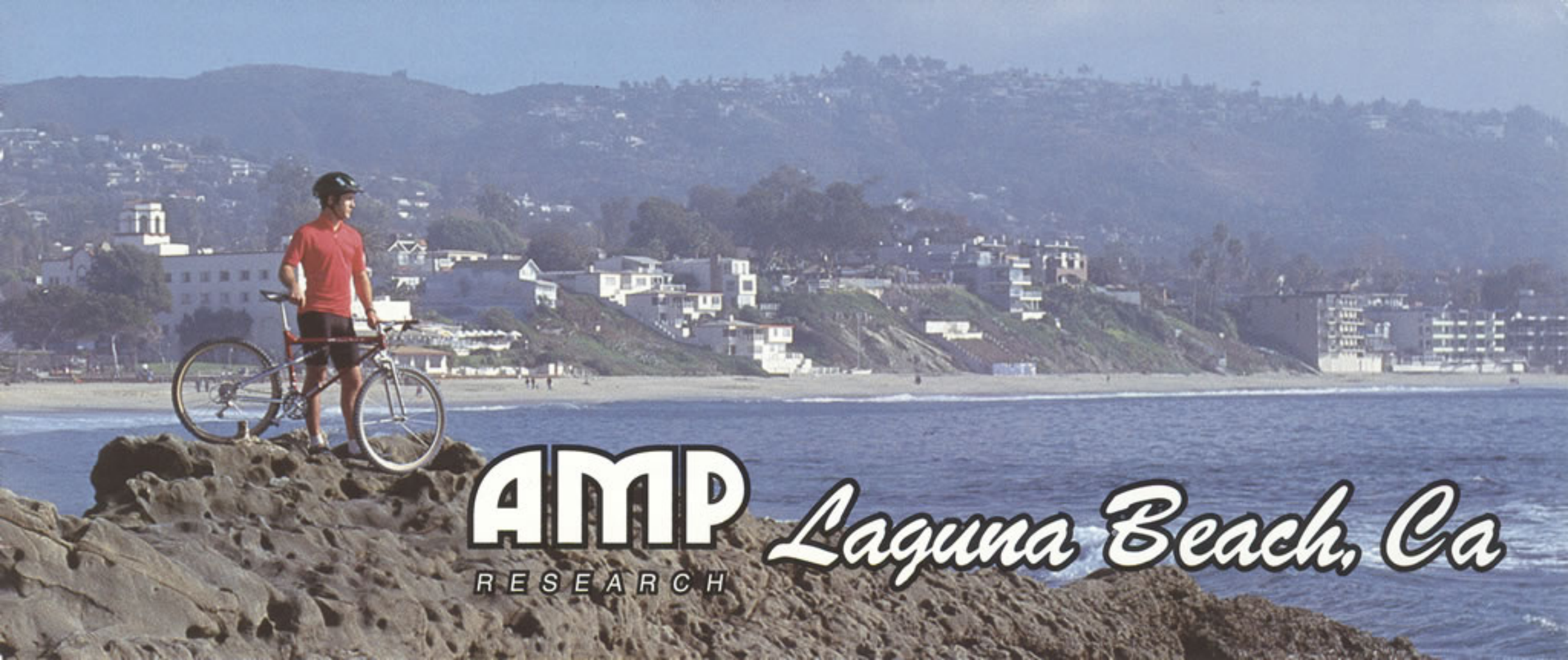
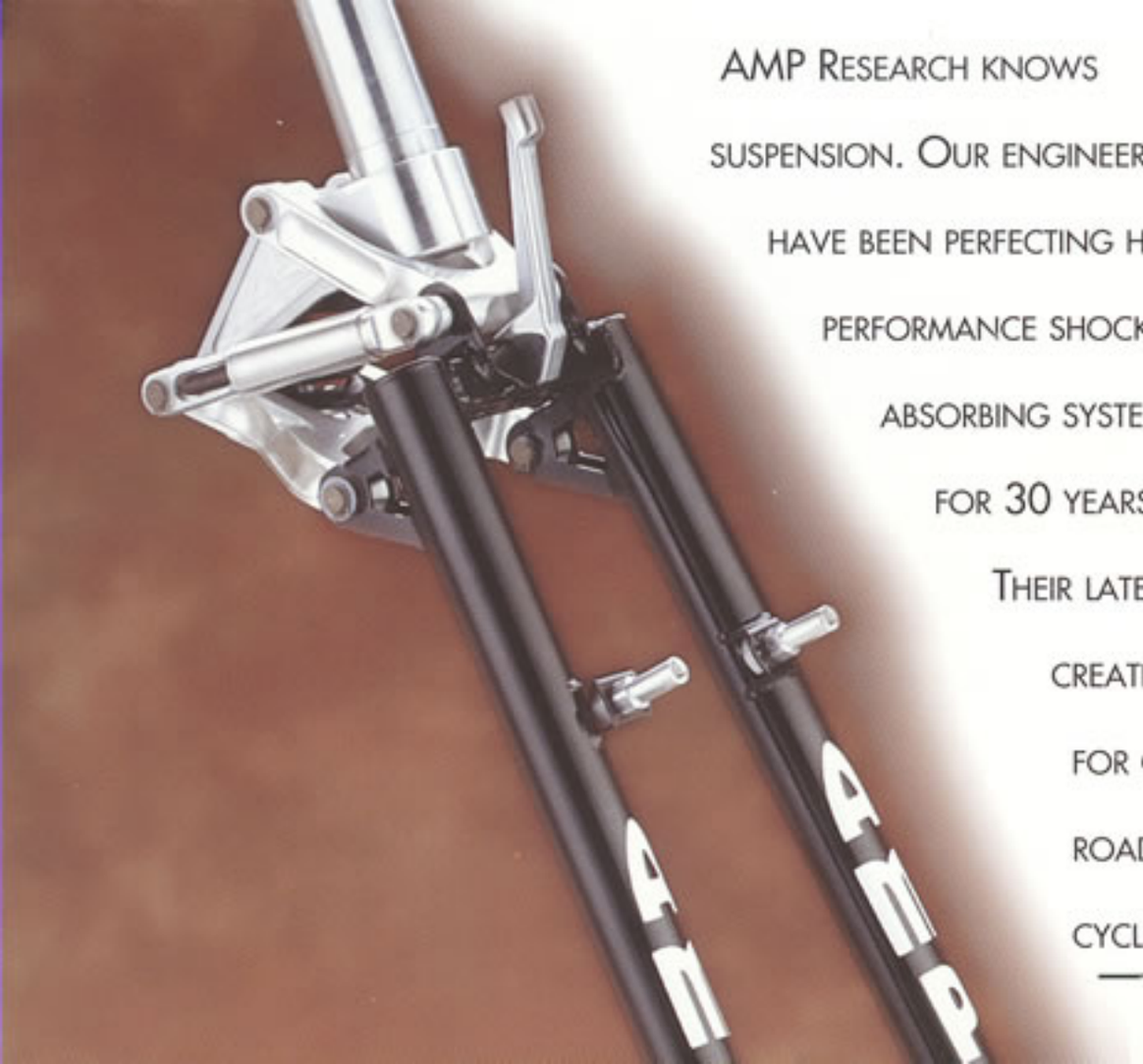

