



DESIGN BREAKTHROUGHS

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UNITRAC' STEERING SYSTEM

Our Competition and Performance models utilize Diamond Back's exclusive Unitrac steering system. This design incorporates the new Tioga "Avenger" Oversized headset, and custom-matched oversized frame head tube, fork steering tube, and handlebar stem. The oversized Unitrac system greatly enhances the strength of the front end, which takes the majority of the punishment

ABTHE

Unitrac system greatly enhances the strength of the front end, which takes the majority of the punishment dished out by aggressive offroad riding. The O/S headset will wear longer and stay in adjustment longer, because it has more bearings and a larger bearing surface area than conventional headsets. Steering tube failure is eliminated, as both steering tube and stem are more than a third stronger than conventional designs.

SUPERRADIUS' FORKS

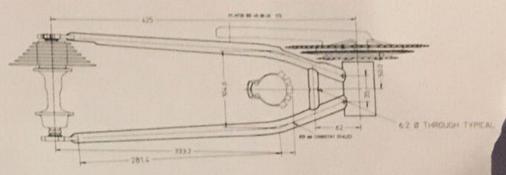
Diamond Back SuperRadius forks have an extended radius bend of

600mm. This gradual bend distributes stress evenly along the length of the fork, rather than concentrating it in one area. SuperRadius forks respond directly to rider input.

BRAKE BOOSTER' SEATSTAYS

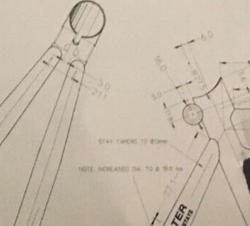
Diamond Back's exclusive Brake Booster seatstays are increased to 19mm diameter in the central area of the stay where the brakes are affixed. This delivers more positive braking power and better brake modulation. The stays taper away from the brake area toward both ends. This double taper design sharply reduces power-robbing flex, while retaining springiness for rider comfort and control.

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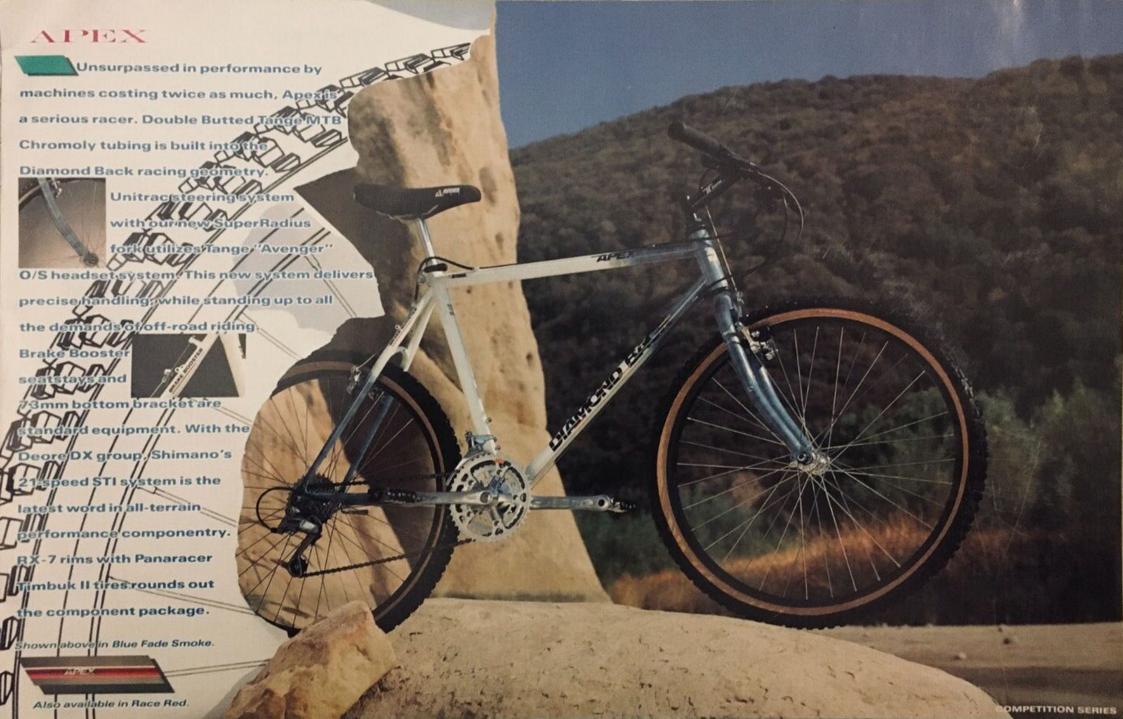


