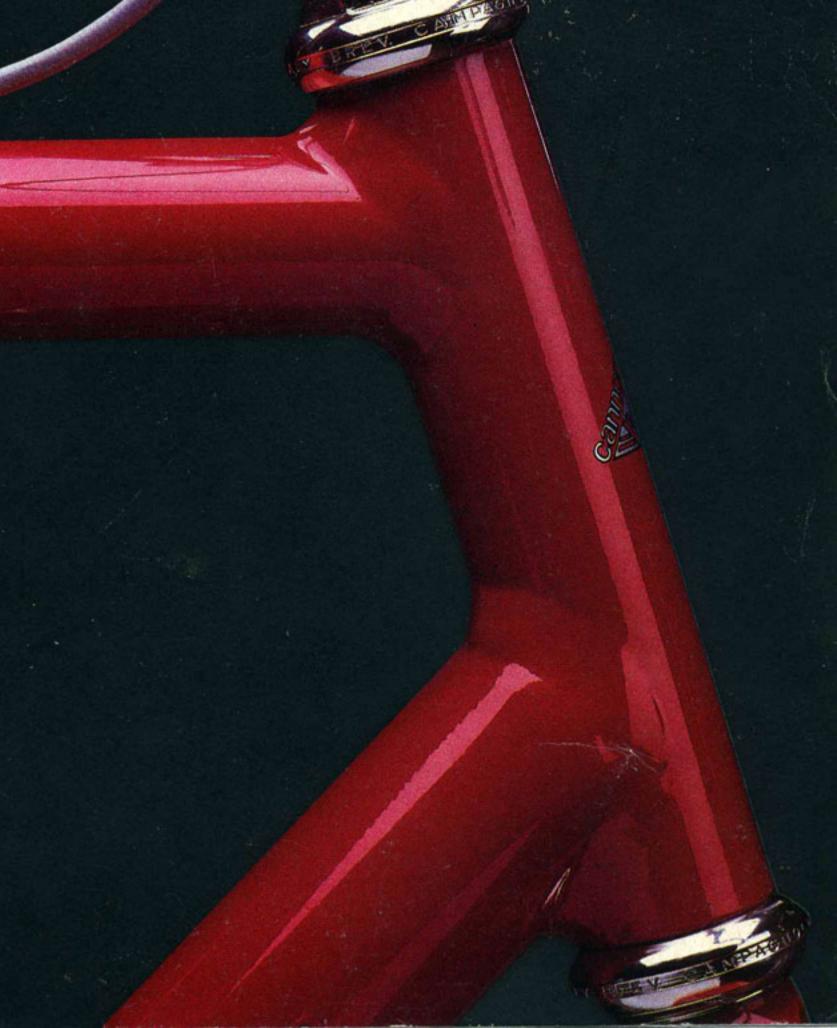
cannondale

1985



ALUMINUM -- NOT STEEL

One look tells you. Cannondale bicycles are a breed apart. Their distinctive appearance implies power and represents an evolution in bicycle design and construction. For years conventional bicycles have been made of small diameter steel tubes that are brazed and joined with lugs. Cannondale bicycles are built with large diameter 6061-T6 aluminum tubing, professionally welded and heat treated.

Riding Cannondale aluminum gives you advantages no steel bicycle can match. Your energy is more efficiently transferred to the rear wheel. The frame is stronger. The frame is lighter. You experience a more comfortable ride. And you have Cannondale's tradition of service riding behind you with the best guarantee in the industry.

Cannondale Advantage.

Before you can start the pedal turning you must compress the spring, which takes additional effort and adds up to a lot of wasted energy. Frame flex, like the springs, wastes your cycling energy.

We utilize the greater stiffness inherent in a large diameter tube to create a remarkably rigid bicycle frame that virtually eliminates frame flex. The increased efficiency of the Cannondale design allows you to travel farther, faster with less effort.

STRONGER, LIGHTER

In addition to enlarging the tube diameter we have increased the thickness of the tubing wall to create a stronger bicycle frame.