AMP
RESEARCH
Laguna Beach, Ca



AMP Research knows suspension. Our engineers have been perfecting high performance shock - absorbing systems for 30 years. Their latest creation for off-road cycling is the AMP Fork. No other suspension fork is lighter, more rigid, easier to service, or offers more active wheel travel.

The AMP Fork is built with pride in the U.S.A. Patent Pending.

Because it is unencumbered by bulky sliders, stanchion tubes, and heavy internal mechanisms, the AMP Fork is light - just 2.6 lbs. Unlike telescopic forks that require expensive "suspension" hubs and ineffective brake boosters to function at their peak, the AMP Fork compliments all frame designs and needs no special components to deliver precise handling and controlled shock isolation over bumps and ruts of all sizes.

BECAUSE THE AMP FORK HAS ONLY TWO MOVING PARTS, LATERAL FLEX SO COMMON IN OTHER SUSPENSION FORKS IS ELIMINATED. AGGRESSIVE TURNING ANGLES. THE CROWN AND BOTH PARALLELOGRAM ARMS ARE CNC-MACHINED FROM AIRCRAFT TRACTION AND STEERING RESPONSE ON ANY TERRAIN.

FOR YEARS, AUTOMOBILES HAVE RELIED UPON SHOCK ABSORBERS TO SHOCK ABSORBER. THE HARD-ANODIZED ALUMINUM SHAFT AND PISTON INSIDE THE DAMPER PASSES THROUGH A HYDRAULIC RESERVOIR

Why The AMP Fork Works Better.

THE AMP FORK IS ALSO INCREDIBLY RIGID, ESPECIALLY AT ALUMINUM TO REDUCE WEIGHT AND MAXIMIZE STRENGTH. THE RESULT IS A SHOCK ABSORBING SYSTEM THAT IMPROVES CONTROL SPRING COMPRESSION AND REBOUND OVER BUMPS.

COMPRESSION AND REBOUND DAMPING ON THE AMP FORK IS CONTROLLED BY A TINY THRU-SHAFT AND CONTROLS FORK REACTION THROUGHOUT THE SUSPENSION CURVE. ADJUSTING THE DAMPING IS A SIMPLE MATTER OF CHANGING THE FLUID INSIDE THE SHOCK.

