Ellsworth™
HANDCRAFTED BICYCLES, INC.

The Ellsworth™ Story

HANDCRAFTED BICYCLES, INC.

At Ellsworth, our story began as a passion, creating a simple, light, and beautiful bicycle with specifications that are now coined as NORBA standard geometry. As the years rolled by, a hobby became more than a weekend passion. As the company grew so did the products, technology, and reputation for quality. Ellsworth bikes like the Sub 22, The Truth, The ID, The Moment, and The Dare became the standards by which all other designs were judged.

Now a look to the future, the question of what will be next guides the innovation and passion of the people who dedicate themselves to continue to offer the best, for riders who would expect nothing less. From a man's garage, to a brand the world has come to understand, admire and desire; Ellsworth - Those that ride, Know!

Environmentally Friendly Co.

Do you like trees, forests, clean air, peace at home and abroad? So do we! We're hoping that we can set an example for other companies to build energy efficient, environmentally friendly offices and factories. If we can do it, so can they. Encourage others to build sustainable buildings like ours--!

1. Solar Powered. We generate electricity for our needs from the sun.

2. Non Forest Product Building Materials. We built with concrete, not wood. Leaving the trees and forests for recreational utilization.

3. Geothermal Coupled. We coupled our highly insulated, solar powered building to the constant 55 degree temperature just below ground so we wouldn't need CFC producing Heating and Cooling systems.

Ellsworth Fabrication USA

Starting in 2006 Ellsworth Bicycles will be handcrafted exclusively by Ellsworth Fabrications.

Since Ellsworth Bicycles inception 15 years ago a loyalty and binding passion for the art form of bicycle making in the USA has been present. There are few frame makers left who strive for such excellence and have stayed true to making bikes close to home.

Ellsworth has taken another bold step forward in bicycle design and construction. For 2006 and beyond all Ellsworth bicycles will be fabricated in our brand new state of the art facility in Vancouver, Washington. By Bringing our production "in house" Ellsworth can pursue and accomplish new designs and design solutions with higher quality, workmanship and manufacture with greater purity and integrity the design intent of the product.

the MANTRA

Ellsworth bicycles are born of a strict design mantra which dictates that no expense be spared in creating the lightest, most energy efficient bikes in the world, without limits, compromises...Or equals.

NEW

1. HEADTUBE

Drawn, Seamless, Externally shaped and internally tapered head tube for maximum strength, durability, and weight efficiency.

2. CHAINSTAY

Ellsworth's new asymmetrical 3d monocoque chainstay has amazing durability, less weight, improved chain line for adverse condition drive train performance and tire/mud clearance. Our new tube shaping from our in house fabrication facility has afforded us an opportunity to take a major step forward in executing "out of the box" design solutions for common engineering challenges.

3. SEAT TUBE PIVOT ASSEMBLY

Ellsworth's new seat tube pivot assembly, has been completely revised for 2006. This revision increases post production alignment and increases the fatigue life of the seat tube pivot area, all without adding mass to our legendary weight saving designs.

4. THE FINISH

We now employ a formula of weld washing and hand polishing each frame, all in the Pacific Northwest. All frames are now hand anodized, making the most of the flawless manufacturing. Anodizing cannot hide flaws, Every blemish, every mark shows. When you buy an anodized bike, you not only purchased the most durable aluminium finish in the world, you are holding a flawlessly executed piece of industrial art. Enjoy that luster, it's more than skin deep.

EHB Technology

5. TUBES

Ellsworth's new Drawn Seamless, Cold Drawn Internally Tapered and Swaged tubes, which then undergo specific external shaping, achieve a strength to weight ratio not possible with standard extruded, or straight gauge aluminum pipes. Our tubes are cold drawn for Ellsworth in the United States. It's all red white and blue in that tube!

