile steel						81
Fork	High tensile steel						70
Headset	VP H67W						60
Handlebars	Steel, 30mm rise (50mm on ladies)	22.2/30.0/27.0, 35.0mm stack	25.4mm clamp diameter				21
Stem	Alloy adjustable	22.2mm insertion					51
Grips	Trek Comfort						44
Shifters	GripShift SRT-4.0						38
Brakes	Shimano Altus CT92						33
Brake levers	Tektro 367AP						
Crankset	Dotek, 33T	1 piece					
Bottom bracket	Shimano BB-CT91E	68 x 116					
Pedals	Platform	9/16" axle					
Chain	Sachs	98 length, 1/8"					
Front hub	Forged alloy suspension						
Front tire	Trek Invert II	700 x 38c					
Rear hub	Shimano Nexus Inter 7 Roller Brake	Internal 7 speed, nutted rear, QR front, 130mm O.L.D.					
Rear tire	Trek Invert II	700 x 38c					
Tubes	Schraeder valve						
Front Rim	Vuelta Vision	Rubber rim strip					
Rear Rim	Vuelta Vision	Rubber rim strip					
Spokes	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear (D/ND)					
Saddle	Trek spring, Women's on 17W, 20W						
Seatpost	Alloy micro-adjust	27.2mm diameter					
Seat binder	Bolt, M6 x 23.5						
Additionals	Chainguard, fenders, kickstand, 2 water bottle mounts, rack mounts (1 bottle on 15", 17W, 20W)						
Colors	Ice Violet • Titanium decal						
Frame sizes	15	17	19	21	23	17W	20W
Handlebar width	580	580	600	600	600		
Stem length	90	90	90	110	110	90	110
Crank length	170	170	170	170	170	170	170
Seatpost length	300	300	300	300	300	300	300
Steerer, mm	133	133	133	143	183	164	209
Fork Length	398mm axle-crown race						
Head angle	70.0	70.5	70.5	71.5	71.5	70.5	70.5
Seat angle	74.0	74.0	73.0	73.0	74.0	73.0	73.0
MM	Standover	672	706	738	776	821	599
	Seat tube	381	432	483	533	584	508
	Head tube	90	90	90	100	140	165
	Eff top tube	545	550	560	570	580	556
	Reach	583	589	599	619	629	603
	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	64	70
	Wheelbase	1053	1054	1054	1056	1067	1054
IN	Standover	26.46	27.80	29.06	30.55	32.32	23.58
	Seat tube	15.00	17.01	19.02	20.98	22.99	20.00
	Head tube	3.54	3.54	3.54	3.94	5.51	6.50
	Eff top tube	21.46	21.65	22.05	22.44	22.83	21.89
	Reach	22.95	23.18	23.57	24.37	24.77	23.75
	Chainstays	17.52	17.52	17.52	17.52	17.52	17.52
	BB height	11.06	11.06	11.06	11.06	11.06	11.06
	Offset	1.97	1.97	1.97	1.97	1.97	1.97
	Trail	2.90	2.77	2.77	2.52	2.77	2.77
	Wheelbase	41.46	41.50	41.50	41.57	42.01	41.50

OUR PRICE: \$

Main tubes	Cro-Moly steel						24	34	42
Stays	Cro-Moly steel						11	59	84
Fork	Cro-Moly						13	50	71
Headset	Tange Seiki Passage	22.2/30.0/27.0, 30.9mm stack					16	41	58
Handlebars	System 1, 10° bend alloy, 30mm rise	25.4mm clamp diameter					19	34	49
Stem	Alloy adjustable rise	22.2mm insertion					22	30	42
Grips	Trek Comfort						26	25	36
Shifters	GripShift SRT-4.0						30	22	31
Front derailleur	Shimano Acera-X	Down pull, 31.8mm/1 1/4"							
Rear derailleur	Shimano Alivio								
Brakes	Lee Chi TX22 direct pull	67mm bolt hole circle							
Brake levers	Lee Chi LV77E direct pull	68 x 113							
Crankset	Shimano Alivio 42/34/24	9/16" axle							
Bottom bracket	Shimano BB-LP27	7spd							
Pedals	Resin w/clips and straps	108 length, 3/32"							
Cassette	Shimano IG50 11-30								
Chain	Sachs PC-21								
Front hub	Shimano Acera-X	700 x 38c							
Front tire	Trek Invert II	HyperGlide Compact cassette, 7 speed, 135mm O.L.D.							
Rear hub	Shimano Acera-X	700 x 38c							
Rear tire	Trek Invert II								
Tubes	Schraeder valve								
Front Rim	Matrix Vapor	610 E.R.D., Cloth rim strip							
Rear Rim	Matrix Vapor	610 E.R.D., Cloth rim strip							
Spokes	14G stainless	32 spoke 3x Front, 32 spoke 3x Rear (D/ND)							
Saddle	Trek Hi-density foam, Women's on 17W, 20W	299, 297/298 (D/ND)							
Seatpost	Polygon shock absorber								
Seat binder	Quick release, 47mm	27.2mm diameter							
Additionals	2 water bottle mounts, rack mounts (1 bottle on 15", 17W, 20W)								
Colors	Black • Metallic Green decal								
	Cactus Green • Silver decal								
Frame sizes	13	15	17	19	21	23	15W	17W	20W
Handlebar width	580	580	580	580	580	580	580	580	580
Stem length	90	90	90	105	105	105	90	90	90
Crank length	170	170	170	170	170	175	170	170	170
Seatpost length	350	350	350	350	350	350	350	350	350
Steerer, mm	130	130	130	130	140	180	130	160	205
Fork Length	398mm axle-crown race								
Head angle	70.0	70.0	70.5	70.5	71.5	71.5	70.0	70.5	70.5
Seat angle	74.5	74.0	73.0	73.0	73.0	73.0	74.0	74.0	73.0
MM	Standover	638	672	706	738	776	821	582	590
	Seat tube	330	381	432	483	533	584	381	432
	Head tube	90	90	90	90	100	140	90	120
	Eff top tube	540	545	550	560	570	580	545	556
	Reach	578	583	589	605	617	627	583	595
	Chainstays	445	445	445	445	445	445	445	445
	BB height	281	281</						

OUR PRICE: \$

Main tubes	Cro-Moly steel	24	34	42						
Stays	High tensile steel	11	59	84						
Fork	Cro-Moly	13	50	71						
Headset	VP H67W	15	44	62						
Handlebars	Steel, 60mm rise	18	36	51						
Stem	Steel Highrise front load	21	31	44						
Grips	Trek Comfort	24	27	39						
Shifters	GripShift MRX-170	28	23	33						
Front derailleur	Shimano Altus CT92									
Rear derailleur	Shimano Alivio									
Brakes	Lee Chi TX33 direct pull									
Brake levers	Lee Chi LV77E direct pull									
Crankset	Shimano Altus CT92 42/34/24									
Bottom bracket	Riveted									
Pedals	Shimano BB-CT91E									
Cassette	Platform									
Chain	Shimano HG50C 11-28									
Front hub	Sachs PC-10									
Front tire	Forged alloy suspension									
Rear hub	Trek Invert II									
Rear tire	Shimano Acera-X									
Tubes	Trek Invert II									
Front Rim	Schraeder valve									
Rear Rim	Weinmann 519 alloy									
Spokes	Weinmann 519 alloy									
	14G stainless									
Saddle	610 E.R.D., Rubber rim strip									
Seatpost	610 E.R.D., Rubber rim strip									
Seat binder	36 spoke 3x Front, 36 spoke 3x Rear									
Additionals	296, 293/294 (D/ND)									
Colors	Trek Hi-density foam, Women's on 17W, 20W									
	SP57 shock absorber									
	Quick release, 47mm									
	2 water bottle mounts, rack mounts (1 bottle on 15", 17W, 20W)									
	Ice Red • Gold decal									
	Pearl Green/Blue Moon fade • White decal									
Frame sizes	13	15	17	19	21	23	15W	17W	20W	
Handlebar width	580	580	580	610	610	610	580	580	610	
Stem length	100	100	100	100	100	100	100	100	100	
Crank length	170	170	170	170	170	170	170	170	170	
Seatpost length	350	350	350	350	350	350	350	350	350	
Steerer, mm	130	130	130	130	140	180	130	160	205	
Fork Length	398mm axle-crown race									
Head angle	70.0	70.0	70.5	70.5	71.5	71.5	70.0	70.5	70.5	
Seat angle	74.5	74.0	74.0	73.0	73.0	74.0	74.0	73.0	73.0	
MM	Standover	638	672	706	738	776	821	582	590	599
	Seat tube	330	381	432	483	533	584	381	432	508
	Head tube	90	90	90	90	100	140	90	120	165
	Eff top tube	540	545	550	560	570	580	545	548	556
	Reach	582	587	593	603	615	625	587	591	599
	Chainstays	445	445	445	445	445	445	445	445	445
	BB height	281	281	281	281	281	281	281	281	281
	Offset	50	50	50	50	50	50	50	50	50
	Trail	74	74	70	70	64	64	74	70	70
	Wheelbase	1053	1053	1054	1054	1056	1067	1053	1054	1054
IN	Standover	25.12	26.46	27.80	29.06	30.55	32.32	22.91	23.23	23.58
	Seat tube	12.99	15.00	17.01	19.02	20.98	22.99	15.00	17.01	20.00
	Head tube	3.54	3.54	3.54	3.54	3.94	5.51	3.54	4.72	6.50
	Eff top tube	21.26	21.46	21.65	22.05	22.44	22.83	21.46	21.57	21.89
	Reach	22.92	23.12	23.35	23.74	24.20	24.59	23.12	23.27	23.58
	Chainstays	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52
	BB height	11.06	11.06	11.06	11.06	11.06	11.06	11.06	11.06	11.06
	Offset	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
	Trail	2.90	2.90	2.77	2.77	2.52	2.52	2.90	2.77	2.77
	Wheelbase	41.46	41.46	41.50	41.50	41.57	42.01	41.46	41.50	41.50

OUR PRICE: \$

Main tubes	Hi Tensile steel w/Cro-Moly seat tube	28	38	48					
Stays	High tensile steel	14	54	74					
Fork	High tensile steel	16	48	65					
Headset	VP H67W	18	42	58					
Handlebars	Steel, 60mm rise	20	38	52					
Stem	Steel Highrise front load	22	35	47					
Grips	Trek Comfort	24	32	43					
Shifters	GripShift MRX-170	28	27	37					
Front derailleur	Shimano Tourney TY30								
Rear derailleur	Shimano Acera-X								
Brakes	Shimano Altus CT92								
Brake levers	Chang Star 279c								
Crankset	Shimano Tourney TY30 48/38/28, chainguard, Riveted								
Bottom bracket	Shimano BB-TY30								
Pedals	Platform								
Cassette	Shimano HG37 14-28								
Chain	Sachs PC-10								
Front hub	Steel quick release								
Front tire	Trek Invert II								
Rear hub	Nutted rear								
Rear tire	Trek Invert II								
Tubes	Schraeder valve								
Front Rim	Weinmann 519 alloy								
Rear Rim	Weinmann 519 alloy								
Spokes	14G stainless								
Saddle	610 E.R.D., Rubber rim strip								
Seatpost	610 E.R.D., Rubber rim strip								
Seat binder	36 spoke 3x Front, 36 spoke 3x Rear								
Additionals	296, 293/294 (D/ND)								
Colors	Trek Hi-density foam								
	Alloy micro-adjust								
	Quick release, 47mm								
	2 water bottle mounts, rack mounts (1 bottle on 15", 17W, 20W)								
	Pearl Blue • Metallic Green decal								
	Silver/Titanium fade • Red decal								
	Ice Inkwell • Silver decal								
Frame sizes	15	17	19	21	23	25	17W	20W	
Handlebar width	580	580	610	610	610	580	580	610	
Stem length	100	100	100	100	100	100	100	100	
Crank length	170	170	170	170	170	170	170	170	
Seatpost length	300	300	300	350	350	350	300	350	
Steerer, mm	130	130	130	140	180	160	160	205	
Fork Length	398mm axle-crown race								
Head angle	70.0	70.5	70.5	71.5	71.5	70.5	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	590	599	
	Seat tube	381	432	483	533	584	432	508	
	Head tube	90	90	90	100	140	120	165	
	Eff top tube	545	550	560	570	580	548	556	
	Reach	587	593	603	615	625	591	599	
	Chainstays	445	445	445	445	445	445	445	

ROAD

Special Torque Specs

With newer 3 Tube Carbon frames, an internal aluminum sleeve is bonded into the seat tube to prevent possible crushing of the seat tube through extreme over tightening of the front derailleur clamp. However, prior to 1993, this was not done. Instead, a plastic insert was used in the derailleur clamp to prevent over tightening. Be especially careful not to over tighten when attaching front derailleurs to older 3 Tube Carbon bikes.

Tighten tandem bottom bracket eccentric expander bolts to 180 lb•in (20.3 Nm).

Special Parts

	Part #
Chainkeeper	T83663
Chainstay guard	T950130
Tandem bottom bracket eccentric (w/hardware)	T82672
Front derailleur braze-on plate (OCLV)	T973749
OCLV bottom bracket cable guide	T942820
Tandem bottom bracket cable guide	T92798
Front derailleur frame clamp AD15, 34.9	40090
Top tube foam insert	T82052

Seatposts

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. For these forks, we supply a longer nut. The Air Rail fork is found on the 2300, 5000, 5200, 5500, and 5500 frameset.

Brake nut for ICON Air Rail fork, rear yoke on 5000 series OCLV road bikes 950112

Brake nut for rear yoke on Y Foil 980285

Suspension Ready Geometry

A longer version of the Air Rail is found on the aerodynamic Y Foils. These forks are longer to handle properly in the suspension ready geometry.

Chainkeepers and Chainstay guards

OCLV 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.

Internal Cable Guide Sleeve

Trek Aluminum and 3 Tube Carbon Road bikes use an internally routed rear brake cable for clean, good looks. In some cases of extremely bumpy roads, the cable can bounce inside the top tube, causing an annoying rattle. To prevent this, we provide a foam sleeve which is used to pad the housing inside the top tube.

To install the sleeve, stand the bike on the floor with the seatpost removed from the frame (clamping the seat tube in a repair stand may damage the decals). With the cable installed in the housing, thread the cable through the front cable entry hole. With your free hand, insert a finger down the seat tube and into the top tube. Allow the cable end to contact the end of your finger, and while pushing the housing further into the frame's front hole, let the pressure of the cable end push your finger back out of the top tube.