FASTER, MORE EFFICIENT

The more your frame flexes as you pedal, the more your energy is wasted. Imagine putting springs on your pedals.

Not even a frame made of Reynolds 531, generally regarded as the finest steel bicycle tubing, matches a Cannondale for strength...and because Cannondale frames are aluminum, they actually weigh about a half pound less. Increased strength and efficiency, with decreased weight. That's the Cannondale aluminum advantage.

MORE COMFORTABLE

Our large diameter aluminum tubing dampens road shock better than steel tubing, treating you to the smoothest ride you will experience on a bicycle. The bike softens bumps and hugs the road giving you a steady, comfortable ride even on rough surfaces. Attack a hill. Break into a sprint. Pedal hard and fast. The bike bursts forward with no flex or frame sway, no wasted energy. Experience the almost uncanny way in which a Cannondale smooths out rough stretches of road. We are confident you will feel the difference a Cannondale makes; and that our attention to detail and concern for performance will impress you. With Cannondale, the evidence is in the ride.

MADE IN THE U.S.A.

Cannondale bicycles are the product of American design and technology, engineered in Connecticut and built in Pennsylvania. We combine the special touch of hand-made craftsmanship with advanced manufacturing techniques. Each frame is hand welded, then brought up to maximum strength with our sophisticated heat treating process to assure you of a lifetime of quality and performance.

CALL OUR TOLL-FREE HOTLINE: 1 800 BIKE USA

Back Cover Photo by Glenn Morrell Front Cover and Bicycle Photos by Karen Heerlein

THE ULTIMATE RIDE

We invite you to test ride a Cannondale aluminum bicycle. Compare its ride to that of any other bike on the market.

100% GUARANTEED

We are sure that Cannondale bicycles are the finest bicycles in the world. That is why we confidently offer the best guarantee in the industry. Cannondale bicycles, like all Cannondale products, are covered with our 100% guarantee of satisfaction. If you are ever dissatisfied, we will repair or replace your Cannondale bicycle.

CANNONDALE BICYCLES

A synthesis of advanced technology and intelligent design. We combine Cannondale aluminum with innovative features, function specific and proportional geometry, and well-chosen components to produce today's ultimate cycling machines.

PERFORMANCE GEOMETRY

All Cannondale bicycle frames are built with geometry chosen specifically for the bicycle's intended use. This function specific design is enhanced with proportional geometry to assure you of a correct fit. Whether your cycling interests are racing, touring, or all-terrain, Cannondale has a bicycle to properly fit you and your riding needs.

THE FINEST COMPONENTS

The detail of fine quality is evident in the components we've chosen for Cannondale bicycles. We select each component to complement the bicycle's intended use, always with an eye on function and value.

PATENTED DESIGN

All Cannondale bicycles feature our unique Optimum Oval™ seatstays (pat. pend.) to reduce the amount of frame sway in the rear triangle. Frame sway is caused by loaded panniers or the cyclist pedaling out of the saddle. Our oval construction results in increased resistance to frame sway without adding weight to the frame, giving you a stable, more efficient ride.

Our offset seat tube design (pat. pend.) allows us to shorten the chainstays on Cannondale racing bicycles, tightening the wheelbase and creating a more rigid rear triangle. It also makes the bicycle stiffer by effectively shortening the down tube.

ALL THE EXTRAS

We include cable guides, rack mounts, chain hangers, bottle bosses, and other fittings to increase the function and convenience you get from your Cannondale frame. DuPont Imron polyurethane enamel, protected by a clear coat, gives Cannondale bicycles a long lasting, lustrous finish.

CANNONDALE ALUMINUM FRAMESETS

All Cannondale models are available as framesets as well as complete bicycles. Cannondale framesets come with headset, fork, and front derailleur.

RACING. Cannondale racing framesets feature Optimum Oval™ seatstays, offset seat tube, short wheelbase, and responsive steering. Frame fittings include front derailleur "braze-on" bracket, shifter bosses, two sets of water bottle bosses, cable guides, and chain hanger.