TRUTH

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING
PATENT NO. US06378885 B1, US06471230 B2, US06595538 B2 & Others Pending

bike details

- 4" Rear travel
- Internally taper-butted, externally shaped tubing
- Load optimized Shock Stay
- New US Made Ellsworth designed proprietary tubing

1. Reduced standover
2. Re-designed seat tube pivot
3. Asymetrical monocoque chainstay

FORK TRAVEL
Recommended 80-105mm

SHOCK OPTIONS
Air: Fox ICT Tuned Float R (std)
Fox RP3 (optional)

1

2

3

Through over 10 years of rider experience, advanced engineering, and field testing the Ellsworth Truth has evolved to perfection. The Truth is an efficient, ultra light, yet durable machine plain and simple. The 06 Truth is the most advanced cross country frame that Ellsworth has ever produced. 4" of fully active travel to devour trails, not rider energy. While providing a buttery-smooth ICT suspension platform that is oblivious to chain torque, eliminating energy wasting pedal bob. Without sacrificing plush ride quality and because of this perfect blend of smooth ride and power utilization, the Truth continues to be an industry bench mark. It is still is the most widely independently campaigned bike in endurance races world wide.

Sonia Foote
New Zealand
National Team Rider

www.ellsworthbikes.com

Epiphany

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING
PATENT NO. US06378885 B1, US06471230 B2, US06595538 B2 & Others Pending

bike details

- 5.25" Rear travel
- Internally taper-butted, externally shaped tubing
- ICT tuned suspension

1. Magnesium Rocker Assembly
2. Custom Ellsworth Designed tube set
3. New seat tube pivot assembly

FORK TRAVEL
Recommended 105-130mm

SHOCK OPTIONS
Air: Fox ICT Tuned Float R (std)
Fox RP3 (optional)

When you experience the Truth in a Moment you have an Epiphany. The name says it all - when riding the Epiphany you experience the snappy acceleration of the light weight Truth, you experience the plush, solid travel of the Moment, with handling all its own. The geometry is relaxed but not laid back.

Ellsworth's new US produced, proprietary drawn, swaged, tapered and shaped tubeset, magnesium rockers, monocoque chainstay and full cartridge bearings all add up to the pinnacle of All Mountain frames. Ride and Know!

MOMENT

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING
PATENT NO. US06378885 B1, US06471230 B2, US06595538 B2 & Others Pending

bike details

- 6" Rear travel
- Internally taper-butted, externally shaped tubing
- New US made Ellsworth designed proprietary tubing

1. Newly designed Rocker Arm
2. DHX Air Option
3. New asymmetric chainstay

FORK TRAVEL
Recommended 125-160mm

SHOCK OPTIONS
Coil: Fox DHX 5.0 (std)
Air: Fox DHX Air (Optional

The Moment offers uncompromising performance on any terrain. Jet across long singletrack, climb the unreachable, and bomb down the impossible canyon walls littered with loose rocks and boulders. An all-mountain bike, by definition, should enable a rider to traverse the entire mountain, all with the same bike. The bike should climb the most precipitous steeps, speed through the corners of meandering singletrack, and approach the nastiest descents with unwavering confidence. The Ellsworth Moment gives you all of this. Ellsworth incorporated every technology available to make this, the bike of bikes, an American work of art. With a combination of CNC machining and drawn, shaped, swaged and tapered tubes. The Moment is light enough to climb the rim yet strong enough to ride the stunt. If you are ready to go wherever the terrain may take you, then this is your one bike, this is your MOMENT.

George Stepheson
Sea Otter 2005

Rogue

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING
PATENT NO. US06378885 B1, US06471230 B2, US06595538 B2 & Others Pending

bike details

- 6",7",8" travel options
- Internally taper-butted, externally shaped tubing
- New anodized finish

1. Triple/Double/Single ring compatible (ISCG equipped)
2. Single or Double crown compatible
3. 10mm, 12mm and std. Q/R compatible

FORK TRAVEL
Recommended 150mm and up

SHOCK OPTIONS
Coil: Fox DHX 5.0

Meet the Rogue. Six, Seven or Eight inches of All Mountain compatibility, the Rogue will literally take you places you've never been riding before. Big Travel and Big Reliability in a simple configuration that is easy on the eyes and easy on the scale. The Ellsworth ICT Tuned Suspension is well known for extending the usable travel envelope without sacrificing pedal-ability and thus usability. The Rogue will not disappoint, ICT keeps your power well utilized, while 8" of near vertical wheel travel will suck up literally anything you throw yourself at, or off. Unlimit Yourself—Go Rogue.

