KONA MOUNTAIN BIKES

Kona Mountain Bikes is based in Ferndale, Washington and Vancouver, BC. Recently, many riders and publications have discovered our local North Shore and Galbraith Mountain trails. While everybody thinks that they ride extreme trails, many would gape in disbelief down some of the near vertical, root entangled, mud slides to hell that we ride on every day. This may not be the best riding, but it is very brutal on equipment and riders. It is in these conditions that we evaluate frame design and components. The feeling is, if it works here, it should work anywhere.

The Kona name comes from our fascination with volcanic things. We're located on the Northern edge of the volcanic Cascade Mountain Range, which runs down the Pacific Coast from Canada to Southern California. The Hawaiian Islands are a volcanic chain, so the Kona name connection came along naturally.

Kona was founded in 1988 by long-time riders and racers who had previously worked for other pioneering West Coast mountain bike companies. The original Kona bicycles were custom machines based on our own preference in high-performance off-road bikes. This tradition of making thoughtful, reliable, well-balanced bicycles is still the cornerstone of the Kona way.

FRAME DESIGN

KONA DUAL SUSPENSION DESIGN FEATURES

- Kona Walking Beam 4-Bar Linkage
- BACK COUNTRY DUAL SUSPENSION - Bear, Bear Dee-Lux
- CROSS-COUNTRY DUAL SUSPENSION - Kahuna, Manomano, Mokomoko, King Kikapu
- OUT OF BOUNDS ("FREERIDE") DUAL SUSPENSION - Stinky, Stinky Dee-Lux, Stinky Primo
- GRAVITY (DOWNHILL) BIKES DUAL SUSPENSION - Stinky Nine, Stab Primo

SERVICE NOTES FOR DUAL SUSPENSION

SET-UP NOTES FOR SUSPENSION

- REAR SUSPENSION
- FOX SHOCK TERMINOLOGY
- FOX MAINTENANCE AND MAINTENANCE INTERVALS
- FRONT SUSPENSION

FRAME MATERIALS:ALUMINUM

ALUMINUM DOWNHILL & DUAL SUSPENSION MODELS

- STAB PRIMO
- STINKY NINE
- STINKY / STINKY DEE-LUX / STINKY PRIMO
- BEAR, BEAR DEE-LUX
- KING KIKAPU / MOKOMOKO
- KAHUNA, MANOMANO

ALUMINUM CROSS COUNTRY HARDTAIL MODELS

- KULA
- PAHOEHOE
- MUNI-MULA
- CALDERA
- CINDER CONE
- NUNU
- BLAST
- FIRE MOUNTAIN
- HAHANNA
- LANA'I
- HULA

ALUMINUM "OUT OF BOUNDS" HARDTAIL MODELS
- CHUTE
- ROAST
- STUFF

ALUMINUM COMFORT HARDTAIL MODELS
- TIKI
- ALOHA

ALUMINUM ROAD MODELS
- JAKE THE SNAKE
- DR. DEW
- KAPU

FRAME MATERIALS:STEEL
STEEL CROSS COUNTRY HARDTAIL MODELS
- EXPLOSIF
- LAVA DOME
- HAHANNA
- UNIT

STEEL "OUT OF BOUNDS" HARDTAIL MODELS
- SCAB

KONA FORKS
- PROJECT TWO FORK
- KONA JUMP FORK
- PROJECT TWO 700c FORK

KONA COMPONENTS
- KONA BULGE CROMOLY CRANK
- KONA RING OF FIRE ROCK GUARD
- KONA DB RISER HANDLEBAR
- KONA DH RISER HANDLEBAR
- KONA DH PRIMO HANDLEBAR
- KONA BULGE HUBS
- KONA JACKSHIT PEDALS
- REPLACEMENT NOTE

FRAME WARRANTY

FRAME DESIGN
Kona is constantly evaluating and adjusting our frame designs as rider demands and technology change. Rather than re-inventing the mountain bike every season based on the latest trend, we choose to fine-tune our proven designs. While the sloping top tube design that we pioneered over 14 years ago has been largely imitated, we have continued to improve function with significant and subtle refinements. Rather than rush into dual suspension by buying someone else's design, we took nearly two years to design, develop and test prototype after prototype until we settled on the Kona 4-bar walking beam system. Kona is an independent and rider oriented company that believes in doing things our own way.

KONA DUAL SUSPENSION DESIGN FEATURES
Kona Walking Beam 4-Bar Linkage
All Kona dual suspension bikes use a mult-pivot 4-bar walking beam suspension. This allows us more options to individually tune the suspension geometry for Cross-Country, Back-Country, Out of Bounds or Downhill -

- ***Compact rear triangle for quick acceleration***
- ***Pivot locations cancel pedaling input on suspension***
- ***Cartridge bearing pivots for ultra plush ride***
- ***High torsional rigidity for ride performance & longer bearing life***
- ***Cold-forged swingarms, dropouts, yokes, headtubes & bottom brackets for high strength & durability***
- ***Custom-tuned rear shocks by Fox Racing Shox***

BACK COUNTRY DUAL SUSPENSION - Bear, Bear Dee-Lux
Kona Back Country bikes are suited for long distance endurance rides. Frame designed for high performance and durability, using Kona Clump Light 7005 Butted Aluminum tubing. Not designed for double clamp suspension forks.

- Active, rising rate design built around Fox shocks (6.5" eye to eye: 1.5" stroke)
- With a leverage ratio of 2.7:1, the rear wheel has 4" of travel
- Main chain stay pivot is located above the horizontal hub axle plane close to the bottom bracket, minimizing "pogo" effects caused by changes in the effective chain stay length. This pivot position helps eliminate pedaling forces from activating the suspension
- Chain stays with forged dropouts joined to asymmetric chain stay yokes, replaceable rear hanger, I.S. disc mounts
- Rectangular seat stays connect to a cold-forged yolk and cold forged swing arms
- Custom drawn Kona Clump Light tubing is rectangular at the head tube, adds strength and torsional rigidity
- Cartridge bearing pivots on seat tube/swing arm pivot, seat stay yoke and bottom bracket yoke
- Custom tuned Fox Float R (Bear) and Fox Float RL (Bear Dee-Lux)
- Made in 15", 17", 18", 19", 20" sizes. Rear triangle is standard for all sizes

CROSS-COUNTRY DUAL SUSPENSION - Kahuna, Manomano, Mokomoko, King Kikapu
Kona Cross-Country dual suspension bikes are suited for lightweight, cross-country trail performance. Kikapu and Moko frame without shock weigh less than 4.5 pounds. 2002 design has reduced weight without compromising strength or rigidity. Lightweight components are used throughout. The latest in Fox suspension shocks, FLOAT, with Air Negative function are featured for high efficiency. Not recommended for downhill racing, dual slalom, tricks or stunts. Not designed for double clamp suspension forks.

