

parts and accessories

energy foods

Gatorade 21

tools

Dia-Compe 5
3rd Hand 5
Dura-Ace 7
Sugino 8
Artisan 8
SunTour 9,10
Sprocket Tool 9
Cyclo 10
Campagnolo 12
Phil Wood 14
Velox 18
Tire Savers 18
Tire Levers 18
Locktite 19
Spoke 19
HKC Metric 21
Cycle Oil 21
HKC Cone 21
Open-End 21
Lubri-Tech 21
P-51 Handcleaner 21
Gold Seal 21
Cycle Pro 21
BRP Cone 21
Dumbell Spanner 21
Headset Tool 21

camping

Cannondale 4
Cooler 21
Skin-Guards 24
Hammock 24
Bota Bag 24
Mirro 25
Texsport 25,26
Peak 1 25,26
Thermos 25
Silva 25
Pak Foam 25
Victorinox 25
Lantern 25
Caricook 25
Sleeping Bags 26
Eureka 26

grease

Campagnolo 12
Phil Wood 14
Cycle Oil 21
Lubri-Tech 21
Gold Seal 21

saddle

Seat Cover 5,15,16
Touring 15
Cinelli 16
Ideale 16

bags

Kirtland 3,4
Bikeware 3
Cannondale 4
Texsport 25
Coleman 26

brakes

Dia-Compe 5
Mathauser 5
Cable Clamp 6
Dura-Ace 7,24
600 7
Campagnolo 11
Mafac 24
Phil Wood 24

seatposts

Dura-Ace EX 7
Reg 5,23
Campagnolo 12
Bolt 16
Sakae 16

bar & stem

Fiamme 5
Dura-Ace EX 7
Sakae 16,23
Cinelli 16
Pivo 23

tape

Rhode Gear 5
The Tape 5
Tressostar 5
Bailey III 5
Grab-On 5
Cyclegrip 5
Plugs 6

frame

Ishiwata Tandem 23
See Frame Specifier

pump

Silca 20
Zefal 20
MDI 20

headset

Dura-Ace 7
Campagnolo 11
Bearings 14
Galli 21

specs & info

Bottles & Cages 6
Sprocket Tool 9
Gearing 10
Chain Length 10
Crank Instructions 13
Bearing Sizes 14,20
Sizing Info 16
Seatpost Lengths 16
Clincher/Rims 18
Spoke Sizes 19
Pump Sizing 20
Threads 20
Brakes 20
Cone Wrenches 21
Energy Tips 21
Bike Builders 21
Emergency Service 29
Ordering Info 29

bottle & cages

Hi-E 6
Blackburn 6
REG 6
Bike Warehouse 6
Frame-Fit Bottle 6
Rhode Gear 6

rims

Mavic 17
Rigida 17
Fiamme 17
Weinmann 17
Super Champion 17
Budget Wheels 19
Built Wheels 19
Truing Stands 19

hubs

Dura-Ace 7
600 7
SunTour 10
Campagnolo 12
Bearings 14
Phil Wood 14,24
Sturmey-Archer 14

accessories

Child Carrier 4,5
Mirrors 6
Vinyl Letters 6
Wonder 14
Armilight 14
Soubitez 14
Belt Beacon 14
Display Stand 21
Flickstand 21
Fenders 22
Storage Rack 21
Pacemeter 22
Speedometer 22
Halt 22
Storage Hooks 21
Cyclesound 22
Haranastrap 22
Whistle 22
Racket Clamp 22
Locks & Cable 22
Mudguard 22
First Aid 26
Books 20,27

freewheel

Dura-Ace 7
SunTour 9,23
Ultra-6 9
Bearings 14

chains

Regina 10
Sedis 10
Ultra-6 10
Uniglide 10

dernailleurs & controls

Elephant 5
Cables 5
Dura-Ace 7
600 7
SunTour 10
Superbe 10
Campagnolo 11
Bullseye 21

bottom bracket

Sugino 8
Campagnolo 12
Phil Wood 14
Bearings 14
B.B.Taps (see Specifier)

pedals

Dura-Ace EX 7
SunTour 10
Campagnolo 12
Pedal Taps 14
Bearings 14
Top Run 14
Pro Vic 14
Phil Wood 14
Reflectors 14
Sakae 16

tires

Hutchinson 17
National 17,18
IRC 18
Michelin 18
Tubes 18
Wolber 18
Specialized 18
Carefree 18
Tire Savers 18

spokes

Torrington 19
Robegel 19
Locktite 19

toe clips & straps

KKT 14
Christophe 14
Binda 14
Bikeware 14

cranks

Dura-Ace 7
Sugino 8,23
TA 8,23
Campagnolo 12,23

rollers

MTD 15
Bikeware 15



TANDEM SECTION
Pages 23 and 24

bike warehouse

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16

CAROLO

Carolo BICYCLEWEAR has been carefully designed and thoroughly tested over the last 5 years so they now feel BICYCLEWEAR measures up to any brand on the market, in riding quality, regardless of price.

The acrylic materials used to construct Carolo BICYCLEWEAR have proven to be more durable than natural fibers and are far less costly. Carolo BICYCLEWEAR is made beginning with the yarn; in their own factory where it is knit, cut, constructed and quality controlled right to the final product. These are the savings their experience and buying power enables us to pass on to you. They are also not burdened with import duties or long distance shipping costs both of which add only to the price and not the quality.

Carolo BICYCLEWEAR Jerseys are made from 100% Acrylic fiber with many of the properties of wool which this man-made fiber was designed to duplicate. The high visibility colors are selected for safety reasons and will not lose their intensity even after repeated use and washings. Double-rib knit collar and cuffs are white with double color stripes. Nylon lock zipper. Rear pockets are double-layered for strength and to prevent sagging. All reinforcements are double-stitched.

NEW COLOR SCHEMES:

Both Short and Long Sleeve Jerseys now have **CONTRASTING COLOR SLEEVES.**

Touring Outfit

50/50 Cotton/Polyester-Cotton for lightweight comfort Polyester for wearability and washability

JERSEY CB-TJ-Z \$14.50

Colors: Beige Shoulder/Burnt Orange Stripe/Brite Orange Bottom

Light color Shoulder Zone reflects sun and heat off shoulders, arms and upper back

Sizes: S, M, L, XL 31, 36, 40, 45

Nylon Lock Zipper

Deep Accent Stripe coordinates with zipper and collar (Dark Collar reduces stains).

Poly/Cotton Special blend for long wear and comfort

Stretch Waist

Carolo Label

Brass Snap Front

Locking Zippered Fly

S, M, L, XL 29, 32, 35, 38

Pile-Lining Insert provides padding, softness and perspiration absorption without encouraging bacterial growth

SHORTS CB-TS-Z \$16.50

Look of Washed Denim with Orange Double-Stitching

CB-SSJ-Z Short Sleeve Jerseys have two white vertical sections w/two rear pockets.

\$14.50

SPECIFY JERSEY COLOR & SIZE:
Colors: Red body w/Blue sleeves
Blue body w/Red sleeves
Yellow body w/Orange sleeves
Orange body w/Yellow sleeves
Sizes: S, M, L, XL

CB-LSJ-Z Long Sleeve Jerseys, 2 white sections and 2 rear pockets.

\$16.25

Carolo BICYCLEWEAR shorts and tights are made from a special blend of POLY/COTTON which retains its shape and new look after other materials have worn out. The chamois insert prevents chafing and if the simple washing instructions provided are followed will last and remain comfortable. All include a comfortable stretch waist, small rear pocket and cut high in the back for lean over covering and comfort. Extra large stitching. All in Black

Standard Shorts, great for racing or touring.
Sizes: XS, S, M, L, XL
CB-SS-Z \$16.25

Carolo Chamois are extra-soft and have a patented no-lump seam. The most comfortable you can buy.
NOTE: Chamois is in scarce supply

All reinforcement areas are double-stitched

Loose-fitting shorter Sleeves for extra ventilation and comfort

Bright Color Lower Section aids in safety and road visibility

2 Rear Pockets are double-layered

Shorts Cut High in back

Legs Slits add to appearance, freedom of movement and cooling

AW-BS

Suspenders, for that European continental look. They hold up your shorts or tights in the extreme bent over position as in sprinting.



Replacement Chamois Pad - Pre-cut and shaped chamois pad to replace your worn-out pad on your favorite shorts or tights. One size only.

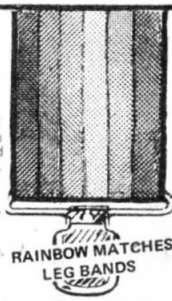
CB-RC \$5.95



NEW

Bike Warehouse/Ski Warehouse T-shirt, hi-crew neck, full cut, 50/50 Polyester/Cotton. Large brown and orange transfer on the back, and a small transfer on the front. Specify Shirt Color: Powder Blue, Light Yellow, Lt. Beige.
BW-BW-K \$4.85

Suspenders, made of the finest U.S. stretch fabric of 89% combed cotton & 11% rubber. Stitched on an exact template to insure a proper fit & function. The seams are triple-stitched at the edges to prevent unravelling. 2" wide. Metal clips attach to whatever you choose to wear. Specify: Rainbow or Orange



2 Sizes:
AW-RS-C REGULAR-fits to 5'10", 170lbs. Rainbow-\$5.00 Orange-\$4.75
AW-LS LONG-fits over 5'11", over 170lbs. Rainbow only-\$5.25

VINYL

poncho

Hooded poncho of heavy gauge vinyl. Hood has visor for added protection. Snap-close sides, large 52"x80" one size fits all. Blaze orange.



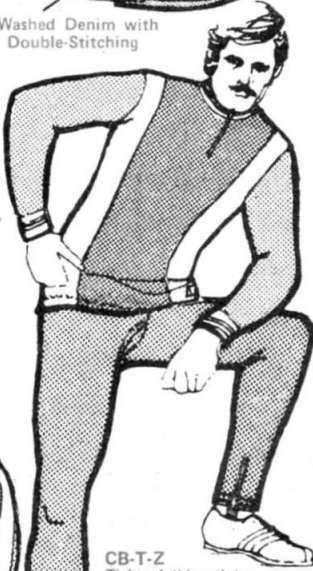
TX-VP \$2.75

clothing sizing

Carolo / Patty Kits

Jerseys (Chest)	Shorts/Tights
XS 30-33	S 25-27
S 30-33	S 28-30
M 34-37	M 31-33
L 38-42	L 34-36
XL 43-47	XL 37-39

CB-T-Z Tights, full length leg and chamois insert so they can be worn with or without shorts. Velcro leg closures and elastic arch straps for perfect fit. Makes great warm-up outfit with any Carolo jersey. Black.
Sizes: S, M, L, XL **\$20.75**



PATTI KITS

A BIKE WAREHOUSE EXCLUSIVE

Patti Kits, Bicycle clothing for the home sewer. Finally, easy, sew-it-yourself kits that are complete and include: illustrated, step-by-step instructions, special thread, no-roll elastic, pre-cut fabrics to your size with room for personal adjustments, and any miscellaneous items necessary.

All kits have been designed, constructed and tested by serious cyclists. Much research went into the selection of materials for riding comfort, durability and economy. Ease of construction has been tested by the novice sewer.



PK-S-Z Biking Shorts, featuring first quality, soft polyester no-run wonder knit. No-roll, wide elastic and super soft, super absorbent, anti-bacterial fleece liner. (Recommended by Dr. Eugene Gaston-Bicycling magazine). Rear pocket. Black Specify: XS, S, M, L, XL \$9.95 Each Kit

PK-J-Z Biking Jersey, short sleeve raglan style with zipper neck & double thick rear pockets. 100% cotton Perma-set knit, multi-stripe front. Specify: Red & White on Navy or Yellow & White on Orange.

Specify: S, M, L, XL \$10.50 Each Kit

PK-TT-Z Biking Tank Top, great for summer wear. 100% cotton Perma-set knit. Multi-stripe front with double thick rear pockets. Specify: Red & White on Navy; or Yellow and White on Orange.

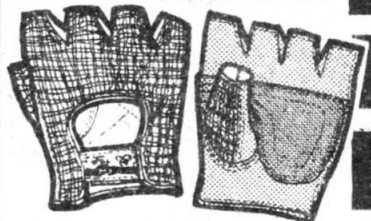
S, M, L, XL

\$8.95

Each Kit

Bike Club Orders of any Color w/ a 20 Shirt Min.

kombi TOUR de FRANCE

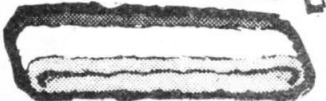


Cycling Gloves, padded leather palm, 100% cotton knit back and thumb, soft natural tan leather, Velcro closure, Kombi logo on strap. Sizes: XS, S, M, L, XL

KO-CG-Z \$8.50 pair

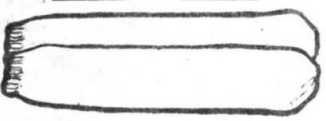
Gloves	XS 6	L 9
Wrap tape measure	S 7	XL 10
around palm for size	M 8	

sweat band NEW



Deluxe striped headbands. Keeps your hair in place and perspiration out of your eyes. Now 5 colors: red/white/royal, red/white/royal/white/royal, kelly/white/kelly or brown/white/brown.

FA-SB-C • 75¢ each 3 for \$2.15



Dry Foot-This 100% Olefin tube under-sock removes perspiration from foot, passing it into outer sock. Extremely useful in biking. Wear alone on hot days. White. One size fits 9-14.

WW-DF \$1.99 pair

New biking/tennis sock, fully cushioned for comfort. True rib top stays up under the most vigorous pedaling. 70% orlon acrylic for comfort, 30% nylon for wear. White with assorted color stripes. Stretch fits sizes 10 to 13

WW-S \$2.35 pair



Mr. LoKut, for the no sock look with the comfort of soft luxurious orlon acrylic (80%) and the wear of stretch nylon (20%) allows maximum ankle exposure to the sun. Fits 10 to 13. Natural.

WW-LK \$2.00 pair

BIKE WARE COMMUTER RAIN SUIT

WATERPROOF 100% Nylon Taffeta
Jacket, beautifully styled with fully open front zipper and zippered neck. Two zippered pockets, hood w/ drawstring but detachable with a Velcro strip. Contrast visible stripe running from collar along the outer seam of the sleeves. Zipper is the same color as the stripe. Back is vented with nylon mesh for cool comfort. Extra large cut.

Pants, straight tapered leg; extra large cut, high elastic waist. Can be worn over other clothing. Stripe which is the same color as the jacket's stripe runs on the out-seams of the legs. Rear zippered cuffs. Yellow with Navy Stripe and Zippers.

Sizes: S, M, L, XL

Compact to fit 8" x 5" Stuff Sack which is included. Total Weight: under 11oz.

BW-CRS-Z \$32.80



No. 38 road cleat, a long plate alloy cleat for road racing or touring (57 G)

TA-RC \$2.50

Acrylic Pile Liner, soft, absorbent, anti-bacterial liner is pre-cut, pre-shaped



BW-PL \$3.50

BIKE WARE

poncho

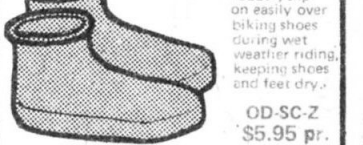


On the back is a fluorescent orange safety triangle w/ reflective tape, making the wearer more visible in rainy weather, day or night

Complete with matching K-Koted Stuff Sack-Fits in any bottle cage

BOTH PONCHO & CHAPS \$25.50

WORKS WITH CLEATS



Shoe Covers, of durable, stretch rubber, slip on easily over biking shoes during wet weather riding, keeping shoes and feet dry.

OD-SC-Z \$5.95 pr.

S(35-38), M(39-42), L(43-47)

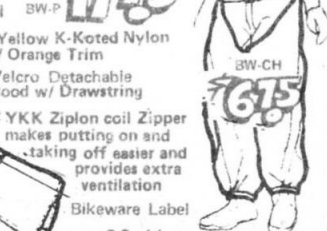


Detto Pietro "Article 74 Special", a high quality, comfortable leather cycling shoe. Comes with a waterproof nylon sole instead of a leather one. Sole has ventilation holes in the heel and toe. Ventilated uppers. Pre-mounted nylon adjustable cleat. US Sizes: 6-11, Detto 38-47

DP-74-Z \$28.25 pair

DP-RC Replacement Cleats-\$3.75 pr.

rain chaps



Nylon Rain Chaps, rain chaps are cool because there's no material above the thigh. These chaps have cuff snaps to keep them high and dry with or without a belt. One size fits all. Matches Poncho

BW-CH \$6.75

BATA



BA-BK-Z \$11.65 pr.

Bata Biker, a rubber sole cycling "sneaker" which doubles as a comfortable walking shoe. Uppers are breathable canvas. Toes and sides are rubberized & reinforced to prevent discomfort from toe straps. Toes and sides are also ventilated for cooling, the soft sole is reinforced so hard riding won't bother your feet. Long padded tongue, 3M reflective tape, heel patch and side logo. Machine washable. Black w/red & yellow stripes

Sizes: Mens black...3-13, Womens black...5-13

kombi



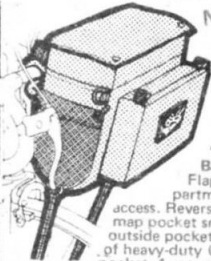
Cross-Country Gloves, naked cowhide. Mesh knit back and wrist. Velcro strap at wrist for snug fit. Acrylic liner for added warmth. Colors: Navy mesh w/White leather Rust mesh w/White leather

Sizes: S, M, L, XL \$10.75 pr.

BIKE NEW

BIKEWARE BAGS- All bags are made of durable waterproof Oxford Pack Nylon. Color is our exclusive Special Burnt Orange (brighter than International Orange), with black trim & stitching. Double C&C Zippers are used throughout with nylon zipper pulls and generous rain flaps. All bags have nylon corner tabs and a black foam reinforcement inside. The BIKEWARE Label appears on all the bags.

NEW REAR POCKET



"Molly" Handlebar Bag, features a Velcro Flap on the main compartment for fast road access. Reversible and removable map pocket snaps on top. Five outside pockets: 2 side pockets of heavy-duty Cordura, 1 zippered top pocket, 1 rear zippered & 1 zippered pocket on front. Inside are elastic straps to secure a waterbottle or other accessories. "D" rings for the optional shoulder strap. This bag utilizes a nylon-coated exterior support frame with a special shock-cord mounting system to provide total stability.

Capacity: 750 cu.in.
Weight: 13 oz.

BW-M \$26.80



Shoulder Strap, \$1.85
CD-A003

"Annie" Seat Bag, has quick-release adjustable latches so bag can be used on saddles with or without accessory clips. Instructions are included for mounting both ways. The bag has a reflector with a nylon reinforcement strap. Capacity: 325 cu.in.
Weight: 7 oz.

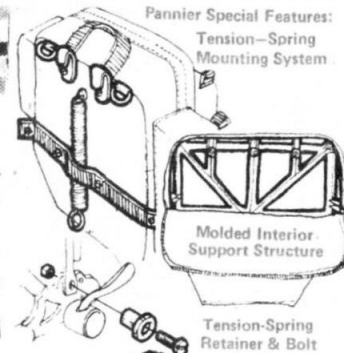


BW-A \$9.40

"Katy" Carrier Pak, quick-release Velcro fasteners attach to any rack. Nylon strap handle on back for easy carry. Perfect for those quick trips to the store—easily holds a half-gallon of milk and carton of eggs or a six-pack. Capacity: 346 cu.in.
Weight: 6 oz.