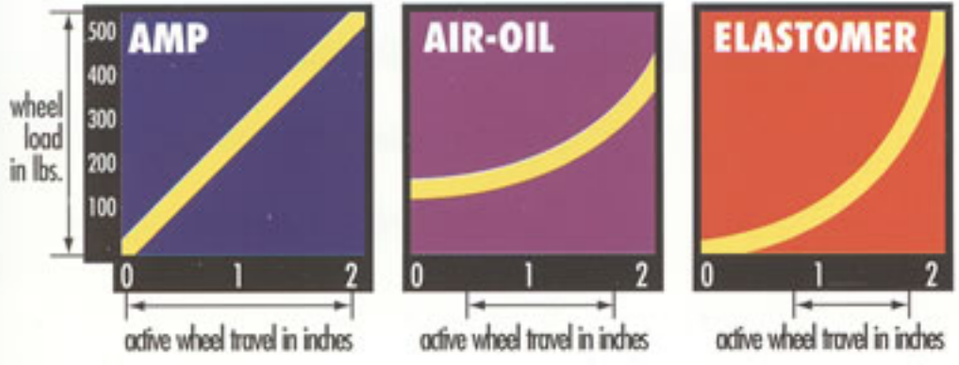
At less than 1 oz., the AMP Fork's thru-shaft hydraulic shock absorber is the biggest little innovation in cycling since the derailleur. Changing the fluid in this shock is quick and easy.

ATMOSPHERIC PRESSURE, EXTREME TEMPERATURES, AND CHANGES IN ELEVATION THAT CAN PLAGUE THE PERFORMANCE OF TEMPERAMENTAL AIR-OIL SUSPENSIONS HAVE NO EFFECT ON THE AMP FORK'S SPRING. PRELOADING THE CHROME SILICON SPRING TO ALTER ITS COMPLIANCE ON DIFFERENT TERRAIN IS ACCOMPLISHED BY TURNING A SINGLE NUT ON THE UNDERSIDE OF THE CROWN. ADJUSTING THE SPRING FOR RIDER WEIGHT OR GREATER OR LESSER RESISTANCE TO IMPACT IS AS EASY AS 1-2-3 AND REQUIRES NO SPECIAL TOOLS. AN ELASTOMER BUMPER INSIDE THE SPRING ELIMINATES BOTTOMING UNDER SEVERE COMPRESSION.

TELESCOPIC FORKS INCORRECTLY ABSORB IMPACT ENERGIES DELIVERED ONLY AT THE SAME PLANE AS THE FRAME'S HEAD ANGLE. ENGINEERED TO ABSORB SHOCK ACROSS A WIDER RANGE OF IMPACT ANGLES, THE AMP FORK SOAKS UP BUMPS AND RUTS THAT WOULD STOP MOST

The AMP DH Linkage Fork was developed to meet the demands of the hard core downhill rider. We have added a second damper and revalved the pistons to transfer more oil in a shorter period of time. The net result is faster fork response in high speed, big hit situations. The DH fork offers a high level of compliance while maintaining its composure during the most severe use. A conversion kit is available which will retrofit onto all existing AMP Linkage Forks.

CONVENTIONAL FORKS IN THEIR TRACKS. THE KINEMATIC LOCK-OUT OF THE AMP FORK MINIMIZES MOVEMENT IN THE SYSTEM FROM WEIGHT TRANSFER SO YOU CAN MOVE ON YOUR BIKE NATURALLY WITHOUT POWER LOSS OR AFFECTING SUSPENSION PERFORMANCE.



These charts graphically illustrate how compression loads (measured in 100-pound increments) affect wheel travel (measured in inches) on different systems. The AMP Fork offers more progressive, active wheel travel over a wider load range than elastomer or air-oil systems.

STICTION IS AN ANNOYING PROBLEM IN EVERY SUSPENSION DESIGN. THE AMP FORK DOESN'T USE BULKY SLIDERS OR DOZENS OF VOLATILE SEALS SO STICTION IS MINIMIZED. ALL PIVOT POINTS RUN ON SELF-LUBRICATING BEARINGS AND HARD-ANODIZED ALUMINUM SHAFTS. BECAUSE THE ENTIRE LINK SYSTEM OF THE AMP FORK IS HELD TOGETHER WITH SIMPLE SNAP RINGS, FINE TUNING AND SERVICING IS FASTER AND EASIER THAN EVER.