- Active, rising rate design built around Fox rear shock
- Leverage ratio of 2.25:1, produces 3.4" of rear wheel travel
- Main chain stay pivot is located above horizontal hub axle plane close to bottom bracket, minimizing "pogo" effects caused by changes in effective chain stay length. This helps eliminate pedaling forces from activating suspension
- Asymmetric chain stays with cold forged dropouts have replaceable derailleur hangers and I.S. disc mounts

- Lightweight uni seat stays connect to cold forged swing arms
- Cartridge bearing pivots on seat tube/rocker pivot and bottom bracket yoke reduces stiction
- Custom tuned Vanilla (Kahuna), Fox Float (Mano), Fox FLOAT R (Moko), Fox FLOAT RL with lockout (Kikapu)
- Made in 14", 16", 18", 19", 20", 21", 23" sizes. Rear triangle is standard for all sizes
- Kahuna spring rates: 14"-450 lbs, 16"-500 lbs, 18"-550 lbs, 19"-600 lbs, 20"- 650 lbs, 21"- 700 lbs, 23" - 700lbs

OUT OF BOUNDS ("FREERIDE") DUAL SUSPENSION - Stinky, Stinky Dee-Lux, Stinky Primo

Kona Out of Bounds dual suspension bikes are suited for extreme riding where steep sections predominate. Frame is designed for high strength and durability, using heavy-duty Kona Clump 7005 Aluminum tubing. Heavy-duty components and shocks are featured for maximum strength. Bikes are heavier than cross-country dual suspension, and are fitted with triple chain rings to allow for steep uphill riding. Double clamp forks are compatible.

- Active, rising rate design built around Fox shocks 7.9" eye to eye: 2.0" stroke
- A leverage ratio of 2.5:1, produces 5" of travel (Stinky), 3:1, produces 6" of travel
- Main chain stay pivot located above horizontal hub axle plane close to bottom bracket, minimizing "pogo" effects caused by changes in effective chain stay length. This keeps pedaling forces from activating suspension
- Chain stays with forged dropouts join to asymmetric chain stay yokes, replaceable rear hangers, I.S. disc mounts
- Rectangular seat stays connect to a cold-forged yolk and cold forged swing arms
- Custom drawn Kona Clump tubing is rectangular at head tube adding strength and torsional rigidity
- Cartridge bearing pivots on seat tube/swing arm pivot, seat stay yoke and bottom bracket yoke
- Custom tuned Fox Vanilla (Stinky), Vanilla R (Stinky Dee-Lux) and Fox Vanilla RC (Stinky Primo)
- Made in 15", 17", 18", 19", 20" sizes. Rear triangle is standard for all sizes
- Spring rates: 15" - 450 lbs, 17" - 500 lbs, 18" - 550 lbs, 19" - 600 lbs, 20" - 650 lbs (Stinky) 15" - 550 lbs, 17" - 600 lbs, 18" - 650 lbs, 19" - 700 lbs, 20" - 750 lbs (Stinky DL, Stinky Primo)

GRAVITY (DOWNHILL) BIKES DUAL SUSPENSION - Stinky Nine, Stab Primo

Kona Gravity dual suspension bikes are suited for extreme riding. Frames are designed for high strength and durability, using heavy-duty Kona Clump 7005 Aluminum tubing. Heavy-duty components and shocks are featured for maximum strength. Double clamp forks are compatible.

- Rising rate design built around Fox shocks (8.75" eye to eye: 2.75" stroke)
- With a leverage ratio of 3.25:1, the rear wheel has 8 - 9" of travel
- Adjustable rear dropouts allow 1" of wheelbase adjustment
- 2002 Stinky Nine has a lot of seat height adjustment and is front derailleur compatible
- 2002 Stab Primo frame is lighter and stiffer, with Kona Clump Custom Butted DH specific 7005 Aluminum tubing
- Pivot locations minimize pedal input "squatting" and "lockout"
- Highly efficient design is active under all types of pedaling, gravity and braking forces
- Swing arms, yokes, head tubes and bottom brackets are cold forged for rigidity and durability
- Cartridge bearing pivots on seat tube/swing arm pivot, seat stay yoke and bottom bracket yoke
- Custom tuned Fox DH Vanilla RC shock
- Stinky Nine made in 15", 17", 18". Spring rates are: 15" - 500 lbs., 17" - 600 lbs., 18" - 700 lbs.

- Stab Primo sizes: Small, Medium, Long. Spring rates: 15" - 500 lbs., 17" - 600 lbs., 18" - 700 lbs.

SERVICE NOTES FOR DUAL SUSPENSION

- While the 4-Bar linkage system is very torsionally rigid and requires less maintenance than a **single pivot** design, bearings and bushings will wear out. Bushing kits and replacement rear stays are available from Kona.
- Cartridge bearings give the suspension a smoother ride. These bearings also require more attention than do bushings. Contaminated bearings can rust & seize, and cause frame damage. Regularly inspect the bearings and make sure that they allow the linkage to move freely.

SET-UP NOTES FOR SUSPENSION
REAR SUSPENSION

For 2002, Kona uses 8 different models of shocks on their rear suspension models. These are all made by FOX USA and include Vanilla, Vanilla R & RC, Vanilla DH RC, FLOAT, FLOAT R & RL .

FLOAT shocks are air sprung and have negative air that creates more active initial stroke. Vanilla shocks are coil-over style shocks. If the shock model ends with R, it has external rebound adjustment. If the shock model ends with RC, it has external rebound and compression adjustment. If the shock model ends with an RL it has external rebound and lockout. It is necessary to adjust **sag** in order to get the best performance out of your dual suspension Kona. Set-up is done best when you have someone to help you.