TOURING. Cannondale touring framesets feature Optimum Oval™ seatstays, long wheelbase, forgiving steering, and ample pannier clearance. Frame fittings include rack mounts, shifter bosses, three sets of water bottle bosses, cable guides, and chain hanger.

ALL-TERRAIN. Cannondale all-terrain framesets feature Optimum Oval™ seat stays, sloping top tube, high bottom bracket, nimble steering, and long wheelbase. Frame fittings include rack mounts, two sets of bottle bosses, cable guides, and chain hanger.

FRAME SPECIFICATIONS: Racing

Size (cm)	48	50	53	54.5	56	58	60	63
Seat tube angle	77°	75.7°	74.4°	74°	73.7°	73.1°	73°	73°
Head tube angle	72°	72.8°	73°	73°	73°	73°	73°	73.5°
Top tube length (in)	20.1	21.1	21.8	21.9	22.0	22.1	22.3	23.1
Chainstay length (in)	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75
Fork rake (in)	1.75	1.625	1.5	1.5	1.5	1.5	1.5	1.38
Bottom bracket height (in)	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.80
Wheelbase (in)	38.8	38.9	38.9	38.9	38.9	38.8	39.0	39.5
Trail (in)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Ground to top of top tube (in)	28.3	29.6	30.6	31.3	31.9	32.6	33.2	34.5

FRAME SPECIFICATIONS: Touring				All-Terrain				
Size (in)	19	21	23	25	16	18	20	22
Seat tube angle	76.7°	73.5°	73.5°	73.5°	73.5°	73.5°	73.5°	73.5°
Head tube angle	72°	72°	72°	72°	68°	69.5°	69.5°	69.5°
Top tube length (in)	20.3	21.75	22.25	23.25	21.5	22.5	23.25	24.25
Chainstay length (in)	18	18	18	18	17.5	17.5	17.5	17.5
Fork rake (in)	2.125	2.125	2.125	2.125	1.75	1.75	1.75	1.75
Bottom bracket height (in)	10.2	10.3	10.44	10.52	12.75	13	13	13
Wheelbase (in)	41.1	41.3	41.6	42.7	42.8	43.2	44.1	45.2
Trail (in)	2.15	2.15	2.15	2.15	3	3	3	3
Ground to top of top tube (in)	28.5	30.5	32.5	34.5	27.1	29.2	31.1	32.9

RACING-SR900

The stiffest production frame in the world. Transforms more of your energy into forward motion. Ride a 100-mile road race without experiencing the bone jarring fatigue of harsh riding steel frames. Break into a sprint. The bike immediately responds, taking you across the finish line ahead of the pack.

The **SR900** combines the latest American technology with a classic Campagnolo/Cinelli component package. The result is an elegant statement of performance.



Photo by Bruce Alexander

RIMS	. Super Champion Gentlemen, 700c
	. Campy Nuovo Record, small flange
	. double butted, 14/16/14, 3 X
TIRES	
	. Campy Nuovo Record, braze-on type
REAR DERAILLEUR	
SHIFTERS	
	. Campy Super Record, 42/52
	. Campy Super Record, 42/32 . Campy SL w/Cinelli alloy clips
	. SunTour New Winner 13/15/17/19/21/24
	. Campy Nuovo Record, short reach,
	recessed allen bolt
HANDLEBAR	
STEM	
HEADSET	
SEATPOST	
SEAT	
FORK	
FRAME	
	. Fire Engine Red, White, Black
SIZES (cm)	. 48, 50, 53, 54, 56, 58, 60, 63
WEIGHT (lbs.)	. 22.5 (58cm)
FRAMESET RETAIL	. \$295
SUGGESTED RETAIL	\$995



RACING-SR500/600

Fast. Efficient. Comfortable. A serious road racing bicycle for competitive cyclists who demand a lot from themselves, unwilling to settle for second best. The bicycle responds to pedaling like a sprinter to the starting gun, exploding forward, turning effort into pure speed.

The **SR500** is a premium racing bicycle featuring Cannon-dale's finest aluminum frame and an uncompromising component package.