IN TERMS OF ITS DESIGN, HANDLING, AND HASSLE-FREE PERFORMANCE, THE AMP FORK IS WITHOUT EQUAL. WHEN YOU'RE READY TO PUSH YOURSELF A LITTLE FARTHER, THE AMP FORK IS YOUR LINK TO THE NEXT LEVEL.

This amazing compact and durable spring gives the AMP Fork over two inches of active wheel travel - more than any other suspension system. The elastomer bumper inside the spring eliminates bottoming out.

THE PERFECT COMPLIMENT TO THE AMP FORK IS THE AMP FULL SUSPENSION FRAME. UTILIZING THE SAME THRU-SHAFT SHOCK TECHNOLOGY AND CHROME SILICON SPRING AS THE FORK, THE AMP FRAME PROVIDES A SUPPLE 2.75" OF TRAVEL. THE STRUT TYPE REAR SHOCKSTAY IS JOINED TO THE SWINGARM WITH THE MOST WIDELY USED AMP

INNOVATION— THE "HORST LINK". THE SAME KINEMATIC LOCK-OUT FOUND ON THE FORK ISOLATES PEDAL AND BRAKING FORCES FROM ACTING UPON THE REAR SUSPENSION. THE AMP FRAME WAS DESIGNED AS A TRUE ALL AROUND SUSPENSION BIKE. THE FULLY ACTIVE SUSPENSION RESPONDS PERFECTLY TO SMALL AND LARGE IRREGULARITIES AS WELL AS KEEPING THE REAR WHEEL GLUED TO THE GROUND WHEN CLIMBING. CONSTRUCTED COMPLETELY OF 6061-T6 ALUMINUM AND WEIGHS 4.5 LBS., ABOUT THE WEIGHT OF A CONVENTIONAL RIGID FRAME. JUDGING BY THE RESULTS, THE LIGHTWEIGHT, DURABLE, AND EFFICIENT AMP SUSPENSION FRAME IS A COMPLETE SUCCESS.

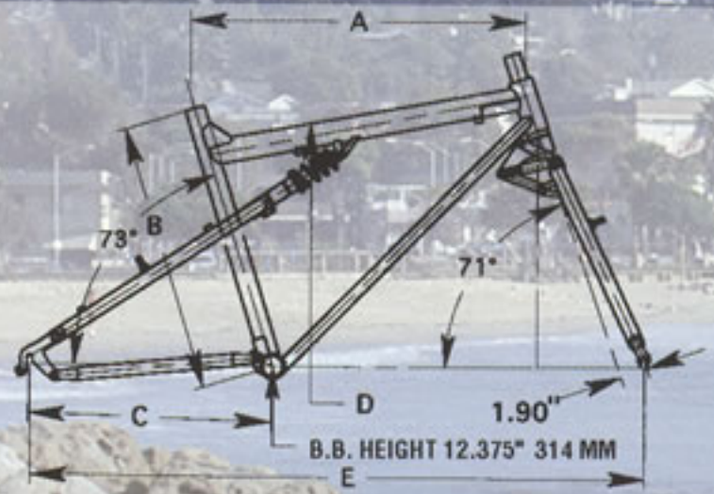
At AMP, Form Follows Function.

AMP'S COMMITMENT TO SIMPLICITY IS EVIDENT THROUGHOUT THE FRAME. YOU WON'T FIND ANY COMPLICATED AND HEAVY LINKAGE SYSTEMS. THE FRAME IS AS WITH EVERY AMP PRODUCT, SIMPLICITY, SUPERIOR FUNCTION, AND LIGHTWEIGHT WERE THE DESIGN CRITERIA WHEN WE SAT DOWN AT THE DRAWING BOARD.

AMP RESEARCH

Specifications

	A. TOP TUBE LENGTH	B. SEAT TUBE LENGTH	C. CHAINSTAY LENGTH	D. STANDOVER HEIGHT	E. WHEEL BASE	TRAIL
Small	22.13″ 562mm	17″ 432mm	16.75″ 425mm	27.95″ 710mm	41.38″ 1051mm	2.5″ 63.5mm
Medium	23.13″ 588mm	18.5″ 470mm	16.80″ 427mm	28.39″ 721mm	42.40″ 1077mm	2.5″ 63.5mm
Large	23.84″ 606mm	20.5″ 521mm	16.88″ 429mm	29.80″ 757mm	43.27″ 1099mm	2.5″ 63.5mm



AMP Fork steer tube sizes available: Threaded – 1″ or 1 1/8″ x 130mm, 165mm, 200mm, 235mm.
Threadless – 1″ or 1 1/8″ x 260mm (chromoly or aluminum).

AMP Research 1855 Laguna Canyon Rd., Laguna Beach, CA 92651 Ph: 714-497-7525 Fax: 714-497-0284 Printed in U.S.A.