1. Refer to the chart to for eye to eye w/o rider measurement. This is the distance between upper and lower bolts that attach the shock to the frame. Make sure your bike has correct shock length.
2. Sit on the bike with your weight in a neutral position (centered). Have an assistant measure the distance between the upper and lower shock mounting bolts (eye to eye w rider sag). For a good starting point, you want to match the measurement listed in the eye to eye w rider sag column.
3. To increase the eye to eye measurement, add air pressure on Float shocks or tighten the pre-load spring on Vanilla shocks. To decrease the eye to eye measurement release air pressure (Float) or loosening the pre-load spring (Vanilla).
4. Repeat steps 2 - 3 until proper sag is achieved

MODEL	EYE TO EYE W/O RIDER	SHOCK TRAVEL	WHEEL TRAVEL	EYE TO EYE W/ RIDER SAG
Kahuna/Mokomoko/Manomano/King Kikapu VANILLA / FLOAT / FLOAT R / FLOAT RL	6.5" 165 mm	1.5" 38.1mm	3.4" 86mm	6.1" 155mm
Bear / Bear Dee-Lux FLOAT R / FLOAT RL	6.5" 165 mm	1.5" 38.1mm	4 " 101mm	6.1" 155mm
Stinky VANILLA	7.9" 200mm	2" 50.8mm	5 " 126mm	7.4" 187.3mm
Stinky Dee-Lux / Stinky Primo VANILLA R / VANILLA RC	7.9" 200mm	2" 50.8mm	6 " 152mm	7.4" 187.3mm
Stinky Nine / Stab Primo DH VANILLA RC	8.75" 222 mm	2.75" 70mm	8.4" - 213mm short wheelbase	8" 204mm

Rebound Adjustment (R)

Rebound is adjusted using the red clicker knob. The rebound adjuster controls the speed at which the shock returns after compression. It has 12 clicks for a wide range of adjustment. Rebound should be set so he shock returns as fast as possible without pushing you off of the saddle. During your first few rides experiment with the adjusters noting the setting and

the ride. The proper setting is a personal preference and varies depending on rider weight, riding conditions and riding style.

Compression Adjustment (RC)
Compression is adjusted using the blue clicker knob. It controls the speed at which the shock compresses through the stroke of the shock. The shock offers a wide range of adjustment. Rebound should be set so that the shock will return as fast as possible without pushing you off the saddle. During your first few rides experiment with the adjusters noting the setting and the ride.

Compression Adjustment (RL) Rebound is adjusted using the red clicker knob on the shock. Compression is locked out using the blue lever on the shock.

FOX SHOCK TERMINOLOGY
SHOCK SAG: The amount the shock compresses with rider sitting on bike in normal riding position. This is usually 15% to 25% of total shock travel. Cross country: 15% to 25% suggested, Downhill 25% suggested
COMPRESSION DAMPENING: The oil resistance felt when trying to compress the shock
REBOUND: After a shock is compressed it will extend because of spring force
REBOUND DAMPENING: Rebound dampening controls the rate at which the shock will extend
PRELOAD: The initial amount of force placed on the spring
SPRING RATE: The force needed to compress the spring one inch
FLOAT: This air negative spring self adjusts the air negative chamber to optimum performance based on positive air chamber pressure. This delivers performance of a coil with the ease of adjustability and light weight of an air shock.

FOX PUMP INSTRUCTION- Thread pump onto air valve(approx. 4 turns). When pump is properly installed PSI will register on pump gauge. Stroke the pump a few cycles, pressure should increase slowly. If pressure increases rapidly, check that pump is properly fitted and tightened onto the valve.. NOTE: If shock has no air pressure, the gauge will not register. Pump to desired PSI setting. When unthreading pump from air valve fitting, the sound of air loss is from the pump hose, NOT the shock itself

NOTE: If you re-attach the pump, the hose will re-fill with air. The will result in a lower PSI registering of approximately 15 to 20 PSI on the gauge. Average setting is 100-300 PSI. DO NOT EXCEED 300 PSI. Replace shock valve cap before riding. Fox pump is an option, available from Kona Mountain Bikes

VANILLA R / VANILLA DH RC	**NEW**	**EVERY RIDE**	**8 HRS**	**40 HRS**	**200 HRS**
SET SHOCK SAG	+				
SET REBOUND ADJUSTMENT TO DESIRED SPEED	+				
TIGHTEN SHOCK MOUNTING BOLTS	+		+	+	+
ADJUST AIR PRESSURE IN AIR SHOCKS ONLY	+		+	+	+
CLEAN SHAFT,SEAL AREA,CHECK SHAFT FOR DAMAGE		+	+	+	+
CLEAN OUT BOTTOM BUMPER ON COIL SHOCKS		+	+	+	+
CLEAN ALUMINUM REDUCER, CHECK WEAR, GREASE				+	+
OIL CHANGE/ INSPECTION FROM SERVICE CENTER					+
FLOAT R / FLOAT RC					
AIR SLEEVE MAINTENANCE FOR RIDING CONDITIONS					
CLEAN UNDER AIR SLEEVE LIP					
RIDING CONDITIONS: DRY, DUSTY					
RIDING CONDITIONS: EXTREME MUD, HEAVY GRIT					

FRONT SUSPENSION- For 2002 Kona has used a variety of suspension forks. Travel ranges from 2 to 7" depending on the model. For any suspension fork you have to adjust sag to get the best performance. Fork makers suggest that the sag measures ¼ of the total travel. Sag for all suspension forks is measured best the following way:

5. Make sure that the stanchion protectors (dirt boots) won't interfere with your set-up. They can be removed or one can be zip strapped to the top of the stanchion tube right under the fork crown.
6. Install a zip strap around stanchion, slide it down until contact is made with dust seal located at top of fork leg.
7. Sit on bike with your feet on the pedals, leaning against a wall. Don't bounce on the pedals or saddle.
8. Carefully get off of the bike without bouncing or compressing the suspension.
9. Measure the distance between zip strap and the black seal to get the **sag**. Decrease sag by increasing the forks' pre-load (turn knobs clockwise) or increasing the forks air pressure, increase sag by decreasing pre-load (turn knobs counter clockwise) or decreasing the forks pressure. Refer to chart on next page for recommended sag