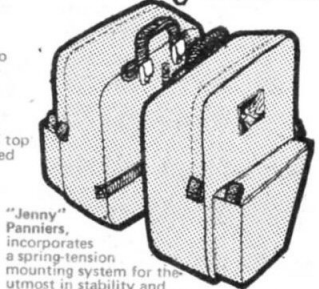
BW-K \$9.80



Pannier Special Features:
Tension-Spring Mounting System

Molded Interior Support Structure

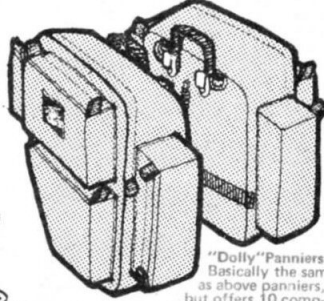
Tension-Spring Retainer & Bolt



"Jenny" Panniers, incorporates a spring-tension mounting system for the utmost in stability and maximum pedal and heel clearance. Internal molded Polypropylene support structure, stainless steel mounting hooks. 3-dimensional fully zippered main compartment for easy access. Large zippered pocket on the outside of each pack. Quick-snap fasteners which attach to both packs and web carry handles provide convenient off-bike travel. "D" rings for use with optional shoulder strap.

BW-J \$39.50

Capacity: 1655 cu.in.
Weight: 30 oz.



"Dolly" Panniers, Basically the same as above panniers, but offers 10 compartments in all: 4 outside zippered pockets on each pack, plus the main compartments featuring 3-dimensional openings for easy access. Capacity: 2125 cu.in.
Weight: 40 oz.

BW-D \$54.50

kirtland tour pak

Buy a Kirtland Bag and your entire order is shipped free.

Kirtland, a name synonymous with uncompromising quality, offers a full array of bicycle packs. From the single pouch seat bag to the ultimate G/T pannier, Kirtland can fill the needs of bikers the world over, to suit virtually any conceivable application.

The Kirtland/Tourpack quick mounting handlebar bag now combines with the NEW "Plastic" coated K/T Front Bag Support to again provide the best front bag system on the market.

The new stronger and completely re-designed carrier hook now permits the Elite Panniers to move in the vertical as well as the horizontal plane in relation to the rear carrier. Now you can custom fit your Elite Panniers for your particular carrier-bicycle combination.



Kirtland's K/T Elite pannier suspension system is unique: completely adjustable, super-strong and totally functional. This new suspension system allows panniers to be snapped on or off fast and easy. In contrast to other fast on-off systems, Kirtland panniers include twin springs on the back of each pack. These springs provide ample tension between pack and rear carrier to completely eliminate any flopping or needless play in the pannier system. These panniers won't flop, loosen, or slide forward. Once you adjust them to your particular application, they're set. For added durability, the twin spring system is riveted directly to the aluminum stiffener located inside the main compartment, instead of being sewn to the pack fabric. All Kirtland panniers are constructed with this new patented suspension system as standard equipment. If your bike has to carry more than a rider, you need Kirtland.

KT-STH-C

Handlebar Bag, large rear opening main compartment with vinyl map pocket on top. Large front pocket 2 side slot pockets & 2 rear pockets. Includes removable shoulder strap. 20 oz., 680 cu.in.

Specify: Navy Blue, Bright Yellow or Red. **\$48.00**

ENTIRE ORDER SHIPPED FREE



NEW RETAINER CLIPS

KT-LTH-C

Handlebar Bag, same as above but without the 2 rear pockets. 18 oz., 600 cu.in.

Specify: Navy Blue, Red or Bright Yellow **\$40.00**

ENTIRE ORDER SHIPPED FREE



NEW CLOSURE CLIPS

KT-100S-C

Century 100 Seat Bag, with full wraparound zipper.

Specify: Navy Blue, Red or Bright Yellow **\$11.00**

FREE SHIPPING DOES NOT APPLY



KT-200P-C

Century 200 Front or Rear Panniers, with shock cord suspension system.

Specify: Navy Blue, Red or Bright Yellow **\$31.50**

ENTIRE ORDER SHIPPED FREE



NEW OUTSIDE COMPARTMENT

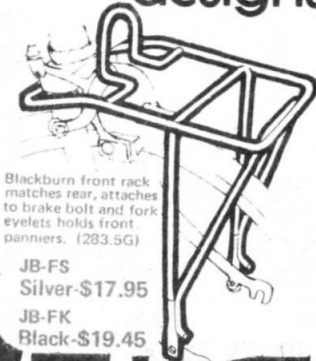
G/T

KT-GTP-C Rear Panniers, featuring the unique twin spring suspension system. Both panniers can be snapped together to form one piece of luggage, with leather handle. Large main compartments with envelope pockets inside, drawstring closures with zippered pockets and flaps. Also front, rear and side pockets. Low center of gravity. 46 oz., 2400+ cu.in.

Specify: Navy Blue, Red or Bright Yellow **\$85.00** ENTIRE ORDER SHIPPED FREE

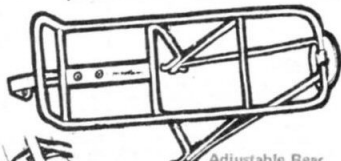


jim blackburn designs



Blackburn front rack matches rear, attaches to brake bolt and fork eyelets holds front panniers. (283.5G)

JB-FS Silver-\$17.95
JB-FK Black-\$19.45



Adjustable Rear Rack, stainless steel extender attaches to brake bolt and slides in or out to fit all frame sizes. Alloy, 397G.

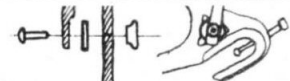
JB-RS \$17.95 Silver
JB-RK \$19.45 Black

Both front and rear
JB-FRS \$32.90 Silver
JB-FRK \$35.90 Black



Seat Stay Rear Rack
JB-SSS \$17.95 Silver
JB-SSK \$19.45 Black

JB-BE Braze-on Mounts \$1.59 pr. (Bottle Cage Mts.)



Blackburn dropout eyelets, adapts racing frames without eyelets for mounting rear carriers

JB-DE \$2.95 pr.



Seat Stay Clamps, vinyl coated, 3 seat stay sizes: 9/16" (531 frames under 23" most common), 5/8" (23" and larger 531; Columbus), 1/2" (rarer).
JB-SSC-Z \$1.00 pr.

Reflector, red, wide, angle, 2-5/8" dia.
JB-R 75¢



Both Front & Rear
JB-SSS \$32.90 Silver
JB-SSK \$35.90 Black



Order Toll Free

WEST CALL-1-800-321-2474
(Mississippi R.)
EAST CALL-1-800-321-2931

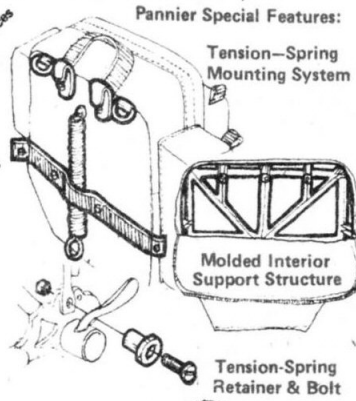
OHIO CALL-1-800-362-0200
INFORMATION CALL- (216) 542-2892

New carrier hooks... which allow you to adjust the Center of Gravity of the Panniers.

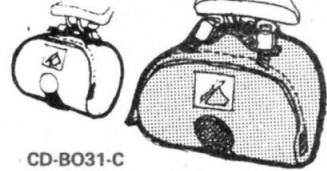
BUY \$25 OR MORE OF CANNONDALE AND THE ENTIRE ORDER IS SHIPPED FREE!!



Cannondale utilizes polyfoam lining in all of their packs. This gives the bags correct shape even when empty; provides even weight distribution; and serves to eliminate undue wear on the pack fabric. Cannondale's large bike packs feature light-weight rigid frames for increased stability and support. These are top quality packs that reflect the well-known Cannondale tradition of craftsmanship inherent in all of their products.



Introducing Cannondales new long tour line Manufactured with a heavier 8oz. waterproof nylon Cordura cloth with a double urethane coating for maximum weather resistance and durability. Red, green or blue are the colors available in this new fabric.



CD-B031-C
The new larger capacity pack has swivel straps to mount on seats with or without eyelets. Double zipper opens across top and down sides. Red reflector. Now in new 8 oz. Cordura fabric. Capacity - 358 cu. in., 7oz., 6lb. limit. Blue, Red or Silver \$10.75

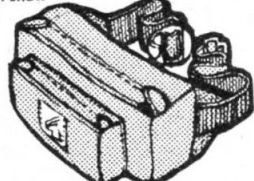


CD-B037-C
An all-new touring pack that offers welcome features. A nylon-coated exterior support frame is incorporated with a special shock-cord mounting system to provide total rigid security and stability. This pack features a polyfoam liner; five outside pockets - 2 on the sides, 1 up front, 1 on top & 1 on the back; detachable map case; detachable shoulder strap (optional). This pack is made of the new 8oz. nylon Cordura cloth with double urethane coat. Capacity: 750 cu.in., Weight: 15oz., Limit: 8 lbs. Blue, Red or Silver \$39.25

Shoulder Strap-CD-A003 \$1.85

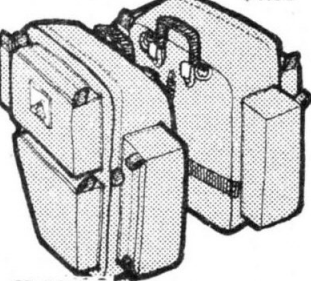


CD-C854-C pack is ideal for a full day of touring. Roomy enough for extra clothing, food, thermos, camera, etc., with an added outside pocket for small accessories (sunglasses, etc.) 6 oz. waterproof nylon oxford cloth w/polyfoam liner, wide polypropylene breathable web straps, wrap-around nylon zipper, tearproof design allows natural and uninterrupted arm movement. Capacity: 780 cu. in., weight: 12 oz. \$15.75 Blue or Yellow



CD-B0848 belt pack-just the ticket for a day's touring that doesn't require a full back-pack. Plenty of room for food, sunglasses, camera, etc. 2 compartments with nylon zippers and inside elastic bands for securing items. 8oz. waterproof nylon oxford pack cloth with leather reinforcements. Sewn-in foam liner, wide waistbelt w/quick release buckle, capacity: 300cu.in., weighs 8 oz. Orange \$13.75

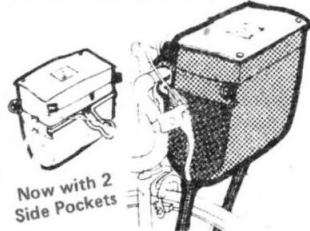
CD-B040-C
The Spring-Tension Mounting System incorporated in this pannier allows stability and safe pedal and heel clearance. It includes a host of Cannondale features: molded liner, stainless steel mounting hooks, YKK nylon zippers and full rain flaps, 3-dimensional fully zippered opening for ease of access, internal aluminum frame, and a large outside zippered pocket on each pack. Web carry handles are provided for easy off-bike travel. Constructed of 6 oz. waterproof nylon oxford fabric. Now, larger size - both snap together and has "D" rings. Capacity: 1655 cu. in., weights: 30 oz. Red or Blue \$44.75



CD-B041-C
A new quick-mounting pannier with steel spring tension mounting. The utmost in stability with maximum pedal and heel clearance. This pannier offers 8 compartments in all: four outside zippered pockets on each pack, along with main compartments that feature 3-dimensional openings for easy access. Other features include a molded liner, stainless steel mounting hooks, a strong internal aluminum frame, YKK nylon zippers and full rain flaps. The quick-mount design provides total off-bike convenience also, with quick-snap fasteners that attach both packs and web handles for easy carrying. These packs are constructed of the new 8oz. nylon oxford Cordura fabric. Capacity 2125 cu. in., weights: 40 oz; limit 35 lbs. Blue, Red or Silver \$64.75



CD-B021-C
lightweight materials, quick release latches polylined interior and convenient carrying handle, capacity 232 cu. in., 5oz., 3lb. limit. Red or Blue \$7.75



CD-B027-C nylon touring bag. A nylon coated exterior support frame and shock-cord mounting system provide total stability. Features polyfoam liner; 2 pockets, detachable map case. Capacity: 525 cu. in., 10 oz., 8 lb. limit. Red or Blue \$24.25
Optional shoulder strap \$1.85



Child Carrier, the safest, easiest, most advanced accessory seat available, 1 or 2 youngsters (up to 80 lbs.) ride low, strapped in by a seat belt. Made of lightweight, high-impact material. Used in combination with the below bugger. Easily detaches for bugger only use. Weight: 7 lbs. Black.



CD-BC18 \$39.25
Bugger, carries up to 80 lbs. of gear. Adds virtually no weight to the bike. Attaches quickly to seatpost with a flexible hitch. Tubular steel construction, 24" tires. Nylon oxford waterproof pack cloth is laced to the frame to form the open sling. 22 lbs. Colors: Red, Blue or Yellow.

CD-BO02-C \$144.75

S/T

KT-STP-C Rear Panniers, basically the same pannier as GT, with zippered main compartments, no flaps, 38 oz., 2000 cu.in. Specify: Navy Blue, Red or Bright Yellow \$71.00* ENTIRE ORDER SHIPPED FREE

KT-100U-C Century Utility Bag, pocket inside keeps tire away from other items. Unique 2-fastener system keeps the bag secure under the seat. 2 oz. Specify: Navy Blue, Red or Bright Yellow \$7.50 FREE SHIPPING DOES NOT APPLY

KRYPTONITE

carrier
Slotted front fits over C.P. brakes. Non-slip mounting system, deep vinyl coating elastic cord (2) Hold-down system, ball carrying ring, lightweight alum. Includes light alloy adjustable T Support. KR-R-C \$5.95

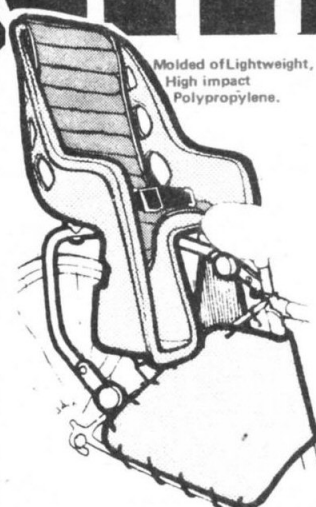
PLETSCHER

Pletscher Rack-Narrower, lighter model, with double spring clamps. PL-R \$5.95
Now with adjustable rack support

NEW RHODE GEAR

Rhode Rack, designed for serious cycling. Professional anodized black and silver finish. Very lightweight at only 410G. Quick-release mount and dismount. Installs in 2 minutes. The rack is fully adjustable with a tough DuPont Minlon Shelf which prevents "Push Through" and doubles as a rear fender.

AVAILABLE IN MARCH



Molded of Lightweight,
High impact
Polypropylene.

Troxel

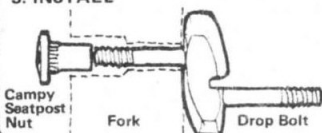
HIGHBACK CHILD CARRIER

More protection. The child sits in - not on the contoured bucket seat, with a high back and conformed foot and leg area. A large spoke guard, extra strong seat belt and rear reflector are added safeguards. The plated tubular steel frame centers the weight over rear axle for better balance. Attaches easily to any 26 or 27 inch bike and holds a child up to 40 lbs. Vented back & fitted pad make softer, cooler ride. Easy on - easy off with quick release knobs. Attaches to stays. Dropout eyelets are not required. Beige.

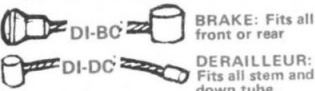
TR-CC \$21.95

To make a FRONT DROP BOLT
YOU NEED: Campy 8mm Seatpost Bolt &
REAR Drop Bolt to fit your brakes.

1. File Flats on Seat Post Bolt (female end) to fit 10mm wrench.
2. Drill Rear of Fork to Fit
3. INSTALL



derailleur & brake CABLES



Universal Cables, (Brake has two different type ends. Cut off end not needed), 50¢ each

SB-TC-B Brake or SB-TC-D Derailleur Tandem Cables, 110", \$2.10

TO-CEC Clear Plastic End Caps, 4 for 60¢

TO-NEB End Buttons; 50¢ Pair



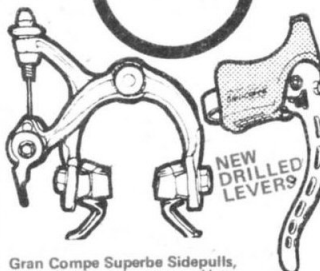
vinyl cover Derlin tubing
wound Conduit

Elephant Brand Housing, has Derlin tubing inside yet works with all standard cable (incl. Campy) and end buttons. Minimum friction with no lubricant. Superlight.

Specify: Black, White, Red, Blue, Silver, Green.

EL-F 35¢ Per Foot

DIA-COMPE



Gran Compe Superbe Sidepulls, finest finish we have seen. Hex adjusted, cone-shaped center bolt. Now with NEW drilled levers with hoods, Black brake blocks.

DC-GCS \$52.80



PROBABLY THE FINEST CENTERPULL BRAKES MADE IN THE WORLD.

Gran Compe 450 Centerpull Brakeset, a new design in brakes which features sealed ball bearings in the pivots for extra-smooth caliper action. A superior new pad compound provides improved stopping power in any conditions, plus the redesigned shoe assembly permits infinite adjustments. The tire guides have also been redesigned. Allen bolt adjustments (wrench included). Hand-buffed finish. Comes with beautifully-drilled levers with hoods.

DC-G450 \$59.95

DC-GPS Gran Compe Pad and Shoe Assembly, Red, Set of 4/\$5.25

DC-H Gran Compe Hoods, gum rubber, with adj. covers. \$3.25 pair

DC-DL Gran Compe Levers, drilled, \$9.25 ea.

DC-TG Gran Compe Tire Guides; vinyl-coated aluminum, fits most brakes. 4/\$2.50

DC-DB Drop Bolts, rear only, \$8.25



500G Sidepulls, silver anodized, drilled levers, hoods included. DC-500G \$23.75

730 x 810 - DC-730G \$24.75

DC-DPS Dia-Compe Pad and Shoe Assembly, Black, Set of 4/\$3.25

DC-AC Rubber Adjustor Covers, Black, 60¢ pr.



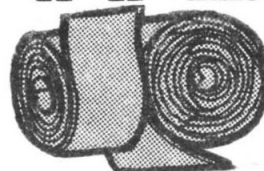
Works Over
Bar-Con Housing

RHODE GEAR

"HANDLEBAR HIDE"
Good-looking and a functional grip. Made of genuine leather. It comes in two, one-piece sections, both of which wet wrap around the handlebar with a tough nylon stitching. The result is a warm, comfortable grip that ages to a beautiful patina. Natural.

RG-HBH \$11.80

THE TAPE



DH-C Suede Tape, cushioned, non-slip, washable. One set includes 2 rolls (enough to do complete bar). Now in 10 colors.

Specify: Black, Natural, Red, Gold, White, Olive Green, Dark Blue, Walnut, Washed Denim.

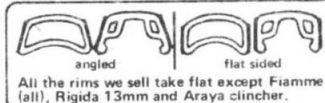
\$1.50 per Set; 3 Sets for \$3.95

MATHAUSER brake shoes



MA-BS-M Revolutionary, light-weight Brake Shoes feature optimum stopping power in even the wettest weather. Pads are new, long life compound, curved for 100% rim contact. Shoes are finned aluminum for fast heat dissipation and smart appearance. Specify: Flat or Angled Rims or for Mafac Brakes. \$11.95 Set

DC-TG Tire Guides, Set of 4/\$2.50



All the rims we sell take flat except Fiamme (all), Rigida 13mm and Araya clincher.