The **SR600** is the same bicycle as the SR500 but with the tubular wheel option. Substitute Mavic GP-4 hard anodized rims, Wolber Neo Pro tires and 15/16/15 gauge spokes. Add \$30 to the price.

A smooth machine. I find myself able to spend more hours and ride more miles.... The bike especially shines on rough pavement and brick roads. I feel like I have very good control of the bike and am able to travel at a higher speed.

-G.B., Wichita, KS

HUBSSPOKESTIRESFRONT DERAILLEURREAR DERAILLEURSHIFTERS	. SunTour Cyclone, braze-on type . SunTour Superbe Pro, 42/53,
DEDALC	black chainrings
	. SunTour Cyclone w/alloy toe clips
FREEWHEEL	
	13/15/17/19/21/24
BRAKES	. Dia Compe RGC-400 w/AGC-250 levers,
	black finish, recessed allen bolt
HANDLEBAR	. Cinelli Model 64
STEM	. Cinelli Model #1/A
HEADSET	. Omas Grand Prix, alloy
SEATPOST	. Sugino Model SP-H
SEAT	. Vetta racing, leather
FORK	
FRAME	
COLORS	
	. 48, 50, 53, 54, 56, 58, 60, 63
WEIGHT (lbs)	
FRAMESET RETAIL	
SUGGESTED RETAIL	



RACING-SR300

Breaks the price barrier. An aluminum racing bicycle under \$400 that sacrifices nothing. Built around the SR900 frame and rides to the same high standards. Outperforms steel bicycles costing several times as much. The ideal first racing bicycle for triathletes and aspiring racers.

The SR300 combines the performance of Cannondale aluminum with quality components at an affordable price.

Having put in a nice 40 mile jaunt around the six mile loop in Central Park on my new Aluminum Racing frame, I must say THANKS, it's great. Besides climbing the 110th street hill with the greatest of ease, I've discovered another unadvertised bonus: the Cannondale aluminum racing frame is a great way to meet fellow cyclists.

It usually starts with a quizzical look as you cruise by on the ascent behind the Metropolitan museum: a kind of "what-the-hell-is-it?" gape. Not much later, jaw retracted and having gotten close enough to read "Cannondale" on the top tube, he or she will ask: "so how do you like the frame?" I've learned to control my smile now but it was tough at first. Then of course I rave!.

-P.G., New York, NY

RIMS	Rigida 1320, 700c
HUBS	
SPOKES	
TIRES	Panaracer, 700c, presta
FRONT DERAILLEUR	SunTour Cyclone, braze-on type
REAR DERAILLEUR	
	SunTour Cyclone, braze-on type
CRANKSET	Sugino DGS, 42/52
PEDALS	
	SunTour 6, 13/15/17/19/21/24
BRAKES	Dia Compe GC-400N w/AC-250G levers,
	recessed allen bolt
HANDLEBAR	
STEM	
HEADSET	
SEATPOST	
SEAT	
FORK	
FRAME	
	Violet, Continental Blue, Black
	48, 50, 53, 54, 56, 58, 60, 63
WEIGHT (lbs)	
FRAMESET RETAIL	
SUGGESTED RETAIL	\$395



TOURING-ST500

Built for the open road. More efficient. More comfortable. Cross a mountain pass with less effort and without experiencing the nagging shimmy of a whippy frame. Long wheelbase and low bottom bracket deliver a stable, forgiving ride. The bicycle for the adventurer who demands performance.

The **ST500** features rugged, long haul components on Cannon-dale's aluminum advantage frame to take the punishment of cross-country touring.