FRONT SUSPENSION CHART

MODEL	FORK	TRAVEL	SAG
HULA	SUNTOUR M7800	2.5" - 63mm	0.6" – 16mm
ALOHA	SUNTOUR T870	1.6" – 40mm	0.4" – 10mm
TIKI	SUNTOUR T890	2" – 50mm	0.5" – 12.5mm
LANA'I	SUNTOUR NEX60	2.5" - 63mm	0.6" – 16mm
HAHANNA	SUNTOUR XCC	2.5" - 63mm	0.6" – 16mm
FIRE MOUNTAIN	SUNTOUR XCC	2.9" - 73mm	0.75" - 18.3mm
BLAST	ROCK SHOX JUDY TT	3.1" - 80mm	0.78" – 20mm
LAVA DOME	ROCK SHOX JUDY TT	3.1" - 80mm	0.78" – 20mm
NUNU	ROCK SHOX JUDY TT	3.1" - 80mm	0.78" – 20mm
CINDER CONE	MARZOCCHI BOMBER EXR air	3.1" - 80mm	0.78" – 20mm
CALDERA	MARZOCCHI BOMBER EXR air	3.1" - 80mm	0.78" – 20mm
MUNI-MULA	MARZOCCHI BOMBER MXC air	3.1" - 80mm	0.78" – 20mm
PAHOEHOE	MARZOCCHI BOMBER MXC air	3.1" - 80mm	0.78" – 20mm
EXPLOSIF	MARZOCCHI BOMBER MXR air	3.1" - 80mm	0.78" – 20mm
KULA	MARZOCCHI BOMBER MXR air	3.1" - 80mm	0.78" – 20mm
KAHUNA	ROCK SHOX JUDY TT	3.1" - 80mm	0.78" – 20mm
MANOMANO	MARZOCCHI BOMBER EXR air	3.1" - 80mm	0.78" – 20mm
MOKOMOKO	MARZOCCHI BOMBER MXR air	3.1" - 80mm	0.78" – 20mm
KING KIKAPU	MARZOCCHI MARATHON S air	3.1" - 80mm	0.78" – 20mm
BEAR	MARZOCCHI BOMBER MXC air	3.9" - 100mm	1" – 25mm
BEAR DEE-LUX	FOX F100RL air	3.9" - 100mm	1" – 25mm
STUFF	MARZOCCHI BOMBER EXR coil	3.9" - 100mm	1" – 25mm
ROAST	MARZOCCHI BOMBER EXR coil	3.9" - 100mm	1" – 25mm
CHUTE	MARZOCCHI BOMBER DJ2 coil	4.3" - 110mm	1.1" – 28mm
STINKY	MARZOCCHI Z1 WEDGE coil	5.1" - 130mm	1.3" – 32.5mm
STINKY DEE-LUX	MARZOCCHI Z1 Dropoff QR20 coil	5.1" - 130mm	1.3" – 32.5mm
STINKY PRIMO	MARZOCCHI Z1 FR QR20 coil	5.1" - 130mm	1.3" – 32.5mm
STINKY NINE	MARZOCCHI SHIVER WC DH coil	7.5" - 190mm	1.9" – 47.5mm
STAB PRIMO	MARZOCCHI SHIVER WC DH coil	7.5" - 190mm	1.9" – 47.5mm

FRAME MATERIALS

ALUMINUM

is light and fairly resistant to corrosion. Large diameter tubes provide stiffness necessary for off road performance. Reducing wall thickness maintains strength and keeps the weight down. The properties of aluminum improve when other materials are added to form an alloy. The aluminum - magnesium - silicon 'system' is one of the most important in aluminum alloy metallurgy. Dissolving and precipitating of the compound magnesium silicide in aluminum forms the basis of 6000 series aluminum. Other elements such as copper, zinc and chromium are added to enhance basic properties of the alloy. A higher percentage of silicon, magnesium and chromium differentiate 6061 from weaker 6000 series alloys.

The two most common types of aluminum used for cycling applications are 6061 and 7005. The properties of aluminum improve when other materials are added to form an alloy. Stronger than other 6000 series alloys 6061 uses silicon and magnesium as primary hardening agents. The 6061 is not only stronger but it is also easy to form and fabricate with. By comparison 7005 aluminum uses zinc as the primary hardening element, and does not require post fabrication solution treatment like 6061 tubing. Pound for pound both of these alloys are 25-40% stronger and 25% stiffer than cromoly steel tubing.

Aluminum has a finite fatigue life. The more you work it, the greater potential for failure. Knowing this, one main goal of a tubing fabricator is to develop processes to extend an aluminum tube's life while keeping weight to a minimum. If you use a plain gauge tube that is thick enough for a strong weld area, the overall weight of the tube tends to be a little heavy. By butting ends of the tube, you can have a thick wall at the weld zones and a thinner wall in the middle of the tube away from weld zones, reducing frame weight. The typical transition zone between thick and thin material tends to be rather short., therefore the highest stresses tend to remain at the weld zones. The faster the stress is applied, the shorter the frame life.

Easton Ultralite tubing is not butted; it is tapered. Through a special technique, "Easton's cold-work process achieves an extreme differential between thick and thin wall tube sections - with a remarkably smooth transition." The large reduction in tubing material makes the frames light and responsive. The other major benefit of the tapering is that it helps distribute stress down the tubes length and not leave it concentrated at the weld zone.
FRAME DESIGN & SPECIFICATIONS - ALUMINUM DOWNHILL & DUAL SUSPENSION

STAB PRIMO

Stab Primo is designed to withstand the rigors of World Cup Downhill racing. Adjustable wheelbase delivers up to 9" of rear wheel travel. Designed for 7.5" of travel up front.

TOP TUBE	Ø 54 X 2.2/1.15/1.5t		Kona Clump 7005	
DOWN TUBE	Ø 62.5 x 2.4/1.2/1.5t		Kona Clump 7005	
SEAT TUBE	Ø 34.9 x 2.4t		Round 7005	
HEAD TUBE	Ø 44 * Ø 33.95		Forged & machined 7005	
SEAT STAYS	Ø 24/19 x 1.75t		Rectangular – tapered 7005	
CHAIN STAYS	Ø 59/17 x 1.6t		Rectangular – tapered 7005	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
DH - 12mm	I.S.	30.0mm	68 x 118mm	1-1/8"

- Forged swing arms, chain stay yolks, seat stay yolk, head tube, bottom bracket
- Machined replaceable dropouts with 12mm through axle. Adjustable wheelbase
- Seat tube gussets. Cartridge bearing pivots
- M.R.P. Chain guide system.
- Double clamp compatible
- Available as frame only, complete bike weighs 46.5 lbs (Medium)

STINKY NINE

Stinky Nine is an extreme Out of Bounds bike that works with double chainring & front derailleur.
Adjustable wheelbase delivers up to 9" of rear wheel travel. Designed for 7.5" of travel up front.

TOP TUBE	Ø 62.5 x 2.2/0.8/1.5t		Kona Clump Light 7005	
DOWN TUBE	Ø 62.5 x 2.4/1.2/1.5t		Kona Clump 7005	
SEAT TUBE	Ø 34.9 x 2.4t		Round 7005	
HEAD TUBE	Ø 44 * Ø 33.95		Forged & machined 7005	
SEAT STAYS	Ø 24/19 x 1.75t		Rectangular – tapered 7005	
CHAIN STAYS	Ø 45/17 x 1.6t		Rectangular – tapered 7005	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
DH - 12mm	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged swing arms, chain stay yolks, seat stay yolk, head tube and bottom bracket
- Machined replaceable dropouts with 12mm through axle. Adjustable wheelbase.
- Cartridge bearing pivots. Double clamp compatible.
- Available as frame only, complete bike weighs 41.9 lbs (18")

STINKY / STINKY DEE-LUX / STINKY PRIMO
Stinky bikes have highly active, plush Out of Bounds frame designs and work with triple chain wheels.
They are suited for steep drop-offs and rough terrain, but are not indestructible.

