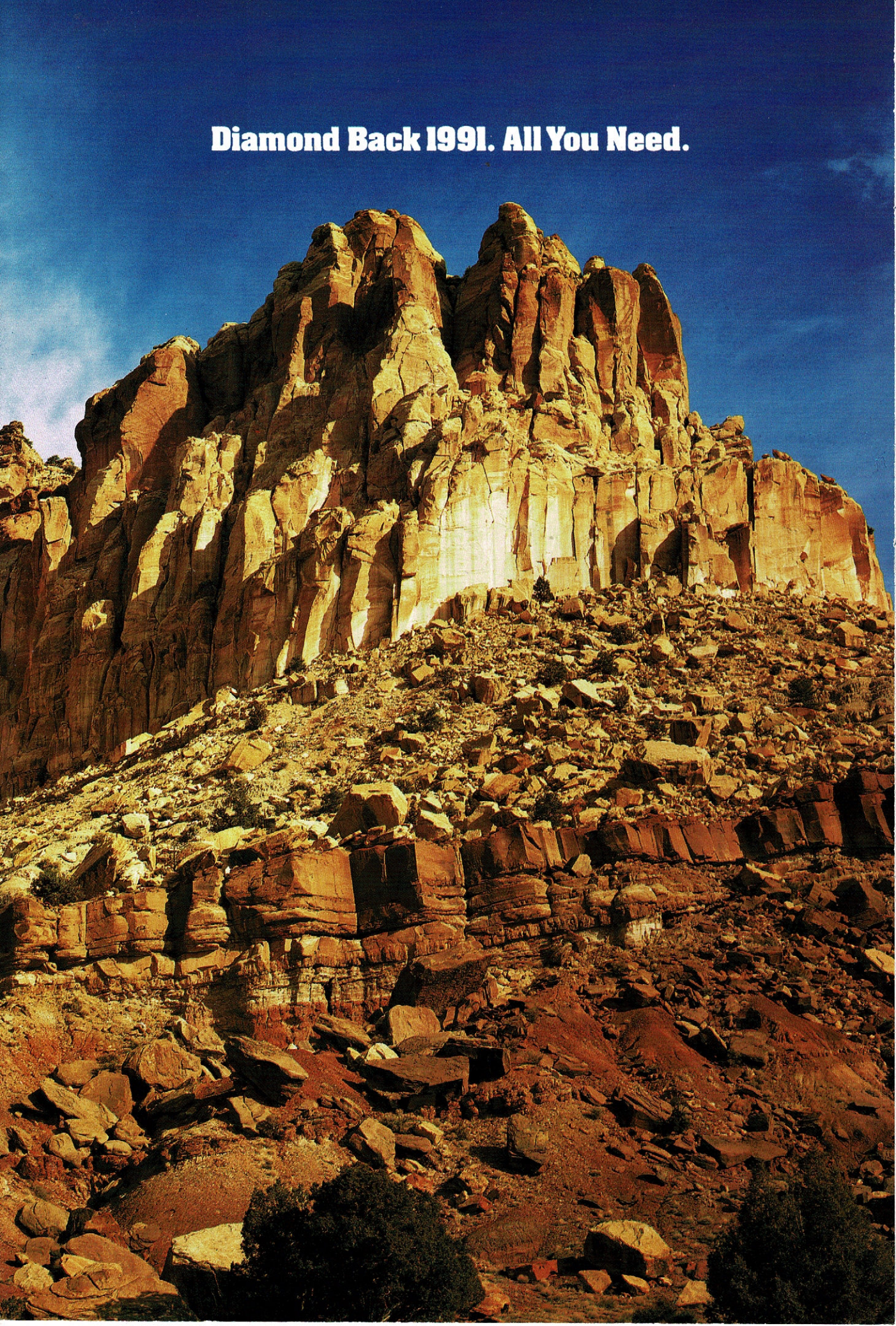

Diamond Back 1991. All You Need.