MA-RP-M Mathauser Replacement Pads, for stock shoes, made of same material as above. Specify: Campy, Zeus, CLB, Dura-Ace, Dia-Compe, Mafac, Gran Compe, Weinmann or Universal. Set of 4/\$7.75



Brake Cable Clamp, plastic, pressure-fitting. Clear.

HOLDS TWO CABLES STEADY

RG-CC 50¢ Each

3rd hand brake tool

Adjusting Tool, places tension on brake arms, holding pads to rims while you adjust cable slack. Essential for proper brake work.

DC-3H 95¢



Cyclegrip Top Grain Leather Tape now the luxury of genuine leather for soft comfort and rich appearance. Tapered edge for smooth installation.



Specify: Black or Natural Tan

CG-P-C Perforated \$6.50

CG-S-C Sewn \$6.50



Specify: Black, Red, Blue,

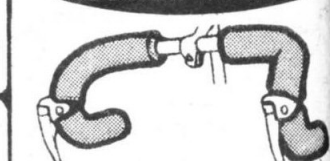
VE-T-C \$1.75 SET



Bailey III Cushion Grip Tape, a tapered edge, soft rubber. Very comfortable. Sun, rain and cold resistant. Enough to do bar.

Specify: Black, White or Red

BY-C \$2.75 SET



Mexy Set/Grab-On Handlebar Padding, extremely comfortable, reduces road vibration, non-slip grip, absorbs sweat, insulates against cold, washable.

GO-M \$6.55

Use P-51 to install (removes old adhesive, then slides and sticks to Grab On)



BIKEWARE SEAT COVER
K-Koted nylon with elasticized opening. Protect your leather saddles from the elements and keep your rear end dry. Universal sizing. Yellow.

BW-SC \$1.95



VELOX

Velox rubber plugs with screw type expander. Black pr. VE-RB 75¢



plugs VE-PB-C 504

Expander type
Specify: Black,
White, Red, Blue



**NEW
DELUXE
MODEL**

BW-KKHC

3.95



BW-HC \$2.35



Vinyl Letters & Numbers, pressure-sensitive, super-stick letters and numbers. Personalize your helmet or practically anything else. 1/2" high. Colors: Black, White, Silver, Gold. Available in 2 Styles: Gothic or Helvetica (use Helvetica if space is a problem & a narrower letter is necessary)

Gothic 540 Caps & nos., 38 misc. signs.
Helvetica 588 Caps & nos., 252 misc. signs.

Gothic EZ-G-G
ABCD1234

Helvetica EZ-H-G
ABCD1234



NOTE:
Mirror comes
with a peel-off
protective cover.



**BELL
HELMETS**

The Bicycle Helmet. A real innovation in both comfort and protection for the bicycle racer and tourist.

Designed by Bell Helmets, a leading manufacturer of protective head gear for motorsports, the Bicycle Helmet meets four critically important design parameters: optimum ventilation and heat dissipation for rider comfort; minimal weight; unobstructed visibility; and exceptional rider protection.

Cross section shows Lexan outer shell, polystyrene beaded liner, sizing/comfort pads.



The material is Lexan. Light enough for the competition rider, yet strong enough in greater thickness to be used by police for protection against bullets.

Arrows show air-cooling flow through helmet.



Outside, unique scoops front and rear duct-cooling fresh air to your head and then allow it to escape. Only Bell has it and it works. Because we tested it in the wind tunnel and proved it on the track. Movement of air through the vent system, coupled with evaporation of moisture (accumulated naturally or added to the special Sizing/Comfort Pads) provides a particularly effective means of cooling.

In addition to the scoops, The Bicycle Helmet achieves a very distinctive look through the application of highly reflective red stripes in a "Y" configuration at the front. Developed in cooperation with 3M, the stripes compliment the white color of The Bicycle Helmet.

Inside the unique Sizing/Comfort Pads provided in varying thicknesses let you custom tailor the perfect fit. And for ease of replacement, each of the nine Sizing Pads in the Bicycle Helmet are attached to the polystyrene inner liner with Velcro fasteners.

BH-Z \$32.50

Each Helmet is serial-numbered for the owner's protection.



Measure as shown.
Inches Helmets Size Pad Size
21 5/8 6 7/8 5/8
22 3/4 7 1/8 1/2
23 3/4 7 1/4 3/4
24 1/2 7 3/8 5/8
25 1/2 7 1/2 1/2
26 3/4 7 5/8 3/8
28 1/4 7 3/4 1/4

FREE SHIPPING

Order by hat size (You may use the chart for assistance)

After prolonged use and cleaning, you may want a fresh kit of sizing/comfort pads. Each package comes with three elongated pads and six circular pads in 1/8, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 1/4, 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Light alloy components for a limited budget.

SHIMANO 600



EX

600 EX Ensemble, incl. Freehub Set, 600 EX Front/Rear Derailleurs, Shift Levers, 600 EX Headset, 600 EX Crankset, 600 Sidepull Brakes, **SH-6XE \$125.00**

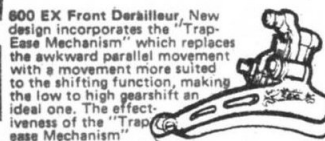
The only substitution is replacing Freehub w/ 600 Sm. Fl. Hubs and Uniglide Freehub of your choice.



600 EX Rear Derailleur, Equipped with the unique "Hatch-Plate Mechanism" making dismantling the derailleur much easier. The derailleur can be removed in one smooth operation without touching the chain. The "Hatch-Plate Mechanism" rear derailleur is suited for any multi-speed bicycle, especially one equipped w/ a Uni-Balance Freehub. 191G 28T capacity.

SH-XRD \$10.80

600 EX GS Rear Derailleur, **SH-XGS \$10.80**



600 EX Front Derailleur, New design incorporates the "Trap-Ease Mechanism" which replaces the awkward parallel movement with a movement more suited to the shifting function, making the low to high gearshift an ideal one. The effectiveness of the "Trap-Ease Mechanism" allows less force to be used when shifting but provides the same amount of travel as with a conventional front derailleur. 107G

SH-XFT \$7.50

600 EX Levers, Light alloy, downtube type. 136G

SH-XL \$7.80



600 EX Headset, the "Sealed Mechanism" although unseen is vitally important for upgrading the bicycle's efficiency. Head parts (and rotating parts of the Freehub) are especially in need of protection from water & dirt. The airtightness improvement of the "Sealed Mechanism" protects all rotating parts.

Aluminum body. 142.7G **SH-XH \$14.50**

DURA-ACE EX



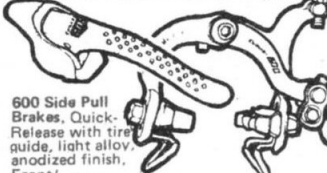
Dura-Ace EX Sidepull Brakes, light alloy, anodized finish. Quick-release and tire guide. Pivot bolt with lubricating channel. Hexagon release. 330G. Hooded levers w/ drilled out finish, 1-step cable attachment mechanism. 206G each.

DA-XSB-Z \$72.75

SHORT OR NORMAL REACH

600 Small Flange Hubs, Quick-Release, Alloy, 36°. Looks just like Dura-Ace. 587G **SH-SFH \$24.80**

600 Large Flange Hubs, 631G **SH-LFH \$25.80**



600 Side Pull Brakes, Quick-Release with tire guide, light alloy, anodized finish. Front/ **SH-SPB \$30.80**

CHAINRINGS-

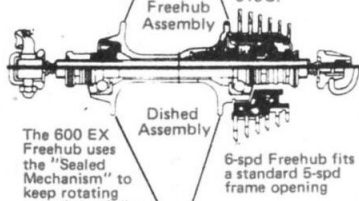
39, 40, 42, 44T - \$6.80 ea.
46, 48, 49, 50, 52, 54T - \$7.90 ea.



600 EX Crankset, Features the new "W Cut" teeth for smoother gear changing. By shortening the length of two sprocket teeth behind the crank arm, and two teeth located directly opposite (these teeth sustain the least tension while cycling), it's no longer necessary for the chain to be lifted up over the sprocket teeth and then be dropped to a lower gear, which on a conventional front chainwheel causes great stress and wear. Requires only a 6mm Allen key to remove the front crank arm. The crank arm has been set back near where it attaches to the chainwheel, eliminating any likelihood of the ankle striking the crank arm. 39x52T, English, 68mm. 937G **SH-XC \$35.80**

SH-XFH

Freehub Set, Combining the freehub and hub into one unit, results in a stronger, smaller, lighter, and more economical component. The Freehub uses the new "Uni-Balance Mechanism" which positions the hub nearly centered with the rim, unlike a conventional dish assembly on a multi-speed rear wheel where the hub is positioned to the left of center in order to balance the width of the freehub. This conventional position results in spoke strain, vibrations and a certain level of expertise in maintenance. The "Uni-Balance Mechanism" solves these problems.



The 600 EX Freehub uses the "Sealed Mechanism" to keep rotating parts free of dirt, and water.

Freehub Assembly

Dished Assembly

6-spd Freehub fits a standard 5-spd frame opening

The 600 EX Freehub incorporates the same Cassette Sprocket Assembly as explained in the Dura-Ace EX Freehub.

Sprockets, Screw-on, 12, 13, 14T - \$2.60 ea.

Sprockets, Slide-on, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26T - \$2.25 ea.

SPACERS - 40# each

STANDARD 6 spd. 13, 15, 17, 20, 24, 28T. **SH-XFH \$29.75**

ANY CUSTOM COMBINATION, 12 - 28T, \$4.00 extra



CHAINRINGS \$14.80 ea.
42, 44, 50, 52T

Dura-Ace EX Crankset, A new design has removed the old alloy inner bridge, and features a new arch and outer groove. Additional strength is derived from the use of 75-S Duralumin, the hardest for rigidity in chainrings 42 x 52T. New chainrings fit early model crank arms. 752.8G, English, French, or Italian. **DA-XC \$83.25**



The Lightest and Best Quality Components From Shimano

Dura-Ace EX Front Derailleur, New design incorporating the "Trap-Ease Mechanism" for more efficient gear changing. Cage plates are steel for less friction against chain. Alloy body and hinge plate. All bolts are on the right side, lighter weight than previous model. Adjust with 6mm Allen key. **DA-XFD \$17.95**



Dura-Ace EX Rear Derailleur, Redesigned into a smaller size, all alloy, 174G, precision mechanism, 24T Capacity. Uses special "Synchro-Line Mechanism" for cable control. Keeps the adjusting barrel and cable fixing pin aligned & the inner cable straight while shifting. Adjusts with 6mm Allen key. 175G **DA-XRD \$27.80**

Dura-Ace Bar-end controls w/cables, 343G S.S. Housing, fulcrum stay clips, **DA-BC \$18.80**

6mm allen key for bar end cone **FE-6 50¢**



Dura-Ace EX Double Downtube Levers, (75G) w/cables stay clip housing, **DA-DT \$13.95**

Dura-Ace EX Headset, incorporates the "Sealed Mechanism" innovation to protect its rotating parts from water and dirt particles. Aluminum body. 114G, English, French or Ital. **DA-XH \$28.95**



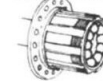
Dura-Ace EX Stem, 22.2mm diameter. Specify: 70, 80, 90, 110, 120mm.

DA-XST-Z \$21.80

Dura-Ace EX Seatpost, 26.0, 26.4, 26.6, 26.8, 27.0, 27.2

DA-XSP-Z \$19.80

DA-XFH-Z Dura-Ace Freehub, incorporates a cassette sprocket assembly. In conventional freehub wheels where both threaded & spline-type (unthreaded) sprockets were used, the desired combination could only be used if quantities of both types were available. The EX Series cassette assembly uses a spline-type system where only a threaded high gear is used to hold the assembly together. This system allows all kinds of gear combinations between second & low gears. Overall weight & size reductions have been made & durability improved. This Freehub also incorporates the "Uni-Balance Mechanism" as explained in the 600 EX Series Freehub.



SPROCKETS Gold, Screw-on, 11, 12T - \$4.50 ea. 13, 14T - \$3.25 ea.

Gold, Slide-on, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26T - \$2.25 ea.

Any 5 or 6spd DA-XFH-Z Combination - **\$75.00**

SPACERS - 40# each



DA-OS Rear offset bolt for touring frames, \$8.75

DA-BC Dura-Ace Brake Cable Clips (3) \$2.75 set

Shimano's New Uniglide Free-wheel, Silver, with staggered teeth for use with the Uniglide Chain. 13-17, 13-21, 13-24, 13-28 **SH-FW-Z \$9.25**



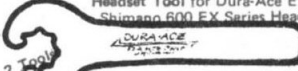
Use Dura-Ace Remover. **DA-FWR \$3.25**



Shimano's new Uniglide chain. Special formed gold side plates for faster easier shifting. 600 series, for touring **SH-C 1/2 x 3/32 x 120 L \$6.75**

Link Lock **SH-LL \$2.90**

Headset Tool for Dura-Ace EX and Shimano 600 EX Series Head Parts



DA-XHT \$14.00 Set.

BW-DA-Z DURA-ACE Page 26

T-SHIRT



NEW Dura-Ace EX "DD" Crankset, same as the Dura-Ace EX Crankset but with an aerodynamically streamlined chainwheel to complement the "DD" Pedal. The crank arms are offset for added strength and also less thick. NEW "DD" Dura-Drive Pedal, aerodynamically efficient in minimizing air resistance. Weighs less. The design utilizes full foot power, thus, Improved "Ankling", increasing pedaling efficiency. Lower Center-of-Gravity & Increased Road Clearance increases bicycle stability and rider control. Improved Shoe Grip through a specially angled plate. Sealed Mechanisms keep rotating parts free of dirt and water for smoother performance. The unique Toe Clip is Adjustable Forward, Backward and Laterally up to 10mm. Toe Strap, of a special No-Fray material, has a Velcro Fastening System. Light alloy body and toe clip. Cr-Mo Steel cap and cone. Weight: 173G. (Including clip and strap).

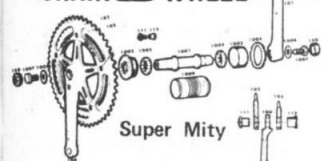
DA-XDDC \$135.00

Crankset and Pedals Complete



INCLUDES FRONT HUB

Sugino CHAIN WHEEL



Super Mity

Our Sugino cranks come complete: Each set includes both right and left crank arms (170mm length) with English pedal threads. Our sets come with the chainring(s) of your choice already attached and properly tightened so you won't have to fool with them.

You can also choose between either 68 (Eng, Fr) or 70mm (Ital) bottom bracket spindles. Our sets include ball bearing retainers instead of loose bearings, which make installation and removal neat and simple. Look at what else you get: spindle bolts and washers, right-hand fixed cup, left-hand adjustable cup and lock ring, a plastic bottom bracket protective dust sleeve that helps keep dirt out of the B.B. assembly, crank arm dust caps, a spanner wrench and hex wrench for removing or installing chainring fixing bolts (except Maxy 1, 2). And keep in mind that every part included in these cranks is genuine Sugino—No cheap substitutes. In this catalog we also supply our own illustrated and detailed installation instructions that take the guesswork and grief out of proper crankset assembly.

Note: Sugino crank arm extractor and bottom bracket tools are also available.

Mity Cranks available w/o B.B.—minus \$6.00



super mity compe

Mity Compe, interchangeable with Campy. 170mm crank arms, relieved spider. Specify: 42/52T (standard) or your choice, Eng., Fr., or Italian Cups; 68 or 70mm Axle. BB Protective Sleeve and Chainwheel Tools included. SU-MCD-J \$59.00

Chainwheel Changes, up to 54T - \$3.00 extra

Chainwheel Changes, 55-64T - \$6.00 extra

MC Silver Chainwheels, Specify: SU-MCD-T 42-52T \$8.45; 53-56T \$9.95; 57-64T \$12.95

Chainwheel Special-Silver, 52T - \$4.00

SU-MCD-3T Triple Option, for above, select three rings and add \$15.75

ULTRA-6

Ultra-6 Freewheels - The distance between sprockets is narrower when compared to an ordinary 6-spd. freewheel, but the Ultra-6 will fit a normal 5-spd. hub because the overall width is almost the same as a normal 5-spd. freewheel.

ULTRA-6 WINNER

English

13, 14, 15, 16, 17, 19

13 x 22

13, 15, 17, 19, 21, 24

13, 15, 17, 20, 23, 26

13, 15, 17, 20, 24, 28

13, 15, 17, 20, 26, 32

ST-U6-T \$20.25

ULTRA-7 FREEWHEELS

Silver, English

12 x 19

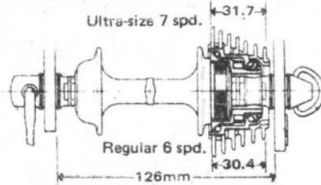
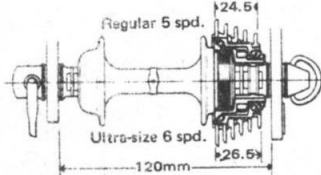
12 x 22

12 x 24

12 x 26

12 x 28

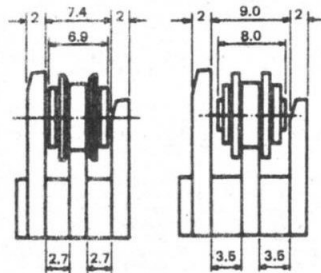
ST-U7-T \$22.25



NEW

Ultra-6 Chain- $\frac{1}{2}$ "x $\frac{3}{32}$ " with black roller link plates and silver pin link plates. Ultra-6 Chain is 1mm smaller in outer width than ordinary chains, but is the same in inner width. Therefore, the Ultra-6 Chain can be used with any ordinary 5 or 6 speed freewheel.

ST-UC \$6.75



ULTRA-6 Multiple Freewheel & Chain Width

ORDINARY Multiple Freewheel & Chain Width

SUNTOUR FREEWHEEL REMOVER

ST-FR

\$1.35

WINNER ALLOY FREEWHEEL

5-spd., English

13 x 17

13 x 19

13 x 21

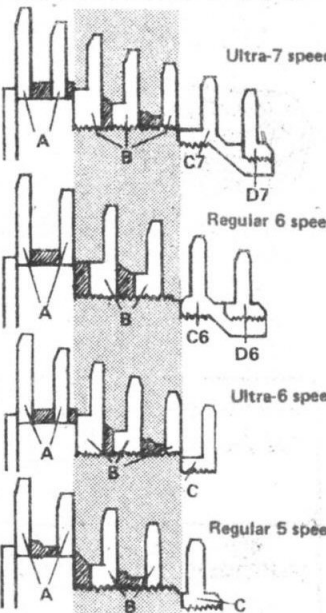
13 x 24

ST-WA-T

\$19.75

NEW WINNER SPROCKETS

New Winner 5 & 6 speeds and all Ultra 6 & 7 speeds use the same body and most cogs are interchangeable - the difference is in the spacer kits and the number of cogs used.



ST-US-T

Slide-on "A"

16, 17, 18, 19

20, 21, 22, 23

24, 26, 28

30, 32

\$3.25

ST-US-T

Screw-on "B"

14, 15, 16, 17

18, 19, 20

\$3.10

ST-US-T

Screw-on "C6 or C7"

13, 14, 15

\$3.00

ST-US-T

Screw-on "D6 or D7"

12, 13

\$3.00

ST-UB-T New Winner Bodies, Eng., or Fr. \$11.00 ea.