TOP TUBE	Ø 55 x 1.8/1.15/1.5t		Kona Clump 7005	
DOWN TUBE	Ø 62.5 x 2.4/1.2/1.5t		Kona Clump 7005	
SEAT TUBE	Ø 34.9 x 2.4t		Round 7005	
HEAD TUBE	Ø 44 * Ø 33.95		Forged & machined 7005	
SEAT STAYS	Ø 24/19 x 1.75t		Rectangular – tapered 7005	
CHAIN STAYS	Ø 45/17 x 1.6t		Rectangular – tapered 7005	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged swing arms, chain stay and bottom bracket yolk, seat stay yolk, bottom bracket, head tube
- Forged Clump Beef Box dropouts with replaceable derailleur hanger. Cartridge bearing pivots.
- Seat tube gussets. Double clamp compatible.
- Available as frame only, complete bike weighs 35.9 lbs (18")

BEAR, BEAR DEE-LUX
Bear bikes are made for Back Country riding. They bridge the gap between lightweight Cross-Country and Freeride – a combination of XC geometry built with Kona Clump Light butted tubing.

TOP TUBE	Ø 55 x 1.8/0.95/1.5t		Kona Clump Light 7005	
DOWN TUBE	Ø 62.5 x 2.2/0.8/1.5t		Kona Clump Light 7005	
SEAT TUBE	Ø 34.9 x 2.45/1.6t		Round 7005	
HEAD TUBE	Ø 44 * Ø 33.95		Forged & machined 7005	
SEAT STAYS	Ø 24 x 1.3/1.5/1.3t		Rectangular 7005	
CHAIN STAYS	Ø 34/18 x 1.8t		Rectangular 7005	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged swing arms with reinforced bridge, chainstay & seatstay yokes, bottom bracket, head tube, dropouts.
- Available as frame only, complete bike weighs 28.5 lbs (Bear Dee-Lux), 29.9 lbs (Bear18").

KING KIKAPU / MOKOMOKO
Kikapu and Moko frames are premium dual suspension models for high performance off-road

TOP TUBE	Ø 38.1 x 1.8/1.0/1.3t	Easton Ultralite round 7005
DOWN TUBE	Ø 44.5 x 2.4/1.0/1.3t	Easton Ultralite bi-oval 7005
SEAT TUBE	Ø 31.8 x 2.35/2.0t	Round 7005
HEAD TUBE	Ø 41 * Ø 33.95	Forged & machined 7005
SEAT STAYS	Ø 19 x 1.4t	Round 7005
CHAIN STAYS	Ø 29/17 x 1.7/0.9/1.4t	Rectangular 7005

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"H style"	I.S.	27.0mm	68 x 113mm - splined	1-1/8"

- Forged swing arms with reinforced bridge, chain stay & seat stay yokes, bottom bracket, head tube, dropouts.Cartridge bearing pivots. Forged dropouts with replaceable derailleur hanger
- Available as frame only, complete bike weighs 24.1 lbs (King Kikapu18"), 26.1 lbs (Mokomoko)
-

KAHUNA, MANOMANO
Same design as Moko/Kikapu these bikes offer the same performance but are slightly heavier.

TOP TUBE	Ø 38.1 x 1.6t	Round 7005
DOWN TUBE	Ø 44 x 2.4/1.0/1.4t	Bi-oval 7005
SEAT TUBE	Ø 31.8 x 2.35t	Round 7005
HEAD TUBE	Ø 41 * Ø 33.95	Forged & machined 7005
SEAT STAYS	Ø 19 x 1.4t	Round 7005
CHAIN STAYS	Ø 25.4 x 1.6t	Rectangular 7005

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"H style"	I.S.	27.0mm	68 x 110mm	1-1/8"

- Forged aluminum swingarms w/reinforced bridge, chainstay yokes, seattube pivot, bottom bracket & head tube.
- Forged dropouts with replaceable derailleur hanger. Cartridge bearing pivots.
- Available as frame only, complete bike weighs 28.5 lbs (Kahuna18"), 28.9 lbs (Manomano)

KONA HARDTAIL DESIGN FEATURES
1) SLOPING TOP TUBE:
- Long top tube provides more room for correct positioning and free body movement
- Allows for more stand-over clearance, critical on dual suspension due to higher bottom bracket
- Vertically more compliant main frame absorbs more shock than frames with horizontal top tubes
- Puts rider in secure position for downhill sections

2) COMPACT REAR TRIANGLE:
- 16.75" chain stays provide perfect balance of stability and power transfer when out of the saddle
- Shorter seat stays have less deflection during braking and accelerate quicker than longer stays

- Kona custom butted stays make a rear triangle for the most efficient rear power transfer feasible

3) EXTENDED SEAT TUBE:

- Lower attachment of top tube has more stand-over, more compliant frame and compact rear triangle. Custom external butting provides additional material to strengthen extended portion.
- Kona uses seat clamps that provide worry free locking power. Clamps are easy to replace if ever damaged, and eliminate the welded seat clamps, which can distort the seat tube during fabrication

4) LONG HEADTUBE:

- Provides stronger support at top tube and down tube intersection for suspension forks
- Distributes shock better and prolongs headset bearing life
- Stronger steering position improves balance and gives more control in rough terrain

ALUMINUM CROSS COUNTRY HARDTAIL MODELS

KULA

The Kona Kula is a lightweight frame with lightweight components for cross-country racing..

TOP TUBE	Ø 35 x 1.6/0.9/1.5t		Easton Ultralite 7005	
DOWN TUBE	Ø 44.5 x 2.4/1.0/1.3t		Easton Ultralite 7005	
SEAT TUBE	Ø 31.8 x 2.35/1.8t		Round 7005	
HEAD TUBE	Ø 41 *Ø 33.95		Forged&- machined 7005	
SEAT STAYS	Ø 19 x 1.4/1.75/1.3/1.4t		Round Quad butted 7005	
CHAIN STAYS	Ø 25.4 x 1.8 (left) Ø 25.4 x 1.7/0.9/1.4 (right)		7005 (left) Triple butted 7005 (right)	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	27.0mm	68 x 113mm	1-1/8"

- Constructed of Easton Ultralite tubing. Down tube gusset.
- Forged bottom bracket, head tube. Forged dropouts with replaceable derailleur hanger
- Available as frame only, complete bike weighs 22.9 lbs (Kula18")

PAHOEHOE

Lightweight production frame with durable components designed for aggressive single track riding.