Photo by Galen Rowell

RIMS	Super Champion Model 58, 27 X 1¼"
	SunTour, sealed, small flange
SPOKES	
	Specialized Touring, 27" X 11/8", presta
FRONT DERAILLEUR	
REAR DERAILLEUR	Huret Duopar
	SunTour Superbe, braze-on type
CRANKSET	
PEDALS	
	SunTour New Winner, 13/16/20/24/30
BRAKES	Modolo Flash, regular reach
HANDLEBAR	Belleri, Randonneur
STEM	SR Apex, forged
HEADSET	Tange Levin
SEATPOST	SR Laprade
SEAT	Avocet Touring I, leather
FORK	Tange, chrome-moly, fully sloping crown
FRAME	Cannondale Aluminum
COLORS	Red, Charcoal, Blue
SIZES (in)	19, 21, 23, 25
WEIGHT (lbs)	
FRAMESET RETAIL	\$250
SUGGESTED RETAIL	\$595





TOURING-ST400

Maybe the finest all-around bicycle ever made. Touring frame geometry for stability. Racing bike stiffness for speed and efficiency. Commute to work during the week. Take a weekend tour. Race the bike leg of the local triathlon. Ride a time trial. This bicycle does it all.

The **ST400** combines a versatile component package with the advantages of large diameter aluminum to produce a true sport/touring bicycle.

The Maui Triathlon was my first triathlon, and naturally I had many reservations concerning my ability to successfully compete in, and complete the event....I honestly feel that had it not been for my Cannondale, I would not have been able to complete the biking portion of the race. My Cannondale performed beautifully and comfortably....Best of all, I averaged about 4 miles per hour faster in the race than I had ever ridden before. I thank you for manufacturing such a fine American product.

-R.M.B., Beverly Hills, CA

RIMS	Rigida 1320, 27"
	New Shimano 600 EX, low flange
SPOKES	에 사용 교육하다 기업을 보고 있습니다. 이 사용 전에 HER PROPERTY NEW OFFICE CONTRACTOR
TIRES	Panaracer, 11/8" skinwall, presta
FRONT DERAILLEUR	New Shimano 600 EX
REAR DERAILLEUR	New Shimano 600 EX, long cage
SHIFTERS	New Shimano 600 EX
	New Shimano 600 EX, 45/50
PEDALS	New Shimano 600 EX w/toe clips
FREEWHEEL	Shimano twist tooth, 13/16/19/23/28/34
BRAKES	New Shimano 600 EX, regular reach
HANDLEBAR	Belleri, Maes bend
STEM	Nitto Young
HEADSET	New Shimano 600 EX
SEATPOST	Sugino SP-H
SEAT	
FORK	Tange, mangalloy w/low rider bosses
FRAME	Cannondale Aluminum
COLORS	Black, Continental Blue, Fire Engine Red
SIZES (in)	
WEIGHT (lbs)	24 (23")
FRAMESET RETAIL	
SUGGESTED RETAIL	\$495

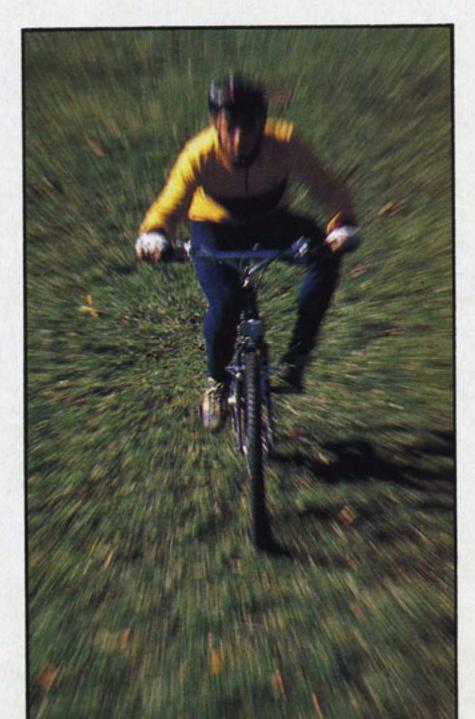


ALL-TERRAIN—SM600

One mean mountain bike. Climbs steep grades easily through the improved traction of a 24" rear wheel. Dodges obstacles with nimble steering. The sloping top tube provides increased crotch clearance. The high bottom bracket clears rocks and roots. Discover the meaning of all-terrain.

The **SM600** takes Cannondale aluminum into the wilds with innovative allterrain geometry and the finest offroad components.