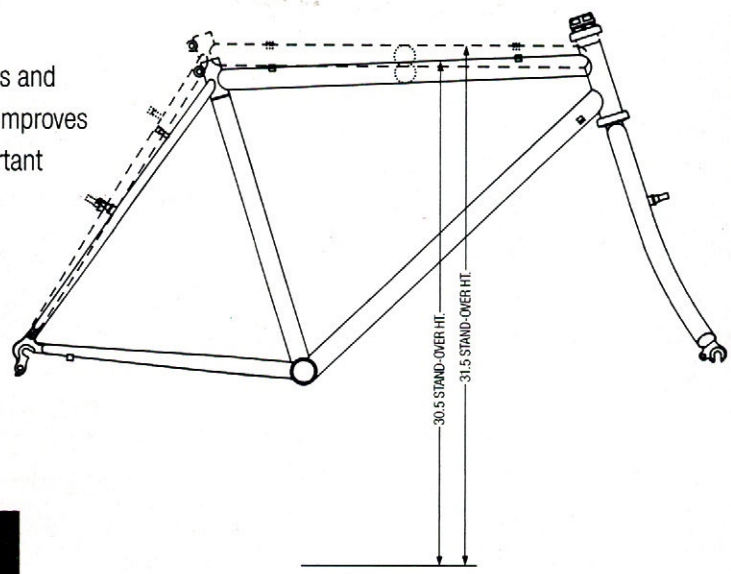
The Diamond Back Optimum Design System.

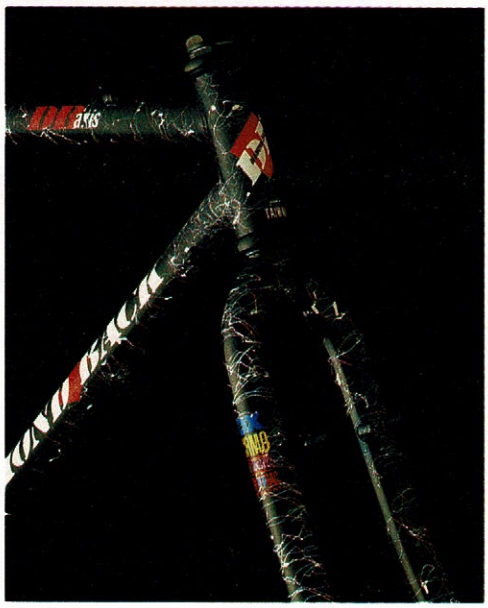
Balance. A principle as basic to bicycle riding as the wheel itself. It's also the guiding principle behind the design of every Diamond Back bicycle. The balance of performance and durability. Of speed and responsiveness. Of lightness and strength. We call it Diamond Back Optimum Design. **ODS.**

Working closely with the Diamond Back professional team riders, our designers have engineered significant refinements into each new 1991 bicycle, resulting in a line whose Optimum Design promises to set the standard for the industry.

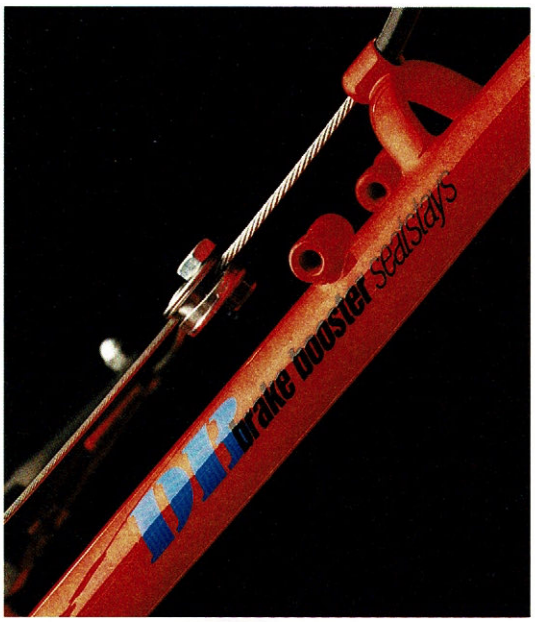
The new Diamond Back Mountain Bikes incorporate many of our Optimum Design elements including performance frame geometry and sizing, Unitrac oversize steering system, Brake Booster seat stays and a 73mm bottom bracket. Each offers clear advantages to both the competitive and recreational rider.

Performance geometry increases the stiffness and stability of the frame, decreases weight and improves top tube clearance, which is especially important when riding in rough terrain. The optimized slope angle of the top tube increases clearance while avoiding excessive seat post leverage.