TOP TUBE	Ø 35 x 1.6/0.9/1.5t		Triple Butted 7005	
DOWN TUBE	Ø 44 x 2.4/1.0/1.4t		Triple Butted 7005	
SEAT TUBE	Ø 31.8 x 2.35/1.8t		Double Butted 7005	
HEAD TUBE	Ø 41 * Ø 33.95		Forged & machined 7005	
SEAT STAYS	Ø 19 x 1.4/1.75/1.3/1.4t		Round Quad Butted 7005	
CHAIN STAYS	Ø 25.4 x 1.8 (L) Ø 25.4 x 1.7/0.9/1.4 (R)		7005 (L) Triple butted 7005 (R)	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	27.0mm	68 x 110mm	1-1/8"

- Constructed of 7005 triple butted tubing. Down tube gusset
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger
- Available as frame only, complete bike weighs 25.5 lbs (Kula18")

MUNI-MULA
The Kona Muni-Mula is a lightweight frame designed for cross-country riding and racing.

TOP TUBE	Ø 34.9 x 1.85/1.4t	Double Butted 6061
DOWN TUBE	Ø 44 x 1.8/1.3/1.6t	Triple Butted 6061
SEAT TUBE	Ø 31.8 x 2.35/1.6t	Double Butted 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"K style"	I.S.	27.0mm	68 x 110mm	1-1/8"

- Butted 6061 main frame with straight gauge rear triangle. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger.
- Available as frame only, complete bike weighs 23.9 lbs (18")

CALDERA
The Kona Caldera is a sturdy frame designed for fun and technical single track riding.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.35/1.6t	Double Butted 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"D1 style"	I.S.	27.0mm	68 x 110mm	1-1/8"

- Butted seat tube with straight gauge 6061 tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger
- Complete bike weighs 27.9 lbs (18")
-

CINDER CONE
The Kona Cinder Cone is a sturdy frame designed for fun and technical single track riding

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.35/1.6t	Double Butted 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"D1 style"	I.S.	27.0mm	68 x 110mm	1-1/8"

- Butted seat tube with straight gauge 6061 tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger
- Complete bike weighs 26.9 lbs (18")

NUNU
The Kona Nunu is designed for fun and technical single track riding.

TOP TUBE	Ø 35 x 1.8t	Round 7005
DOWN TUBE	Ø 44 x 2.0t	Round 7005
SEAT TUBE	Ø 31.8 x 2.3t	Round 7005
HEAD TUBE	Ø 41 * Ø 33.95	Forged 7005
SEAT STAYS	Ø 19 x 1.8t	Round 7005
CHAIN STAYS	Ø 32/18 -19 x 1.8t	Round 7005

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 7005 aluminum tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger.
- Complete bike weighs 25.9 lbs (18")

BLAST

The Kona Blast is designed for fun and light duty trail riding.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Forged bottom bracket and head tube.
- Down tube gusset. Forged dropouts with replaceable derailleur hanger
- Complete bike weighs 26.9 lbs (18")

FIRE MOUNTAIN

The Kona Fire Mountain is designed for fun and light duty trail riding.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger.
- Complete bike weighs 27.9 lbs (18")

HAHANNA

The Kona Hahanna is designed for fun and light-duty trail riding.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger.
- Complete bike weighs 27.9 lbs (18")

LANA'I

The Kona Lana'i is designed for fun and light-duty riding.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Down tube gusset.
- Forged bottom bracket and head tube. Forged dropouts with replaceable derailleur hanger.
- Complete bike weighs 27.9 lbs (18")

HULA

The Kona Hula is a 24" bike with plenty of performance for the young ridesr. Built around an excellent frame with a lightweight parts package.

TOP TUBE	Ø 31.8 x 1.8t	Round 6061
DOWN TUBE	Ø 38 x 1.8t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061
SEAT STAYS	Ø 19 x 1.8t	Round 6061
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Forged bottom bracket and head tube
- Forged dropouts with replaceable derailleur hanger
- Complete bike weighs 26.9 lbs

ALUMINUM "OUT OF BOUNDS" HARDTAIL MODELS

CHUTE

The Kona Chute is our strongest hard tail, designed with Out of Bounds geometry. This bike is designed around long travel suspension forks, built for extreme trail riding and dual slalom.

TOP TUBE	Ø 55 x 1.8/0.95/1.5t	Kona Clump Light 7005
DOWN TUBE	Ø 62.5 x 2.2/0.8/1.5t	Kona Clump Light 7005
SEAT TUBE	Ø 34.9 x 2.4t	Round 7005
HEAD TUBE	Ø 44 * Ø 33.95	Forged & machined 7005

SEAT STAYS	Ø 23/17 x 1.8t	Rectangular 7005		
CHAIN STAYS	Ø 32/18 x 1.8t	Rectangular 7005		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged chain stay yoke, bottom bracket, head tube, dropouts w/ replaceable hanger
- Double clamp compatible. Available as frame only. Complete bike weighs 31.9 lbs (18")

ROAST
The Kona Roast uses the same frame as the Chute.

TOP TUBE	Ø 55 x 1.8/0.95/1.5t	Kona Clump Light 7005		
DOWN TUBE	Ø 62.5 x 2.2/0.8/1.5t	Kona Clump Light 7005		
SEAT TUBE	Ø 34.9 x 2.4t	Round 7005		
HEAD TUBE	Ø 44 * Ø 33.95	Forged & machined 7005		
SEAT STAYS	Ø 23/17 x 1.8t	Rectangular 7005		
CHAIN STAYS	Ø 32/18 x 1.8t	Rectangular 7005		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged chain stay yoke, bottom bracket, head tube, dropouts with replaceable hanger
- Double clamp compatible. Available as frame only. Complete bike weighs 31.9 lbs (18")

STUFF
The Kona Stuff has the same frame as the Chute and Roast without the forged chain stay yokes.

TOP TUBE	Ø 55 x 1.8/0.95/1.5t	Kona Clump Light 7005		
DOWN TUBE	Ø 62.5 x 2.2/0.8/1.5t	Kona Clump Light 7005		
SEAT TUBE	Ø 34.9 x 2.4t	Round 7005		
HEAD TUBE	Ø 44 * Ø 33.95	Forged - machined 7005		
SEAT STAYS	Ø 23/17 x 1.8t	Rectangular 7005		
CHAIN STAYS	Ø 32/18 x 1.8t	Rectangular 7005		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	I.S.	30.0mm	68 x 113mm	1-1/8"

- Forged bottom bracket, head tube, dropouts with replaceable hanger
- Double clamp compatible. Available as frame only. Complete bike weighs 30.9 lbs (18")

ALUMINUM COMFORT HARDTAIL MODELS

TIKI
The Kona Tiki works well as a fun ride or as a serious utility bike. This bike delivers the goods as a commuter while optimizing the comfort factor.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061
DOWN TUBE	Ø 44 x 2.0t	Round 6061
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061

HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061		
SEAT STAYS	Ø 19 x 1.8t	Round 6061		
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing
- Forged bottom bracket, head tube, dropouts with replaceable hanger
- Complete bike weighs 27.9 lbs (18")

ALOHA

Like the Tiki the Kona Aloha works well as a fun ride or as a serious utility bike. This bike delivers the goods as a commuter while optimizing the comfort factor.