www.ellsworthbikes.com

Distance

ATLAS
ANTI-TORSION • LOWER FORWARD PIVOT • ACTIVE SUSPENSION

bike details

- 5" Rear travel
- 6 lb single pivot frame
- Multi-shock compatible

1. New tubed front triangle
2. New anodized finish
3. New headtube design

FORK TRAVEL
Recommended 105-130mm

SHOCK OPTIONS
Air: Fox ICT Tuned Float R,
Fox RP3 (option)

Imagine a single pivot bike that pedals more efficiently than most linkage bikes, climbs better than most cross country racers, descends faster with more stability than bikes that weigh 15lbs. more, and costs less than its Asian made competition.

The Distance boasts 5" of rear travel, a one piece CNC machined shock tower, with a fully anodized frame and a ride that can only come from American quality craftsmanship. The Distance, a trail-bike built with white collar quality for those on a blue collar budget.

CHAOS

ATLAS
ANTI-TORSION • LOWER FORWARD PIVOT • ACTIVE SUSPENSION

bike details

- 5",6",7",8" travel options
- ATLAS tuned suspension
- Monocoque front triangle
- Low standover

1. Newly designed front triangle
2. Machined shock tower
3. Newly Designed Head tube

FORK TRAVEL
Recommended 150mm and up

SHOCK OPTIONS
Coil: Fox DHX 5.0

The Chaos is a freeriding beast that consumes drops, and spits out smooth single track. Learn to fly on 5,6,7,or 8" of travel that will take you far beyond the boundaries you have set for yourself. Toe the line at a 4x race, hit the north shore, or drop the boulders of Moab all on the same bike. The Chaos is the bike of choice for those that choose adrenaline over fear. Geometry and travel options let "you" create order from disorder. Maximum adjustability to adapt and control the Chaos.

John Jesme
Sea Otter 2005

Limited Production U.S. made Hardtails

one | enlightenment | specialist

Hardtail

one

specialist

enlightenment

bike details

- Purpose driven geometry
- MTB Hardtails meticulously crafted in the U.S.A
- Anodized Finish

1. Horizontal adjustable, vertical dropout (Specialist)
2. Dual monostay rear end
3. Eccentric BB, Vertical drop out (One)

FORK TRAVEL

Recommended (one / enlight) - 105-125mm

Recommended (specialist) - 125-150mm

1

2

3

Hardtails are the roots of our sport. Ellsworth's limited production hardtails are made right here in the U.S. where it all began. Whether your riding style leans towards urban assault/dirt jump/trials, cross country trails or keeping it simple with just one gear each of these models represents the most advanced rigid frame ever produced in its class. Every Ellsworth hardtail features "purpose driven" design features and tubing technology. The horizontally adjustable, vertical dropouts on the Specialist offer a myriad of geometry and setup options, the dual Mono stay rear end on the Enlightenment and One provides a level of vibration damping never before seen on a frame without a rear shock. The Ellsworth hardtails, the purest form of the original mountain bike art.

www.ellsworthbikes.com

WITNESS

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING
PATENT NO. US06378885 B1, US06471230 B2, US06595538 B2 & Others Pending

bike details

- The ultimate off-road tandem bicycle
- Internally tapered, externally shaped tubing

1. Dual lateral frame design for unmatched stiffness
2. 4" travel ICT tuned suspension
3. Eccentric Bottom Bracket

FORK TRAVEL
Recommended 105-160mm

SHOCK OPTIONS
Air: Fox ICT Tuned Float

When unity and cohesion go beyond the coordinated talent of two riders working as one, the steepest mountains on the horizon become screaming downward gradients. The Witness allows riders to synergize in order to conquer the trail. If two minds are superior to one, four legs can clean the impossible trails that left two legs suffering.