ST-RFS Regular Spacer Kit \$2.60

ST-UFS Ultra Spacer Kit \$2.70

NEW WINNER -5spd FREEWHEEL



ST-NW-T

Winner - 5, precision steel all silver

English

13x17 - 13, 14, 15, 16, 17

13x19 - 13, 14, 15, 17, 19

13x21 - 13, 15, 17, 19, 21

13x24 - 13, 15, 18, 21, 24

13x26 - 13, 16, 19, 23, 26

13x28 - 13, 16, 19, 23, 28

13x32 - 13, 17, 20, 26, 32

\$16.25

ST-FR

Remover

for all

Suntour

\$1.25

Track Sprockets (single), for $\frac{1}{2}$ " x $\frac{1}{8}$ " chain, available from 13 to 19T.

ST-TS-T \$4.50 ea.



PRO COMPE GOLD FREEWHEEL

Stock Sizes at left, English Only

ST-PC-T \$8.80

14x18-14, 15, 16, 17, 18

14x21-14, 15, 17, 19, 21

14x24-14, 16, 18, 21, 24

14x26-14, 16, 19, 22, 26

14x28-14, 17, 20, 24, 28

14x30-14, 18, 22, 26, 30

14x32-14, 17, 21, 26, 32

14x34-14, 18, 22, 27, 34

Any Combination

14 to 34T., Eng. or French

ST-PCC-T \$9.95

NOW - Tandem Freewheels, for the extra strength a tandem bicycle requires. English listed at right.

ST-TF-T \$10.50

PRO COMPE GOLD SPROCKETS

ST-PCS-T

Screw On "A"

14 - 18 \$1.80

Slide On "B"

16-18 \$1.70

19-24 \$1.75

25-34 \$2.60

No 29, 31, 33

ST-PCB-T

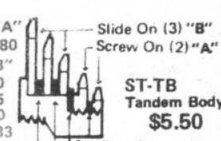
Body - \$5.50

ST-TB Tandem Body, Eng. only, \$6.80

SPACERS: 1ST Gear ST-PC1, 30¢ ea.

2ND Gear ST-PC2, 30¢ ea.

Low Gear, 2 required ST-PCSL, 30¢ ea.



ST-TB Tandem Body

\$5.50

1st Gear Spacer (1)

2nd Gear (2)

Low Gear (2)

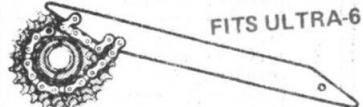
BIKE WARE SPROCKET TOOL

BW-ST

\$3.25 ea.

BW-2ST

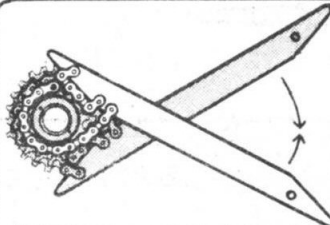
\$5.95 pr.



FITS ULTRA-6

Change or assemble your own sprockets with our all-new sprocket tool. Now factory-machined, the sprocket tool comes complete with easy-to-follow instructions; cut-away illustrations showing the different types of design and assembly; and a really helpful sprocket tooth-counting chart that lets you determine tooth count at a glance!

The entire sprocket tool kit comes poly-bagged and will quickly become one of the most valuable and indispensable tools in your collection. Use one if a sprocket vice is available, or use 2 without a vice or right on the wheel itself!



Using the new sprocket tool, Freewheel sprockets may be removed on the spot without having to remove the freewheel assembly from the wheel. Using two sprocket tools, no vice is needed - one person can easily perform the entire operation.

To remove the first (outside) sprocket: place one tool to the left side of the Freewheel assembly - with chain edge against the fourth sprocket down, wrap the chain counterclockwise around the teeth.

Place the other tool with chain edge against the right side of the first outside sprocket. Wrap the chain clockwise around the sprocket teeth.

Note: It's best to crisscross the tools, so that they work against each other. (see illustration)

In this way, by pulling the two tools together, the assembly is held steady while the outer sprocket is forced to unthread. Repeat the two steps for the rest of the threaded sprockets. Any slotted sprockets will pull off of the body. That's all there is to it!

Order Toll Free

WEST CALL - 1-800-321-2474

(Mississippi R.)

EAST CALL - 1-800-321-2931

OHIO CALL - 1-800-362-0200

INFORMATION CALL - (216) 542-2892

SunTour

Suntour front and rear derailleurs are engineered with slant pantograph mechanism enabling the pulleys or cage to shift diagonally at the same angle as the sprockets assuring more stable driving and easier, smoother shifting. Detailed mounting instructions included w/Cyclone. Rear touring derailleurs also feature quick cage for chain removable without disassembly.



SUNTOUR V SERIES-Light alloy, slant pantograph components at a budget price.

VX Rear Derailleur, 295G., cable mount, spoke protector cage, lighter, smoother, 30T capacity, with hanger.
ST-VXR \$10.80



VX GT Rear Derailleur, 34T capacity, 275G., w/hanger.
ST-VXGT \$11.80



VX Front Derailleur-Light alloy body, steel cage, parallelogram low normal, 15T capacity. 105G.
ST-VXF \$6.95



ST-CRD
Cyclone rear derailleur, (175 gr) racing model with 24T, 6 speed capacity. Include hanger and Allen tool; silver \$19.80

Cyclone Front Adaptor, for 36T and below.
ST-FA \$2.00



ST-GTR
Cyclone GT rear derailleur (188 gr) touring model with 32T (34T on Suntour hanger) 6 speed capacity; silver \$21.90



ST-CDT
Cyclone Down-tube Control Levers, 112G., super light-weight and features special hidden bolt clamp design (like brake levers), finger adjustable tension control. Complete with cables and stainless steel housing. Silver \$10.80

SUPERBE
Racing Equipment from SUNTOUR

Suntour made these components for the select few who would appreciate this testament to engineering. The caliber of cyclists who would feel the subtle yet distinct advantages accuracy makes. Especially in competition. Each component is ground and polished to perfection. To the degree of actually being friction-free, its superior strength is derived from the layered construction. A process so sophisticated and exact, production of Superbe components must be limited to less than 2,000 units monthly.



Superbe rear derailleur, 27T capacity
ST-SRD \$24.40



Superbe front derailleur, **ST-SFD \$15.90**

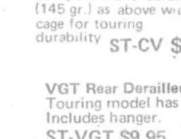


Great for shop use
SB-CY \$3.10

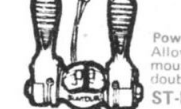
VX Down Tube Shift Levers, light alloy lever handle, stainless steel lever clamp. Weight: 80G.
ST-VXDT \$6.80



Compe V front derailleur (145 gr) as above with steel cage for touring durability
ST-CV \$5.25



VGT Rear Derailleur, 295G., Touring model has 36T capacity Includes hanger.
ST-VGT \$9.95



Power Double Lever-M, Alloy ratchet, downtube mount, w/cables, includes double cable guide, 204G
ST-DDLM \$6.80



H-Bar Control Set, 351G Alloy w/cables, housings and clip, Pair
ST-BC \$14.80



FE-6 6mm Allen Key for Bar-Con, \$5.00



Chainstay Clip, ST-1080G w/guard, 85# ST-1080 w/out guard, 75#
ST-1135 Double Cable Clip for downtube, 23G 85#



Suntour Cable Cutter and Crimper, **ST-CCC \$10.80**



ST-BIW Suntour Braided Inner Wire for H-Bar Controls, front and rear, Set, \$2.70, \$1.40 Ea.



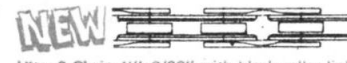
DI-DC Standard Length Inner Wire fits all downtube levers, \$5.00 Each



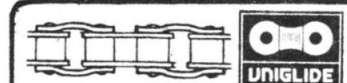
VX Hubs, forged light alloy, quick-release skewers. English, 36H. Weight: 640G. (lg. fl. pr.), 595G. (sm. fl. pr.)
Small Flange, ST-VXSH \$18.90 pr.
Large Flange, ST-VXLH \$18.90 pr.



VX Road Pedals, forged light alloy body, steel spindle. Quilt type. English. Weight: 390G. pr. Silver: **ST-VXP \$15.80 pr.**



NEW Ultra-6 Chain- 1/2"x3/32" with black roller link plates and silver pin link plates. Ultra-6 Chain is 1mm smaller in outer width than ordinary chains, but is the same in inner width. Therefore, The Ultra-6 Chain can be used with any ordinary 5 or 6 speed freewheel.
ST-UC \$6.75



Shimano's new Uniglide chain: Special formed gold side plates for faster easier shifting. 1/2 x 3/32 x 116L **SH-UC \$7.25**



NEW Link Lock, quick, easy assembly or disassembly of chain without the need of tools.
Not for use on Ultra-6 Chain. **SH-LL \$2.90**

Regina (gold) chains

Regina Extra utilize beveled rivets that minimize friction and wear to derailleurs caused by conventional protruding rivets. 1/2"x3/32 w/plated side links
RA-OC \$7.95

Record Super Corsa Oro - drilled out, thinner side plates for lighter weight.
RA-SC \$18.50

Regina Corsa Black Chain, 1/2 x 3/32, RA-CBC \$5.90

Regina Track Chain, 1/2 x 1/8, RA-TC \$5.90

chain length

Determining proper chain length: The easiest and least complex method in determining chain length is to simply shift the chain so it grips the largest freewheel (rear) sprocket and the largest front chain-wheel at the same time; then adjust the chain so the derailleur tension pulleys can be pulled to a 45° angle with the ground (with front and rear wheels on ground - see illustration)
Note: To easily shorten or lengthen the chain use a chain rivet remover

gearing for efficiency

For optimum performance you should obtain a range of final drive ratios with as little overlap as possible. In other words, if you have a ten speed bike, you should have 10 different gear ratios available. All too often, bikers choose freewheel assemblies at random, without researching to find out what effects this assembly will provide. With the aid of the Gearing Chart, you will be able to intelligently match the proper sequence of sprocket teeth to chainwheels. Why waste shifting to the next gear just to find out that there's no appreciable difference in peddling effort? Remember, individual preference plays an important part in choosing gear sizes. Racers generally like a close range of gears, while tourists prefer a wide range. Look at the chart - say you have a 42/52 tooth chainwheel setup. Find these

two numbers at the top of the chart. Now suppose you already have a 14, 17, 21, 26, 32 freewheel assembly. Find these sizes in the extreme left vertical column. Simply cross-reference the chainwheel sizes and the sprocket sizes. If any ratios under the 42-tooth chainwheel column match or come very close to those under the 52-tooth chainwheel column, then you are definitely wasting available gears.

Let's use the combination we just mentioned as an example. Under the 42-tooth column, we find gear ratios of 81.0, 66.7, 54.0, 43.6, and 35.4. Under the 52-tooth column, we have 100.3, 82.6, 66.9, 54.0 and 43.9. There is an obvious amount of overlap here. Critical tailoring can be accomplished by changing sprockets. Example: discard the 17, 21, and 32-tooth sprockets, replacing them with 16, 19, and 34-tooth cogs. This layout will provide 10 useable gears. Another less exacting method would be to change one of the chainwheels. A 44-tooth chainwheel in place of the 42-tooth chainwheel for example, would provide a full 10 speeds. (We recommend changing cogs as a more precise and generally more economical method of gearing modification).

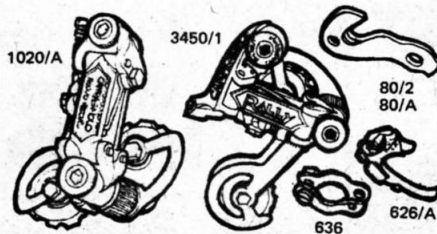
Rear Sprocket Teeth	Number of chainwheel teeth (Front)																			
	30	32	34	36	38	40	42	44	45	46	47	48	49	50	52	53	54	55	56	
13	62.3	66.4	70.6	74.7	78.9	83.1	87.2	91.4	93.4	95.5	97.6	99.7	101.8	103.9	106.0	110.0	112.1	114.2	116.3	
14	57.8	61.7	65.5	69.5	73.3	77.1	81.0	84.8	86.7	88.7	90.6	92.6	94.5	96.4	100.3	102.2	104.1	106.0	108.0	
15	54.0	57.6	61.1	64.8	68.4	72.0	75.6	79.2	81.0	82.8	84.6	86.4	88.2	90.0	93.6	95.4	97.2	99.0	100.8	
16	50.6	54.0	57.2	60.9	64.1	67.5	70.8	74.2	76.0	77.6	79.3	81.0	82.7	84.4	87.8	89.4	91.1	92.8	94.5	
17	47.6	50.8	54.0	57.2	60.3	63.5	66.7	69.9	71.5	73.1	74.6	76.2	77.8	79.4	82.6	84.1	85.7	87.3	88.9	
18	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	67.5	69.0	70.5	72.0	73.5	75.0	78.0	79.5	81.0	82.5	84.0	
19	42.6	45.5	48.2	51.1	54.0	56.8	59.7	62.5	64.0	65.4	66.8	68.2	69.6	71.1	73.9	75.3	76.7	78.1	79.5	
20	40.5	43.2	45.9	48.7	51.3	54.0	56.7	59.4	60.8	62.1	63.4	64.8	66.2	67.5	70.2	71.5	72.8	74.5	75.6	
21	38.6	41.1	43.7	46.4	48.9	51.4	54.0	56.6	57.9	59.1	60.4	61.7	63.0	64.3	66.9	68.1	69.4	70.7	72.0	
22	36.8	39.2	41.6	44.2	46.6	49.1	51.5	54.0	55.2	56.5	57.6	58.9	60.1	61.4	63.8	65.0	66.2	67.5	68.7	
23	35.2	37.5	39.9	42.4	44.6	47.0	49.3	51.6	52.8	54.0	55.2	56.3	57.5	58.7	61.0	62.2	63.6	64.5	65.7	
24	33.7	36.0	38.2	40.5	42.8	45.0	47.3	49.5	50.7	51.8	52.9	54.0	55.1	56.3	58.6	59.6	60.7	61.8	63.0	
25	32.4	34.6	36.7	38.9	41.0	43.2	45.4	47.5	48.6	49.7	50.8	51.8	52.9	54.0	56.2	57.2	58.3	59.4	60.4	
26	31.2	33.2	35.3	37.4	39.5	41.5	43.6	45.7	46.7	47.8	48.8	49.9	50.9	51.9	54.0	55.0	56.0	57.1	58.1	
27	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0	52.0	53.0	54.0	55.0	56.0	
28	28.9	30.8	32.8	34.8	36.8	38.8	40.8	42.8	43.8	44.8	45.8	46.8	47.8	48.8	50.8	51.8	52.8	53.8	54.8	
29	28.0	29.8	31.6	33.5	35.4	37.2	39.0	41.0	41.9	42.9	43.8	44.7	45.6	46.5	48.4	49.4	50.3	51.2	52.1	
30	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	40.5	41.4	42.3	43.2	44.1	45.0	46.8	47.7	48.6	49.5	50.4	
31	26.2	27.9	29.6	31.4	33.1	34.8	36.6	38.3	39.2	40.1	41.0	41.9	42.8	43.5	45.2	46.2	47.0	47.9	48.8	
32	25.3	27.0	28.7	30.4	32.1	33.7	35.4	37.2	38.0	38.8	39.7	40.5	41.4	42.2	43.9	44.7	45.5	46.4	47.3	
33	24.6	26.2	27.8	29.5	31.1	32.4	34.4	36.0	36.8	37.6	38.5	39.3	40.1	40.9	42.6	43.4	44.2	45.0	45.8	
34	23.8	25.4	27.0	28.6	30.2	31.8	33.3	35.0	35.7	36.5	37.4	38.1	38.9	39.7	41.3	42.1	42.9	43.6	44.5	



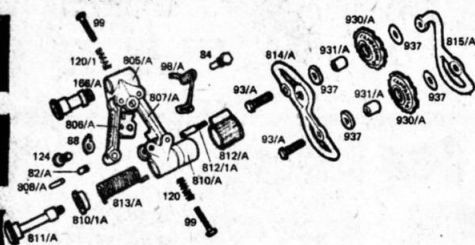
Over the years the name of Campagnolo has garnered more respect and admiration among racers and touring riders than any other in the cycling world. Campagnolo's reputation for quality and dependability has been proven at all racing events the world over. Parts availability has been greatly improved, making Campy parts in-stock items.

As an added convenience, Campagnolo now includes a Limited Lifetime Warranty on all components. Campagnolo—a standard of excellence you can depend on.

Campagnolo Dropouts and Braze-on Fittings are available in our Frame Specifier.