With the cable pulled well outside the top tube, slide the sleeve over the cable end and housing, and into the top tube. Next, with the sleeve slid as far into the top tube as possible, again reach into the top tube with a finger and find the end of the cable. Use your finger to guide the cable to the rear exit hole of the top tube. When the cable exits the hole, ease the housing out, grease and install the seatpost, and finish your assembly as normal.

At some future time, you may need to install new housing in the frame. Although it's preferable that the housing be inside the sleeve, it is not necessary to prevent most rattles. Just install the cable and housing as you normally would.

Rear Spacing

O.L.D. (Over Locknut Dimension) is a measurement of the hub width on the outside of the axle locknuts. When we list OLD, we're referring to the rear hub. In addition, we have listed the frame dimensions rather than the hub. This is technically incorrect, but more useful because many of our road frames are designed with a 128mm rear axle spacing to use either a 130 OLD 7/8/9 speed hub, or a 126 OLD 6 speed hub. It does not damage the frame in any way to use either of these hub sizes in a bike with a listed 128 OLD.

Y FOIL 77

OUR PRICE: \$

Main tubes	OCLV carbon	39 53	
Stays	OCLV carbon		
Fork	ICON Air Rail SRG		
Headset	Shimano Ultegra		
Handlebars	ICON 2014		
Stem	26.0mm clamp diameter		
Grips	3T Evol 2002 forged front load		
Shifters	22.2mm insertion		
Front derailleur	Shimano Ultegra STI Dual Control		
Rear derailleur	Shimano Ultegra		
Brakes	Shimano Ultegra		
Brake levers	Shimano Ultegra		
Crankset	Shimano Ultegra 53/39		
Bottom bracket	Shimano Ultegra		
Pedals	Shimano Ultegra SPD, clipless		
Cassette	Shimano Ultegra 12-23		
Chain	Shimano Ultegra		
Front hub	Rolf Aero, Salsa FlipOff		
Front tire	Continental Grand Prix 3000, folding		
Rear hub	Rolf Aero, Salsa FlipOff		
Rear tire	Continental Grand Prix 3000, folding		
Tubes	Presta valve, 48mm stem		
Front Rim	Araya Super Aero SA-530C		
Rear Rim	Araya Super Aero SA-530C		
Spokes	DT triple butted blade, stainless flat washer, Rolf alloy self-locking nipple		
	14 spoke Radial Front 16 spoke 1x Rear		
	289, 289/287 (D/ND)		
Saddle	Selle Bassano		
Seatpost	Thomson Elite		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mounts		
Colors	Metallized yellow • Black decals		
		18.5 lb. 8.40kg	
Frame sizes	48 51 54 56 59 62		
Handlebar width	380 400 420 420 440 460		
Stem length	85 95 95 105 115 125		
Crank length	170 170 172.5 172.5 172.5 175		
Seatpost length	250 250 250 250 250 250		
Steerer, mm	134 134 134 151 174 204		
Fork Length	402mm axle-crown race		
Head angle	72.0 72.5 73.0 73.5 74.0 74.0		
Seat angle	74.5 73.8 73.3 72.0 72.0 72.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	727 744 750 769 797 880 480 510 540 560 590 620 85 85 85 102 125 155 510 527 545 565 585 605 595 622 640 670 700 730 408 408 410 410 412 412 264 264 266 266 268 268 47 47 45 45 43 43 61 58 57 54 53 53 961 967 979 978 996 1015	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	28.62 29.29 29.53 30.28 31.38 34.65 18.90 20.08 21.26 22.05 23.23 24.41 3.35 3.35 3.35 4.02 4.92 6.10 20.08 20.75 21.46 22.24 23.03 23.82 23.42 24.49 25.20 26.38 27.56 28.74 16.06 16.06 16.14 16.14 16.22 16.22 10.39 10.39 10.47 10.47 10.55 10.55 1.85 1.85 1.77 1.77 1.69 1.69 2.39 2.27 2.23 2.11 2.07 2.07 37.83 38.07 38.54 38.50 39.21 39.96	

OUR PRICE: \$

Main tubes	OCLV carbon	39 53	
Stays	OCLV carbon		
Fork	ICON Air Rail SRG		
Headset	Tange Seiki VR254		
Handlebars	ICON 2014		
Stem	3T Evol 2002 forged front load		
Grips	Cork, black		
Shifters	Shimano Ultegra STI Dual Control		
Front derailleur	Shimano Ultegra		
Rear derailleur	Shimano Ultegra		
Brakes	Shimano Ultegra		
Brake levers	Shimano Ultegra		
Crankset	Shimano Ultegra 53/39		
Bottom bracket	Shimano Ultegra		
Pedals	Shimano Ultegra SPD, clipless		
Cassette	Shimano Ultegra 12-23		
Chain	Shimano HG92		
Front hub	Shimano Ultegra		
Front tire	Continental Grand Prix 3000, folding		
Rear hub	Shimano Ultegra		
Rear tire	Continental Grand Prix 3000, folding		
Tubes	Presta valve		
Front Rim	Mavic CXP21		
Rear Rim	Mavic CXP21		
Spokes	DT 14/15G butted stainless		
Saddle	Selle Bassano Vuelta, 531 rails/leather cover		
Seatpost	Thomson Elite		
Seat binder	Alloy w/integral bolt		
Additionals	2 water bottle mounts		
Colors	Ice Inkwell • Silver decals		
	27.2mm diameter		
Frame sizes	48 51 54 56 59 62		
Handlebar width	380 400 420 420 440 460		
Stem length	85 95 95 105 115 125		
Crank length	170 170 172.5 172.5 175 175		
Seatpost length	250 250 250 250 250 250		
Steerer, mm	134 134 134 151 174 204		
Fork Length	402mm axle-crown race		
Head angle	72.0 72.5 73.0 73.5 74.0 74.0		
Seat angle	74.5 73.8 73.3 72.0 72.0 72.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	727 744 750 769 797 880 480 510 540 560 590 620 85 85 85 102 125 155 510 527 545 565 585 605 595 622 640 670 700 730 408 408 410 410 412 412 264 264 266 266 268 268 47 47 45 45 43 43 61 58 57 54 53 53 961 967 979 978 996 1015	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	28.62 29.29 29.53 30.28 31.38 34.65 18.90 20.08 21.26 22.05 23.23 24.41 3.35 3.35 3.35 4.02 4.92 6.10 20.08 20.75 21.46 22.24 23.03 23.82 23.42 24.49 25.20 26.38 27.56 28.74 16.06 16.06 16.14 16.14 16.22 16.22 10.39 10.39 10.47 10.47 10.55 10.55 1.85 1.85 1.77 1.77 1.69 1.69 2.39 2.27 2.23 2.11 2.07 2.07 37.83 38.07 38.54 38.50 39.21 39.96	

Y FOIL 66

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

19.4 lb.
8.81kg

OUR PRICE: \$

Main tubes	OCLV carbon						39 53	
Stays	OCLV carbon						12 86 117	
Fork	ICON Air Rail						13 79 108	
Headset	Shimano Ultegra						14 74 100	
Handlebars	ICON 2014						15 69 93	
Stem	3T Evol 2002 forged front load						16 64 88	
Grips	Cork, black						17 61 82	
Shifters	Shimano Dura-Ace STI Dual Control						19 54 74	
Front derailleur	Shimano Dura-Ace						21 49 67	
Rear derailleur	Shimano Dura-Ace						23 45 61	
Brakes	Shimano Dura-Ace							
Brake levers	combi brake/shift							
Crankset	Shimano Dura-Ace 53/39							
Bottom bracket	Shimano Dura-Ace							
Pedals	Shimano Dura-Ace SPD, clipless							
Cassette	Shimano Dura-Ace 12-23							
Chain	Shimano Dura-Ace							
Front hub	Rolf Aero, Salsa FlipOff							
Front tire	Continental Grand Prix 3000, folding							
Rear hub	Rolf Aero, Salsa FlipOff							
Rear tire	Continental Grand Prix 3000, folding							
Tubes	Presta valve, 48mm stem							
Front Rim	Araya Super Aero SA-530C							
Rear Rim	Araya Super Aero SA-530C							
Spokes	DT triple butted blade, stainless flat washer,							
Saddle	Selle Bassano Vuelta, 531 rails/leather cover							
Seatpost	Thomson Elite							
Seat binder	Alloy w/integral bolt							
Additionals	2 water bottle mounts							
Colors	USPS Team • Red/White/Blue decal							
Frame sizes	50	52	54	56	58	60	62	
Handlebar width	400	400	420	420	440	440	460	
Stem length	85	95	95	105	115	125	135	
Crank length	170	170	172.5	172.5	175	175	175	
Seatpost length	250	250	250	250	250	250	250	
Steerer, mm	146	146	154	171	189	208	227	
Fork Length	370mm 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	97	97	104	121	140	158	177
	Eff top tube	518	528	545	560	570	580	590
	Reach	603	623	640	665	685	705	725
	Chainstays	408	408	410	410	412	412	412
	BB height	266	266	266	268	268	268	268
	Offset	47	47	47	45	45	43	43
	Trail	61	58	55	52	52	53	53
	Wheelbase	977	980	985	988	996	1003	1008
IN	Standover	29.49	29.88	30.43	31.22	31.93	32.68	33.39
	Seat tube	19.69	20.47	21.26	22.05	22.83	23.62	24.41
	Head tube	3.82	3.82	4.09	4.76	5.51	6.22	6.97
	Eff top tube	20.39	20.79	21.46	22.05	22.44	22.83	23.23
	Reach	23.74	24.53	25.20	26.18	26.97	27.76	28.54
	Chainstays	16.06	16.06	16.14	16.14	16.22	16.22	16.22
	BB height	10.47	10.47	10.47	10.55	10.55	10.55	10.55
	Offset	1.85	1.85	1.85	1.77	1.77	1.69	1.69
	Trail	2.39	2.27	2.15	2.05	2.05	2.07	2.07
	Wheelbase	38.46	38.58	38.78	38.90	39.21	39.49	39.69

OUR PRICE: \$

Main tubes	OCLV carbon						39 53	
Stays	OCLV carbon						12 86 117	
Fork	ICON Air Rail						13 79 108	
Headset	Tange Seiki VR254						14 74 100	
Handlebars	ICON 2014						15 69 93	
Stem	3T Evol 2002 forged front load						16 64 88	
Grips	Cork, black						17 61 82	
Shifters	Shimano Ultegra STI Dual Control						19 54 74	
Front derailleur	Shimano Ultegra						21 49 67	
Rear derailleur	Shimano Ultegra						23 45 61	
Brakes	Shimano Ultegra							
Brake levers	combi brake/shift							
Crankset	Shimano Ultegra 53/39							
Bottom bracket	Shimano Ultegra							
Pedals	Shimano Ultegra SPD, clipless							
Cassette	Shimano Ultegra 12-23							
Chain	Shimano HG92							
Front hub	Shimano Ultegra							
Front tire	Continental Grand Prix 3000, folding							
Rear hub	Shimano Ultegra							
Rear tire	Continental Grand Prix 3000, folding							
Tubes	Presta valve							
Front Rim	Mavic CXP21							
Rear Rim	Mavic CXP21							
Spokes	DT 14/15G butted stainless							
Saddle	Selle Bassano Vuelta, 531 rails/leather cover							
Seatpost	Thomson Elite							
Seat binder	Alloy w/integral bolt							
Additionals	2 water bottle mounts							
Colors	Ice Roja • White decal							
Frame sizes	50	52	54	56	58	60	62	
Handlebar width	400	400	420	420	440	440	460	
Stem length	85	95	95	105	115	125	135	
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	224	
Fork Length	370mm 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	97	97	104	121	140	158	177
	Eff top tube	518	528	545	560	570	580	590
	Reach	603	623	640	665	685	705	725
	Chainstays	408	408	410	410	412	412	412
	BB height	266	266	266	268	268	268	268
	Offset	47	47	47	45	45	43	43
	Trail	61	58	55	52	52	53	53
	Wheelbase	977	980	985	988	996	1003	1008
IN	Standover	29.49	29.88	30.43	31.22	31.93	32.68	33.39
	Seat tube	19.69	20.47	21.26	22.05	22.83	23.62	24.41
	Head tube	3.82	3.82	4.09	4.76	5.51	6.22	6.97
	Eff top tube	20.39	20.79	21.46	22.05	22.44	22.83	23.23
	Reach	23.74	24.53	25.20	26.18	26.97	27.76	28.54
	Chainstays	16.06	16.06	16.14	16.14	16.22	16.22	16.22
	BB height	10.47	10.47	10.47	10.55	10.55	10.55	10.55
	Offset	1.85	1.85	1.85	1.77	1.77	1.69	1.69
	Trail	2.39	2.27	2.15	2.05	2.05	2.07	2.07
	Wheelbase	38.46	38.58	38.78	38.90	39.21	39.49	39.69