TOP TUBE	Ø 34.9 x 1.85t	Round 6061		
DOWN TUBE	Ø 44 x 2.0t	Round 6061		
SEAT TUBE	Ø 31.8 x 2.3t	Round 6061		
HEAD TUBE	Ø 41 * Ø 33.95	Forged 6061		
SEAT STAYS	Ø 19 x 1.8t	Round 6061		
CHAIN STAYS	Ø 22.2 x 1.8t	Round 6061		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"H style"	N/A	27.0mm	68 x 110mm	1-1/8"

- 6061 aluminum tubing. Forged bottom bracket, head tube, dropouts with replaceable hanger
- Complete bike weighs 28.9 lbs (18")

ALUMINUM ROAD MODELS

JAKE THE SNAKE

The 2002 Jake the Snake has a lightweight frame and is built for cyclo cross racing or commuting.

TOP TUBE	Ø 35 x 1.6/0.8/1.3t	Easton Ultralite triple butted 7005		
DOWN TUBE	Ø 40 x 2.1/0.9/1.3t	Easton Ultralite triple butted 7005		
SEAT TUBE	Ø 31.8 x 2.5/1.0/1.6t	Easton Ultralite triple butted 7005		
HEAD TUBE	Ø 41 * Ø 33.95	Forged & machined 7005		
SEAT STAYS	Ø 19-16 x 1.6/1.4/1.6t	Triple butted 7005		
CHAIN STAYS	Ø 22.2 x 1.8t	Round 7005		
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
"L" style	N/A	27.0mm	68 x 113mm	1-1/8"

- Forged bottom bracket, head tube, dropouts with replaceable hanger
- Available as frame only. Complete bike weighs 21.5 lbs (55cm)

DR. DEW

New model for 2002,. Dew has a triple butted aluminum frame. This commuter defines a new class of bike termed that some countries call "speed bikes".

TOP TUBE	Ø 34.9 x 1.6/1.2/1.6t	Triple Butted 7005
DOWN TUBE	Ø 40 x 1.6/1.3/1.6t	Triple Butted 7005
SEAT TUBE	Ø 31.8 x 2.35/1.6t	Double Butted 7005
HEAD TUBE	Ø 41 * Ø 33.95	Forged&– machined 7005
SEAT STAYS	Ø 19 x 1.4/1.6/1.4t	Triple Butted 7005
CHAIN STAYS	Ø 22.2 x 1.8t	Round 7005

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"L" style	N/A	27.0mm	68 x 113mm	1-1/8"

- Forged bottom bracket, head tube, dropouts with replaceable hanger
- Available as frame only. Complete bike weighs 21.3 lbs (55cm)

KAPU

The Kona Kapu is a lightweight road bike for the enthusiast.
The Easton Ultralite frame is both comfortable and quick.

TOP TUBE	Ø 35 x 1.6/0.8/1.3t	Easton Ultralite triple butted 7005
DOWN TUBE	Ø 40 x 2.1/0.9/1.3t	Easton Ultralite triple butted 7005
SEAT TUBE	Ø 31.8 x 2.5/1.0/1.6t	Easton Ultralite triple butted 7005
HEAD TUBE	Ø 41 * Ø 33.95	Forged&– machined 7005
SEAT STAYS	Ø 19-16 x 1.6/1.4/1.6t	Triple butted 7005
CHAIN STAYS	Ø 22.2 x 1.8t	Round 7005

RR HANGER	Disc Mounts	Seat Post	Bottom Bracket	Head Set
"L" style	N/A	27.0mm	68 x 113mm	1-1/8"

- Forged bottom bracket, head tube, rear dropouts with replaceable hanger
- Available as frame only. Complete bike weighs 20.5 lbs (55cm)

FRAME MATERIALS

STEEL

While the term "steel frame" can cover anything from the stamped high tensile rig sold by mass merchandisers to the custom cromoly hand built, we'll limit this to just the quality end of the range. In general, steel is appealing because it's durable, easy to work with, repairable and fairly inexpensive.

The basic components of 4130 cromoly steel are Chromium, Molybdenum, Manganese and Carbon. If made properly, and as long as a frame is not pushed beyond it's maximum yield, a 4130 cromoly frame can last a lifetime. Of special note; the Yield strength of "standard" cromoly is @760N\mm2 compared to a quality cold worked 3-2.5 Titanium's number of 792N\mm2. Steel is durable. Steel can also be comfortable and efficient. The reason that companies make springs out of steel is because the material can retain energy and expend it back. A steel frame doesn't absorb the force of a pedal stroke or the impact of a water bar, it stores it. The gathering of force is what makes a frame comfortable and it is the return of that energy that gives a steel frame its' lively feel.

OX Platinum air-hardened tubing was developed by True Temper along with the US Steel Alliance. It actually gains strength through a metallurgical transformation in the heat affected zone, the result of welding. It is composed of Chromium, Molybdenum and Vandium with 217 ksi ultimate tensile strength. It is highly temper-resistant, resulting in 11% increase in fatigue life and 20% increase in impact strength compared to other superlight chromoly tubes.

STEEL CROSS COUNTRY HARDTAIL MODELS

EXPLOSIF

The Kona Explosif is a hard tail designed for racing and technical single track riding. The True Temper OX Platinum tubing is quick and lively. This is a bike for the discerning rider.

TOP TUBE	Ø 31.8 x 0.7/0.4/0.7t		True Temper OX Platinum	
DOWN TUBE	Ø 34.9 x 0.7/0.4/0.7t		True Temper OX Platinum	
SEAT TUBE	Ø 29.8-28.6 x 1.3/0.7/0.9t		Kona Custom 4130 cromoly	
HEAD TUBE	Ø 36.4 * Ø 34		4130 cromoly	
SEAT STAYS	Ø 19 x 0.6/0.9/0.6t		Triple Butted 4130 cromoly	
CHAIN STAYS	Ø 22.2 x 0.9/0.6t		Double Butted 4130 cromoly	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
N/A	N/A	27.0mm	68 x 113mm	1-1/8"

- True Temper OX 4130 cromoly butted tubing. Ritchey investment cast rear dropouts.
- Compete bike weighs 24.1 lbs (18")

LAVA DOME

Designed for racing and technical single track riding. The triple butted frame is quick and lively.