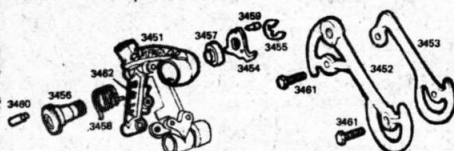


- CA-1020/A Nuovo Record Rear, 199G, 28T, \$39.80
- CA-3450/1 Rally Touring, w/36T range, and slant pantograph design, 310G, \$41.80
- CA-80/2 Nuovo Record Hanger, \$1.60
- CA-80/A Rally Hanger \$1.60
- CA-626/A Double Cable Guide, \$4.90
- CA-636, 622 Chainstay Clip, SS Housing, \$3.90

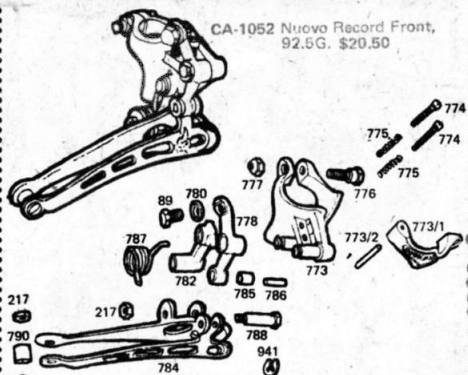


- CA-82/A Body ferrule 91¢
- CA-84 Gear return spring screw 91¢
- CA-88 Clamp washer 33¢
- CA-93/A Sprocket bolt 40¢
- CA-98/A Gear return spring 70¢
- CA-99 Gear adjusting screw 55¢
- CA-120 Lower adjuster spring 18¢
- CA-120/1 Upper adjuster spring 18¢
- CA-124 Fixing screw 25¢
- CA-166/A Upper pivot bolt \$3.97
- CA-805/A Upper body \$13.00
- CA-806/A Front arm \$7.80
- CA-807/A Inner arm \$7.28
- CA-808/A Spindle 70¢
- CA-810/A Lower body \$10.40
- CA-810/1A Lower body bushing 42¢
- CA-811/A Gear spring bolt \$4.84
- CA-812/A Spring cage cover \$5.27
- CA-812/1A Grub screw 90¢
- CA-813/A Tension spring \$1.18
- CA-814/A Outer cage plate \$6.04
- CA-815/A Inner cage plate \$5.66
- CA-930/A Roller \$1.66
- CA-931/A Roller bush 62¢
- CA-937 Roller dust cover 18¢

Rally Small Parts which are different from the Nuovo Record parts above:



- CA-3451 Upper Body \$13.46
- CA-3452 Outer Cage Plate \$9.62
- CA-3453 Inner Cage Plate \$6.57
- CA-3454 Toothed Washer \$1.12
- CA-3455 Circlip 16¢
- CA-3456 Gear Fixing Screw \$4.81
- CA-3457 Upper Body Bush 75¢
- CA-3458 Upper Body Spring 73¢
- CA-3459 Upper Body Grub 23¢
- CA-3460 Gear Return Screw 26¢
- CA-3461 Roller Fixing Screw \$1.37
- CA-3462 Front Arm \$8.84



CA-1052 Nuovo Record Front, 92.6G. \$20.50

- CA-89 Locking screw 37¢
- CA-215 Cage spacing bolt 25¢
- CA-217 Cage spacer bolt nut 24¢
- CA-773 Record front changer body w/clip and hinge \$10.79
- CA-773/1 Hinge \$2.88
- CA-773/2 Hinge pin 98¢
- CA-774 Adjusting screw 42¢
- CA-775 Adjusting bolt spring 42¢
- CA-776 Clip fixing screw 65¢
- CA-777 Nut 24¢
- CA-778 Upper arm \$5.07
- CA-780 Cable clamp bolt washer 27¢
- CA-782 Lower arm \$4.10
- CA-784 Front changer cage \$7.15
- CA-785 Ferrule for front cage 22¢
- CA-786 Spindle for front cage 22¢
- CA-787 Front changer return spring 65¢
- CA-788 Cage shank bolt 68¢
- CA-790 Bush 34¢
- CA-941 Circlip 13¢



- CA-1014 Nuovo Record Downtube Shifters, 74.6G. \$13.75
- CA-606, 608 Inner Cable Set, \$3.50
- CA-1012/3 Bar End Shifters (2), 108.2G. \$19.75
- CA-629 Fulcrum Clip for above, \$2.45
- CA-218, 145, 625 X-Long Inner Cables & SS Housing for above, \$8.40

CA-BOL Braze-on Lever Set, \$12.50



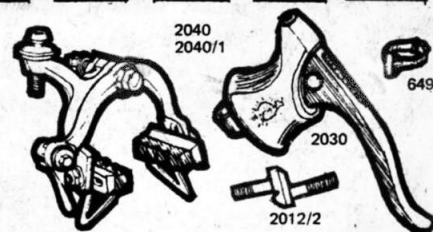
- CA-174 Handlebar friction plate 14¢
- CA-601 Gear Control Lever \$2.80
- CA-602 Front Changer Control Lever \$2.86
- CA-603 Cover plate 18¢
- CA-604/1 Friction adjusting wing nut 55¢
- CA-606 Gear inner wire \$1.95
- CA-608 Front changer inner wire \$1.95
- CA-609/1 Fixing clip bolt 76¢
- CA-610 Record twin control clip \$8.65
- CA-622 Gear S.S. outer casing \$1.30
- CA-623 Front changer S.S. outer casing 88¢
- CA-777 Nut 18¢



Specify Threads: English, French or Italian

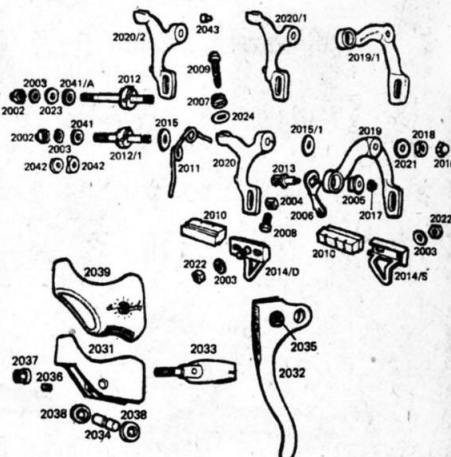
- CA-1039-T Nuovo Record Road Headset complete, 216.6G. \$29.80
- CA-1040-T Nuovo Record Track Headset complete, \$29.80
- CA-2101 Bearing Set for Road Headset \$2.30

- CA-681 Locking Nut (spec.thread) \$4.03
- CA-682 Locking Washer \$1.56
- CA-683 Screwed Road Race (spec.thread) \$11.12
- CA-684 Road Top Head Race \$7.82
- CA-685 Road Bottom Head Race \$9.82
- CA-686 Road Crown Race \$7.28



2040
2040/1

- CA-2040 Nuovo Record Brake Set-brakes, handles and cables, (Fr.) 789.7G. \$99.80
- CA-2040/1 Same as above but w/extra short reach, 766G. \$99.80
- CA-2030 Nuovo Record Brake Handle w/hood, 110.4G. \$33.00 ea.
- CA-2012/2 Drop Center Bolt for touring frames, 28.9G. \$13.40
- CA-649 Cable Clip Set (3) \$4.10

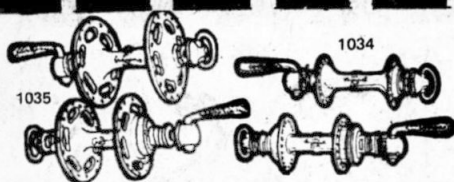


- CA-2002 Center bolt fixing nut 76¢
- CA-2003 Washer 12¢
- CA-2004 Clamp bolt washer 40¢
- CA-2005 Cam \$1.04
- CA-2006 Quick release cam lever 92¢
- CA-2007 Adjusting nut \$1.15
- CA-2008 Cable clamp bolt 73¢
- CA-2009 Adjusting screw 65¢
- CA-2010 Brake block \$1.79
- CA-2011 Tension spring \$2.74
- CA-2012 Front brake center bolt \$7.74
- CA-2012/1 Rear brake center bolt \$6.11
- CA-2013 Cable clamp \$2.86
- CA-2014/D Right hand brake shoe \$6.24
- CA-2014/S Left hand brake shoe \$6.24
- CA-2015 Friction washer 24¢
- CA-2016/1 Inner friction washer 24¢
- CA-2016 Domed nut \$1.64
- CA-2017 Cam locking nut 50¢
- CA-2018 Locking nut 28¢
- CA-2019 Stirrup arm \$16.77
- CA-2019/1 Small brake front stirrup \$16.77
- CA-2020 Rear stirrup \$16.45
- CA-2020/1 Sm. front brake rear stirrup \$16.45
- CA-2020/2 Sm. rear brake rear stirrup \$16.45
- CA-2021 Milled washer 21¢
- CA-2022 Brake shoe nut 34¢
- CA-2023 Concave washer for front brake 30¢
- CA-2024 Adjusting rubber 52¢
- CA-2041 Serrated washer for rear brake 63¢
- CA-2041/A Serrated washer for front brake 12¢
- CA-2042 Concave washer for rear brake 40¢
- CA-2043 Lever rubber for small brake 16¢

- CA-2026 Front brake outer casing \$1.89
- CA-2027 Rear brake outer casing \$2.47
- CA-2028 Front inner cable \$1.30
- CA-2029 Rear inner cable \$1.89
- CA-2031 Lever hood \$11.77
- CA-2032 Lever control w/cable holder 2035 \$12.90
- CA-2033 Brake lever clip \$4.23
- CA-2034 Lever pivot pin 59¢
- CA-2036 Grub screw 28¢
- CA-2037 Clamp nut 36¢
- CA-2038 Lever bush 11¢
- CA-2039 Rubber lever hood \$4.62



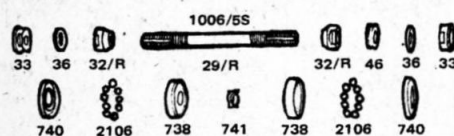
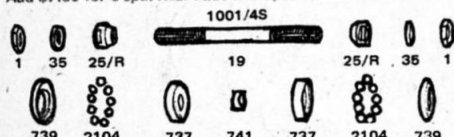
- CA-1030/2 Metal Pump head (Silica) w/blue rubber tip legs, Presta \$6.50
- CA-3346 Superlight pump head (Silica) \$4.20
- CA-632 Umbrella pump clip \$4.20
- CA-648 Superlight peg pump clip \$2.60



All Hubs are 36H, QR w/skewers, English threads. Pair.
24, 28, 32 or 40H-Add \$4.00 Pair

- CA-1253 Nuovo Tipo Lg. Flange, 567.1G. \$39.90
- CA-1251 Nuovo Tipo Sm. Flange, 508.4G. \$39.20
- CA-1035 Nuovo Record Lg. Flange, 595.6G. \$64.00
- CA-1034 Nuovo Record Sm. Flange, 519.2G. \$60.75
- CA-HLH Special Hi-Lo Flange, 541.8G. \$76.25
- CA-1036/2 Record Sm. Flange Track, \$64.60
- CA-1036 Record Lg. Flange Track, \$64.60

Hubs may be purchased individually at 1/2 the pair price +\$4.00
Add \$7.00 for 6-spd. Rear Axle and Spacer.



- CA-1310 Nuovo Tipo Front QR Skewer \$6.76
- CA-1311 Nuovo Tipo Rear QR Skewer \$6.96
- CA-1001/3 QR Skewer for Front Record Hub, \$9.82
- CA-1006/8 QR Skewer for Rear Record Hub, \$9.88
- CA-1001/4S Complete Front Axle for Road Hub, \$7.41
- CA-1006/5S Complete Rear Axle for Road Hub, \$8.84
- CA-1 Front Lock Nut 40¢
- CA-19 Front Hollow Axle \$2.73
- CA-25 Nuovo Tipo Front Cone \$1.22 ea.
- CA-25/R Front Cone \$1.50
- CA-29/R Rear Hollow Axle \$3.19
- CA-32 Nuovo Tipo Rear Cone \$1.22
- CA-32/R Rear Cone \$1.50
- CA-33 Rear Lock Nut 73¢
- CA-35 Front Hub Lock Washer 20¢
- CA-36 Rear Hub Lock Washer 20¢
- CA-46 Rear Spacing Collar 37¢
- CA-737 Front Ball Cup \$2.80
- CA-738 Rear Ball Cup \$2.80
- CA-739 Front Dust Cover 98¢
- CA-740 Rear Dust Cover \$1.50
- CA-741 Spring Clip 38¢
- CA-2104 Set 7/32" Front Bearings \$2.10
- CA-2105 Set Nuovo Tipo Front Bearings \$2.08
- CA-2106 Set 1/4" Rear Bearings \$2.08



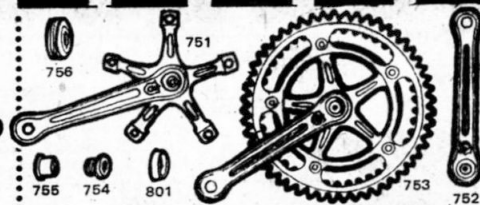
- CA-1037 Nuovo Record Road, Chrome, 415.7G. \$46.80
- CA-1037/A Nuovo Record Road SL, Black, 332.8G. \$58.60
- CA-1038/A Nuovo Record SL Track, Black, 322.4G. \$60.80
- A-GSP Gran Sport Pedals, Silver, 498.8G. \$35.80



- CA-89 Locking Screw for Superlight 37¢
- CA-669 Left Hand Pedal Axle \$7.35
- CA-670 Right Hand Pedal Axle \$7.35
- CA-672 Inserted Race \$2.02
- CA-673 Pedal Axle Washer 14¢
- CA-674 Pedal Axle Cone \$2.10
- CA-675 Pedal Axle Lock Nut 33¢
- CA-676 Toe Clip Bolt 35¢
- CA-677 Toe Clip Washer 14¢
- CA-678 Inner Dust Cap \$1.12
- CA-679 Record Pedal Dust Cap \$2.80
- CA-679/A Superlight Pedal Dust Cap \$2.86
- CA-2103 Set Pedal Bearings \$1.63



- CA-1072 Allen Seatpost Bolt, 8mm, 8.9G. \$3.10
- CA-1070 Superlight Bolt, Drilled, 10mm, 9.7G. (Drill out frame hole to fit), \$3.25



- CA-1048-J Nuovo Record Crankset, w/Nuovo Record Bottom Bracket Assembly, 170mm cranks, 42/52 Chainrings. Specify: English, French or Italian; 68 or 70mm width. 976.7G. \$119.80
- CA-1048 Nuovo Record Crankset w/out BB - \$88.80

- CA-753-T Nuovo Record Chainrings, 41 to 57T \$24.90
- CA-1050-J Record Track Crankset, with B.B., \$129.75

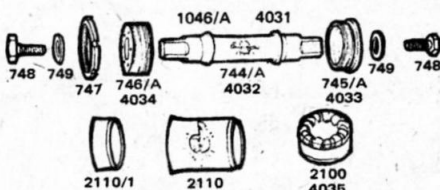
Special Crank Lengths (165 to 180mm) and/or Chainring size (42 to 57T) are Special Order-Add \$4.00



MORE TANDEM INFORMATION
See Pages 23 & 24

- CA-751 Right hand Road Crank, with cover 756, 170mm, \$51.16
- CA-752 Left hand Road Crank, with cover 756, 170mm, \$51.16

- CA-753-T NR Chainrings, 42T to 57T, \$24.90
- CA-754-Road Chainwheel Fastening Screw, (5) \$6.71
- CA-755 Road Chainwheel Fastening Nut, (5) \$6.71
- CA-756 Crank Cover Plate, \$2.50
- CA-801 Spacer for single chainring, (5) \$1.50



Specify: English, French or Italian

- CA-1046/A-T Nuovo Record Bottom Bracket Set, complete. Specify: English, French or Italian; 68mm or 70mm width, \$34.60

- CA-744/A Nuovo Record Cotterless Road Spindle, Specify: English, French or Italian, \$17.55
- CA-745/A Fixed Cup, Specify Thread \$11.51
- CA-746/A Adjustable Cup, Specify Thread, \$10.27
- CA-747 Locking, Specify Thread, \$4.03
- CA-748 Fixing Screw \$1.38
- CA-749 Fixing Washer \$1.38
- CA-2100 Set Bearings \$1.63
- CA-2110/1 Cone for Sleeve 98¢
- CA-2110 Record Sleeve \$2.60

- CA-4031-T Super Record Bottom Bracket Road Set, with Titanium Spindle, 68 or 70mm. Specify: English French or Italian, \$140.00

- CA-4032 Super Record Cotterless Titanium Road Spindle 68 or 70mm, \$120.00
- CA-4033 Fixed Cup, Specify Thread, \$27.00
- CA-4034 Adjustable Cup, Specify Thread, \$21.50
- CA-4035 Set Bearings \$1.89

overhaul kit

CA-OK
\$24.25
Complete

- 1 Set front hub bearings
- 1 Set rear hub bearings
- 2 front hub cones
- 2 rear hub cones
- 2 sets bottom bracket bearings
- 2 sets pedal bearings
- 4 brake blocks
- 1 front derailleur cable
- 1 rear derailleur cable
- 1 front brake cable
- 1 rear brake cable
- 1 Campy grease



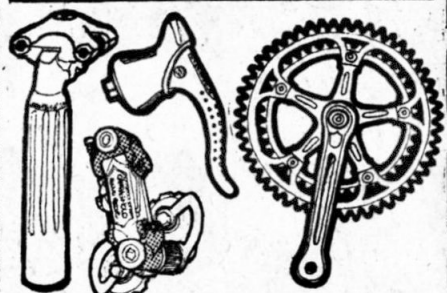
BW-CA-Z
CAMPAGNOLO
T-SHIRT
See Page 26

groupes

- CA-1032/F Campagnolo Nuovo Record Road Group: Specify normal or close reach brakes, hub flange, threads, post diameter, etc. \$468.20

- CA-606 Rear Derailleur Cable, 118cm
- CA-608 Front Derailleur Cable, 72cm
- CA-622 Rear Derailleur S.Steel Cable Casing, 21cm
- CA-626/A Dual Derailleur Cable Guide (new style)
- CA-636 Rear Derailleur Cable Stop Chain Stay
- CA-632 Seat Tube Pump Clip
- CA-649 Brake Cable Clips (3)
- CA-1014 Record Dual Control
- CA-1020/A Nuovo Record Rear Derailleur, w/out hanger
- CA-1030/2 Special Pump Adaptor
- CA-1035 Record Lg. or Sm. Fl. QR Hubs, Eng., Fr. or Ital.
- CA-1037 Record Road Pedals
- CA-1039 Record Road Headset, Eng., Fr. or Ital.
- CA-1044 Record Seatpost (specify diameter)
- CA-1046/A Nuovo Record B.B. Set, 68 or 70mm, Eng., Fr. or Ital.
- CA-1048 Road Crankset (specify chainrings)
- CA-1052/T Record Front Derailleur
- CA-2040 Nuovo Record Brake Set

- CA-4000/F Campagnolo Super Record Road Group: Includes Nuovo Record items: 606, 608, 622, 626/A, 636, 649, 1014, 1052/1 plus Super Record components. \$698.80



- CA-1049/A-J Super Record Road Chainwheel, w/ultralight chainrings, 42/52T, 170mm crank, 954.7G. \$108.80

- CA-753-A-T Super Record Chainrings, fit Nuovo Record cranks, 42 - 57T, 63.2G. \$28.80

- CA-1020/18 Super Record Rear Derailleur, black parts, w/out hanger, 187.6G. \$67.90

- CA-1035-H Nuovo Record Lg. Fl. Hubs, 595.6G. \$64.00 or
- CA-1034-H Nuovo Record Sm. Fl. Hubs, 519.2G. \$60.75

- CA-4021 Super Record Road Pedals, Titanium axles, 269.8G. \$130.00
- CA-4031-T Super Record Road B.B. Set, titanium axle, 217.2G. \$119.00

- CA-4041-T Super Record Road Headset, ultralight, English, French or Italian, 151.3G. \$46.40

- CA-4051-Z Super Record Seatpost, fluted, wide cradle, 25 to 27.4mm, 204G. \$48.90

- CA-4061-Z Super Record Brake Set, complete, drilled levers, 781.7G. \$113.60

tools



- CA-3385 Special Grease, 100G. (3.5oz.), \$2.90
- CA-3386 Special Grease, 500G. (17.5oz.), \$11.90

- CA-Q Cone Wrench 13/14 or 15/16 \$4.65



- CA-143/2 T Wrench, for brakes derailleurs, bar end shifters, \$6.80



- CA-769 Bottom Bracket Axle Spanner, \$5.40



- CA-770 Cotterless Crank Extractor, \$7.54



- CA-771 Seatpost Wrench, \$8.45



- CA-710 Pedal Dust Cap Wrench, \$1.80



- CA-712/1 Bottom Bracket Adjusting Cup Tool, \$9.90



- CA-713 Bottom Bracket Stationary Cup Tool, \$11.45



- CA-712/1 Bottom Bracket Pins, \$3.25 Pair



- Campagnolo Belt Buckles, official limited edition - to be a collectors item. Brass/\$6.40, Pewter/\$6.65
- CA-8B Campagnolo Decal for downtube 50¢ each
- CA-D

we try to ship same day

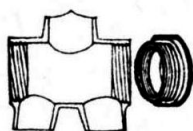
On In-Stock Items Call Before 3:00pm - SPECIFY RUSH

bike builders blueprints

crankset installation

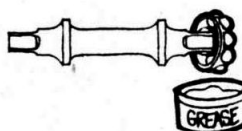


IMPORTANT NOTE - Apply liberal amounts of grease to all threads and bearings before assembling the crank.



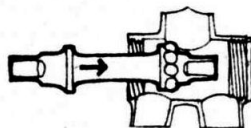
B. B. shell cut-a-way from above

1. Thoroughly clean bottom bracket shell threads with a fine brush before assembly. Using a fixed cup spanner, carefully thread the fixed cup (with flange) in the right bottom bracket shell. Be sure to tighten very snugly.