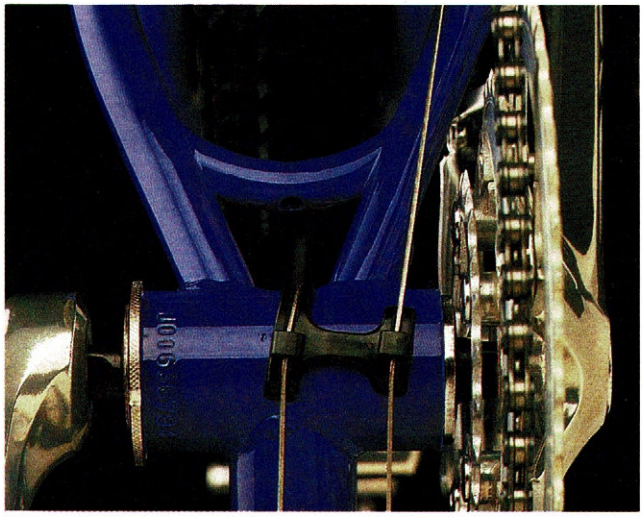


The Unitrac oversized steering system includes a Tioga Avenger headset, 1⅛" steer tube and Super Radius big fork. The thinner gauge, larger diameter tubes used in the Unitrac system actually reduce weight compared to conventional designs and provide superior strength. Super Radius forks have an extended radius bend of 600mm and gradually distribute stress along the length of the fork, providing optimum shock absorbency and precision handling.



Optimum Design extends to the braking system as well. We have tapered the Brake Booster™ seat stays up to 19mm in diameter, strengthening the base to which the brakes are mounted. The result: more powerful and more smoothly controlled braking performance – on any surface or grade.

We have also increased the tire clearance around the chain stay with a 73mm bottom bracket. An extra 5mm wider than conventional designs. This permits the use of wider profile tires and reduces mud build-up in wet conditions.



Our **O**ptimum **D**esign **S**ystem™ assures you of great quality frames and components. But we go much further. With exciting new graphics and color schemes. And with the durable six-stage finishing process which protects every bike we make. From start to finish, we design every Diamond Back bike to maximize performance of each of its parts, and of the bike as a whole.

Optimum Design. A guiding principle and a philosophy that results in making a Diamond Back bicycle **All You Need.**



Ultra II tubing. Heat treating permits use of massive 1⅜" down tube for increased frame stiffness. The result is significant overall strength, durability and performance.

On mountain trails. Through country roads.

Built for competition, performance and adventure
Equipped with precision componen

Diamond Back Bicycles. Agile. Rugged. Aggressi
To inspire you to expand your li

Axis Team Bred from champion stock and race-ready. This bike inspires you to push your limits, and it responds. It will take you further. Steeper. Faster. From front to back, the Axis Team is built for performance.

Over city streets. Diamond Back Bicycles.

. Born of our exclusive Optimum Design System.
ts and refined for the ultimate ride.

ve. All you need to get the most out of your ride.
mits. And to explore the world.



Super Radius™ forks have an extended radius bend of 600mm. This design gradually distributes stress along the length of the fork.



Take Note: **O**ptimum **D**esign **S**ystem. New True Temper OX Ultra II heat treated frame set. Shimano Deore XT group with Super SLR brake system Avenir™ racing wheel set. Smoke 2.1 tires



Axis A race quality bike has to deliver when the pressure is on. With the same Optimum Design System found on the Axis Team, deliver it will. Competition ready – all you add is the will to win.

Notables: **O**ptimum **D**esign **S**ystem. True Temper frame set with 1⅜" down tube and taper gauge OS big fork. Avenir 4130 chromoly seat post and handle bar. Shimano low-profile cantilever brakes with Super SLR levers. Tioga T-Bone stem.



Apex Pure mountain bike performance is built into the Apex. Rugged. Uncompromised handling that will take you to the top. In a hurry. A dynamic blend of ergonomic design and precision engineering.

Check This Out: **O**ptimum **D**esign **S**ystem. True Temper, double-butted, AVR chromoly frame set. Shimano Deore DX equipped. Avenir Duro 17 racing rims. Avenir thin-wall chromoly seat post and handle bar.