The Witness is about cooperation and mutual understanding. It is about the shared talent of two riders, joined by a mechanical masterpiece that enables both to reach their collective potential. The Witness utilizes real engineering solutions to over come the limitations that plague other off road tandems. Expand your experience, get a Witness.

www.ellsworthbikes.com

AZ80

Mgnificent

ROAD

bike details

- Race inspired geometry
- Easton Carbon fork
- Sub 900g full size frame
- Legendary handling and ride quality

1. Magnesium front triangle
2. Easton CNT composite Rear
3. Integrated headset

What other road frames long to be. The ultimate combination of lightweight, stiffness and magical ride. Magnesium has a ride quality untouched by any of its material rivals. It has a smoothness on rough roads that rivals titanium and it has lateral stiffness equal to or better than oversized aluminum. It is the material that was ridden to NINE stage victories at the 2004 Giro D' Italia. It is this combination of lightness and durability that sets Magnesium apart. It resists impacts far better than 6061 aluminum due to its superior elongation, but accomplishes this at a 34% weight savings, while providing far more shock absorption on back country roads. Couple this with Eastons amazing carbon rear end and Ellsworths uncanny ability to create legendary ride characteristics, you have the **Mgnificent**.

7000 Scant

ROAD

bike details

- Race inspired geometry
- Integrated headset
- Easton Carbon fork

1. Sub Kilo full size frame
2. Easton CNT composite Rear
3. Scandium multi-shaped tubing

1

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3

Scandium is the most forgiving aluminum alloy available. Taking a page from our years of off road frame design, we endeavored to produce a road frame that would simply ride better than the current crop of cookie cutter road bikes. Combining custom shaped Scandium tubing, Easton Carbon rear stays and our race inspired geometry the Scant delivers an incredibly fast, smooth and efficient ride. It is equally at home on the race course as it is on a long Sunday ride. On the road as well as off, when it comes to Ellsworth; those that ride, know.

Full Suspension Imperitives - Don't ride without them

1 **Bump Absorption** characteristics can either enhance your ride or hinder it. Ellsworth suspension designs are described by many riders as "plush" which will carry you over terrain you never thought possible.

2 **Energy Efficiency** is a primary feature of all Ellsworth bicycle designs. While competitors' designs in many cases absorb pedal inputs, wasting energy, our patented ICT and ATLAS convert power into forward motion creating efficiency without taking away suspension function.

3 **Braking** Ellsworth does much more then create light frames, our Brake Torque Isolation enhances control of fully active suspension under the act of braking to reduce skidding and increase handling and control.

ELLSWORTH ENERGY EFFICIENT SUSPENSION TECHNOLOGY
ICT
INSTANT CENTER TRACKING™

ICT Technology: Instant Center Tracking is internationally patented and quantifiably the most energy-efficient suspension design in the world. ICT tuned four-bar linkage design provides a true zero energy loss to suspension function by aligning the instant center on the chain torque line and continually tracking the chain torque throughout the range of travel. What does that mean in layman's terms? The rider's pedal energy will not activate the suspension. This keeps the suspension fully active, and always on.

Instant Center Tracking AT WORK

No suspension compression

Mid-suspension compression

Fully Compressed

Note: The instant center or virtual pivot **(green)** always tracks the chain torgue **(red)** - precluding any need for a pedal platform shock.

ELLSWORTH ENERGY-EFFICIENT TECHNOLOGY • PATENT NO. US06361059 B1 • OTHER PATENTS PENDING
ATLAS™
ANTI-TORSION • LOWER FORWARD PIVOT • ACTIVE SUSPENSION

ATLAS Technology: Anti-Torsion, Lower forward pivot, Active Suspension technology is Ellsworth's single-pivot solution for riders seeking legendary Ellsworth suspension performance, in a simple and affordable design. Using a one-piece CNC machined rear swing arm yoke creates a bike that is more energy efficient. By aligning the pivot point on the chain torque line the ATLAS single pivot technology establishes the most efficient single pivot bicycle available.

ATLAS Technology
Optomized Single Pivot Technology

Optomized wheel path

Efficiency optomized pivot location

Anti- Torsion Upright

Follow the radius which the rear triangle moves on in realation to the front triangle. The pivot placement keeps the chain at a consistant distance = more efficiency.

specifications

TRUTH

	14"	16"	18"	20"
RIDER HT.	<5'4"	5'4" - 5'7"	5'5" - 6'2"	>5'9"
STANDOVER HT.	+15.8"	17.7"	18.5"	19.8"
TOP TUBE	21.3"	22.5"	23.5"	24.3"
HEAD TUBE	3.9"	3.8"	4"	4.75"
CHAINSTAY	16.7"	16.7"	16.7"	16.7"
BB HT.	+.3"	+.4"	+.4"	+.4"
WHEELBASE	41"	41.9"	43"	44
H/S ANGLE	70°/73°	70.2°/72.7°	70.2°/72.7°	70.2°/72.7°