OUR PRICE: \$

	OCLV carbon	OCLV carbon	ICON Carbon Classic		30	42	52	
Main tubes	OCLV carbon	OCLV carbon	ICON Carbon Classic		12	66	93	115
Stays	OCLV carbon	OCLV carbon	ICON Carbon Classic		13	61	85	106
Fork	ICON Air Rail	ICON Air Rail	ICON Air Rail		14	57	79	98
Headset	Tange Seiki CDS	Tange Seiki CDS	Tange Seiki CDS	22.2/30.2/26.4, 33.7mm stack	15	53	74	92
Handlebars	ICON 6061	ICON 6061	ICON 6061	26.0mm clamp diameter	17	47	65	81
Stem	3T Evol 2002 forged front load	3T Evol 2002 forged front load	3T Evol 2002 forged front load	22.2mm insertion	19	42	58	72
Grips	Cork, black	Cork, black	Cork, black		21	38	53	65
Shifters	Shimano Ultegra STI Dual Control	Shimano Ultegra STI Dual Control	Shimano Ultegra STI Dual Control		23	35	48	60
Front derailleur	Shimano Ultegra Triple	Shimano Ultegra Triple	Shimano Ultegra Triple	Down pull, Braze-on type	25	32	44	55
Rear derailleur	Shimano Ultegra GS	Shimano Ultegra GS	Shimano Ultegra GS		20.1 lb. 9.13kg			
Brakes	Shimano Ultegra	Shimano Ultegra	Shimano Ultegra					
Brake levers	combi brake/shift	combi brake/shift	combi brake/shift					
Crankset	Shimano Ultegra 52/42/30	Shimano Ultegra 52/42/30	Shimano Ultegra 52/42/30	74/130mm bolt hole circle				
Bottom bracket	Shimano Ultegra	Shimano Ultegra	Shimano Ultegra	68 x 118				
Pedals	Shimano Ultegra SPD, clipless	Shimano Ultegra SPD, clipless	Shimano Ultegra SPD, clipless	9/16" axle				
Cassette	Shimano Ultegra 12-25	Shimano Ultegra 12-25	Shimano Ultegra 12-25	9 spd				
Chain	Shimano HG92	Shimano HG92	Shimano HG92	108 length, 9 speed width				
Front hub	Shimano Ultegra	Shimano Ultegra	Shimano Ultegra					
Front tire	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	700 x 25c				
Rear hub	Shimano Ultegra	Shimano Ultegra	Shimano Ultegra	HyperGlide cassette, 9 spd, 130mm O.L.D.				
Rear tire	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	700 x 25c				
Tubes	Presta valve	Presta valve	Presta valve					
Front Rim	Mavic CXP21	Mavic CXP21	Mavic CXP21	598.5 E.R.D., Velox 16mm rim strip				
Rear Rim	Mavic CXP21	Mavic CXP21	Mavic CXP21	598.5 E.R.D., Velox 16mm rim strip				
Spokes	DT 14/15G butted stainless	DT 14/15G butted stainless	DT 14/15G butted stainless	32 spoke 3x Front, 32 spoke 3x Rear				
Saddle	Selle Bassano Vuelta, 531 rails/leather cover	Selle Bassano Vuelta, 531 rails/leather cover	Selle Bassano Vuelta, 531 rails/leather cover	295, 292/294 (D/ND)				
Seatpost	Thomson Elite	Thomson Elite	Thomson Elite	27.2mm diameter				
Seat binder	Alloy w/integral bolt	Alloy w/integral bolt	Alloy w/integral bolt	35.0 clamp diameter				
Additionals	2 water bottle mounts	2 water bottle mounts	2 water bottle mounts					
Colors	Ice RC Blue • Gold decal	Ice RC Blue • Gold decal	Ice RC Blue • Gold decal					
Frame sizes	50	52	54	56	58	60	62	
Handlebar width	400	400	420	420	440	440	460	
Stem length	85	95	95	105	115	125	135	
Crank length	170	170	172.5	172.5	175	175	175	
Seatpost length	250	250	250	250	250	250	250	
Steerer, mm	142	142	150	167	186	204	223	
Fork Length	370mm 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	72.5	72.5	
MM	Standover	749	759	773	793	811	830	848
	Seat tube	500	520	540	560	580	600	620
	Head tube	97	97	104	121	140	158	177
	Eff top tube	518	528	545	560	570	580	590
	Reach	603	623	640	665	685	705	725
	Chainstays	408	408	410	410	412	412	412
	BB height	266	266	268	268	268	268	268
	Offset	45	45	45	45	45	45	45
	Trail	63	60	57	52	51	51	53
	Wheelbase	977	980	985	988	996	1003	1008
IN	Standover	29.49	29.88	30.43	31.22	31.93	32.68	33.39
	Seat tube	19.69	20.47	21.26	22.05	22.83	23.62	24.41
	Head tube	3.82	3.82	4.09	4.76	5.51	6.22	6.97
	Eff top tube	20.39	20.79	21.46	22.05	22.44	22.83	23.23
	Reach	23.74	24.53	25.20	26.18	26.97	27.76	28.54
	Chainstays	16.06	16.06	16.14	16.14	16.22	16.22	16.22
	BB height	10.47	10.47	10.47	10.55	10.55	10.55	10.55
	Offset	1.77	1.77	1.77	1.77	1.77	1.77	1.69
	Trail	2.47	2.35	2.23	2.05	1.99	1.99	2.07
	Wheelbase	38.46	38.58	38.78	38.90	39.21	39.49	39.69

OUR PRICE: \$

	OCLV carbon	OCLV carbon	ICON Air Rail		30	42	52	
Main tubes	OCLV carbon	OCLV carbon	ICON Air Rail	22.2/30.2/26.4, 33.7mm stack	12	86	117	
Stays	OCLV carbon	OCLV carbon	ICON Air Rail	26.0mm clamp diameter	13	79	108	
Fork	ICON Air Rail	ICON Air Rail	ICON Air Rail	22.2/30.2/26.4, 33.7mm stack	14	74	100	
Headset	Tange Seiki CDS	Tange Seiki CDS	Tange Seiki CDS	22.2mm insertion	15	69	93	
Handlebars	ICON 6061	ICON 6061	ICON 6061		16	64	88	
Stem	3T Evol 2002 forged front load	3T Evol 2002 forged front load	3T Evol 2002 forged front load		17	61	82	
Grips	Cork, black	Cork, black	Cork, black		19	54	74	
Shifters	Campagnolo Veloce Ergopower	Campagnolo Veloce Ergopower	Campagnolo Veloce Ergopower		21	49	67	
Front derailleur	Campagnolo Veloce	Campagnolo Veloce	Campagnolo Veloce	Down pull, Braze-on type	23	45	61	
Rear derailleur	Campagnolo Veloce	Campagnolo Veloce	Campagnolo Veloce		19.9 lb. 9.03kg			
Brakes	Campagnolo Veloce	Campagnolo Veloce	Campagnolo Veloce					
Brake levers	combi brake/shift	combi brake/shift	combi brake/shift					
Crankset	Campagnolo Veloce 53/39	Campagnolo Veloce 53/39	Campagnolo Veloce 53/39	135mm bolt hole circle				
Bottom bracket	Campagnolo Veloce	Campagnolo Veloce	Campagnolo Veloce	68 x 111				
Pedals	Look CR2, clipless	Look CR2, clipless	Look CR2, clipless	9/16" axle				
Cassette	Campagnolo Exa-Drive 12-23	Campagnolo Exa-Drive 12-23	Campagnolo Exa-Drive 12-23	9spd				
Chain	Campagnolo 09VL	Campagnolo 09VL	Campagnolo 09VL	108 length, 9 speed width				
Front hub	Campagnolo Veloce	Campagnolo Veloce	Campagnolo Veloce					
Front tire	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	Continental Grand Prix 3000, folding	700 x 25c				

2300

OUR PRICE: \$

Main tubes	Trek butted carbon	39 53
Stays	Easton tapered aluminum	
Fork	ICON Air Rail	
Headset	Tange Seiki CDS	
Handlebars	ICON 2014	
Stem	26.0mm clamp diameter	
Grips	22.2mm insertion	
Shifters	Shimano Ultegra STI Dual Control	
Front derailleur	Shimano Ultegra	
Rear derailleur	Shimano Ultegra	
Brakes	Shimano Ultegra	
Brake levers	combi brake/shift	
Crankset	Shimano Ultegra 53/39	
Bottom bracket	Shimano Ultegra	
Pedals	Shimano Ultegra SPD, clipless	
Cassette	Shimano Ultegra 12-23,	
Chain	Shimano HG92	
Front hub	Shimano Ultegra	
Front tire	Continental Grand Prix 3000, folding	
Rear hub	Shimano Ultegra	
Rear tire	Continental Grand Prix 3000, folding	
Tubes	Presta valve, ultra light	
Front Rim	Mavic CXP21	
Rear Rim	Mavic CXP21	
Spokes	DT 14/15G butted stainless	
Saddle	Selle Bassano Vuelta, 531 rails/leather cover	
Seatpost	PM501 Custom	
Seat binder	System Road, 5mm allen, M6 x 25	
Additionals	2 water bottle mounts, rack mounts	
Colors	Metallized Yellow • Yellow/Orange decal	
Frame sizes	47 50 52 54 56 58 60 62	
Handlebar width	380 400 400 420 420 440 440 460	
Stem length	70 70 90 100 115 115 130 130	
Crank length	170 170 170 172.5 172.5 175 175 175	
Seatpost length	250 250 250 250 250 250 250 250	
Steerer, mm	128 128 147 167 187 206 226 235	
Fork Length	370mm axle-crown race	
Head angle	72.5 73.0 73.0 73.5 73.5 73.5 73.5 74.0	
Seat angle	73.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5	
MM	Standover	724 753 771 792 811 829 848 858
	Seat tube	470 500 520 540 560 580 600 620
	Head tube	86 86 104 124 145 165 183 193
	Eff top tube	518 530 530 550 550 570 570 585
	Reach	588 600 620 650 665 685 700 715
	Chainstays	415 415 415 415 415 415 415 415
	BB height	267 267 267 267 267 267 267 267
	Offset	47 47 47 45 45 43 43 43
	Trail	58 55 55 54 54 56 53 53
	Wheelbase	963 972 972 984 984 1004 1004 1014
IN	Standover	28.50 29.65 30.35 31.18 31.93 32.64 33.39 33.78
	Seat tube	18.50 19.69 20.47 21.26 22.05 22.83 23.62 24.41
	Head tube	3.39 3.39 4.09 4.88 5.71 6.50 7.20 7.60
	Eff top tube	20.39 20.87 20.87 21.65 21.65 22.44 22.44 23.03
	Reach	23.15 23.62 24.41 25.59 26.18 26.97 27.56 28.15
	Chainstays	16.34 16.34 16.34 16.34 16.34 16.34 16.34 16.34
	BB height	10.51 10.51 10.51 10.51 10.51 10.51 10.51 10.51
	Offset	1.85 1.85 1.85 1.77 1.77 1.77 1.69 1.69
	Trail	2.27 2.15 2.15 2.11 2.11 2.11 2.07 2.07
	Wheelbase	37.91 38.27 38.27 38.74 38.74 39.53 39.53 39.92

OUR PRICE: \$

Main tubes	Trek butted carbon	32 42 52
Stays	Easton tapered aluminum	13 65 85 106
Fork	ICON Carbon Classic	14 60 79 98
Headset	Tange Seiki CDS	15 56 74 92
Handlebars	ICON 6061	16 53 69 86
Stem	KWG alloy, 90°	17 50 65 81
Grips	Cork, black	19 45 58 72
Shifters	Campagnolo Veloce Ergopower	22 38 50 63
Front derailleur	Campagnolo Veloce	23 37 48 60
Rear derailleur	Campagnolo Veloce	26 33 43 53
Brakes	Campagnolo Veloce	
Brake levers	combi brake/shift	
Crankset	Campagnolo Veloce 52/42/32	74/135mm bolt hole circle
Bottom bracket	Campagnolo Veloce	68 x 115.5
Pedals	Look CR2, clipless	9/16" axle
Cassette	Campagnolo Exa-Drive 13-26	9spd
Chain	Campagnolo 09VL	108 length, 9 speed width
Front hub	Campagnolo Veloce	
Front tire	Continental Grand Prix 3000, folding	700 x 25c
Rear hub	Campagnolo Veloce	ExaDrive cassette, 9 speed, 128mm O.L.D.
Rear tire	Continental Grand Prix 3000, folding	700 x 25c
Tubes	Presta valve	
Front Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip
Rear Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip
Spokes	DT 14/15G butted stainless	32 spoke 3x Front, 32 spoke 3x Rear
Saddle	Selle Bassano Vuelta, 531 rails/leather cover	297, 295/297 (D/ND)
Seatpost	PM501 Custom	27.2mm diameter
Seat binder	System Road, 5mm allen, M6 x 25	
Additionals	2 water bottle mounts, rack mounts	
Colors	Titanium • Violet decal	
Frame sizes	47 50 52 54 56 58 60 62	
Handlebar width	380 400 400 420 420 440 440 460	
Stem length	70 70 90 100 115 115 130 130	
Crank length	170 170 170 170 170 175 175 175	
Seatpost length	250 250 250 250 250 250 250 250	
Steerer, mm	128 128 147 167 187 206 226 235	
Fork Length	370mm axle-crown race	
Head angle	72.5 73.0 73.0 73.5 73.5 73.5 73.5 74.0	
Seat angle	73.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5	
MM	Standover	724 753 771 792 811 829 848 858
	Seat tube	470 500 520 540 560 580 600 620
	Head tube	86 86 104 124 145 165 183 193
	Eff top tube	518 530 530 550 550 570 570 585
	Reach	585 597 616 646 660 680 695 710
	Chainstays	415 415 415 415 415 415 415 415
	BB height	267 267 267 267 267 267 267 267
	Offset	47 47 47 43 43 43 43 43
	Trail	60 57 57 58 58 58 58 55
	Wheelbase	963 972 972 984 984 1004 1004 1014
IN	Standover	28.50 29.65 30.35 31.18 31.93 32.64 33.39 33.78
	Seat tube	18.50 19.69 20.47 21.26 22.05 22.83 23.62 24.41
	Head tube	3.39 3.39 4.09 4.88 5.71 6.50 7.20 7.60
	Eff top tube	20.39 20.87 20.87 21.65 21.65 22.44 22.44 23.03
	Reach	23.02 23.50 24.25 25.43 25.99 26.78 27.35 27.95
	Chainstays	16.34 16.34 16.34 16.34 16.34 16.34 16.34 16.34
	BB height	10.51 10.51 10.51 10.51 10.51 10.51 10.51 10.51
	Offset	1.85 1.85 1.85 1.77 1.77 1.69 1.69 1.69
	Trail	2.36 2.23 2.23 2.27 2.27 2.27 2.27 2.15
	Wheelbase	37.91 38.27 38.27 38.74 38.74 39.53 39.53 39.92