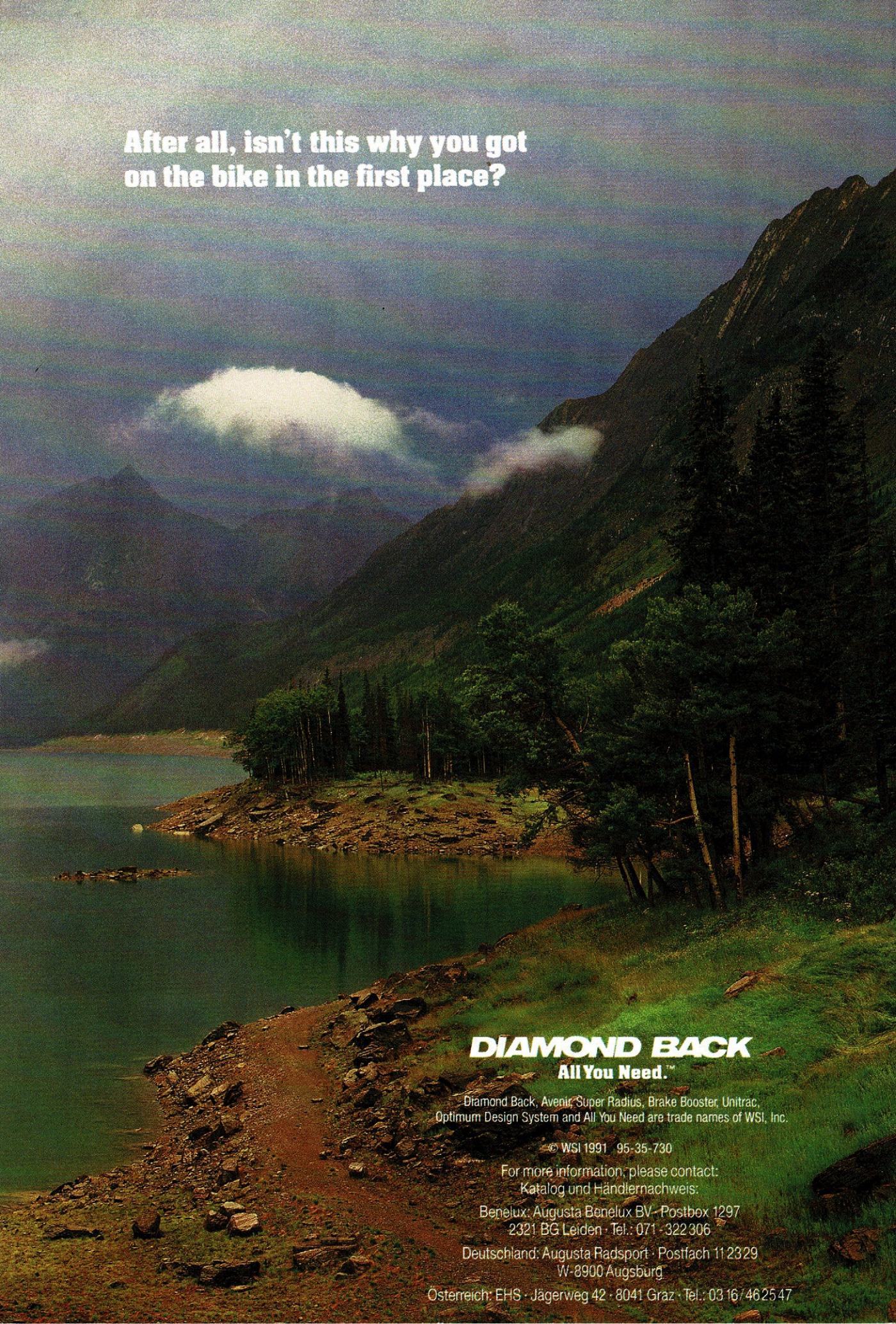
Ascent EX Getting there is more than half the fun. Once you crest the ridge you'll know why you made the climb. If you're going to go all out make sure your bike is ready to handle it. Make sure it's an Ascent EX.

Plenty To Admire: **O**ptimum **D**esign **S**ystem. True Temper, double-butted, AVR chromoly frame set. Shimano Deore LX equipped. Araya RX-7 black anodized rims. Avenir Italian Racingel saddle.



Ascent Hills. Valleys. Ridges. Trails. You find the location, we've designed the bike to take you there. And back. We don't know of any terrain that the Ascent can't handle. It'll deliver real mountain bike excitement every time.

Important Features: **O**ptimum **D**esign **S**ystem. Unitrac™ oversize steering system. Shimano 400 LX equipment. Tioga Wonder Dawg Tires. Avenir Racingel saddle. Araya RX-7 rims.


After all, isn't this why you got on the bike in the first place?
DIAMOND BACK
All You Need.™
Diamond Back, Avenir, Super Radius, Brake Booster, Unitrac, Optimum Design System and All You Need are trade names of WSI, Inc.
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