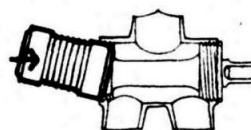


2. Place one bearing retainer (well packed with bearing grease) on longer spindle end. Be sure to place flat side of retainer towards spindle shoulder. If installed backwards, the retainer will cause severe scoring of the inner cup.

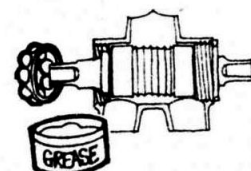
Option: Many pro bikers prefer to remove the bearing balls from the retainer keeper and install them stuck in place with grease. Doing this, one extra ball is used on each side. The advantage is just slightly less friction.



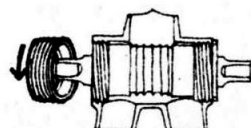
3. Insert the spindle end (with bearing mounted) through the bottom bracket shell from the left side, sliding spindle tip through the opening in the already-installed fixed cup.



4. While holding the inserted spindle in place, slide the plastic dust seal over the spindle inside the B. B. shell until proper contact is made with the inside of the fixed cup.



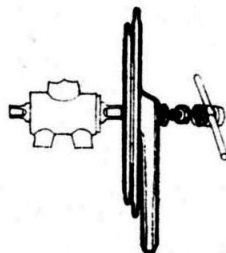
5. While still holding the spindle in place, slip the other bearing retainer (well packed with grease) over the left end of the spindle. Again, be certain the flat side of the retainer faces the spindle shoulder. This places the exposed bearings towards you.



6. Again holding the spindle, thread the adjustable cup into place over the spindle. Hand tighten the cup at this point just enough to seat the bearings.

THREADING INFORMATION

B. B. ASSEMBLY	FIXED CUP
English (1,370 x 24 TPI) - Left-hand thread (Counter-clockwise)	Left-hand thread (Counter-clockwise)
French (35 mm x 1.0 mm) - Right-hand thread (clockwise)	Right-hand thread (clockwise)
Italian (36 mm x 24 TPI) - Right-hand thread (clockwise)	Right-hand thread (clockwise)



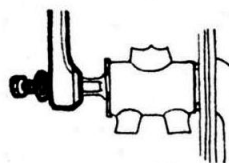
7. Place the right-hand crank arm assembly in position, over the right end of the protruding spindle. Carefully slide the arm in place, being certain to properly level it upon the spindle. Thread crank arm bolt (with washer) into the spindle-end. A crank bolt wrench is needed to tighten this bolt. Making certain no cross-threading is taking place, tighten the bolt very firmly.



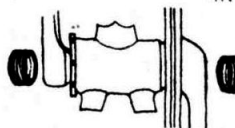
8. Adjust the tightness of the adjustable cup--smooth operation is desired here. Using your pin-spanner, tighten until slight drag resistance is felt in crank movement, and back off approximately 1/6 turn.



9. When the adjustable cup has been properly set, hold in position with the pin-spanner and install lock ring. Firmly tighten the lock ring against the B. B. shell using a lock ring spanner. Use caution here, as these cups sometimes tend to move as the lock ring is tightened. Repeat operation if necessary until proper adjustment is completed.



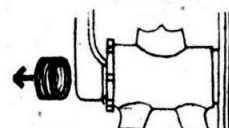
10. Install left-hand crank arm utilizing the same method employed when the right arm was installed. Remember that the crank arms must face in opposite directions. (i. e. - one arm pointing rearward, the other forward).



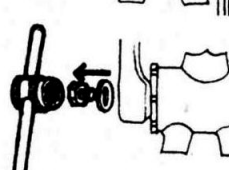
11. Re-check both crank arm bolts for tightness. Install threaded bolt dust covers. (Do not over-tighten covers).

Your new crankset is now installed and ready to accept chain hookup and pedals.

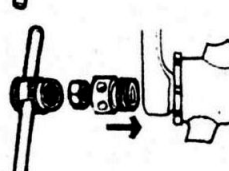
crank removal



First unthread the protective cap covering the crank arm bolt.



Place the socket end of the crank extracting tool over the crank arm bolt. Using the proper wrench or leverage rod, unthread the crank arm bolt.



To remove the crank arm, use the threaded extractor: First unthread the inner bolt of the tool so the face is flush with the larger tool housing. Thread the housing into the crank arm bolt opening--tighten snugly. Now, using the proper wrench, tighten the extracting tool's inner bolt. This will place pressure on the spindle end, resulting in extraction of the crank arm.

A SUPER THICK BUCKLE

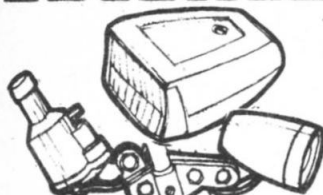
BTS



4.95

Bicycle
BTS Belt Buckles,
hand-polished
solid brass. 3 1/4" x
2 1/8"
BT-B \$4.95

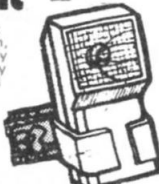
SOUBITEZ



Featherweight Generator
Light Set, 312G., black head-
lamp with black taillight and
generator. SO-G \$9.25

headlight or tailight

White weather and impact
proof plastic, no corrosion,
no rust. Lightweight, easily
removable. Meets all safety
requirements. Battery incl.
Tailight is same as above
but w/ red plastic case &
red lens. Specify:
Head WL-HL \$4.50
Tailight WL-TL \$4.50



Wonder Light Bulbs, WL-BU 55¢
Wonder 4.5v Battery, WL-EB 90¢
Wonder Top Battery,
features extra long life.
This specially-formulated
carbon-zinc battery can
last up to twice as long as
conventional battery.
WL-TB \$1.45



leg & arm light

Cycle Pro white
lightweight plastic w/
strap. White front
lens and red rear lens.
Attach to arm, leg or
bike. Uses 2 C-cell
batteries

CP-LL \$1.85



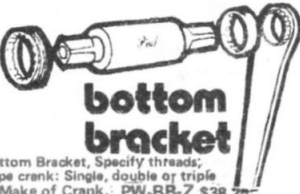
Belt Beacon M38 Touring.
Offers the biker a distinct safety advantage.
Beacon has been upgraded with carefully se-
lected transistors, special signal lamp and an
optimized solid state oscillator which conserves
battery up to 100 times longer than a contin-
uous light. Belt lip and hardware attaches to
belt, bike, bag, pack, clothing, anywhere.
Ideal for biking, walking, traffic work,
location beacon. White case with amber
fresnel-type lens which magnifies the flash.
Flash is also visible from the sides. Approx.
weight: 3 1/2oz. w/battery, 3 1/4" dia. x 2 1/4".
The M38, w/40 flashes per second, has the
longest battery life for touring.

Comes w/extra bulb
Battery included AM-BB \$8.95

Phil Wood hubs



PW-FH-H Front, standard flange, 57mm,
185G., \$24.90
PW-RH-Z Rear, standard flange, 57mm,
215G., \$31.90
PW-FRH-H Pair, front & rear, \$55.95
PW-TH-Z Track Hubs, pair, not QR (differ-
ent sprocket can be used on each
side of rear hub). F-220G., R-326G.,
\$77.95 pr.
PW-RTH-Z Tandem Hub, SPECIAL ORDER.
up to 48H. with or without disc
brakes, wide axle, 120, 125, 130,
135, 140mm. \$48.00 ea.
PW-TDB Tandem Disc Brakes, SPECIAL
ORDER. \$131.00



bottom bracket

Bottom Bracket, Specify threads:
Type crank: Single, double or triple
& Make of Crank. PW-BB-Z \$38.20

Special B.B. Shop Tool (Two required for Ital.
or Fr.) PW-ST \$9.00 ea. (Return tool in new
condition for \$5.00 refund.)
Rings only PW-R-Z \$6.95

New B.B. Touring Tool, can be
carried with you on tour. Use
with crescent wrench. PW-PBT
\$4.50

Phil Wood Atom Tool
This little tool will remove an
Atom Freewheel (or a spined
Reginal) from any hub without
disturbing the axle.

PW-AT \$3.45



pedals

New sealed platform pedals
English thread, (325G) Use Std.
toe clips, cleats.
PW-PP \$49.95

grease

Special "Phil" waterproof grease.
Smooth, does not become stiff in
cold weather or runny in hot.
A straight mineral oil grease,
no synthetic problems. High inhibitor
content preventing rust and corrosion,
even under prolonged wet conditions.
(85G) 3 oz. Tube, PW-G \$1.55

NEW

Sturmey-Archer
5 spd. Hub and
Control Levers, w/
cables & hardware.

SA-5H
\$38.90



KKT

pro ace



Pro Ace Road Pedals, Campy copy, alloy body.
Chromemoly shaft. Clip and strap attachable.
#60G. Silver, KK-PAS \$35.80
Black, KK-PAK \$38.80

Pro Ace Pedal Wrench, KK-PAW \$1.65

pro vic



Pro Vic Alloy Pedal-alloy body like Pro Ace
but with an alloy cage like Top Run. Lighter
than both. Clip and strap attachable - English.
Silver, KK-PVS \$20.50
Black cage KK-PVK \$21.25

top run



Top Run Alloy Cage Pedal, lightweight, well-
built, steel-bodied pedal. Eng. or French. 460G
KK-TRS \$9.75

Black Top Run Pedal, same as above but with
black alloy cage. Eng. Pair.
KK-TRK \$10.50

Top Run Pedal Wrench, KK-TRW \$1.60



toe clips

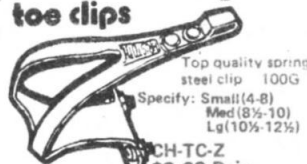
Deluxe spring steel.
With sewn leather. 114G.
Specify: S(4-5%),
M(6-8%), L(9-10%),
XL(11-13%).
KK-TC-Z \$4.25



Cat-Eye Pedal
Reflectors
Set of 4/CR-CE \$1.45

christophe

toe clips



Top quality spring
steel clip 100G
Specify: Small(4-8)
Med(8-10)
Lg(10-12%)
CH-TC-Z
\$2.60 Pair



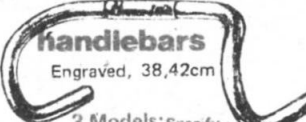
Christophe toe straps. Pro straps are supple
leather with Christophe stamped in fine out-
lined silver letters. Quick-release buckle has
Binda-style release with ferruled roller.
Specify: white, red, blue or black.
CH-TS-C \$2.90 pair

z-clip



Christophe Z clip and strap. New springy
aluminum alloy clip (thermal treated).
Natural leather strap has alloy buckle.
Clip weight is 43G, strap - 36G.
Med. or Lg. Pr. CH-Z-Z \$10.25 pr.

FIAMME



handlebars
Engraved, 38,42cm

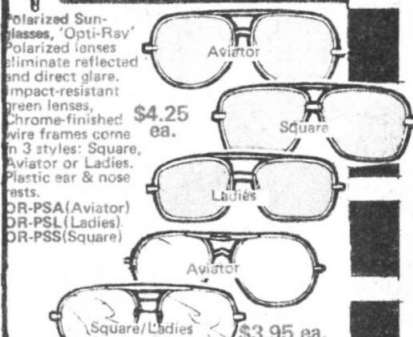
3 Models: Specify.

"Dallas", Least Drop-\$8.25
FI-H-Z "Milano", Medium Drop-\$8.25
"London", Most Drop-\$8.25



stem

"Montreal"
8 - 12cm
FI-S-Z \$11.95



Polarized Sun-
glasses, "Opti-Ray"
Polarized lenses
eliminate reflected
and direct glare.
Impact-resistant
green lenses.
Chrome-finished
wire frames come
in 3 styles: Square,
Aviator or Ladies.
Plastic ear & nose
rests.
OR-PSA(Aviator)
OR-PSL(Ladies)
OR-PSS(Square)

\$4.25
ea.

Mirrored Sunglasses, "Opti-Ray" lenses are
impact-resistant and feature a "mirror-tint"
on the outside. The biker views through
dark green tint. Chrome-finished wire frames
come in three styles: Aviator, Squares or Ladies.
Plastic ear and nose rests. OR-MSA(Aviator),
OR-MSL(Ladies), OR-MSS(Square)



Polarized Clip-On Sunglasses, green tinted
plastic lenses. Plastic clip attaches easily to
eyeglasses and flip-up out of the way when
not needed. OR-PC \$3.95

NEW



Bike Warehouse Toe Straps, made of
genuine leather. Quick-release buckle has
Binda-style release with ferruled roller.
Bike Warehouse logo is embossed in gold
letters on each strap.
Colors: White, Black, Blue, Red
BW-TS-C \$2.50 pair



Pedal Taps, to convert
French threaded crank
arms to English. FE-PT
\$7.50 pr.

alfredo binda toe straps

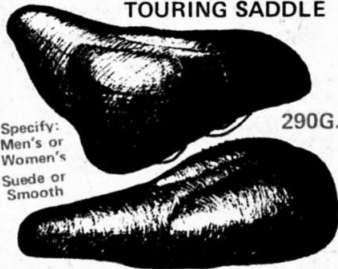
Super quality, soft leather. Fancy, quick-
release buckles. White, Red,
Blue, or Black. CA-AB-C \$4.25 pr.

binda extra

The best strap available. Two leather
straps are bonded with nylon permitting
almost no stretch. CA-BE \$6.90 pr.
Off-White

BIKE WARE

TOURING SADDLE



Specify:
Men's or
Women's
Suede or
Smooth

290G.

NEW Touring Saddle, an orthopedically-designed saddle especially for touring. A touring cyclist generally rides in a more upright position than does a racer, so there is more pressure applied to the pelvic region by the body weight on the saddle. To remedy this, the Touring Saddle has a nylon shell designed to better fit the pelvic area, then, extra padding has been added to the specific pressure points. The Woman's Model is slightly wider than the Men's Model. Both models are available in either Black Smooth Leather or Made in Italy. Black Suede Leather.

Men's Black Smooth - BW-TSM \$16.20
Women's Black Smooth - BW-TSW \$16.20
Men's Black Suede - BW-TRM \$16.90
Women's Black Suede - BW-TRW \$16.90

BIKE WARE



195

Seat Cover K-Koted nylon cover with elastic closure. Protect your leather saddles from the elements and keep your rear end dry. Universal sizing. Yellow

BW-SC

bike warehouse gift certificate

bike warehouse gift certificate

is entitled to a credit of \$ _____

toward the purchase of merchandise from bike warehouse, upon surrender of this certificate from _____

_____ bike warehouse authorization

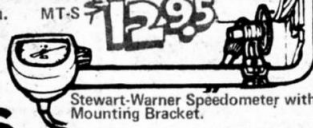
If you would like to give a bicycling gift and are not sure what would be most appreciated, use our Gift Certificate. Just call or write, tell us their Name & Address and how much you want to send. (Include your Credit Card Number & Expiration Date). We will send a Catalog & the Certificate to the recipient on your behalf.

Extra Belts, RG-EB \$6.25 ea.
Bearings, RG-B \$3.50 pr.

MT-S \$12.95

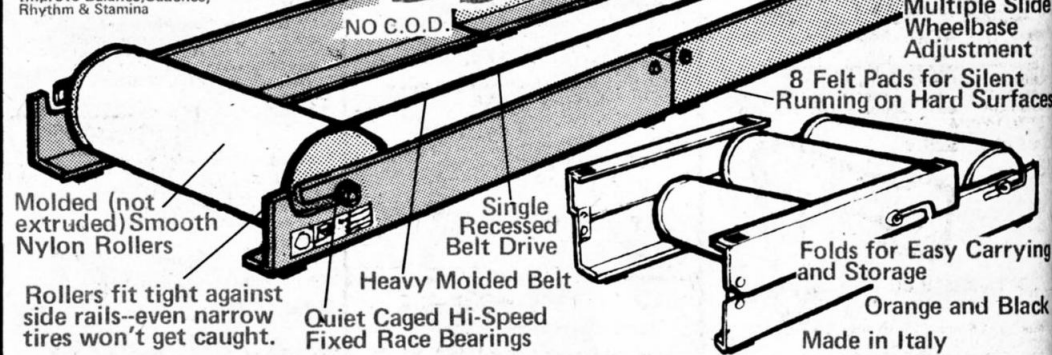
FOLDING ROLLERS

- Great Exercise—keep in shape during bad weather and early darkness.
- Great for Weight Control, Cardiovascular Development & General Physical Fitness.
- Easy to Ride—low center of gravity—support yourself in a doorway for the first 15 minutes, then ride like a pro.
- Improve Balance, Cadence, Rhythm & Stamina



VERY SMOOTH and QUIET OPERATION

RG-FR \$59.95



MTD NEW MODEL TOPFLITE

MT-R

\$75.00

ROLLERS ONLY NO C.O.D.

Buy 3 Rollers and get Speedometers FREE
MT-EB Extra Belts—\$6.25 Each

Two Belts quieter with more even pull. Belts are included.

MT-RS \$85.00 w/Speedo

Store easily under any bed or on end in a closet.

Hand Made in the U.S.A. by the largest lawnmower manufacturer in the world. They stand behind their products.
3 Year Guarantee

4 1/2" x 17" rolls P.V.C. that have been turned on a lathe for absolute smoothness. The black vinyl stays clean, is lightweight and very quiet.

Adjustable to 5 wheelbases from 38 to 42 in.
Fits track to touring bikes.

quiet

Doweled construction prevents mis-alignment of end plates.

NEW Solid Steel Races in Sealed Bearings eliminate breakdowns - no cones to adjust or maintenance required at all. Super quiet, precision quality.

Improved Self-Locking Nuts keep side rail and roller spacing to a minimum - preventing narrow tires from jamming between and protecting tire sidewalls.

Oak end plates kiln-dried and boiled in linseed oil, they not only look great but this more expensive process is much quieter than metal.

Deep groove belt does not come out while riding - even if hit by bike.

Club discounts available. Have races and demonstrations Min. 4

Aluminum Side Rails made of 4" channel for stability, light weight and rust free.



NEW

MT-P \$39.50

Poplar Platform Steps for safety and easy mounting/dismounting. Attaches easily to side rails.



Stewart Warner Speedometer w/re-attachable odometer drives off roller and is mounted out front in easy view of rider or spectator. Re-set odometer for daily records or race with other rollers. Goes to 50 m.p.h. and 99.9 miles.

MT-S

\$12.95

Speedometer will also work on your bike.

NEW More Solid Mounting Bracket

SW FOOTLOCK

CINELLI



Mod. 1/Record stem. The latest from Cinelli, has hidden binder with Allen bolt under extension. In very short supply. Pearl satin finish alloy. All 22.2mm. Alloy expanding bolt/plug, diameter, specify extension: 100, 110, 120, 130, 140MM

CI-1R-Z \$29.80



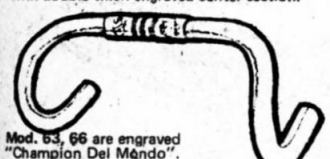
CI-1A-Z \$19.80

Mod. 1/A Stem, a top quality Pearl satin finish alloy stem. Both flush Allen bolts - 6MM. diam. 22.2MM. specify extension: 70, 80, 90, 100, 110, 120, 130, 140MM (Sometimes supplied 1/2 size larger)

A Cinelli stem will fit any bar we list, they will not fit in a French or low price American frame.



The finest satin anodized alloy bars with double thick engraved center section.



Mod. 63, 66 are engraved "Champion Del Mondo". Mod. 64 is engraved "Giro D'Italia". They all vary slightly in width, drop and reach. We suggest you order by: Wider, Narrower, More Drop, Less Drop, Etc. All models are available in Widths: 38 or 40cm. Mod. 66 is also available in 42cm wide.