Photo by Bruce Alexander



RIMS	. Sun Metal, extruded aluminum, 26" front, 24" rear, black anodized
HUBS	. SunTour X-C, sealed w/bolt axles
SPOKES	
TIRES	. National, full knobby, skinwall
FRONT DERAILLEUR	
REAR DERAILLEUR	
SHIFTERS	
	. Sugino TAT 28/36/44, 172.5mm arms
DEDAIS	. SunTour X-C II "Bear Trap"
EDEEWHEE!	. SunTour New Winner, 13/16/21/26/30
	. SunTour X-C, Dia Compe 282 motorcycle
BRAKES	style levers & cables
HANDLEBAR	
HANDLEBAR	
STEM	. Suntour X-C
HEADSET	. Hatta Kongo, sealed alloy, w/Suntour X-C
	head binder
	. Avocet Touring I, leather
FORK	. Tange, chrome-moly
FRAME	
COLORS	
SIZES (in)	
WEIGHT (lbs)	The contract of the contract o
FRAMESET RETAIL	
SUGGESTED RETAIL	. \$695



ALL-TERRAIN—SM500

Cruise through the forest or to the store. All the frame design characteristics of the SM600. Nimble steering. High bottom bracket. Stump pulling gears. Sloping top tube. Ultra traction rear wheel. Hops curbs and rocks with equal agility.

The **SM500** is a functional synthesis of street and trail design for cyclists who need a rugged dependable bicycle.

I love it. It is stiff, smooth, and responsive. I have owned four previous bicycles and none compares with the Cannondale.

-J.A.S., Shelby, IA

No other bicycle that I have ever ridden comes close to the performance and comfort....I just can't help breaking out into a big grin every time I get on the bike. Thanks for an absolutely fantastic product and keep up the good work.

-S.R.S, Ville Platte, LA

	Sun Metal, extruded aluminum, 26"
	front, 24" rear, clear anodized
HUBS	
SPOKES	
	Cheng Shin, knobby, raised center rib
FRONT DERAILLEUR	
REAR DERAILLEUR	Shimano Deore XT
SHIFTERS	Shimano Deore XT
CRANKSET	Sugino TAT, 28/36/44, 172.5 mm arms
PEDALS	SR MP 464 BL
FREEWHEEL	Shimano twist tooth, 13/16/21/26/30
	Shimano Deore XT cantilever and levers
REAR BRAKE	
	Specialized, lugless brazed steel
HEADSET	
SEATPOST	
SEAT	
FORK	
FRAME	
COLORS	
SIZES (in)	16, 18, 20, 22
WEIGHT (lbs)	
FRAMESET RETAIL	
SUGGESTED RETAIL	
	0.70 P. 10 P.



TOWN AND COUNTRY—SC300

Designed for city cycling with gentle geometry for a soft, forgiving ride. Long wheelbase. Moderate width tires that cushion city street bumps. Upright handlebars. Comfortable saddle. At last, a truly functional bicycle for civilized cycling.

The **SC300** is a casual bicycle that combines the comfort and performance of Cannondale aluminum with low maintenance, durable components.

FRAME SPECIFICATIONS:

Size (in)	19	21	23	25
Seat tube angle Head tube angle Top tube length (in) Chainstay length (in) Fork rake (in) Bottom bracket height (in) Wheelbase (in) Trail (in) Ground to top of top tube (in)	73.5° 71° 19.96 18.5 2 10.63 40.9 2.36 27.3	73.5° 71° 21.5 18.5 2 10.63 41.9 2.36 28.7	73.5° 71° 22.25 18.5 2 10.63 42.8 2.36 30.7	73.5° 71° 23.25 18.5 2 10.63 43.9 2.36 32.7
ordered to top or top tube (iii)		20.7	00.7	J,