2120

2100

OUR PRICE: \$

Main tubes	Trek butted carbon							42 52	
Stays	Easton tapered aluminum								
Fork	ICON Carbon Classic								
Headset	Tange Seiki Passage								
Handlebars	ICON 6061	22.2/30.2/26.4, 30.9mm stack							
Stem	KWG alloy	26.0mm clamp diameter							
Grips	Cork, black	22.2mm insertion							
Shifters	Shimano RSX STI Dual Control								
Front derailleur	Shimano RX-100								
Rear derailleur	Shimano 105								
Brakes	Shimano RSX								
Brake levers	combi brake/shift								
Crankset	Shimano RSX 52/42	130mm bolt hole circle							
Bottom bracket	Shimano BB-LP27	68 x 110							
Pedals	Look CR2, clipless	9/16" axle							
Cassette	Shimano HG50 11-24	7 spd							
Chain	Sachs PC-21	106 length, 3/32"							
Front hub	Shimano RSX								
Front tire	Continental Super Sport	700 x 25c							
Rear hub	Shimano RSX	HyperGlide Compact cassette, 7 speed, 128mm O.L.D.							
Rear tire	Continental Super Sport	700 x 25c							
Tubes	Presta valve								
Front Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip							
Rear Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip							
Spokes	DT 14G stainless	32 spoke 3x Front, 32 spoke 3x Rear							
Saddle	Selle Bassano Vision, Cro-Moly rails	297, 294/296 (D/ND)							
Seatpost	PM501 Custom	27.2mm diameter							
Seat binder	System Road, 5mm allen, M6 x 25								
Additionals	2 water bottle mounts, rack mounts								
Colors	Yellow Pearl/Inkwell • Yellow/Inkwell decal								
Frame sizes	47	50	52	54	56	58	60	62	
Handlebar width	380	400	400	420	420	440	440		
Stem length	70	70	90	100	115	115	130		
Crank length	170	170	170	170	175	175	175		
Seatpost length	250	250	250	250	250	250	250		
Steerer, mm	125	125	144	164	184	203	223	232	
Fork Length	370mm axle-crown race								
Head angle	72.5	73.0	73.0	73.5	73.5	73.5	73.5	74.0	
Seat angle	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	
MM	Standover	724	753	771	792	811	829	848	858
	Seat tube	470	500	520	540	560	580	600	620
	Head tube	86	86	104	124	145	165	183	193
	Eff top tube	518	530	530	550	550	570	585	
	Reach	588	600	620	650	665	685	700	715
	Chainstays	415	415	415	415	415	415	415	
	BB height	267	267	267	267	267	267	267	
	Offset	47	47	47	43	43	43	43	
	Trail	60	57	57	58	58	58	58	
	Wheelbase	963	972	972	984	984	1004	1004	1014
IN	Standover	28.50	29.65	30.35	31.18	31.93	32.64	33.39	33.78
	Seat tube	18.50	19.69	20.47	21.26	22.05	22.83	23.62	24.41
	Head tube	3.39	3.39	4.09	4.88	5.71	6.50	7.20	7.60
	Eff top tube	20.39	20.87	20.87	21.65	21.65	22.44	22.44	23.03
	Reach	23.15	23.62	24.41	25.59	26.18	26.97	27.56	28.15
	Chainstays	16.34	16.34	16.34	16.34	16.34	16.34	16.34	
	BB height	10.51	10.51	10.51	10.51	10.51	10.51	10.51	
	Offset	1.85	1.85	1.85	1.69	1.69	1.69	1.69	
	Trail	2.36	2.23	2.23	2.27	2.27	2.27	2.27	
	Wheelbase	37.91	38.27	38.27	38.74	39.53	39.53	39.92	

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Main tubes	Easton Program aluminum							30 42 52	
Stays	Easton tapered aluminum								
Fork	Trek epoxy bonded aluminum								
Headset	Tange Seiki Passage	22.2/30.2/26.4, 30.9mm stack							
Handlebars	ICON 6061	26.0mm clamp diameter							
Stem	KWG alloy, 90°	22.2mm insertion							
Grips	Cork, black								
Shifters	Shimano RSX STI Dual Control								
Front derailleur	Shimano RX-100								
Rear derailleur	Shimano 105								
Brakes	Shimano RSX								
Brake levers	combi brake/shift								
Crankset	Sugino RD5000 52/42/30	74/130mm bolt hole circle							
Bottom bracket	Shimano BB-LP27	68 x 118							
Pedals	Alloy/alloy cage w/clips and straps	9/16" axle							
Cassette	Shimano HG50C 11-28	7spd							
Chain	Shimano HG50	108 length, 3/32"							
Front hub	Shimano RSX								
Front tire	Continental Super Sport	700 x 28c							
Rear hub	Shimano RSX	HyperGlide Compact cassette, 7 speed, 128mm O.L.D.							
Rear tire	Continental Super Sport	700 x 28c							
Tubes	Presta valve								
Front Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip							
Rear Rim	Mavic Reflex	602 E.R.D., Velox 16mm rim strip							
Spokes	DT 14G stainless	32 spoke 3x Front, 32 spoke 3x Rear							
Saddle	Selle Bassano Vision, Cro-Moly rails	297, 294/296 (D/ND)							
Seatpost	PM501 Custom	27.2mm diameter							
Seat binder	System Road, 5mm allen, M6 x 25								
Additionals	2 water bottle mounts, rack mounts								
Colors	Ice Earth Green • Titanium decal								
Frame sizes	47	50	52	54	56	58	60	62	
Handlebar width	380	400	400	420	420	440	440		
Stem length	70	70	90	100	115	115	130		
Crank length	170	170	170	170	172.5	172.5	175	175	
Seatpost length	250	250	250	250	250	250	250	250	
Steerer, mm	125	125	144	164	184	203	223	232	
Fork Length	370mm axle-crown race								
Head angle	72.5	73.0	73.0	73.5	73.5	73.5	73.5	74.0	
Seat angle	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	
MM	Standover	724	753	771	792	811	829	848	858
	Seat tube	470	500	520	540	560	580	600	620
	Head tube	86	86	104	124	145</td			

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Main tubes	Aluminum					30	42	52
Stays	Aluminum					11	72	101 125
Fork	Aero Cro-Moly					13	61	85 106
Headset	Tange Seiki Passage				22.2/30.0/27.0, 30.9mm stack			
Handlebars	Alloy				26.0mm clamp diameter			
Stem	Cro-Moly				22.2mm insertion			
Grips	Cork, black							
Shifters	Shimano RSX STI Dual Control							
Front derailleur	Shimano RX-100				Down pull, 31.8mm/1 1/4"			
Rear derailleur	Shimano RSX GS							
Brakes	Shimano RSX							
Brake levers	combi brake/shift							
Crankset	Sugino RD5000 52/42/30				74/130mm bolt hole circle			
Bottom bracket	Shimano BB-LP27				68 x 118			
Pedals	Resin w/clips and straps				9/16" axle			
Cassette	Shimano HG50C 11-28				7spd			
Chain	UG50				110 length, 3/32"			
Front hub	Shimano RSX							
Front tire	Continental Super Sport 100				700 x 23c			
Rear hub	Shimano RSX				HyperGlide Compact cassette, 7 speed, 130mm O.L.D.			
Rear tire	Continental Super Sport 100				700 x 23c			
Tubes	Presta valve							
Front Rim	Rigida V-Argent				PVC rim strip			
Rear Rim	Rigida V-Argent				PVC rim strip			
Spokes	15G stainless				32 spoke 3x Front, 32 spoke 3x Rear			
Saddle	Padded				294, 292/293 (D/ND)			
Seatpost	Alloy micro-adjust							
Seat binder	2 water bottle mounts, rack mounts				27.2mm diameter			
Additionals								
Colors	Titanium • Red decal							
Frame sizes	43	50	54	56	58	60		
Handlebar width	390	410	410	430	430	430		
Stem length	80	80	100	100	100	120		
Crank length	170	170	170	170	175	175		
Seatpost length	270	270	270	270	270	270		
Steerer, mm	130	130	130	145	165	180		
Fork Length	370mm 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	596	596	631	651	661	690	
	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	28.07	29.41	30.12	30.91	31.65	32.32	
	Seat tube	16.93	19.69	21.26	22.05	22.83	23.62	
	Head tube	3.94	3.94	3.94	4.53	5.31	5.91	
	Eff top tube	20.47	20.47	21.10	21.85	22.24	22.64	
	Reach	23.48	23.48	24.86	25.63	26.03	27.18	
	Chainstays	16.34	16.34	16.34	16.34	16.34	16.34	
	BB height	10.47	10.47	10.47	10.47	10.47	10.47	
	Offset	1.85	1.85	1.85	1.85	1.69	1.69	
	Trail	2.36	2.36	2.36	2.11	2.15	2.15	
	Wheelbase	38.58	38.58	38.86	38.94	38.94	39.33	

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Main tubes	Aluminum					42 52	
Stays	Aluminum					11 103 128	
Fork	Aero Cro-Moly					13 87 108	
Headset	Tange Seiki Passage		22.2/30.0/27.0, 30.9mm stack			15 76 94	
Handlebar	Alloy		26.0mm clamp diameter			17 67 83	
Stem	Cro-Moly		22.2mm insertion			19 60 74	
Grips	Cork, black					21 54 67	
Shifters	Shimano RSX STI Dual Control					24 47 59	
Front derailleur	Shimano RX-100		Down pull, 31.8mm/1 1/4"				
Rear derailleur	Shimano RSX SS						
Brakes	Shimano RSX						
Brake levers	combi brake/shift						
Crankset	Shimano RSX 52/42		110mm bolt hole circle				
Bottom bracket	Shimano BB-LP27		68 x 110				
Pedals	Resin w/clips and straps		9/16" axle				
Cassette	Shimano HG50C 11-24		7spd				
Chain	UG50		110 length, 3/32"				
Front hub	Shimano RSX					24.9 lb.	
Front tire	Continental Super Sport 100		700 x 23c			11.30kg	
Rear hub	Shimano RSX		HyperGlide Compact cassette, 7 speed, 130mm O.L.D.				
Rear tire	Continental Super Sport 100		700 x 23c				
Tubes	Presta valve						
Front Rim	Rigida V-Argent		PVC rim strip				
Rear Rim	Rigida V-Argent		PVC rim strip				
Spokes	15G stainless		32 spoke 3x Front, 32 spoke 3x Rear				
Saddle	Padded		294, 293/293 (D/ND)				
Seatpost	Alloy micro-adjust			27.2mm diameter			
Seat binder	2 water bottle mounts, rack mounts						
Additionals	Ice Orange/Silver fade • Silver decal						
Frame sizes	43	50	54	56	58	60	
Handlebar width	390	410	410	430	430	430	
Stem length	80	80	100	100	100	120	
Crank length	170	170	170	170	175	175	
Seatpost length	270	270	270	270	270	270	
Steerer, mm	130	130	130	145	165	180	
Fork Length	370mm 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	596	596	631	651	661	690
	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	28.07	29.41	30.12	30.91	31.65	32.32
	Seat tube	16.93	19.69	21.26	22.05	22.83	23.62
	Head tube	3.94	3.94	3.94	4.53	5.31	5.91
	Eff top tube	20.47	20.47	21.10	21.85	22.24	22.64
	Reach	23.48	23.48	24.86	25.63	26.03	27.18
	Chainstays	16.34	16.34	16.34	16.34	16.34	16.34
	BB height	10.47	10.47	10.47	10.47	10.47	10.47
	Offset	1.85	1.85	1.85	1.85	1.69	1.69
	Trail	2.36	2.36	2.36	2.11	2.15	2.15
	Wheelbase	38.58	38.58	38.86	38.94	38.94	39.33

Main tubes	True Temper double butted Cro-Moly		30 42 52
Stays	Cro-Moly steel		11 74 103 128
Fork	Cro-Moly Touring		13 62 87 108
Headset	Tange Seiki CDS	22.2/30.2/26.4, 33.7mm stack	15 54 76 94
Handlebars	ICON 6061	26.0mm clamp diameter	17 48 67 83
Stem	KWG alloy, 90°	22.2mm insertion	20 41 57 70
Grips	Cork, natural		23 35 49 61
Shifters	Shimano Ultegra bar ends		26 31 44 54
Front derailleur	Shimano 105	Down pull, 31.8mm/1 1/4"	30 27 38 47
Rear derailleur	Shimano Deore LX SGS		
Brakes	Shimano Deore LX cantilevers		
Brake levers	Dia-Compe 287 Aero		
Crankset	Shimano 105 52/42/30	74/130mm bolt hole circle	
Bottom bracket	Shimano BB-UN52	68 x 118	
Pedals	Shimano SPD M323 clipless	9/16" axle	
Cassette	Shimano HG60-1 11-30	8spd	
Chain	Sachs PC-41	114 length, 3/32"	
Front hub	Shimano STX-RC		
Front tire	Continental Super Sport	700 x 28c	
Rear hub	Shimano Deore LX 'Silent Clutch' HyperGlide	Compact cassette, 8 speed, 135mm O.L.D.	
Rear tire	Continental Super Sport	700 x 28c	
Tubes	Presta valve		
Front Rim	Matrix Vapor, eyeleted	610 E.R.D., Velox 19mm rim strip	
Rear Rim	Matrix Vapor, eyeleted	610 E.R.D., Velox 19mm rim strip	
Spokes	DT 14G stainless	36 spoke 3x Front, 36 spoke 3x Rear 297, 294/295 (D/ND)	
Saddle	Selle Bassano Touring, Cro-Moly rails, leather	27.2mm diameter	
Seatpost	PM501 Custom	31.9 clamp diameter	
Seat binder	Alloy w/integral bolt		
Additionals	3 water bottle mounts, front & rear rack mounts, rear rack		
Colors	Pearl Navy • Silver decal		
Frame sizes	17 19 21 23 25		
Handlebar width	380 400 420 440 460		
Stem length	70 90 100 115 130		
Crank length	170 170 170 175 175		
Seatpost length	250 250 250 250 250		
Steerer, mm	141 141 141 171 216		
Fork Length	390mm 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	606 630 650 675 714	
	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	27.44 28.62 30.08 31.73 33.54	
	Seat tube	17.01 19.02 20.98 22.99 25.00	
	Head tube	3.54 3.54 3.54 4.72 6.50	
	Eff top tube	21.26 21.46 21.85 22.28 23.23	
	Reach	23.87 24.81 25.57 26.59 28.11	
	Chainstays	17.72 17.72 17.72 17.72 17.72	
	BB height	10.55 10.55 10.55 10.55 10.55	
	Offset	2.05 2.05 2.05 2.05 2.05	
	Trail	2.53 2.53 2.53 2.28 2.15	
	Wheelbase	41.10 41.18 41.50 41.42 41.81	