TOP TUBE	Ø 31.8 x 0.9/0.6/0.9t		Triple Butted 4130 cromoly	
DOWN TUBE	Ø 31.8 x 0.9/0.6/0.9t		Triple Butted 4130 cromoly	
SEAT TUBE	Ø 29.8-28.6 x 1.3/0.7/0.9t		Kona Custom 4130 cromoly	
HEAD TUBE	Ø 36.4 * Ø 34		4130 cromoly	
SEAT STAYS	Ø 19 x 1.0t		4130 cromoly	
CHAIN STAYS	Ø 22.2 x 1.0t		4130 cromoly	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
N/A	N/A	27.0mm	68 x 110mm	1-1/8"

- 4130 triple butted tubing. Ritchey forged rear dropouts. Compete bike weighs 26.9 lbs (18")

HAHANNA
The Kona Hahanna is a "Fun" mountain bike. It uses Kona racing geometry and is very durable.

TOP TUBE	Ø 31.8 x 0.9t		4130 cromoly	
DOWN TUBE	Ø 31.8 x 0.9t		4130 cromoly	
SEAT TUBE	Ø 29.8-28.6 x 1.3/0.7/0.9t		Kona Custom 4130 cromoly	
HEAD TUBE	Ø 36.4 * Ø 34		4130 cromoly	
SEAT STAYS	Ø 19 x 1.2t		Hi ten steel	
CHAIN STAYS	Ø 22.2 x 1.2t		Hi ten steel	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
N/A	N/A	27.0mm	68 x 110mm	1-1/8"

- Constructed with 4130 cromoly main and high tensile rear
- Complete bike weighs 26.9 lbs (18")

UNIT
A single speed hard tail designed for racing and technical single track riding. True Temper OX Platinum tubing is quick and lively. This is a bike for the discerning rider who isn't looking for gears to shift.

TOP TUBE	Ø 31.8 x 0.7/0.4/0.7t		True Temper OX Platinum	
DOWN TUBE	Ø 34.9 x 0.7/0.4/0.7t		True Temper OX Platinum	
SEAT TUBE	Ø 29.8-28.6 x 1.3/0.7/0.9t		Kona Custom 4130 cromoly	
HEAD TUBE	Ø 36.4 * Ø 34		4130 cromoly	
SEAT STAYS	Ø 19 x 0.9t		4130 cromoly	
CHAIN STAYS	Ø 22.2 x 0.9t		4130 cromoly	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
N/A	N/A	27.0mm	68 x 113mm	1-1/8"

- True Temper OX 4130 cromoly butted tubing. Complete bike weighs 24.5 lbs (18").

STEEL "OUT OF BOUNDS" HARDTAIL MODELS
SCAB
The Kona Scab is designed for urban assault, dirt jumping and out of bounds riding.

TOP TUBE	Ø 38.1 x 0.8t		4130 cromoly	
DOWN TUBE	Ø 44.5 x 0.9t		4130 cromoly	
SEAT TUBE	Ø 29.8-28.6 x 1.3/0.7/0.9t		Kona Custom 4130 cromoly	
HEAD TUBE	Ø 43 * Ø 33.8		4130 cromoly	
SEAT STAYS	Ø 25.4/19 x 0.9t		4130 cromoly	
CHAIN STAYS	Ø 36/18.5-18.5 x 0.9t		Tapered 4130 cromoly	
RR HANGER	**Disc Mounts**	**Seat Post**	**Bottom Bracket**	**Head Set**
N/A	I.S.	27.0mm	68 x 113mm	1-1/8"

- Head tube wrap gusset, down tube gusset. Bulletproof dropouts and head tube.
- Available as frame only. Complete bike weighs 31.9 lbs (18")

KONA FORKS

Kona designed the original straight blade MTB fork, Project Two. Just like our frames, this simple design has undergone many refinements over the years. The primary goal of the P2 has been handling. The stout unicrown design has unmatched torsional rigidity, yet it absorbs more shock than non unicrown style forks, creating more precise steering and braking under the harshest conditions.

PROJECT TWO FORK

- 1 1/8" blades, unicrown design made of full cromoly construction
- Dropouts are eyeleted to accept fenders or a front rack
- Steer tube = 1-1/8". Offset = 1.74"

KONA JUMP FORK

- Oversize 1 1/4" blades, unicrown design made of full cromoly construction
- Disc brake mounts, butted blades and steerer, ¼" thick dropouts,
- Steer tube = 1-1/8". Offset = 1.5"

PROJECT TWO 700c FORK

- 1 1/8" blades, unicrown design - full cromoly. Dropouts eyelets for accept fenders or front rack.
- Steer tube = 1 1/8". Offset = 1.77"

KONA COMPONENTS

KONA BULGE CROMOLY CRANK

- 3 piece crank with custom cold worked cromoly tubing
- Heat treated splined solid axle
- Kona sealed cartridge bearing bottom bracket for BMX or MTB
- ISIS version available for 2002
- Strong and substantial
- Single or multiple chain ring compatible
- Lengths 170, 175, 180mm

KONA RING OF FIRE ROCK GUARD

- Save your chain rings and increase BB clearance
- ¼ aluminum plate with CNC'd detailing
- Four arm bolt pattern

KONA DB RISER HANDLEBAR

- 6061 double butted aluminum handle bar, designed for all types of riding
- 1.5" rise, 2" rise, 38mm rise, 660mm wide - 320 grams

KONA DH RISER HANDLEBAR

- 2014 T-6 Super Duraluminum forged, strong enough for World Cup Downhill racing
- 1.5" rise, 2" rise, 38mm rise, 660 wide, 310 grams

KONA DH PRIMO HANDLEBAR

- 2014 T-6 Super Duraluminum forged, strong enough for World Cup Downhill racing
- 1.5" rise, 2" rise, 38mm rise, 680 wide, 360 grams, oversize clamp 31.8mm

KONA BULGE HUBS

- Large Flange, 1 piece cold forged body, sealed ball bearings
- 36H with 9mm solid axle and cartridge bearings
- 48H with 14mm solid axle and cartridge bearings
- 32H with 9mm quick release axle and sealed ball bearings

KONA JACKSHIT PEDALS

- Sealed DU bearings, 14mm cromoly axles (Dee-Lux version only)
- Replaceable traction pegs, durable aluminum body, large platform

REPLACEMENT NOTE:

It is recommended that Aluminum handlebars be replaced at least once per year under regular use. While Kona handlebars are tested to standards which would normally exceed 2-3 years of normal use, Aluminum tends to fail suddenly, and could result in serious injury or death. Kona offers a 1/2 price replacement program for Kona handlebars.

FRAME WARRANTY

Kona frame warranty is outlined in detail in the Kona Owner's Manual. It does not cover failure due to accidents, stunt riding, racing, use of double clamp forks (except for DH & OB models), or commercial use. It covers the original owner's use for 5 years from the date of purchase, with the exception of Easton Scandium frames (1 year), and Titanium frames (3 years). Ownership must be registered with Kona to validate the warranty. Sympathy pricing in the USA & Canada in case of accidents and other failures is available to the original owner.