SPECS ASSUME BUILD WITH 100MM FORK (REC 80-105MM)

WITNESS

	16/19"
RIDER HT.	5'4" - 6'2"
STANDOVER HT.	+18.75/+15.75"
TOP TUBE	23.5/31.5"
HEAD TUBE	4.75"
CHAINSTAY	16.75"
BB HT.	-.25"
WHEELBASE	73.8"
H/S ANGLE	70°/73.5°/73.5°

SPECS ASSUME BUILD WITH 125MM FORK

MOMENT

	15"	17"	19"
RIDER HT.	<5'7"	5'5" - 6'2"	>5'9"
STANDOVER HT.	+18.2"	+18.5"	+19.5"
TOP TUBE	22.4"	23.7"	24.5"
HEAD TUBE	4.0"	4.75"	5"
CHAINSTAY	16.9"	16.9"	16.9"
BB HT.	+.9"	+.9"	+.9"
WHEELBASE	43.5"	44.7"	45.5"
H/S ANGLE	67.8°/72.3°	67.8°/72.3°	67.8°/72.3°

SPECS ASSUME BUILD WITH 125MM FORK (REC 125-150MM)

a. standover
b. top tube
c. head tube
d. chainstay
e. bb height
f. wheelbase

Epiphany

	15"	17"	19"
RIDER HT.	<5'7"	5'5" - 6'2"	>5'9"
STANDOVER HT.	+17.8"	+17.9"	+18.1"
TOP TUBE	22.25"	23.5"	24.25"
HEAD TUBE	4.0"	4.75"	5"
CHAINSTAY	16.9"	16.9"	16.9"
BB HT.	+.5"	+.5"	+.5"
WHEELBASE	42.6"	43.9"	44.7"
H/S ANGLE	70°/73.5°	70°/73.5°	70°/73.5°

SPECS ASSUME BUILD WITH 125MM FORK (REC 125-150MM)

enlightenment one

	14"	16"	18"	20"
RIDER HT.	<5'5	5'4" - 5'7"	5'6" - 6'1"	>6'1"
STANDOVER HT.	+12.75"	+14.74"	+15.75"	+17.25"
TOP TUBE	21.25"	22.25"	23.5"	24.25"
HEAD TUBE	3.75"	3.75"	4"	4.75"
CHAINSTAY	16.75"	16.75"	16.75"	16.75"
BB HT.	-.5	-.5	-.5	-.5
WHEELBASE	~40"	~41"	~42"	~43"
H/S ANGLE	70.5°/73.5°	71.5°/73.5°	71.5°/73.5°	71.5°/73°

SPECS ASSUME BUILD WITH 100MM FORK (REC 80-105MM)

Distance

	15"	17"	19"	21"
RIDER HT.	<5'6"	5'6" - 5'11"	5'11"	>6'2"
STANDOVER HT.	+12.75"	+14.74"	+15.75"	+17.25"
TOP TUBE	22.5"	23.5"	24.5"	25.3"
HEAD TUBE	4"	4"	4.75"	4.75"
CHAINSTAY	17.0"	17.0"	17.0"	17.0"
BB HT.	+.25"	+.25"	+.4"	+.4"
WHEELBASE	42.6"	43.6"	44.5"	45.3"
H/S ANGLE	69°/72°	69°/72°	69.5°/72.5°	69.5°/72.5°

SPECS ASSUME BUILD WITH 125MM FORK (REC 100-125MM)