Main tubes	Trek/True Temper custom butted Cro-Moly		30 42 54	
Stays	Trek/True Temper custom butted Cro-Moly		11 74 104 134	
Fork	Trek custom Tandem Cro-Moly		13 63 88 113	
Headset	Tange Seiki OV-Al	28.6/37.0/33.0, 40.9mm stack	15 54 76 98	
Handlebars	ICON 6061	26.0mm clamp diameter	17 48 67 87	
Captain Stem	System 1 Tandem Cro-Moly	28.6mm insertion	20 41 57 74	
Stoker Stem	System 3 140-180 adjustable Cro-Moly	27.2mm seatpost	23 36 50 64	
Grips	Trek Comfort		26 31 44 57	
Shifters	Shimano Ultegra bar ends		30 27 38 49	
Front derailleur	Shimano 105	Down pull, 31.8mm/1 1/4"		
Rear derailleur	Shimano Deore XT SGS			
Brakes	Shimano Deore XT V with World Class adapters			
Brake levers	Dia-Compe Stoker levers			
Stoker levers	Dia-Compe 287 aero			
Crankset	Sugino SXD-600 Tandem 54/42/30, Impel rings, 74/110mm bolt hole circle			
Bottom bracket	Shimano BB-UN72	68 x 122.5		
Pedals	ICON clipless	9/16" axle		
Cassette	Shimano HG70-1 11-30	8spd		
Chain	Sachs PC-51	148/112 (152 on 58/53) length, 3/32"		
Front hub	Shimano Deore XT Tandem	700 x 28c		
Front tire	Continental Super Sport 100	HyperGlide Compact cassette, 8 spd, w/threads, 145mm O.L.D.		
Rear hub	Shimano Deore XT Tandem	700 x 28c		
Rear tire	Continental Super Sport 100			
Tubes	Presta valve			
Front Rim	Bontrager Clyde	604 E.R.D., Velox 22mm rim strip		
Rear Rim	Bontrager Clyde	604 E.R.D., Velox 22mm rim strip		
Spokes	13/14G butted stainless	48 spoke 4x Front, 48 spoke 4x Rear 289, 288/289 (D/ND)		
Saddle	Selle Bassano Vision, Women's stoker, leather cover			
Capt's Seatpost	Alloy micro-adjust front	27.2mm diameter		
Stoker Seatpost	Giani suspension stoker	27.2mm diameter		
Seat binder	Alloy w/integral bolt	31.9 clamp diameter		
Additionals	6 water bottle mounts (5 on 50/46), front & rear rack mounts			
Colors	Trek Red • Pearl White decal			
Frame sizes	50/46	54/50	57/47	58/53
Handlebar width	420	460	440	440
Stem length	100	140-180	120	140-180
Crank length	170	170	170	170
Seatpost length	350	330	350	350
Steerer, mm	147	147	183	183
Fork Length	400mm axle-crown race			
Head angle	72.0 73.0 72.0 73.0 73.0			
Seat angle	73.0 73.0 73.0 73.0 73.0			
MM	Standover	753 681 782 748 799		
	Seat tube	511 460 551 509 560		
	Head tube	101 101 101 137 137		
	Eff top tube	554 703 552 699 573		
	Reach	649 569 647 565 688		
	Chainstays	430 430 430 430 430		
	BB height	275 275 275 275 283		
	Offset	60 60 55 55 55		
	Trail	50 107 50 107 49		
	Wheelbase	1733 1727 1727 1738 1758		
IN	Standover	29.65 26.81 30.79 29.45 31.46		
	Seat tube	20.12 18.11 21.69 20.04 22.05		
	Head tube	3.98 3.98 5.39 5.39 5.39		
	Eff top tube	21.81 27.68 21.73 27.52 22.56		
	Reach	25.56 22.41 25.48 22.25 27.08		
	Chainstays	16.93 16.93 16.93 16.93 16.93		
	BB height	10.83 10.83 10.83 10.83 11.14		
	Offset	2.36 2.36 2.17 2.17 2.17		
	Trail	1.98 4.20 1.98 4.20 1.94		
	Wheelbase	68.23 67.99 68.43 68.43 69.21		

Main tubes	Trek/True Temper custom butted Cro-Moly						30 42 54		
Stays	Trek/True Temper custom butted Cro-Moly						11 74 104 134		
Fork	Trek custom Tandem Cro-Moly						13 63 88 113		
Headset	YST 707SW	28.6/37.0/33.0, 40.4mm stack					16 51 72 92		
Handlebars	System 1, 6° bend alloy	25.4mm clamp diameter					19 43 60 77		
Capt's Stem	System 1 Tandem Cro-Moly	28.6mm insertion					22 37 52 67		
Stoker Stem	System 3 140-180 adj. Cro-Moly rear	27.2mm seatpost					26 31 44 57		
Grips	Trek Comfort						30 27 38 49		
Shifters	GripShift SRT-4.0								
Front derailleur	Shimano 105	Down pull, 31.8mm/1 1/4"							
Rear derailleur	Shimano Deore LX SGS								
Brakes	Shimano STX								
Brake levers	Shimano Alivio								
Crankset	Sugino SXD-300 Tandem 54/42/30	74/110mm bolt hole circle							
Bottom bracket	Shimano BB-UN52	68 x 122.5							
Pedals	Resin w/clips and straps	9/16" axle							
Cassette	Shimano IG50 11-30	7spd							
Chain	Sachs PC-51	148/112 (152 on 58/53) length, 3/32"							
Front hub	Shimano STX Tandem								
Front tire	Trek Invert II, 60TPI	700 x 38c							
Rear hub	Shimano STX Tandem	HyperGlide Compact cassette, 7 spd, w/threads, 145mm O.L.D.							
Rear tire	Trek Invert II, 60TPI	700 x 38c							
Tubes	Presta valve								
Front Rim	Bontrager Clyde	604 E.R.D., Velox 22mm rim strip							
Rear Rim	Bontrager Clyde	604 E.R.D., Velox 22mm rim strip							
Spokes	13/14G butted stainless	48 spoke 4x Front, 48 spoke 4x Rear							
Saddle	Selle Bassano Hybrid, Women's stoker	289, 288/289 (D/ND)							
Capt's Seatpost	Alloy micro-adjust front	27.2mm diameter							
Stoker Seatpost	PM900 suspension stoker	27.2mm diameter							
Seat binder	Alloy w/integral bolt, hanger (no hanger on 46), 31.8 clamp diameter								
Additionals	6 water bottle mounts (5 on 50/46), front & rear rack mounts								
Colors	Pearl Navy • Silver decal								
Frame sizes	50/46	54/50	57/47	58/53					
Handlebar width	580	580	580	580	580	580			
Stem length	120	140-180	120	140-180	135	140-180			
Crank length	170	170	175	175	170	175			
Seatpost length	350	350	350	350	350	350			
Steerer, mm	147	147	183	183					
Fork Length	400mm axle-crown race								
Head angle	72.0	73.0	72.0	73.0	73.0	73.0			
Seat angle	73.0	73.0	73.0	73.0	73.0	73.0			
MM	Standover	753	681	782	748	799	727	820	785
	Seat tube	511	460	551	509	560	478	593	539
	Head tube	101		101		137		137	
	Eff top tube	554	703	552	699	573	704	573	720
	Reach	631	569	629	565	662	570	662	586
	Chainstays	430		430		430		430	
	BB height	275	275	275	275	283	275	283	
	Offset	60		60		55		55	
	Trail	50	107	50	107	49	107	49	107
	Wheelbase	1733		1727		1738		1758	
IN	Standover	29.65	26.81	30.79	29.45	31.46	28.62	32.28	30.91
	Seat tube	20.12	18.11	21.69	20.04	22.05	18.82	23.35	21.22
	Head tube	3.98		3.98		5.39		5.39	
	Eff top tube	21.81	27.68	21.73	27.52	22.56	27.72	22.56	28.35
	Reach	24.85	22.41	24.77	22.25	26.05	22.45	26.05	23.08
	Chainstays	16.93		16.93		16.93		16.93	
	BB height	10.83	10.83	10.83	10.83	11.14	10.83	11.14	
	Offset	2.36		2.36		2.17		2.17	
	Trail	1.98	4.20	1.98	4.20	1.94	4.20	1.94	4.20
	Wheelbase	68.23		67.99		68.43		69.21	

Although these bikes may not be particularly expensive, they still deserve a quality assembly. Remember, the customer riding a Mtn. Cub today may be shopping for a Y bike in just a few years!

Bikes and Kids

Pay particular attention to greasing the threads on these bikes. They are often left out in the yard when it rains, etc. etc. They may even be ridden in salt water (shudder!). Make sure to grease the stem bolts (all 4 handlebar clamp bolts on BMX style stems), seatpost, and stem insertion, as well as axle nuts.

Also remember that kids bikes must endure hard play and low maintenance. Make sure all the accessories (like chain guards) are aligned and tightened. Also check the chain tension, as this is part of the braking system on a coaster brake equipped bike.

On bikes with training wheels, the correct height of the training wheels depends on the skill of the rider. For new riders just learning: With correct air pressure in the tires and the rider seated on the bike, there should be 3-5mm clearance between the training wheels and the ground with the bike fully upright. As a rider's skill increases, this gap may be increased to allow leaning the bike in corners, and to teach balance.

Redundant Wheel Retention Devices

With our BMX bikes, do not remove the '2-stage' washers from the front wheel axles. They are redundant retention devices, there to help protect people who neglect to correctly tighten the wheel axle nuts. The portion of the 'tophat' with a smaller diameter fits into the fork's keyhole dropout, while the larger diameter works much like a washer on the outside surface of the fork blade. Make sure they are correctly installed, and instruct the consumer to leave them in place at all times.

Rotors

Some models of BMX bikes are equipped with rotors. When equipped with a rotor, a bike with a front brake can have its handlebars rotated 360° (repeatedly, if you're really good) without catching the brake cable. Bikes with rotors have a specific headset stack with specific washers. Do not attempt to remove headset washers for rotor-equipped bikes.

Also, pay special attention to the brake adjustment on bikes equipped with rotors. Make sure there is adequate possible adjustment of the brake cable tension with the various barrel adjusters involved.

Watch the bearing unit as you rotate the handlebars 360°. It should not move up or down, or tilt. When the brake lever is applied, the rotor should apply the brake firmly while the bearing unit remains parallel to the upper and lower cable stops. If the bearing unit tilts either when the brakes are applied, or when the handlebars are rotated, the rotor needs adjustment.

To adjust the rotor, ensure that both lower barrel adjusters are flush with (do not show above) the lower cable stop, and the bearing unit should be resting on the lower cable stop. Your rear brake adjustment must be made with the bearing unit in this position.

The bearing unit should be parallel to the upper and lower cable stops. If it is tilted, there is slack in one of the cables. Pull each end, one at a time, to see which cable has slack at the bearing unit. Remove the slack through the barrel adjuster. When even pull is achieved, tighten all barrel adjuster locknuts.

CRUISER COOL BREEZE

OUR PRICE: \$

Main tubes	Hi Tensile steel		33	
Stays	Hi Tensile steel			
Fork	Hi Tensile steel			
Headset	Steel	79		
Handlebars	Cruiser, steel	65		
Stem	25.4mm clamp diameter			
Grips	Alloy/steel	53		
Shifters	Kraton			
Brakes	GripShift SRT-4.0 for Nexus, right only			
Brake levers	Shimano Revo coaster	20	43	
Crankset				
Bottom bracket	Dotek, 33T	1 piece		
Pedals	VP-B31W			
Cassette	Resin	35.8 lb. 16.25kg		
Chain	9/16" axle			
Front hub	20T			
Front tire	Single cog			
Rear hub	KMC 408			
Rear tire	98 length, 1/8"			
Tubes	Alloy, nutted			
Front Rim	Whitewall			
Rear Rim	Shimano Nexus 4 speed	26 x 2.0		
Spokes	Whitewall	Internal 4 speed, Nutted front & rear, 110mm O.L.D.		
Saddle	Schraeder valve	26 x 2.0		
Seatpost	Alloy			
Seat binder	Alloy			
Additionals	14G stainless			
Colors	Dual spring	PVC rim strip		
	Steel, chrome plated	PVC rim strip		
		36 spoke 3x Front, 36 spoke 3x Rear		
		265, 254 (D/ND)		
		25.6mm diameter		
Frame sizes	17	20	17W	
Handlebar width	675	675	675	
Stem length	40	40	40	
Crank length	170	170	170	
Seatpost length	300	300	300	
Steerer, mm	156	191	156	
Fork Length	386mm 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	432	508	432
	Head tube	120	155	120
	Eff top tube	562	585	562
	Reach	599	622	599
	Chainstays	450	450	450
	BB height	275	275	275
	Offset	58	58	58
	Trail	64	64	64
	Wheelbase	1080	1105	1080
IN	Standover	26.89	28.62	20.71
	Seat tube	17.01	20.00	17.01
	Head tube	4.72	6.10	4.72
	Eff top tube	22.13	23.03	22.13
	Reach	23.60	24.51	23.60
	Chainstays	17.72	17.72	17.72
	BB height	10.83	10.83	10.83
	Offset	2.28	2.28	2.28
	Trail	2.50	2.50	2.50
	Wheelbase	42.52	43.50	42.52

OUR PRICE: \$

Main tubes	Hi Tensile steel		40	
Stays	Hi Tensile steel		14 75	
Fork	Hi Tensile steel		16 66	
Headset	Steel	22.2/30.0/27.0	18 58	
Handlebars	Cruiser, steel	25.4mm clamp diameter	21 50	
Stem	Alloy/steel	22.2mm insertion	24 44	
Grips	Kraton		28 37	
Shifters	GripShift MRX-170, right only	-		
Brakes	Shimano Tourney TY22			
Brake levers	Shimano Altus CT92			
Crankset	Alloy 4 finger	1 piece		
Bottom bracket	One piece type, 40T			
Pedals	One-piece type			
Cassette	Resin	9/16" axle		
Chain	HG60 14-28	6spd		
Front hub	UG50	106 length, 3/32"		
Front tire	Alloy, nutted	26 x 2.0		
Rear hub	Whitewall	Threaded, 6 speed, Nutted front & rear, 110mm O.L.D.		
Rear tire	Alloy, nutted	26 x 2.0		
Tubes	Whitewall			
Front Rim	Schraeder valve	PVC rim strip		
Rear Rim	Alloy	PVC rim strip		
Spokes	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear		
Saddle	Dual spring	265, 262/263 (D/ND)		
Seatpost	Steel, chrome plated	25.6mm diameter		
Seat binder				
Additionals				
Colors	Kickstand, chainguard			
	Sea Green/Dark Teal fade • White decal (men's/women's)			
	Mirror Black • Rust Red decal (men's)			
	Plum • Titanium decal (women's)			
Frame sizes	17	20	17W	
Handlebar width	675	675	675	
Stem length	40	40	40	
Crank length	170	170	170	
Seatpost length	300	300	300	
Steerer, mm	156	194	156	
Fork Length	386mm 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	432	508	432
	Head tube	120	155	120
	Eff top tube	562	585	562
	Reach	599	622	599
	Chainstays	450	450	450
	BB height	275	275	275
	Offset	58	58	58
	Trail	64	64	64
	Wheelbase	1080	1105	1080
IN	Standover	26.89	28.62	20.71
	Seat tube	17.01	20.00	17.01
	Head tube	4.72	6.10	4.72
	Eff top tube	22.13	23.03	22.13
	Reach	23.60	24.51	23.60
	Chainstays	17.72	17.72	17.72
	BB height	10.83	10.83	10.83
	Offset	2.28	2.28	2.28
	Trail	2.50	2.50	2.50
	Wheelbase	42.52	43.50	42.52