OVERSIZE BOTTOM BRACKET

The bottom bracket has been engineered 5mm wider (73mm) than the conventional width (68mm) to allow greater mud clearance around the This wider BB profile also spaces the bearings further outboard for greater spindle stiffness, and more efficient energy transmission. Beefy 19mm chain stays will deliver more of your energy to the rear wheel than conventional designs.









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BRAKES	PEDALS	HEADSET	SEATPOST	SADDLE	BAR	STEM	SIZE	COLOR
Shimano Deore XT-SLR. Two finger brake lever Cantilever front and rear *	Shimano Deore XT-II Comp.	New oversize alloy Tioga Avenger triple sealed, black anodized.	SR MTE- 300MM. Micro-adjust.	Avenir Turbo Gel Lycra Made in Italy.	Tioga tapered aluminum, black anodized. Flat w/10° bend. Anatomically sized.	Tioga Prestige T-Bone, black chrome. Anatomically sized.	15', 17', 19', 20.5', 22.5'.	Dual tone Black Marble/White.
Shimano Deore DX-SLR. Two finger brake lever Cantilever front and rear.*	HTI XT-Comp style, alloy	New oversize Tioga Avenger, triple sealed, black CP, Made in Japan	Kalloy SP 300MM Micro-adjust.	Avenir Turbo Gel Lycra. Made in Italy.	DB tapered aluminum, black anodized. Flat w/10- bend. Anatomically sized.	Tioga T-Bone, black finish. Anatomically sized.	15', 17', 19', 20.5', 22.5'	Black w/White Spangle.
Shimano Deore DX-SLR. Two finger brake lever. Cantilever front and rear.*	HTI XT-Comp style, alloy.	New oversize Tioga Avenger, triple sealed, black CP Made in Japan,	Kalloy SP 300MM. Micro-adjust.	Avenir Turbo Gel Lycra. Made in Italy.	DB tapered aluminum. Flat w/10° bend. Ana- tomically sized.	Tioga T-Bone, black finish. Anatomically sized.	15', 17', 19', 20.5', 22.5'	Blue Fade Smoke, Race Red.
Shirmano Deore LX-SLR Cantilever front and rear	HTI Low Fat style.	New oversize Tioga Avenger , triple sealed, black CP. Made in Japan.	Kalloy SP 300MM Micro-adjust	Avenir Turbo Gel Lycra Made in Italy.	DB tapered aluminum, black anodized. Flat w/10° bend. Anatomically sized.	Tioga T-Bone, black finish. Anatomically sized.	15°, 17°, 19°, 20.5°, 22.5°	100% Smoke w/Lilac, Reflex Blue.
Shimano 400LX-SLR. Cantilever front and rear *	HTI Zytel resin, XT style.	New oversize Tioga Avenger , triple sealed, black CP. Made in Japan.	Kalloy SP 300MM. Micro-adjust.	Avenir Racing Gel Lycra. Made in Italy.	DB tapered CR-MO. Flat w/10° bend. Anatomically sized.	DB CR-MO TIG Welded Anatomically sized.	15°, 17°, 19°, 20.5°, 22.5°	Blue Fade Smoke, Black.
Shimano 300LX-SLR. Cantilever front and rear.*	HTI Zytel resin, XT style.	DB Black finish.	Hi-carbon steel, satellite finish.	Avenir Racing Anatomic.	DB tapered CR-MO. Flat w/10° bend. Anatomically sized.	DB CR-MO TIG Welded. Anatomically sized.	15", 17", 19", 20.5", 22.5", Ladies 17".	Soft Gray, Iridescent White w/Lilac, Reflex Blue.
Shimano 200GS-SLR. Cantilever front and rear.	HTI Zytel resin, XT style.	DB Black finish.	Hi-carbon steel, 250MM.	Avenir Racing Anatomic.	3" rise MTN bend, Hi-carbon. Anatomically sized.	DB TIG Welded Hi-carbon steel.	15", 17", 19", 20.5", 22.5", Ladies 17".	Iridescent White w/Lilac, Race Red, Black.
Shirmano 200GS-SLR. Cantilever (front) w/ Exage MTN U-Brake (rear).	Victor, Platform w/CR-MO spindle.	DB Chrome Plated.	Hi-carbon steel.	Padded Anatomic Spring saddle.	DB Hi-rise.	DB TIG Welded Hi-carbon steel.	15", 17", 19.5", 22", Ladies 17".	Iridescent White w/Lilac, Aqua Blue.
Dia-Compe 981, BRS alloy cantilever front and rear w/Dia-Compe XCT brake levers.	HTI Zytel resin, XT style.	DB Chrome Plated.	Hi-carbon steel.	Padded Anatomic	3" rise MTN bend, Hi-carbon. Anatomically sized.	DB TIG Welded Hi-carbon steel	26": 17", 20.5", 22", Ladies 17", 24": 15" Boys and Girls.	26": Mens: Race Red, Black. Ladies: Race Red, Aqua Blue. 24": Boys: Race Red, Black. Girls: Race Red, Aqua Blue