RIMS	Sun Metal, ultralight alloy, 26"
	Suzue, sealed, quick release front
SPOKES	
	National, 26" X 1.5", skinwall
FRONT DERAILLEUR	SunTour Cyclone, w/wrap-around clamp
REAR DERAILLEUR	SunTour ARGT
SHIFTERS	SunTour thumbshifters
CRANKSET	Sugino DGT 40/50, sealed mech. BB
PEDALS	
FREEWHEEL	Suntour 5, 14/17/21/26/32
BRAKES	Dia Compe 980, cantilever w/280 motor-
	cycle style levers
HANDLEBAR/STEM	upright alloy
HEADSET	Tange Levin
SEAT	Brooks Europa
FORK	Tange, mangalloy
FRAME	
COLOR	Continental Blue
SIZES (in)	19, 21, 23, 25
WEIGHT (lbs)	26.5 (23")
FRAMESET RETAIL	
SUGGESTED RETAIL	



WHY DOESN'T CANNONDALE USE DOUBLE BUTTED TUBING?

Steel bicycle tubes are brazed together. This heating process, like welding, causes a weakening of the material. To counteract this reduction of strength, many steel bicycle manufacturers use butted tubes (that is, the tube walls are thicker near the brazed areas). Cannondale does not need to do this because we heat treat the entire frame to bring it up to maximum strength. This means the whole tube is at its

strongest, not just the ends of the tube. Another one of the reasons Cannondale aluminum frames are stronger than traditional steel bicycle frames.

Questions and Answers

WHAT'S THE DIFFERENCE BETWEEN STRENGTH AND STIFFNESS?

There are two types of strength that are factors in bicycle frame construction: yield strength, which is the amount of stress required to permanently deform a tube; and tensile strength, which is the amount of stress required to break a tube. A bicycle's strength has no effect on your ride as long as it is strong enough to withstand the rigors of daily use.

Stiffness, on the other hand, directly affects the performance you experience on your bicycle. It is the measure of a frame's resistance to bending and twisting, and is ultimately a measure of a frame's stability and efficiency. A bicycle's stiffness is tested every time it is ridden.

WHAT ABOUT BOWED FRAME TUBES?

A by-product of the heat treating process is that some frame tubes become bowed. These warpages have no effect on the bicycle's performance because Cannondale frames are aligned after heat treating to assure that they will track perfectly.

HOW CAN A BICYCLE BE BOTH STIFF AND SHOCK ABSORBENT?

Shock is transmitted through a tube in waves. The large diameter Cannondale aluminum tubing is a poor transmitter of these shock waves, and therefore tends to absorb the

shock. For example, aluminum makes a bad bell. This wave transmitting property has little to do with the stiffness of a tube, which is primarily a function of the tube's diameter.

DOES ALUMINUM FATIGUE WITH TIME?

No. Aluminum will not fatigue with time, but like all frame building materials, it will fatigue with use. A material experiences fatigue by undergoing repetitive loading—that is, bending back and forth in a series of cycles or reverse cycles of tension and compression. We have taken this fatigue factor into account, and have designed our frames to stand-up to a lifetime of use. Like all Cannondale products, our bicycles are covered with a 100% guarantee.

CAN AN ALUMINUM FRAME BE REPAIRED IF IT IS DAMAGED?

Not easily or without a lot of expense. That is why we have implemented a trade-in program for damaged Cannondale frames. If you own a Cannondale bicycle or frameset, and the frame becomes damaged, we will give you a new frame for just \$150 and the exchange of your old frame.

WILL STANDARD COMPONENTS FIT CANNONDALE FRAMES?

Yes. We use English threading and standard size components on all our bicycles. The only special component required on a Cannondale frame is the front derailleur clamp. Cannondale supplies a front derailleur with each frame and bicycle. Replacement clamps are available from Cannondale. We use a braze-on style bracket on our racing bicycles to mount the front derailleur.

HOW DO I FIND MY NEAREST CANNONDALE DEALER?

Just give us a call on our toll-free hotline: 1 800 BIKE USA. Mark, Joan, Holly, Tom, or Cissy will be glad to answer your questions and direct you to your nearest authorized Cannon-dale bicycle dealer. If you live in CT or outside the continental USA, please call 1 (203) 838-4488.

Prices and specifications subject to change.

1985 Cannondale Corporation9 Brookside Place, Georgetown, CT 06829