CRUISER CLASSIC

OUR PRICE: \$

Main tubes	Hi Tensile steel						
Stays	Hi Tensile steel						
Fork	Hi Tensile steel						
Headset	Steel	22.2/30.0/27.0					
Handlebars	Cruiser, steel	25.4mm clamp diameter					
Stem	Alloy/steel	22.2mm insertion					
Grips	Kraton						
Brakes	Shimano coaster						
Brake levers	-	1 piece					
Crankset	One piece type, 40T						
Bottom bracket	One-piece type						
Pedals	Resin	9/16" axle					
Cassette	18T	1spd					
Chain	KMC 410	100 length, 1/8"					
Front hub	Alloy, nutted	26 x 2.0					
Front tire	Whitewall	Nutted front, Coaster rear, 110mm O.L.D.					
Rear hub	Shimano coaster	26 x 2.0					
Rear tire	Whitewall						
Tubes	Schraeder valve						
Front Rim	Alloy	PVC rim strip					
Rear Rim	Alloy	PVC rim strip					
Spokes	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear					
Saddle	Dual spring	265, 261 (D/ND)					
Seatpost	Steel, chrome plated	25.6mm diameter					
Seat binder							
Additionals							
Colors	Kickstand, chainguard Ice Royal Blue • White decal (men's/women's) Ice Red • Silver decal (men's) Pearl Turquoise • Metallic Plum decal (women's)						
Frame sizes	17	20	17W				
Handlebar width	675	675	675				
Stem length	40	40	40				
Crank length	300	300	300				
Seatpost length	156	191	156				
Steerer, mm							
Fork Length		386mm 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	432	508	432			
	Head tube	120	155	120			
	Eff top tube	562	585	562			
	Reach	599	622	599			
	Chainstays	450	450	450			
	BB height	275	275	275			
	Offset	58	58	58			
	Trail	64	64	64			
	Wheelbase	1080	1105	1080			
IN	Standover	26.89	28.62	20.71			
	Seat tube	17.01	20.00	17.01			
	Head tube	4.72	6.10	4.72			
	Eff top tube	22.13	23.03	22.13			
	Reach	23.60	24.51	23.60			
	Chainstays	17.72	17.72	17.72			
	BB height	10.83	10.83	10.83			
	Offset	2.28	2.28	2.28			
	Trail	2.50	2.50	2.50			
	Wheelbase	42.52	43.50	42.52			

OUR PRICE: \$

Main tubes	Hi Tensile steel w/Cro-Moly seat tube						
Stays	Hi Tensile steel						
Fork	RST 261	22.2/30.0/27.0, 33.5mm stack					
Headset	VP H67W	25.4mm clamp diameter					
Handlebars	Steel, 50mm rise	22.2mm insertion					
Stem	Steel ATB						
Grips	Trek Paw design						
Shifters	GripShift MRX-170						
Front derailleur	Shimano Altus CT92	Down pull, 28.6mm/1 1/8"					
Rear derailleur	Shimano Altus CT92 GS						
Brakes	Lee Chi TX33 direct pull						
Brake levers	Lee Chi LV77E direct pull						
Crankset	Shimano Altus CT92 42/34/24 w/chainguard, Riveted						
Bottom bracket	Shimano BB-CT92E	68 x 116					
Pedals	Resin	9/16" axle					
Cassette	Shimano HG50C 11-28	7spd					
Chain	UG50	102 length, 3/32"					
Front hub	Alloy, nutted	24 x 2.0					
Front tire	Knobby	HyperGlide cassette, 7 spd, nutted front & rear, 135mm O.L.D.					
Rear hub	Shimano Altus	24 x 2.0					
Rear tire	Knobby						
Tubes	Schraeder valve						
Front Rim	Weinmann 519 alloy	Rubber rim strip					
Rear Rim	Weinmann 519 alloy	Rubber rim strip					
Spokes	14G stainless	36 spoke 3x Front, 36 spoke 3x Rear					
Saddle	Padded w/Trek logo	239, 236/238 (D/ND)					
Seatpost	Alloy micro-adjust	26.6mm diameter					
Seat binder	Cro-Moly M6 x 23.5						
Additionals	Rear derailleur guard						
Colors	Ice Mirror Red • Yellow decal						
Frame sizes	13B	13G					
Handlebar width	540	540					
Stem length	80	80					
Crank length	170	170					
Seatpost length	300	250					
Steerer, mm	117	117					
Fork Length		377mm axle-crown race					
Head angle	70.0	70.0					
Seat angle	72.0	72.0					
MM	Standover	615	550				
	Seat tube	335	335				
	Head tube	85	85				
	Eff top tube	527	527				
	Reach	567	567				
	Chainstays	406	406				
	BB height	275	275				
	Offset	45	45				
	Trail	62	62				
	Wheelbase	988	988				
IN	Standover	24.21	21.65				
	Seat tube	13.19	13.19				
	Head tube	3.35	3.35				
	Eff top tube	20.75	20.75				
	Reach	22.32	22.32				
	Chainstays	15.98	15.98				
	BB height	10.83	10.83				
	Offset	1.77	1.77				
	Trail	2.45	2.45				
	Wheelbase	38.90	38.90				

MT. TRACK 220

OUR PRICE: \$

Main tubes	Hi Tensile steel	24 34 42	
Stays	Hi Tensile steel	14	40 57 71
Fork	Hi Tensile steel	16	35 50 62
Headset	VP H67W	18	31 45 55
Handlebars	Steel, 40mm rise	21	27 38 47
Stem	25.4mm clamp diameter	24	24 33 41
Grips	22.2mm insertion	28	20 29 35
Shifters	Trek Paw design		
	GripShift MRX-170		
Front derailleur	Shimano Altus CT92		
Rear derailleur	Shimano Tourney TY30		
Brakes	Lee Chi TX33 direct pull		
Brake levers	Lee Chi LV77E direct pull		
Crankset	Sugino XR17 42/34/24		
Bottom bracket	VP B31W		
Pedals	Resin		
Cassette	Shimano HG22 14-28		
Chain	UG50		
Front hub	Alloy, nutted		
Front tire	Knobby		
Rear hub	Alloy, nutted		
Rear tire	Knobby		
Tubes	Schraeder valve		
Front Rim	Weinmann 519 alloy		
Rear Rim	Weinmann 519 alloy		
Spokes	14G UCP		
Saddle	Padded w/Trek logo		
Seatpost	Alloy micro-adjust		
Additionals	Rear derailleur guard		
Colors	Ice Royal Blue • Silver decal (boy's)		
	Ice Orange • Dark Purple decal (boy's)		
	Team fade • Team Yellow decal (boy's)		
	Ice Grape Purple • Pink decal (girl's)		
	Ice Teal • Yellow decal (girl's)		
Frame sizes			
Handlebar width	13B 13G		
Stem length	540 540		
Crank length	80 80		
Seatpost length	170 170		
Steerer, mm	300 300		
	162 162		
Fork Length	350mm 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	528	528
	Reach	568	568
	Chainstays	406	406
	BB height	275	275
	Offset	45	45
	Trail	62	62
	Wheelbase	988	988
IN	Standover	23.86	21.65
	Seat tube	13.19	13.19
	Head tube	3.54	3.54
	Eff top tube	20.79	20.79
	Reach	22.36	22.36
	Chainstays	15.98	15.98
	BB height	10.83	10.83
	Offset	1.77	1.77
	Trail	2.45	2.45
	Wheelbase	38.90	38.90

OUR PRICE: \$

Main tubes	Hi Tensile steel	40
Stays	Hi Tensile steel	14
Fork	Hi Tensile steel	16
Headset	Steel	18
Handlebars	Steel, 50mm rise	21
Stem	Steel ATB	24
Grips	Trek Paw design	28
Shifters	GripShift MRX-170, right only	
Front derailleur	-	
Rear derailleur	Shimano Tourney TY22	
Brakes	Shimano Altus CT92	
Brake levers	Alloy	
Crankset	Three-piece type w/chainguard, 40T	
Bottom bracket	1 piece	
Pedals	VP-B31W	
Cassette	Resin	
Chain	Shimano HG22 14-28	
Front hub	UG50	
Front tire	Steel	
Rear hub	Knobby	
Rear tire	Steel	
Tubes	Knobby	
Front Rim	Schraeder valve	
Rear Rim	Aluminum alloy	
Spokes	Aluminum alloy	
	14G UCP	
Saddle	Rubber rim strip	
Seatpost	Rubber rim strip	
Additionals	36 spoke 3x Front, 36 spoke 3x Rear	
Colors	239, 236/238 (D/ND)	
	100 length, 3/32"	
	20 x 1.95	
	Threaded, 6 speed, Nutted front & rear, 125mm O.L.D.	
	20 x 1.95	
Frame sizes		
Handlebar width	12B 12G	
Stem length	520 520	
Crank length	80 80	
Seatpost length	140 140	
Steerer, mm	300 250	
	132 132	
Fork Length	309mm axle-crown race	
Head angle	70.0 70.0	
Seat angle	72.0 72.0	
MM	Standover	562
	Seat tube	305
	Head tube	95
	Eff top tube	435
	Reach	475
	Chainstays	385
	BB height	267
	Offset	45
	Trail	46
	Wheelbase	885
IN	Standover	22.13
	Seat tube	12.01
	Head tube	3.74
	Eff top tube	17.13
	Reach	18.70
	Chainstays	15.16
	BB height	10.51
	Offset	1.77
	Trail	1.81
	Wheelbase	34.84
		19.88
		3.74
		17.13
		20.09
		15.16
		10.51
		1.77
		1.81
		34.84

MT. LION 30

OUR PRICE: \$

Main tubes	Hi Tensile steel		36
Stays	Hi Tensile steel		
Fork	Hi Tensile steel		
Headset	Steel	21.2/32.5/27.0	
Handlebars	Steel BMX, 150mm rise	25.4mm clamp diameter	
Stem	4 bolt BMX, alloy top	21.2mm insertion	
Grips	Trek Paw design		
Brakes	Coaster, rear alloy sidepull		
Brake levers	Alloy/resin		
Crankset	One-piece type, 36T	1 piece	
Bottom bracket	One-piece type		
Pedals	Resin	1/2" axle	
Cassette	19T	1spd	
Chain	KMC 410	86 length, 1/8"	
Front hub	Steel		
Front tire	Trek Paw design	20 x 2.0	
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.	
Rear tire	Trek Paw design	20 x 2.0	
Tubes	Schraeder valve		
Front Rim	Steel	Rubber rim strip	
Rear Rim	Steel	Rubber rim strip	
Spokes	14G UCP	36 spoke 3x Front, 36 spoke 3x Rear 186, 184 (D/ND)	
Saddle	Trek Paw design		
Seatpost	Steel	22.2mm diameter	
Additionals	Chainguard, kickstand, and pads		
Colors	Ice Royal Blue • Red decal (boy's) Ice Red • Yellow decal (boy's) Vivid Purple • Yellow decal (girl's) Pink • Yellow decal (girl's)		
Frame sizes	9.5B	9.5G	
Handlebar width	550	550	
Stem length			
Crank length	115	115	
Seatpost length	250	250	
Steerer, mm	130	130	
Fork Length		309mm 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	469	469
	Reach	469	469
	Chainstays	372	372
	BB height	255	255
	Offset	27	27
	Trail	70	70
	Wheelbase	883	833
IN	Standover	19.96	18.39
	Seat tube	9.57	9.57
	Head tube	3.54	3.54
	Eff top tube	18.46	18.46
	Reach	18.46	18.46
	Chainstays	14.65	14.65
	BB height	10.04	10.04
	Offset	1.06	1.06
	Trail	2.75	2.75
	Wheelbase	34.76	32.80

OUR PRICE: \$

Main tubes	Hi Tensile steel		32
Stays	Hi Tensile steel		
Fork	Hi Tensile steel	22.2/30.0/27.0	
Headset	Steel	25.4mm clamp diameter	
Handlebars	Steel BMX, 130mm rise	22.2mm insertion	
Stem	4 bolt BMX, alloy top		
Grips	Trek Paw design		
Brakes	Coaster		
Brake levers	-		
Crankset	One-piece type, 32T	1 piece	
Bottom bracket	One-piece type	24 TPI	
Pedals	Resin	1/2" axle	
Cassette	19T	1spd	
Chain	KMC 410	74 length, 1/8"	
Front hub	Steel		
Front tire	Trek Paw design	16 x 1.75	
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.	
Rear tire	Trek Paw design	16 x 1.75	
Tubes	Schraeder valve		
Front Rim	Steel	Rubber rim strip	
Rear Rim	Steel	Rubber rim strip	
Spokes	14G UCP	28 spoke 4x Front, 28 spoke 4x Rear 138, 133 (D/ND)	
Saddle	Trek Paw design		
Seatpost	Steel	22.2mm diameter	
Additionals	Training wheels, chainguard, and pads		
Colors	Ice Royal Blue • Yellow decal (boy's) Ice Red • Royal Blue decal (boy's) Vivid Purple • Pink decal (girl's) Ice Pink • Yellow decal (girl's)		
Frame sizes	9B	9G	
Handlebar width	510	510	
Stem length			
Crank length	114	114	
Seatpost length	220	220	
Steerer, mm			
Fork Length		243mm 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	405	405
	Chainstays	315	315
	BB height	208	208
	Offset	26	26
	Trail	41	41
	Wheelbase	741	741
IN	Standover	17.13	16.14
	Seat tube	9.29	9.29
	Head tube	3.74	3.74
	Eff top tube	15.94	15.94
	Reach	15.94	15.94
	Chainstays	12.40	12.40
	BB height	8.19	8.19
	Offset	1.02	1.02
	Trail	1.61	1.61
	Wheelbase	29.17	29.17