Rogue

	8" travel 16"	8" travel 18"	7" travel 16"	7" travel 18"	6" travel 16"	6" travel 18"
RIDER HT.	5'3" - 6'	5'7" - 6'4"	5'3" - 6'	5'7" - 6'4"	5'3" - 6'	5'7" - 6'4"
STANDOVER HT.	+19.2"	+19.2"	+18.3"	+18.3"	+17"	+17"
TOP TUBE	23.5"	24.5"	23.5"	24.5"	23.5"	24.5"
HEAD TUBE	5"	5.5"	5"	5.5"	5"	5.5"
CHAINSTAY	17.4"	17.4"	17.5"	17.5"	17.7"	17.7"
BB HT.	+1.25"	+1.25"	+.04"	+.04"	-1.0"	-1.0"
WHEELBASE	46.2"	47.2"	46"	47"	45.7"	46.7"
H/S ANGLE	67°/73.25°	67°/73.25°	67°/73.25°	67°/73.25°	66°/72.25°	66°/72.25°

SPECS ASSUME BUILD WITH 180MM FORK

specialist

RIDER HT.	N/A
STANDOVER HT.	+16.5" w/ 5" fork
TOP TUBE	22.5"
HEAD TUBE	4.75"
CHAINSTAY	16.5"
BB HT.	-.5"
WHEELBASE	41.5" (+.325")
H/S ANGLE	67°/69.5°

SPECS ASSUME BUILD WITH 125MM FORK

7000 Scant / AZ80 Magnificent

	52"	55"	58"	61"
RIDER HT.	5'3" - 5'7"	5'7" - 6'3"	6'0" - 6'3"	>6'3"
STANDOVER HT.	77	80	83	86
TOP TUBE	53	56	59	62
HEAD TUBE	10	13	16	19
CHAINSTAY	40.5	40.5	40.5	40.5
BB HT.	27	27	27	27
WHEELBASE	95	98	100	103
H/S ANGLE	73.5°/73.5°	73.5°/73.5°	74°/73°	74°/73°

SPECS ASSUME BUILD WITH 180MM FORK (REC 125-180MM)

CHAOS

	8" travel 15"	8" travel 17"	8" travel 19"	7" travel 15"	7" travel 17"	7" travel 19"	6" travel 15"	6" travel 17"	6" travel 19"	5" travel 15"	5" travel 17"	5" travel 19"
RIDER HT.	<5'4"	5'3" - 5'6"	5'6" - 5'11"	<5'4"	5'3" - 5'6"	5'6" - 5'11"	<5'4"	5'3" - 5'6"	5'6" - 5'11"	<5'4"	5'3" - 5'6"	5'6" - 5'11"
STANDOVER HT.	+19.6"	+19.6"	+19.6"	+18.8"	+18.8"	+18.8"	+18.4"	+18.4"	+18.4"	+17.4"	+17.4"	+17.4"
TOP TUBE	23"	24"	25"	23"	24"	25"	23"	24"	25"	23"	24"	25"
HEAD TUBE	5"	5.5"	5.8"	5"	5.5"	5.8"	5"	5.5"	5.8"	5"	5.5"	5.8"
CHAINSTAY	17"	17"	17"	17.2"	17.2"	17.2"	17.2"	17.2"	17.2"	17.4"	17.4"	17.4"
BB HT.	+1.7"	+1.7"	+1.7"	+.9"	+.9"	+.9"	+.6"	+.6"	+.6"	-.4"	-.4"	-.4"
WHEELBASE	43.8"	44.8"	45.8"	43.5"	44.5"	45.5"	42.9"	43.9"	44.9"	42.7"	43.7"	44.7"
H/S ANGLE	66°/67.8°	66°/67.8°	66°/67.8°	66.4°/68.2°	66.4°/68.2°	66.4°/68.2°	67.2°/69°	67.2°/69°	67.2°/69°	67.1°/68.9°	67.1°/68.9°	67.1°/68.9°

All specs use the axel horizon line as reference when dealing with bottom bracket height and standover. (specs are (+/-) from this line.)

For any additional information and specifications please visit us at:
www.ellsworthbikes.com

Ellsworth
HANDCRAFTED BICYCLES, INC.

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www.ellsworthbikes.com

designed by: Adam Sullivan

Thanks To:

Slicky for doing the photography
The Ellsworth Crew
All Ellsworth Sponsored Riders
All the loyal Ellsworth riders - Those that ride, know!

Component Partners:

SRAM® · FSA FULL SPEED AHEAD · ROCKSHOX USA · KENDA TIRES AND TUBES · FOX · DISC BRAKES HAYES™ · fi'zi:k · E