Mod. 63 - CI-63-Z \$17.80

Mod. 64 - CI-64-Z \$17.80

Mod. 66 - CI-66-Z \$17.80



Mod. 65, is engraved "Cinelli", track style with narrow center section and immediate forward reach. Widths: 38, 40cm. Mod. 65 - CI-65-Z \$17.80



unicanitor

Mod. 3 - our finest, w/ supple water buffalo cover over sturdy padding.

CI-3 \$28.80

sizing info

Stem Extension: To determine the proper extension you must first locate your correct saddle position.

Saddle Height: Sitting on the saddle with one foot in a toe clip at the bottom of its stroke - your knee should be just slightly bent.

Saddle Position: (Forward to rearward) Again sitting on the saddle with one foot in the toe clip - this time with one pedal in the forward 9:00 position. A line perpendicular to the road should run through the pedal axle and the joint in your knee. Move your saddle forward or back till this is so.

Stem Size: Now place the back of your elbow against the front of your seat. With your arm and hand extended your fingertips should just fall behind your bar.

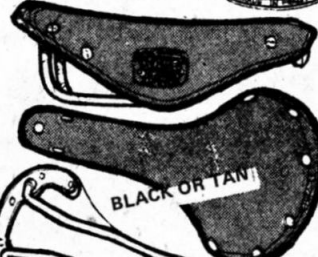
Inch to MM Sizes from stem bolt center to Bar center are as follows:

	INCHES	MM
	center to center	(cm-remove 0)
2 3/8	70	
2 3/4	70	
3 1/8	80	
3 1/2	90	
4	100	
4 3/8	110	
4 3/4	120	
5 1/8	130	
5 1/2	140	



REG Seat Pillar, hardened, lightweight alloy, 180mm long. 138G. 25.0, 26.0, 26.2, 26.4, 26.8, 27.0, 27.2

RG-SP-Z \$6.95



New "Ideal 90 A" saddle, Brooks pro type fits Campy type posts.

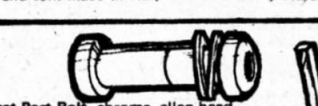
Solid leather top "pre-softened". Tapered edges on the leather prevents chafing, narrow forward section, tension adjustable. Beautiful embossed logo and large copper rivets. \$26.80

Tan - ID-90N

Black - ID-90K



B6 woman's model. Tan leather, not for use with Campy type seat posts. ID-B6 \$12.50

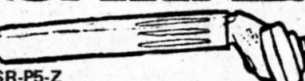


New seat cover, soft textured brown vinyl with elastic wrap-around. Protect your leather saddle from the rain and sun. Made in Italy RG-SC \$1.25



Seat Post Bolt, chrome, allen head, 8mm hole, 22 or 27mm Width. KK-SPB \$2.35

SAKAE



SR-P5-Z

NEW 'Laprade' Custom P5 Melt-forged light alloy pillar, bracket and supporter. Pillar length: 190mm (7 1/4"). 250G. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2mm

\$9.25



SR-R5-Z

NEW Royal-P5 Seatpost, forged Super Duralumin pillar, bracket and supporter. Anodized finish. 190mm length. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2mm

\$15.80



SR-SL-Z

Royal SL Stem also forged in 14S Super Duralumin but w/ stainless steel expander bolt & binder bolt. 22.2 diam.

70mm (205g)
90mm (220g)
110mm (235g)
130mm (250g)

\$18.80



SR-100AL

Sistar Pedal. Model SP-100AL, quill-type. Light alloy Super-Melt forged one piece body. Alloy plates. Size: 62mm, Width: 60mm, Weight: 345G.

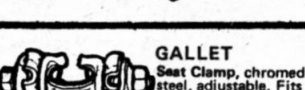
\$13.80



SR-401AL

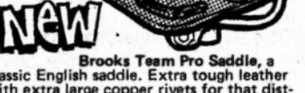
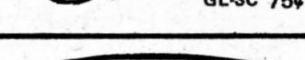
Sistar Pedal. Model SP-401AL, both sides serrated. Super-Melt forged light alloy one-piece body. Alloy plates. Size: 80mm, Width: 60mm, Weight: 360G.

\$12.80

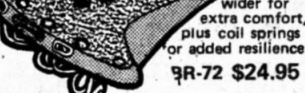


GL-SC 754

GALLET Seat Clamp, chromed steel, adjustable. Fits plain tube seat posts.



Brooks Team Pro Saddle, a classic English saddle. Extra tough leather with extra large copper rivets for that distinctive look. Chrome steel cage. 540G. Black. BR-TP \$34.90



Model B72, wider for extra comfort, plus coil springs or added resilience. 9R-72 \$24.95



Brooks Proofide Leather Dressing, for use on smooth leather (not for suede or cowhide). Conditions, preserves, waterproofs, restores. 3 oz. can BR-P \$2.10



SR-RY-Z Royal Stem forged 14S Duralumin. This inexpensive stem has a better satin pearl finish than Cinelli. Diam: 22.0 or 0.833 \$13.80



SR-AX-Z

Apex forged high-strength light alloy. Allen bolt, Pearl satin finish, 150MM long. 22.2mm diameter. Some sizes also available in .833mm (American) please Specify

60mm (330g)
80mm (320g)
100mm (340g)

\$8.25



World Champion SL Bar only 300g with drilled double tube center section. 130mm drop, finely engraved, satin pearl finish alloy. 390 and 420mm Widths.

SR-WCSL \$8.90

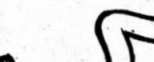


SR-WC-Z

\$7.95



World Champion Bar alloy, satin finish, double tube center section. 130mm drop, 305gr. 370, 390, 410mm

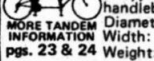


SR-WR

\$8.20



World Randonneur (305G) light alloy, satin finish, tape step-up, fine engraved. 110MM drop, 420MM wide, 97MM reach.



All-Rounder Handlebars, light alloy, used often as rear tandem handlebars. 32mm center bulge, Diameter: 22.2mm, Raised: 48mm, Width: 508mm. SR-ARR \$6.95

pgs. 23 & 24 Weight: 180G.

seatpost length

Model	Inches	MM
Sakae Laprade P5	7 1/4	184
Campy Nuovo Record	8 1/4	210
Super Record	7	178

Seat Post Diameters (Sizes vary from bike to bike)

	English	Italian	French	Butted	Straight
27, 27.2	26.2, 26.8	26.8, 27, 27.2	25, 26.2	26.6, 26.8	26.2, 26.4

Seat Post size to use-by seat tube opening

MM / Decimal / Fraction	MM / Decimal / Fraction
25.0 .9843 63/64	26.8 1.0551 1-1/16
25.8 1.0157 1-1/64	27.0 1.0629 1-1/32
26.0 1.0236 1-1/32	27.2 1.0708 1-5/64
26.2 1.0315 1-3/64	27.4 1.0787
26.4 1.0394	
26.6 1.0472	

A cut piece from your existing post would help.

NEW Cinelli T-Shirts See Page 26

we try to ship same day

On In-Stock Items Call Before 3:00pm - SPECIFY RUSH

WEINMANN



narrow clincher rim

Model A-124 Narrow Concave Clincher Rim, lightweight alloy, 27 x 1 or 700C, 36H, 6mm valve hole, 14mm inside width/20mm outside width, for use with H.P. narrow tires 23-28mm.

WE-A124-Z \$14.50 ea. \$27.80 pr.

Model A-129 Concave Clincher Rim, welded lightweight alloy, 700C or 27 x 1 1/4, nickel-plated brass eyelets, 16mm inside width/22mm outside width, smooth sidewalls for better braking, for 28-32mm tires.



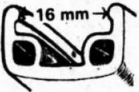
WE-A129-Z \$14.50 ea. \$27.80 pr.

Anodized, 40 or 48H WE-A129-H \$30.80 pr.

NOW MADE BY WOLBER

SUPER COMPETITION CHAMPION

narrow clincher rim



WO-SCC-Z Super Champion Clincher Rims, 16mm inside width, 36H. Use with narrow H.P. tires. Specify: 27" or 700C \$11.50 ea., \$21.90 pr. Special: 40 or 48H- \$2.00 ea. extra

WO-SCG-Z New Super Champion "Gentlemen" Clincher Rims, 20mm wide, 27" (185.2G) or 700C (482.2G), silver, 36H. \$22.95 pr.



Medialle d'Or Tubular Rim-Smooth-sided rim. Ideal for smooth roads & competition. 260G., 36H. 28,32H are special order.

WO-SCM-Z \$11.89ea., \$22.95pr.



Arc-en-ciel Tubular Rim-Smooth-sided. An excellent all-purpose road rim with strength to spare. 330G.

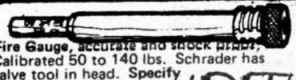
\$10.80 ea., \$21.80 pr.

WO-SCA-Z

FIAMME red label

Fiamme Red Label Tubular Rim, 360G., 21mm wide, 36H, highly polished. FI-R-H \$9.75 ea., \$18.50 pr.

Fiamme Gold Label Ergal Rim, new super strong, superlight "Ergal" composition, 290G., 20.4mm wide, satin finish, 28, 32, 36H. FI-E-H \$22.95 pr., \$11.75 ea.



Fire Gauge, accurate and shock proof. Calibrated 50 to 140 lbs. Schrader has valve tool in head. Specify Presta or Schrader.

CP-TGP CP-TGS \$2.75

MAVIC Limited supply tubular

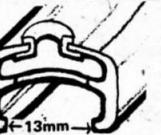
MV-MP Monthly Pro road with reinforcing eyelets, (395G) 36H, 20MM wide \$8.75ea., Now with smooth sides \$16.90 pr.

MV-GE-Z Gold Extra-Legere- Light road, 260G., 21.5mm wide gold anodized. \$15.50 ea., \$28.80 pr.

MV-ME-Z Modular "E" narrow clincher rim w/eyelets for use with narrow H.P. tires Specify: 27" (451.1G) or 700C (455.9G) \$11.25 ea. \$21.95 pr.



clincher



ME-M3 Modular "3", wider clincher for 28-32mm tires. 15mm inside/22mm outside width, 36H, polished, 480G. 27" \$10.50 ea. \$20.20 pr.

RIGIDA 13mm clincher



RI-1320-Z Now a clincher rim the same width as tubulars so there is no brake adjustment necessary at all when switching back and forth. Works great with the "W20", Elan TS, and Roadlite Z. Only 13mm inside width, double width, double wall construction for strength and the tube support. Specify 700c (same as tubulars) or 27" (Great when used with Wolber 1/2" tire; the W20 700c) \$10.90 ea., \$20.80 pr.

clincher

RI-RA-Z RIGI-ALU, Alloy Clincher rims, w/eyelets, 27 x 1 1/4 (1 1/8), 36H Now W/Presta valve holes. \$16.50 ea. \$19.95 pr. 700c as above \$9.45 ea., \$18.45 pr.

rim grommets

BW-RG 25¢ ea. Now adapt your Schrader holed (clincher) rims to take the new efficient Presta valved tubes. Makes the hole smaller preventing cuts in the stem and tube.

rim cement

Top quality Tubasti sew up glue. TO-RC 95¢

rim strip

5/8" for all rims including extra narrow models. 45¢ each CP-RS

tubulars

hutchinson hutchinson - gommitalia spa

HT-SB "Supersprint Butyl" - 310 G - 1 1/4 oz., 24mm cotton w/ribbed tread. \$20.50 pr. \$10.50 ea. 4 pr. - \$79.95

HT-SL Supersprint latex - finally a low priced tire with puncture resistance and lighter weight. Cotton w/ribbed tread. Latex tube (only 290 G, 10% oz., 24mm). 4 pr. - \$86.95 \$22.50 pr. \$11.50 ea.

HT-GB "GTx 80 Corsa" fine cotton w/ribbed tread 285 G - 10 oz., 24 mm good fast tour trainer, butyl tube. 4 pr. - \$90.50 \$23.25 pr. \$11.95 ea.

HT-GL "GTx 80 latex - latex tube holds air long periods of time and is lighter and more puncture resistant than butyl. Only 265 G, 9% oz., 24 mm. Fine cotton sidewalls, ribbed tread. A fast tour trainer. 4 pr. - \$104.95 \$26.25 pr. \$13.75 ea.

"LL 240" nylon sidewalls are as light as silk but are much more abrasion resistant - actually prevents some cuts. Latex tube prevents many punctures and holds air long periods of time. Ribbed/herringbone tread and only 240 G. (8% oz) 22 mm wide.

NATIONAL

230G 270G, 306G National Tubular Tires, butyl tube, nylon carcass. Specify: 230, 270, 300G. CP-NT-Z \$13.25 ea., \$25.50 pr.

VELOX

VE-C76 Competition 76 Rim Tape- 100% cotton. New quality permits a more efficient and longer-lasting adhesion. Tape is separated by a waxed paper lining-strip, thus avoiding sticky hands and making for easier application. No need to refrigerate before use. \$1.45 roll, enough to do 1 pair

VE-TF Clincher Rim Strip - \$1.10 a Set

GRIPFAST

Tire Levers, steel, set of 3 80¢ 8B-TL

NOTE: Once a tubular has been glued on or ridden, it can't be returned for credit.

WOLBER

WO-L "Leader" - our most popular. The fabric of this tubular is made of the same fine Egyptian cotton thread as that used in the handmade types. The hard ribbed thread is supported by an elastic rubber strip. Fitted with extra light pure gum tube. (270G) Small 24 mm section, translucent sidewalls, ea/\$12.75, pr/\$24.15, 4pr/\$88.75

WO-TC "Team Corsa" molded tubular is easy to fold for a spare. Butyl tube holds pressure for long periods. A good training tire. (270G) rib center w/mixed outer tread, ea/\$10.60, pr/\$19.95, 4pr/\$77.65

WO-TR "Tourestre Renforce" Great for year round hard use. Mixed tread (370G) butyl tube ea/\$9.85, pr/\$18.95, 4pr/\$69.95

WO-NP "Neo Pro" vulcanised tubular with the advantages (weight, responsiveness) of a high-priced handmade tubular. (252 G), 22 mm section. ea/\$13.85, pr/\$26.50

WO-LT-Z "Liberty" Tubular - The Liberty is the world's first tubeless-type tubular. It has no inner tube or stitching and is repaired from the outside. Casing is Egyptian cotton w/24 threads per cm, 21 mm section, 270G. or 300G. For Touring and Training use. \$18.50 ea.

WO-LRK "Liberty" Repair Kit - for repairing punctures from the outside. Contains: 1 tube of solution w/tightening spanner, 1 injection needle, and instruction leaflet. \$15.99 ea.

NEW WOLBER "INVULNERABLE" A STEEL RADIAL FOR YOUR BIKE - A Stainless-Steel wire mesh under the tread is designed to deflect material like glass, nails, stones. Cotton sidewalls, latex inner tube. Matte (a fine file) tread. 280G.

AVAILABLE IN MARCH

Cycle pro Tire Levers aluminum, set of 2 CP-TL \$1.99

About The New Clincher Tires

Can a tire actually be flatproof? The Carefree Bicycle Tire Company of California says yes and supports its claim with its new molded urethane tire which requires no tube. These tires will fit most domestic, imported and even Schwinn S5 and S7 rims. The ride that you may expect from these tires is, as you might guess, a little hard but surprisingly similar to that of a 90PSI high pressure clincher. Consider the fact that the road life of the Carefree tire is four times longer than conventional tires and its weight is less than a typical clincher and tube, this tire seems destined for success. The only real drawback to the new Carefree tire is the difficulty of installation. Provided with each tire is a plastic Beadloc which is inserted inside the tire and allows the tire to seat properly on the rim. The problem encountered in installation is stretching this neoprene tire far enough to completely surround the rim. It takes patience and hard work, but once done, there is no need to ever remove or install the tire again since it will never develop a flat. To take care of the unneeded valve hole, an adhesive contact seal is provided to cover the hole and protect against moisture and other debris from entering the rim.

The second new tire is the Handy Tour, a foldable clincher from IRC. This tire is similar to Michelin's Elan TS in design but uses a flexible Kevlar bead which allows the tire to be used on slightly wider 27 x 1 1/8 rims as well as the narrower 27 x 1 rims. The nylon cord casing used allows for a road life of 4000 to 5000 miles and a recommended pressure of 90 PSI. The weight of this tire, when used with a compatible tube, reflects a considerable reduction in weight over other tires and tubes of similar quality.

The next tire is a high pressure clincher from Specialized Bicycle Imports. This tire is made of double reinforced nylon cord which allows for 20% more tire life. This tire is also designed with 3 tread types-ribbed tread on the margins for better cornering, herringbone tread for better braking, and a raised center ridge for reduced rolling friction and longer wear. Also, the rubber composition is of superior quality and resists cracking as the tire ages. The Specialized Touring Tire has a suggested pressure of 95 PSI but may be inflated to as high as 130 PSI if heavy touring makes this pressure necessary.

folding a clincher

- Follow these five simple steps in properly folding a clincher tire for storage in seat pack or pannier.
- 1) Fold tire once in half (tire now forms a figure eight)
- 2) Fold one half inward, so that it meets the center of the first fold.
- 3) Draw the other loop in to match the two smaller loops you just made.
- 4) Draw these three loops together, equalizing them into one tight circle.
- 5) Bind the folded tire with tape.

clincher & tubes

WOLBER

27" x 1 1/8" TEMPORARILY OUT

High 12 mm rim

W-20" - The smallest and finest cotton cord clincher. Cotton is softer which is needed in such a high pressure tire (100lb psi). Only 3/4" (20 mm section). 700c. Sold with special tube-Both weigh only 340G. Works great with 13mm tires.

WO-W2-Z \$7.25 ea.
\$13.95 pr.

WO-T Wolber "20" Tube only - Presta \$3.25 ea.
\$5.90 pr.

NEW

SPECIALIZED BICYCLE IMPORTS

SELECTED QUALITY COMPONENTS

SB-TT-Z Specialized "Touring Tire", a high performance design places your weight directly over a raised center ridge which serves as a tough mileage band to reduce rolling friction, extend tread life and direct more of your energy into forward motion. The combined center ridge, herringbone tread and ribbed sidewalls offers responsive braking and cornering traction. 325G. 27 x 1 1/8, 27 x 1 1/4, 27 x 1 1/2. \$13.40 Pair or 700 x 28C.

NEW

SB-TU-Z Specialized TURBO-Z Tire, built to withstand the punishment of sport riding. A fine-weave nylon casing and Dupont's Kevlar bead results in a simple to mount, straight-seating tire which allows on-the-rim repairs. Kevlar fiber bead allows the tire to fold compactly under the saddle. Herringbone tread improves cornering and braking. Rib sidewalls provide extra grip in severe banking. Weight is transferred to the raised center ridge to cut rolling resistance. 195G. 700 x 25c or 27 x 1. \$12.50 EA.

SB-FTT-Z TOURING TURBO, tough cords woven into a lightweight casing, folds under saddle. Makes a dependable spare. 225G. 27 x 1 1/8 or 700 x 28c. \$12.50 EA

95¢ Pr.

BICYCLE RESEARCH

BI-TS Tire Savers, mount behind the brake and rub lightly on the tire, knocking debris off before it can puncture the tire. Use on sew-ups or clinchers. Formed stainless steel with vinyl sound absorber.