MT. CUB 12

OUR PRICE: \$

Main tubes	Hi Tensile steel						
Stays	Hi Tensile steel						
Fork	Hi Tensile steel						
Headset	Steel	22.2/30.0/27.0					
Handlebars	Steel BMX, 130mm rise	25.4mm clamp diameter					
Stem	Steel	22.2mm insertion					
Grips	Trek Paw design						
Brakes	Coaster						
Brake levers	-						
Crankset	One-piece type, 28T	1 piece					
Bottom bracket	One-piece type	24TPI					
Pedals	Resin	1/2" axle					
Cassette	19T	1spd					
Chain	KMC 410	60 length, 1/8"					
Front hub	Steel						
Front tire	Trek Paw design	12.5 x 2.125					
Rear hub	Coaster brake	Nutted front, Coaster rear, 110mm O.L.D.					
Rear tire	Trek Paw design	12.5 x 2.125					
Tubes	Schraeder valve						
Front Rim	Steel	Rubber rim strip					
Rear Rim	Steel	Rubber rim strip					
Spokes	14G UCP	20 spoke 2x Front, 20 spoke 2x Rear					
Saddle	Trek Paw design	87, 80 (D/ND)					
Seatpost	Steel	22.2mm diameter					
Additionals	Training wheels, chainguard, and pads						
Colors	Black • Lime Green decal (boy's)						
	Misty Pink • White decal (girl's)						
Frame sizes	8	8G					
Handlebar width	480	480					
Stem length							
Crank length	90	90					
Seatpost length	200	200					
Steerer, mm							
Fork Length		213mm axle-crown race					
Head angle	71.8	71.8					
Seat angle	63.7	63.7					
MM	Standover	396	396				
	Seat tube	200	200				
	Head tube	100	100				
	Eff top tube	342	342				
	Reach	342	342				
	Chainstays	230	230				
	BB height	189	189				
	Offset	20	20				
	Trail	30	30				
	Wheelbase	560	560				
IN	Standover	15.59	15.59				
	Seat tube	7.87	7.87				
	Head tube	3.94	3.94				
	Eff top tube	13.46	13.46				
	Reach	13.46	13.46				
	Chainstays	9.06	9.06				
	BB height	7.44	7.44				
	Offset	0.79	0.79				
	Trail	1.18	1.18				
	Wheelbase	22.05	22.05				

OUR PRICE: \$

Main tubes	7005 heat treated aluminum						
Stays	7000 series aluminum						
Fork	Cro-Moly/Hi-Ten						
Headset	Dia-Compe SE-1 Aheadset						
Handlebars	Trek	25.4/34.0/30.0, 24.5mm stack					
Stem	Alloy 4 bolt Ahead	25.4mm clamp diameter					
Grips	Trek logo, Kraton w/replaceable endcaps	30.0mm steerer clamp height					
Brakes	VB-887 direct pull, rear						
Brake levers	281DT, right only						
Crankset	1-pc. type, 2pc. spider/sprocket, 44T	110mm bolt hole circle					
Bottom bracket	One-piece type	24 TPI					
Pedals	LU-313	1/2" axle					
Cassette	16T	1spd					
Chain	410A	90 length, 1/8"					
Front hub	Alloy, sealed						
Front tire	Knobby, Comp III style	20 x 2.125					
Rear hub	Alloy, sealed	Threaded, 1 spd, nutted f/r , 110mm O.L.D.					
Rear tire	Knobby, Comp III style	20 x 1.75					
Tubes	Schraeder valve						
Front Rim	Aluminum alloy	Rubber rim strip					
Rear Rim	Aluminum alloy	Rubber rim strip					
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear					
Saddle	Trek padded	190, 188/188 (D/ND)					
Seatpost	Steel micro-adjust, chrome plated	26.8mm diameter					
Seat binder	Alloy 2 bolt						
Additionals	Chainguard						
Colors	Ball Burnished • White w/blue/yellow decal						
	Matte Grey Green • Light Blue w/yellow/black decal						
Frame sizes	Expert						
Handlebar width	700						
Stem length	50						
Crank length	175						
Seatpost length	350						
Steerer, mm	152						
Fork Length	286mm axle-crown race						
Head angle	73.5						
Seat angle	71.0						
MM	Standover	203					
	Seat tube	100					
	Head tube	501					
	Eff top tube	549					
	Reach	382					
	Chainstays	297					
	BB height	33					
	Offset	42					
	Trail	915					
IN	Standover	7.99					
	Seat tube	3.94					
	Head tube	3.94					
	Eff top tube	19.72					
	Reach	21.61					
	Chainstays	15.04					
	BB height	11.69					
	Offset	1.30					
	Trail	1.66					
	Wheelbase	36.02					

SUB ATOMIC SS

OUR PRICE: \$

Main tubes	7005 heat treated aluminum		44
Stays	7000 series aluminum		
Fork	Cro-Moly		
Headset	Dia-Compe SE-1 Aheadset		
Handlebars	Trek Cro-Moly	25.4/34.0/30.0, 24.5mm stack	
Stem	Alloy 4 bolt Ahead	25.4mm clamp diameter	
Grips	Trek logo, Kraton w/replaceable endcaps	30.0mm steerer clamp height	
Brakes	Tektro 875A V-brake (rear)		
Brake levers	Tektro RBP-291A		
Crankset	1 pc. Cro-Moly, 2pc. spider/sprocket, 44T		
Bottom bracket	One-piece type	110mm bolt hole circle	
Pedals	LU-953	24 TPI	
Cassette	16T	1/2" axle	
Chain	410A	1spd	
Front hub	Alloy, sealed	90 length, 1/8"	
Front tire	Knobby, Comp III style	20 x 2.125	
Rear hub	Alloy, sealed	Threaded, 1 spd, nutted f/r, 110mm O.L.D.	
Rear tire	Knobby, Comp III style	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear 188, 188/188 (D/ND)	
Saddle	Trek padded		
Seatpost	Cro-Moly micro-adjust, chrome plated	26.8mm diameter	
Seat binder	Alloy 2 bolt		
Additionals	Chainguard		
Colors	Matte Royal Blue • Yellow w/red/black decal Ball Burnished • Yellow w/red/teal decal		
Frame sizes	Expert		
Handlebar width	700		
Stem length	50		
Crank length	175		
Seatpost length	350		
Steerer, mm	162		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 100 546 594 420 297 33 42 915	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 3.94 21.50 23.38 16.54 11.69 1.30 1.66 36.02	

OUR PRICE: \$

Main tubes	7005 heat treated aluminum		44
Stays	7000 series aluminum		
Fork	Cro-Moly	25.4/34.0/30.0, 24.5mm stack	
Headset	Dia-Compe SE-1 Aheadset	25.4mm clamp diameter	
Handlebars	Cro-Moly	30.0mm steerer clamp height	
Stem	Alloy 4 bolt Ahead		
Grips	Trek logo, Kraton w/replaceable endcaps		
Brakes	Tektro 875A V brake (rear)		
Brake levers	Tektro RBP-291A		
Crankset	1 pc. Cro-Moly, 2pc. spider/sprocket, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	LU-953	1/2" axle	
Cassette	16T	1spd	
Chain	410A	90 length, 1/8"	
Front hub	Alloy, sealed	20 x 2.125	
Front tire	Tioga Comp III skinwall	Threaded, 1 spd, nutted f/r, 110mm O.L.D.	
Rear hub	Alloy, sealed	20 x 1.75	
Rear tire	Tioga Comp III skinwall		
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear 188, 188/188 (D/ND)	
Saddle	Kevlar corners, Cro-Moly rails		
Seatpost	Cro-Moly micro-adjust, chrome plated	26.8mm diameter	
Seat binder	Alloy 2 bolt		
Additionals	Chainguard		
Colors	Ball Burnished • Light blue/purple/lime decal		
Frame sizes	Expert		
Handlebar width	700		
Stem length	55		
Crank length	175		
Seatpost length	350		
Steerer, mm	162		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 100 546 599 420 297 33 42 915	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 3.94 21.50 23.57 16.54 11.69 1.30 1.66 36.02	

SUB CULTURE

OUR PRICE: \$

Main tubes	7005 heat treated aluminum		44
Stays	7000 series aluminum		
Fork	Cro-Moly	25.4/34.0/30.0, 24.5mm stack	
Headset	Dia-Compe SE-1 Aheadset	25.4mm clamp diameter	
Handlebars	Cro-Moly	30.0mm steerer clamp height	
Stem	Alloy 4 bolt Ahead		
Grips	Trek logo, Kraton w/replaceable endcaps		
Brakes	Tektro 875A V brake (rear)		
Brake levers	Tektro RBP-291A		
Crankset	1 pc. Cro-Moly, 2pc. spider/sprocket, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	LU-953	1/2" axle	
Cassette	16T	1spd	
Chain	410A	90 length, 1/8"	
Front hub	Alloy, sealed	20 x 2.125	
Front tire	Tioga Comp III skinwall	Threaded, 1 spd, nutted f/r, 110mm O.L.D.	
Rear hub	Alloy, sealed	20 x 1.75	
Rear tire	Tioga Comp III skinwall		
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear 188, 188/188 (D/ND)	
Saddle	Kevlar corners, Cro-Moly rails		
Seatpost	Cro-Moly micro-adjust, chrome plated	26.8mm diameter	
Seat binder	Alloy 2 bolt		
Additionals	Chainguard		
Colors	Ball Burnished • Light blue/purple/lime decal		
Frame sizes	Expert		
Handlebar width	700		
Stem length	55		
Crank length	175		
Seatpost length	350		
Steerer, mm	162		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 100 546 599 420 297 33 42 915	
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 3.94 21.50 23.57 16.54 11.69 1.30 1.66 36.02	

TEAM ISSUE 24

OUR PRICE: \$

Main tubes	6061 T6 TIG aluminum		44
Stays	6061 T6 TIG aluminum		
Fork	Cro-Moly, 1 1/4" tapered		
Headset	Aheadset	25.4/34.0/30.0, 33mm stack	16
Handlebars	Trek Cruiser	25.4mm clamp diameter	65
Stem	Trek Alloy Ahead	31.7mm steerer clamp height	
Grips	Trek Kraton		
Brakes	VB-887 direct pull, rear		
Brake levers	281DT, right only		
Crankset	1 pc type, 2 pc. spider/ring, 44T 110mm bolt hole circle		
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform, alloy	1/2" axle	
Cassette	16T	1spd	
Chain	Taya EA410	96 length, 1/8"	
Front hub	KT alloy		
Front tire	Comp III Type	24 x 2.125	
Rear hub	KT alloy	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	24 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Trek padded	238, 236/236 (D/ND)	
Seatpost	Micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Colors	Platinum Silver • Metal Orange w/black/white decal		
		27.0 lb. 12.26kg	
Frame sizes	Pro Cruiser		
Handlebar width	700		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	173		
Fork Length	358mm axle-crown race		
Head angle	71.5		
Seat angle	70.5		
MM	Standover	278	
	Seat tube	110	
	Head tube	520	
	Eff top tube	567	
	Reach	418	
	Chainstays	297	
	BB height	33	
	Offset	67	
	Trail	1015	
IN	Standover	10.94	
	Seat tube	4.33	
	Head tube	20.47	
	Eff top tube	22.34	
	Reach	16.46	
	Chainstays	11.69	
	BB height	1.30	
	Offset	2.62	
	Trail	39.96	
	Wheelbase		

OUR PRICE: \$

Main tubes	High tensile steel		44
Stays	High tensile steel		
Fork	1 1/4" tapered		
Headset	Steel	21.2/32.5/27.0, 38.0mm stack	
Handlebars	Trek	25.4mm clamp diameter	
Stem	4 bolt BMX, alloy	21.2mm insertion	
Grips	Trek Kraton		
Brakes	879 cantilever, rear		
Brake levers	257A-1, right only		
Crankset	1 pc type, 2 pc. spider/ring, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform	1/2" axle	
Cassette	16T	1spd	
Chain	Taya TB410	88 length, 1/8"	
Front hub	Formula		
Front tire	Comp III Type	20 x 1.75	
Rear hub	Formula	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	PVC rim strip	
Rear Rim	Aluminum alloy	PVC rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Trek	190, 187/187 (D/ND)	
Seatpost	Trek	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Colors	Ice Red • Team Yellow w/black/white decal		
	Chrome • Lime w/bluegreen/white decal		
Frame sizes	Expert		
Handlebar width	700		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	138		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover	229	
	Seat tube	100	
	Head tube	517	
	Eff top tube	565	
	Reach	368	
	Chainstays	297	
	BB height	33	
	Offset	42	
	Trail	912	
IN	Standover	9.02	
	Seat tube	3.94	
	Head tube	20.35	
	Eff top tube	22.24	
	Reach	14.49	
	Chainstays	11.69	
	BB height	1.30	
	Offset	1.66	
	Trail	35.91	
	Wheelbase		

SUB MISSION

OUR PRICE: \$

Main tubes	Hi Tensile steel w/Cro-Moly seat tube		44
Stays	High tensile steel		
Fork	1 1/4" tapered		
Headset	Aheadset		
Handlebars	Trek	25.4/34.0/30.0, 33mm stack	
Stem	Trek Alloy Ahead	25.4mm clamp diameter	
Grips	Trek Kraton	31.7mm steerer clamp height	
Brakes	VB-885 direct pull, rear		
Brake levers	VL-281, right only		
Crankset	1 pc. type, 2 pc. spider/ring, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform	1/2" axle	
Cassette	16T	1spd	
Chain	Taya EA410	88 length, 1/8"	
Front hub	Formula		
Front tire	Comp III Type	20 x 2.125	
Rear hub	Formula	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Trek padded	190, 187/187 (D/ND)	
Seatpost	Micro-adjust	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Colors	Mellow Gold • Crimson w/black/white decal Chrome • Lemon w/deep blue/white decal		
Frame sizes	Expert		
Handlebar width	710		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	162		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover	229	
	Seat tube	100	
	Head tube	517	
	Eff top tube	565	
	Reach	368	
	Chainstays	297	
	BB height	33	
	Offset	42	
	Trail	912	
IN	Standover	9.02	
	Seat tube	3.94	
	Head tube	20.35	
	Eff top tube	22.24	
	Reach	14.49	
	Chainstays	11.69	
	BB height	1.30	
	Offset	1.66	
	Trail	35.91	
	Wheelbase		