*Note 15 frame has U-brake on chainstays **Kickstand also included Specifications subject to change without notice.

GEOMETRY

Frames are designed to effectively balance body position over the bicycle to enhance climbing traction and downhill steering stability. This is done by positioning the saddle effectively over the crankset, then positioning the rear wheel for maximum traction, and balancing the steering for best control. Rider and designer experience have been brought to bear on this design challenge. Prototypes are built and tested, then designs are finetuned to bring the best of the bicycle designer's art to you.

CHAIN WHER BOTTOM FORK HEAD SEAT

TUBE	TUBE	STAY	BASE	BRACKET HEIGHT	OFFSET	TUBE	TUBE
15° 17° 19° 20.5° 22.5°	539 543 573 590 610	426 426 426 426 426	1035 1041 1051 1064 1081	300 300 300 300 300	50mm 45mm 38mm 38mm 38mm	70° 70° 71° 71° 71°	73° 73° 73° 73° 73° 73°
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SEAT TUBE LENGTH	TOP TUBE LENGTH	CHAIN STAY LENGTH	WHEEL BASE	BOTTOM BRACKET HEIGHT	FORK OFFSET	HEAD TUBE ANGLE	SEAT TUBE ANGLE
15° 17° 19° 20.5° 22.5°	530 548 573 585 600	430 425 425 425 425 425	1035 1041 1051 1064 1081	300 300 300 300 300	45mm 45mm 45mm 45mm	71° 71° 71° 71° 71° 71°	73 73 73 73 73 73
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SEAT TUBE LENGTH	TOP TUBE LENGTH	CHAIN STAY LENGTH	WHEEL BASE	BOTTOM BRACKET HEIGHT	FORK OFFSET	HEAD TUBE ANGLE	SEAT TUBE ANGLE
15' 17' 17'L 19' 20.5'	529 548 565 561 573	430 430 430 430 430	1042 1054 1054 1054 1067	300 300 300 300 300	45mm 45mm 45mm 45mm 45mm	70° 70° 70° 70° 70°	73° 73° 73° 73° 73°