OUR PRICE: \$

Main tubes	Cro-Moly steel		44
Stays	Cro-Moly steel		
Fork	Cro-Moly, 1 1/4" tapered	25.4/34.0/30.0, 33mm stack	
Headset	Aheadset	25.4mm clamp diameter	
Handlebars	Trek Cro-Moly	31.7mm steerer clamp height	
Stem	Trek Alloy Ahead		
Grips	Trek Kraton		
Brakes	VB-887 direct pull, rear		
Brake levers	281DT, right only		
Crankset	1 pc. type, 2 pc. spider/ring, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform, alloy	1/2" axle	
Cassette	16T	1spd	
Chain	Taya EA410	90 length, 1/8"	
Front hub	KT alloy		
Front tire	Comp III Type	20 x 2.125	
Rear hub	KT alloy	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Trek padded	190, 187/187 (D/ND)	
Seatpost	Micro-adjust	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Colors	Tidal Blue • Sky Blue w/black/white decal		
Frame sizes	Pro		
Handlebar width	710		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	162		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover	229	
	Seat tube	100	
	Head tube	520	
	Eff top tube	568	
	Reach	375	
	Chainstays	297	
	BB height	33	
	Offset	42	
	Trail	949	
IN	Standover	9.02	
	Seat tube	3.94	
	Head tube	20.47	
	Eff top tube	22.36	
	Reach	14.76	
	Chainstays	11.69	
	BB height	1.30	
	Offset	1.66	
	Trail	37.36	
	Wheelbase		

TEAM ISSUE 3

OUR PRICE: \$

Main tubes	6061T6 TIG aluminum		44
Stays	6061T6 TIG aluminum		
Fork	1 1/4" tapered		
Headset	Aheadset	25.4/34.0/30.0, 33mm stack	
Handlebars	Trek	25.4mm clamp diameter	
Stem	Trek Alloy Ahead	31.7mm steerer clamp height	
Grips	Trek Kraton		
Brakes	VB-887 direct pull, rear		
Brake levers	281DT, right only		
Crankset	1 pc. type, 2 pc. spider/ring, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform, alloy	1/2" axle	
Cassette	16T	1spd	
Chain	Taya EA410	90 length, 1/8"	
Front hub	KT alloy		
Front tire	Comp III Type	20 x 2.125	
Rear hub	KT alloy	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Trek padded	190, 187/187 (D/ND)	
Seatpost	Micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Colors	Team Yellow • Red w/black/silver decal		
			25.6 lb. 11.62kg
Frame sizes	Pro		
Handlebar width	700		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	173		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover		
	Seat tube	275	
	Head tube	110	
Eff top tube	514		
	Reach	562	
	Chainstays	387	
	BB height	292	
	Offset	26	
	Trail	49	
	Wheelbase	921	
IN	Standover		
	Seat tube	10.83	
	Head tube	4.33	
Eff top tube	20.24		
	Reach	22.12	
	Chainstays	15.24	
	BB height	11.50	
	Offset	1.02	
	Trail	1.95	
	Wheelbase	36.26	

OUR PRICE: \$

Main tubes	6061T6 TIG aluminum		44
Stays	6061T6 TIG aluminum		
Fork	Cro-Moly, 1 1/4" tapered	25.4/34.0/30.0, 33mm stack	
Headset	Aheadset	25.4mm clamp diameter	
Handlebars	Trek Cro-Moly	31.7mm steerer clamp height	
Stem	Trek Alloy Ahead		
Grips	Trek Kraton		
Brakes	VB-887 direct pull, rear		
Brake levers	281DT, right only		
Crankset	1-pc. Cro-Moly, 2 pc. spider/ring, 44T	110mm bolt hole circle	
Bottom bracket	One-piece type	24 TPI	
Pedals	Platform	1/2" axle	
Cassette	16T	1spd	
Chain	Taya TB410	90 length, 1/8"	
Front hub	Formula, alloy		
Front tire	Comp III Type	20 x 2.125	
Rear hub	Formula, alloy	Cassette, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear tire	Comp III Type	20 x 1.75	
Tubes	Schraeder valve		
Front Rim	Araya 7X alloy	Rubber rim strip	
Rear Rim	Araya 7X alloy	Rubber rim strip	
Spokes	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Saddle	Padded Kevlar, embroidered	188, 187/187 (D/ND)	
Seatpost	Alloy micro-adjust	27.2mm diameter	
Seat binder	Alloy w/integral bolt	35.0 clamp diameter	
Colors	Blaze Red • Team Yellow w/black/white decal		
			24.8 lb. 11.26kg
Frame sizes	Pro XL		
Handlebar width	700		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	173		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover		
	Seat tube	275	
	Head tube	110	
Eff top tube	533		
	Reach	581	
	Chainstays	387	
	BB height	292	
	Offset	26	
	Trail	49	
	Wheelbase	940	
IN	Standover		
	Seat tube	10.83	
	Head tube	4.33	
Eff top tube	20.98		
	Reach	22.87	
	Chainstays	15.24	
	BB height	11.50	
	Offset	1.02	
	Trail	1.95	
	Wheelbase	37.01	

TEAM ISSUE 1

OUR PRICE: \$

Main tubes	6061T6 TIG aluminum		44
Stays	6061T6 TIG aluminum		
Fork	Cro-Moly, 1 1/4" tapered		
Headset	Aheadset		
Handlebars	Trek Cro-Moly	25.4/34.0/30.0, 33mm stack	16
Stem	Trek Alloy Ahead	25.4mm clamp diameter	55
Grips	Trek Kraton	31.7mm steerer clamp height	
Brakes			
Brake levers	Shimano M600 V rear		
Crankset	Shimano M600 V, right only		
Bottom bracket	3-pc. Cro-Moly, Trek ring, 44T		
Pedals	3-piece type, sealed	110mm bolt hole circle	
Cassette	Platform, alloy	24 TPI	
Chain	16T	9/16" axle	
Front hub	Taya TB400	1spd	
Front tire	Formula alloy, sealed	90 length, 1/8"	
Rear hub	Tioga Comp III	20 x 2.125	
Rear tire	Formula, alloy, sealed	Cassette, 1 speed, Nutted f/r, 110mm O.L.D.	
Tubes	Tioga Comp III	20 x 1.75	
Front Rim	Schraeder valve		
Rear Rim	Araya 7X alloy	Rubber rim strip	
Spokes	Araya 7X alloy	Rubber rim strip	
Saddle	14G	36 spoke 3x Front, 36 spoke 3x Rear	
Seatpost	Padded Kevlar, embroidered	188, 188/188 (D/ND)	
Seat binder	Alloy micro-adjust	27.2mm diameter	
Colors	Alloy w/integral bolt	35.0 clamp diameter	
	Black Pearl • Team Purple w/metal yellow.warm silver decal		
Frame sizes	Pro		
Handlebar width	710		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	164		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover		
	Seat tube	275	
	Head tube	110	
	Eff top tube	533	
	Reach	581	
	Chainstays	387	
	BB height	292	
	Offset	26	
	Trail	49	
	Wheelbase	940	
IN	Standover		
	Seat tube	10.83	
	Head tube	4.33	
	Eff top tube	20.98	
	Reach	22.87	
	Chainstays	15.24	
	BB height	11.50	
	Offset	1.02	
	Trail	1.95	
	Wheelbase	37.01	

OUR PRICE: \$

Main tubes	Cro-Moly steel		44
Stays	Cro-Moly steel	25.4/34.0/30.0, 33mm stack	
Fork	Cro-Moly, 1 1/4" tapered	25.4mm clamp diameter	
Headset	Aheadset	31.7mm steerer clamp height	
Handlebars	Trek Cro-Moly		
Stem	Alloy Ahead type		
Grips	Trek Kraton		
Brakes	Tektro cantilever, rear		
Brake levers	Tektro 2-finger , right only		
Crankset	1-pc. Cro-Moly, 2 pc. spider/ring, 44T	110mm bolt hole circle	16
Bottom bracket	One-piece type	24 TPI	55
Pedals	Platform, alloy	1/2" axle	
Cassette	16T	1spd	
Chain	Taya TB400	90 length, 1/8"	
Front hub	Formula alloy	20 x 2.125	
Front tire	Comp III type	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.	
Rear hub	Formula, alloy	20 x 1.75	
Rear tire	Comp III type		
Tubes	Schraeder valve		
Front Rim	Aluminum alloy	Rubber rim strip	
Rear Rim	Aluminum alloy	Rubber rim strip	
Spokes	14G	48 spoke 3x Front, 48 spoke 3x Rear	
Saddle	Trek	183, 183/182 (D/ND)	
Seatpost	Cro-Moly micro-adjust	25.4mm diameter	
Seat binder	Alloy w/integral bolt	28.6 clamp diameter	
Colors	Matte Chrome • Lime w/crimson/black decal		
Frame sizes	Pro XL		
Handlebar width	700		
Stem length	50		
Crank length	170		
Seatpost length	350		
Steerer, mm	154		
Fork Length	286mm axle-crown race		
Head angle	73.5		
Seat angle	71.0		
MM	Standover		
	Seat tube	229	
	Head tube	102	
	Eff top tube	533	
	Reach	581	
	Chainstays	387	
	BB height	292	
	Offset	33	
	Trail	42	
	Wheelbase	965	
IN	Standover		
	Seat tube	9.02	
	Head tube	4.02	
	Eff top tube	20.98	
	Reach	22.87	
	Chainstays	15.24	
	BB height	11.50	
	Offset	1.30	
	Trail	1.66	
	Wheelbase	37.99	

SUB SPECIES

44

16

55

23.8 lb.

10.81kg

SUB VERT 1.0G

OUR PRICE: \$

Main tubes	Hi Tensile steel w/Cro-Moly seat tube	
Stays	High tensile steel	
Fork	1 1/4" tapered	
Headset	Steel	
Handlebars	Freestyle	
Stem	4 bolt BMX, alloy top	
Grips	Trek Kraton	
Brakes	Freestyle calipers f/r	
Brake levers	281DT	
Crankset	One-piece type, 44T	
Bottom bracket	One-piece type	
Pedals	Platform	
Cassette	16T	
Chain	Taya TB410	
Front hub	KT alloy	
Front tire	Freestyle	
Rear hub	KT alloy	
Rear tire	Freestyle	
Tubes	Schraeder valve	
Front Rim	Aluminum alloy	
Rear Rim	Aluminum alloy	
Spokes	14G	
Saddle	Shorty	
Seatpost	Trek 90°	
Seat binder	Alloy w/integral bolt	
Additionals	Odyssey Gyro 2 rotor	
Colors	Mellow Gold • Cream w/fire/cream decal Chrome • Cream w/jade/black decal	
Frame sizes	All-around	
Handlebar width	685	
Stem length	50	
Crank length	170	
Seatpost length	350	
Steerer, mm	158	
Spring #		
Fork Length	280mm axle-crown race	
Head angle	75.0	
Seat angle	74.0	
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 115 513 561 368 297 33 35 919
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 4.53 20.20 22.10 14.49 11.69 1.30 1.38 36.18

OUR PRICE: \$

Main tubes	Cro-Moly steel	
Stays	High tensile steel	
Fork	Cro-Moly 1 1/4" tapered	
Headset	Steel	
Handlebars	Freestyle	
Stem	4 bolt BMX, alloy top	
Grips	Trek Kraton	
Brakes	Dia-Compe 990 f/r	
Brake levers	281DT	
Crankset	One-piece type, 44T	
Bottom bracket	One-piece type	
Pedals	Platform, alloy	
Cassette	16T	
Chain	Taya TB410	
Front hub	KT alloy	
Front tire	Freestyle	
Rear hub	KT alloy, 14mm axle	
Rear tire	Freestyle	
Tubes	Schraeder valve	
Front Rim	Aluminum alloy	
Rear Rim	Aluminum alloy	
Spokes	14G	
Saddle	Shorty	
Seatpost	Trek 90°	
Seat binder	Alloy w/integral bolt	
Additionals	Odyssey Gyro 2 rotor, Trek pegs rear	
Colors	Team Purple • Cream w/moss/chive decal	
Frame sizes	All-around	
Handlebar width	700	
Stem length	50	
Crank length	170	
Seatpost length	350	
Steerer, mm	157	
Fork Length	280mm axle-crown race	
Head angle	75.0	
Seat angle	74.0	
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 115 513 561 387 297 33 35 919
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 4.53 20.20 22.10 15.24 11.69 1.30 1.38 36.18

SUB VERT 2.0G

44
16
55

26.4 lb.
11.99kg

SUB VERT 3.0G

OUR PRICE: \$

Main tubes	Cro-Moly steel	44
Stays	Cro-Moly steel	16
Fork	Cro-Moly, 1 1/4" tapered	55
Headset	Aheadset	
Handlebars	Freestyle Cro-Moly	
Stem	Trek Alloy Ahead	
Grips	Trek Kraton	
Brakes	Dia-Compe 990 f/r	
Brake levers	Dia-Compe Tech77	
Crankset	1-pc. Cro-Moly, 44T	
Bottom bracket	One-piece type	1 piece
Pedals	Platform, alloy	24 TPI
Cassette	16T	1/2" axle
Chain	Taya TB410	1spd
Front hub	KT alloy, 14mm axle	90 length, 1/8"
Front tire	Freestyle	20 x 1.9
Rear hub	KT alloy, 14mm axle	Threaded, 1 speed, Nutted f/r, 110mm O.L.D.
Rear tire	Freestyle	20 x 1.9
Tubes	Schraeder valve	
Front Rim	Aluminum alloy	Rubber rim strip
Rear Rim	Aluminum alloy	Rubber rim strip
Spokes	14G	48 spoke 3x Front, 48 spoke 3x Rear 183, 183/182 (D/ND)
Saddle	Shorty	
Seatpost	Trek 90°	25.4mm diameter
Seat binder	Alloy w/integral bolt	28.6 clamp diameter
Additionals	Fishbone UFO rotor, Trek pegs front and rear	
Colors	Blue Moon • Cream w/moss abyss decal	
Frame sizes	All-around	
Handlebar width	700	
Stem length	50	
Crank length	170	
Seatpost length	350	
Steerer, mm	191	
Fork Length	280mm axle-crown race	
Head angle	75.0	
Seat angle	74.0	
MM	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	229 115 520 568 387 297 33 35 940
IN	Standover Seat tube Head tube Eff top tube Reach Chainstays BB height Offset Trail Wheelbase	9.02 4.53 20.47 22.37 15.24 11.69 1.30 1.38 37.01