IRC

SUPPLY SUBJECT TO SUBSTITUTIONS

IR-RZ-Z IRC "Road Lite Z", 27 x 1 x 1/4 or 700C. Low profile, 90PSI. ea/\$6.75 pr/\$12.95, 4pr/\$40.95

IRC "Road Lite" Tube, super lightweight tube for use with 27 x 1 tire. IR-RZ-P IR-RZ-S ea/\$2.95, pr/\$5.65 Presta or Schrader

IR-HP "High Pressure" Gumwall, 27 x 1 1/4, recommended for longer mileage, 85PSI. Fine file tread. \$5.50 ea., \$10.20 pr.

IR-SHP "Super High Pressure" Gumwall, 27 x 1 1/8. Ribbed tread w/herringbone sides. 100PSI. A fast clincher. \$6.00 ea., \$11.90 pr.

IRC Tube, 27 x 1 1/4 (1 1/8) also fits 700c. Will handle 90PSI. ea/\$2.50 pr/\$4.70

IR-P IR-S Presta or Schrader.

NEW

IR-H-Z \$7.50 ea.

IR-HW Wider 27 x 1 1/8 x 1 1/4 \$7.50 ea.

MICHELIN

Elan

Now Double the Life 50

MI-E27 Michelin Elan, 27x1-1/8, narrow ribbed tread, 300G., 90PSI. \$6.20 ea.\$11.50 pr.

MI-E7 Michelin Elan, 700C, \$6.20, \$11.50 pr.

MI-ET Michelin Elan Tube, 27x1 also 700C. Special for Elans. Presta. \$2.80, \$5.40 pr.

MI-50 Michelin Fifty, 27x1 1/4, long distance tire, 70/85PSI, Chevron tread. \$4.95, \$9.50 pr.

MI-TS (presta) or MI-TS (schrader) Michelin Tube, 27x1 1/4 (1-1/8) also fits 700C. Handles 90PSI. \$2.10 ea., \$3.95 pr.

MI-T Translucent Clincher, 26 x 1 3/8, zz tread. \$4.85 ea. \$8.75 pr.

MI-26-65M Standard Tube, \$3.95 \$2.10 ea.

MI-TS Schrader Tube, \$3.95 \$2.10 ea.

NEW

MI-TS27 (27") or MI-TS7 (700C) Michelin Foldable Clincher, extra-narrow 90PSI tire, fiberglass bead, 185G. Special TS Tube must be used. \$7.95 ea., \$13.85 pr.

MI-TST Michelin TS Tube, for above tires. 85G. \$3.25 ea., \$5.85 pr.

NOTE: Use the Michelin TS with - Rigids 13-20, Mavic "E", Super Champion "Gentlemen".

REMA CLINCHER PATCH KIT, with super thin patches with tapered star edges, glue and plastic case.

SB-RM \$1.10

VELOX

Tresse Fond Clincher Rim Strip, for narrow rims, adhesive backed for easy installation.

VE-TF SET

NEW

NOT FOR TANDEM USE due to the extra weight.

Smoother Ride Superior Durability Longer Wear NOW 2 Sizes

Carefree

"Tunnel Cushion" Tire a polyurethane tire combining performance features of a pneumatic tire with the durability & freedom from flats of a solid tire. The design results in a combined ride quality, load capacity, lightweight & reliability unavailable till now-and no need for pressurized air-ever. Carefree can sit, unriden, for months and still be ready to go when you are, never over or underinflated. Comes w/special inner "tubing"

Specify: 27 x 1 1/4 "S" (456G, designed for narrow-13 to 16.3mm-high pressure rims) CT-TS-C \$13.50 each or 27 x 1 1/4 "X" (525G, for most popular rims-16.4 to 23mm inside) CT-TX-C \$13.50 each

Specify Color: Black or Orange

1. Use "S" tire for rims from 13mm to 16.3mm inside width.
2. Use "X" tire for rims from 16.4mm to 23mm inside width.
3. Do not mount tire on any rim under 13mm or over 23mm.

13mm MINIMUM INSIDE WIDTH

23mm MAXIMUM INSIDE WIDTH

Illustrations ARE NOT Actual Sizes

CLINCHER TIRE/RIM COMPATABILITY	RIGIDA									
	13/20	(13)	(18)	(13)	(18)	(13)	(18)	(13)	(18)	(13)
A: Recommended										
B: Will Work										
C: Dangerous										
Specify 27" or 700C										
MICHELIN	Elan	A	B	A	A	A	A	A	A	B
	Elan TS	A	B	A	A	A	A	A	A	B
	50	A	B	A	A	A	A	A	A	B
IRC	Roadlite Z	A	B	A	A	A	A	A	A	B
	Super HP	A	B	A	A	A	A	A	A	B
	Handy Tour	A	B	A	A	A	A	A	A	B
WOLBER	W-20	A	B	A	A	A	A	A	A	B
NATIONAL	Racing Extra	A	B	A	A	A	A	A	A	B
SPECIALIZED TIRE		A	B	A	A	A	A	A	A	B
CAREFREE		C	A	C	C	C	C	C	C	A

VELOX

#5 tubular repair kit

VE-N5 Complete repair kit for sew-up tires in a compact metal box. We suggest you keep a single edge razor blade in your kit to cut threads. \$1.40

floc kit

VE-FK Complete kit to repair the inner tubes of your clinchers. \$1.40

built-up wheels

Custom design your own wheels. Select any rims, spokes, hubs, even freewheels. Request any spoke pattern (Radial to cross four) or combination (Radial front - Radial left, Cross three right, rear). We will lace, true and pack your wheel in a special carton.

\$10.00 ea., \$20.00 pr. plus the cost of individual components.
Spokes are priced EACH only

Example A

Rim : Mavic Monthery Pro \$8.75
Spokes: Torrington D.B. - Radial 3.60
Hub : Pro Am sm. fl. \$17.37

Lace, True, Box: \$10.00
F - Radial
R - \$39.72

Example B (Pair)

Rims : Mavic Month Pros \$16.90 pr.
Spokes: Torrington D.B. \$7.20
Hubs : Pro Am sm. fl. \$30.75 pr.

Lace, True, Box: \$20.00
F - X1
R - X3 \$74.85 pr.

Our wheels are expertly laced and true to perfection for roundness, wobble and spoke tension. Guaranteed to be delivered in perfect condition.

With our wheels - the hubs all read from the rear and the rims read from the right. We even drill and/or chamfer the spoke holes when required - no extra charge.

Please Note: You can tell us your requirements (Touring, racing, smooth roads, rough roads; heavy rider - 200 lb; light rider - 90 lb.; want super light, want super sturdy; must have campy hubs and etc.) And we will build the wheels to best suit your needs.

Because wheels are custom built they are not available on a C.O.D. basis

Advanced money order or credit card only

**NO SHIPMENTS TO CANADA
NO RUSH ORDERS**

custom wheel order form
Attach to full size order form.

Name:	FRONT		REAR		PAIR	TOTAL
	FRONT	REAR	FRONT	REAR		
Rims :						
Spokes:						
Hubs :						
Lace - Cross, Front -						
Lace - True and Box!						
Date:						

NO SHIPPING
TO CANADA

budget wheels

Quick-Release Budget Wheels-Hand-built precision. Each wheel consists of an alloy clincher rim; alloy quick-release small flange hubs; and quality D.B. spokes.

- * Rims and hubs are light alloy to save weight.
- * Hubs are quick-release to save time and trouble.
- * We offer these wheels to save you money.

Specify Front or Rear when ordering.

PRO CLINCHER Budget Wheel, Rigida 13 x 20, Super Champion, "Gentlemen" or Mavic mod. E clincher rims, 27" or 700C; SunTour VX S.F. or Shimano 600 S.F. hubs; X4 Torrington spokes. Specify: Front or Rear

Specify: 27" or 700C

BW-PC-Z \$29.75 ea., \$55.50 pr.

TOURING CLINCHER Budget Wheel, Super Champion or Rigida rims, 27" only; SunTour VX S.F. or Shimano 600 S.F. hubs; X4 Torrington spokes. Specify: Front or Rear

BW-TC \$28.75 ea., \$51.50 pr.

**NO CHOICE ON HUBS OR RIMS.
COMPONENTS USED DEPEND
ON AVAILABLE SUPPLY.**

NEW E-Z TRUE Carry-Along Wheel Truer

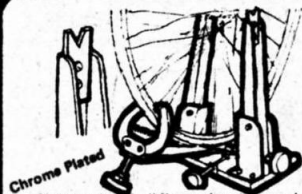
Lightweight aluminum (1/2oz.), compact size 4"x1 1/8". Carry it along to accurately true wheels anywhere-at home or on the road. Has centering marks to center fork and rim. Attaches quickly & easily to fork with the included rubber band. Includes illustrated instructions. It really works! **EZ-T \$2.40**



buzzi

WHEEL BUILDING & TRUING STAND
Mounts into a bench vise
CI-B \$28.88

"Building Bicycle Wheels" - **BO-BBW \$1.85**



Artisan wheel building and truing stand
Chrome plated steel construction. Stand is self-centering so wheel dishing is automatic. Jaws are notched for truing, (even with tire on) and roundness.
Truing stand now comes assembled **AA-TS \$84.80**

spokes

NOW MANUFACTURED BY
MONOGRAM/OHIO ROD
PRODUCTS

THE TORRINGTON COMPANY

Torrington produces excellent quality, good strength spokes with consistent cross-section, reliable thread tolerance and chrome-zinc plating. The 5/8" long nipples are about the same weight as the 7/16" long foreign-made nipples. The extra length provides more threads and ease of handling. 36 11 1/4" spokes weigh 187G. 36 Torrington nipples weigh 37G., 224G. total.

Torrington Double-butted Spokes, 14/16/14 gauge, with plated brass nipples. Specify Size: 11 1/8" to 12 1/8" by eighths.

OM-S-Z 10¢ \$7.50 per hundred Each; (in one size)



Park Professional spoke wrenches - Green for Union, Torrington and Robergel. Red for Japanese spokes.

PT-SW-G \$3.20 ea.
PT-SW-R

**IF YOU TELL US THE RIMS,
HUBS AND SPOKE CROSS
PATTERN YOU ARE USING,
WE WILL SELECT THE RIGHT
LENGTH SPOKE FOR YOU.**

SPOKE SIZING CHART

HUBS	LOW FLANGE			MED. FL.	HIGH FL.
	FRONT ONLY	BOTH	REAR ONLY	Lo (Front and Rear)	Hi (Rear)
SPOKE CROSS	Hi-E TT Pro - Am	Dura-Ace 600 Campagnolo Zeus Superbe Hi-E HD Bullseye	Pro - Am	Phil Wood Sealed Sunshine Lo (Front and Rear)	Pro - Am Sealed Sunshine Hi (Rear) Campagnolo Dura-Ace Zeus Hi-E HD
Radial & X1	292mm 11 1/2"	288mm 11 1/8"		286mm 11 1/4"	279mm 11"
X2	299mm 11 3/4"	296mm 11 5/8"	293mm 11 1/2"	291mm 11 3/8"	286mm 11 1/4"
X3	303mm 11 7/8"	301mm 11 7/8"	299mm 11 3/4"	298mm 11 3/4"	295mm 11 5/8"
X4	308mm 12 1/8"	307mm 12 1/8"	306mm 12"	306mm 12"	305mm 12"

RIM CORRECTIONS

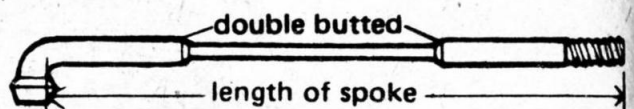
For 27"

Weinmann A-129, A-124-Add 1/4" (6mm)

Mavic Mod. E, Super Champion, Rigida-Add 1/8" (3mm)

For 700C

Weinmann A-129, A-124, Mavic Mod. E, Super Champion, Rigida-Sam



**ROBERGEL TRON
ETOILE (3 STAR)
SPOKES**

A lightweight, 15/16/15 double-butted spoke with a short nipple. Made of rust-proof stainless steel which has been highly polished. Specify Size: 289, 292, 295, 298, 302, 305, 308, 310mm.

RL-3S-Z 15¢ Ea 37/\$5.40, 74/\$10.80

15 Gauge Aluminum Alloy Nipples-37 for \$2.40 (for 3 Star spokes only)



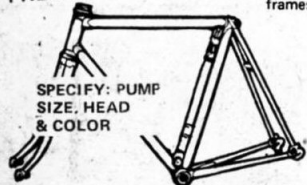
SILCA

SILCA FRAME FIT PUMP with either Silca head Presta, Campy Superlight head or Campy Metal head.

Only 149G w/plastic head, 168G w/metal head.



PRESTA ONLY



SPECIFY: PUMP
SIZE, HEAD
& COLOR

PUMP SIZING CHART

Use pump size slightly longer than frame "opening"

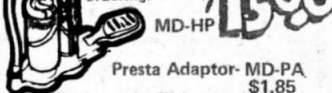
PUMP SIZE (body-cm)	frame opening "	bike frame size cm
40	15 1/2-16 1/2	18-19 47-48
44	16 1/2-17 1/2	19 1/2-20 48-51
46	17 1/2-18 1/2	20 1/2-21 49-52
48	18 1/2-19 1/2	21 1/2-22 51-53
50	19 1/2-20 1/2	22 1/2-23 53-56
52	20 1/2-21 1/2	23 1/2-24 56-58
54	21 1/2-22 1/2	24-25 58-61
56	22 1/2-23 1/2	25-26 61-63.5

Colors: Blue, Black, Silver, White, Red

SI-PS-K \$7.70 w/Silca Head
SI-PSL-K \$9.50 w/Campy SL
PCM-K \$11.50 w/Campy Metal head
SI-P-K \$6.70 w/Campy Metal head

MDI high pressure pump

20" chrome barrel.
Equalizing pressure tank with 140 lb. gauge. 22" hose with Schrader thumb lock head. Easily pumps to 140 lbs. Specify Presta or Schrader when ordering.



Presta Adaptor MD-PA \$1.85

Replacement Fitting
Hose & Schrader Head (hose can also be used with Presta Head).
MD-RH \$1.95

valve adapt

pts. Presta Schrader. 25¢



The presta valve is controlled by air pressure alone, unlike the schrader which utilizes air pressure and a spring-loaded valve. The presta-equipped tube is definitely easier to inflate. Also, the narrow stem of the presta makes it possible to fit either a small or large-hole rim (with the use of a grommet), whereas the wide schrader stem is limited to large-hole rims. Also, an adaptor may be used on a presta valve to fit a schrader pump.

bullseye pulleys



With Precision Sealed Ball Bearings

A 76-foot hillclimb is saved every 100 miles, on the average, by replacing sleeve-bearing types with BULLSEYE PULLEYS enough work to raise a 100-pound weight 122 feet. On the level, you'll be about 1685 feet ahead... almost 1/3-mile.

A comparison between hubs and pulleys puts the difference into perspective: a set of hubs will use about 2,950 foot-pounds of energy carrying 200 pounds total, every 100 miles. A pair of Bullseye Pulleys will use about 2,250; a pair of sleeve-bearing pulleys will use 14,400!

Less internal clearance and thicker flanges precisely position chain. Seals practically end maintenance, but are removable for inspection. Easy installation on any derailleur; no cones to adjust.

DU-BP \$13.25 pr.

threads

Most imported bikes use English threads. The following are the exception (usually):

Threads	Country
Italian	Italy
	Mexico
French	Some Belgium
Most new models are now coming with English	Spain
	Switzerl.

Bottom Bracket

English	1.370"x24TPI
Italian	36MMx24TPI
French	35MMx1.0MM

68MM Wide/Italian 70MM

Gear Hangers

Most gear hangers are French threaded.
10MM x 1MM

Headsets

English	1"x24TPI *
Italian	25.4MMx24TPI *
French	25MMx1MM

Hubs
English 1.370"x24TPI *
Italian 35MMx24TPI *
French 34.7MMx1MM
We just stock English

Pedals

English	9/16"x20TPI *
Italian	Same *
French	14MMx1.25MM

* Interchangeable

bearings

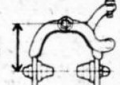
Bearing Sizes

Bearing	Use
1/8"	Freewheels
5/32"	Pedals, Headsets
3/16"	Campy Road Headset Front Hubs
7/32"	Campy Fr. Hubs
1/4"	Rear Hubs B. B.

brakes

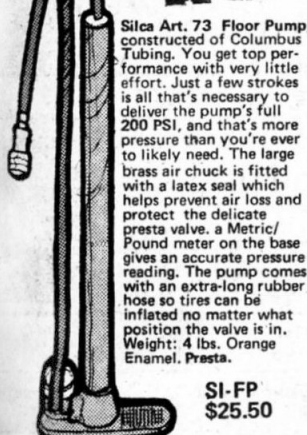
Brake Clearances

Measured from the height of the center of the mount hole straight down to the center of brake pad.



Brakes	Min.	Max.	Center
Campy Short Reach	43MM	51MM	47MM
Campy Normal	48	56	52
Campy w/drop bolt	54	62	58
Dura-Ace EX Short	39	47	43
D.A. EXS w/drop Bolt	45	53	49
Dura-Ace EX Long	49	57	53
D.A. EXL w/drop bolt	55	63	59
Dura-Ace & 600	47	57	52
D.A. & 600 w/drop bolt	53	63	58
Gran Compe Side Pull	44.5	55.5	49.5
Gran Compe Cent. Pull	47	61	54
Dia Compe 500 G	43	57	50

SILCA NEW



Silca Art. 73 Floor Pump, constructed of Columbus Tubing. You get top performance with very little effort. Just a few strokes is all that's necessary to deliver the pump's full 200 PSI, and that's more pressure than you're ever to likely need. The large brass air chuck is fitted with a latex seal which helps prevent air loss and protect the delicate presta valve. A Metric/Pound meter on the base gives an accurate pressure reading. The pump comes with an extra-long rubber hose so tires can be inflated no matter what position the valve is in. Weight: 4 lbs. Orange Enamel. Presta.

SI-FP \$25.50



Tire Gauge, accurate and shock proof, Calibrated 50 to 140 lbs. Schrader has valve tool in head. Specify

Presta or Schrader.
CP-TGP CP-TGS \$2.75

NEW BICYCLING BOOKS



Bicycling and Photography, prepared by professional photographers, it is devoted exclusively to the equipment and technical skills demanded by cycling. Sections discuss film, cameras, and lenses for the sport photographer. Written in a clear, nontechnical style, the book explains panning, day & night photography. BO-B&P

Get Fit with Bicycling, by two Doctors/expert cyclists. Offers precise medical advice about general health, training, nutrition, weight, knee problems, & choosing proper equipment. This book offers an abundance of practical advice on making cycling a safe, beneficial, and pleasant way to stay fit.

BO-GFB

Basic Riding Techniques, provides information on why many people fail to get maximum benefit and pleasure from cycling because they have not mastered some basic techniques. Chapters are devoted to balance, mount and dismount, using gears, pedal cadence, "ankling", coping with hills, rain cycling, getting down on drop bars and more. BO-BRT

Reconditioning the Bicycle, by a veteran bicycle mechanic. A step-by-step guide to overhauling the bicycle. Essentially, the bicycle is stripped to the bare frame & then the book explains disassembly, painting, reassembly and adjustments. Also explained is how to upgrade and lighten an existing bike by replacing wheels, cranksets, chains, derailleurs, pedals, etc. BO-RTB



NEW GALLI SUPER STRONG HEADSET

Aluminum alloy construction is lightweight yet superstrong, making the new Galli Headset ideal for tandems too. There are also steel inserts for the races.

Roller bearing design allows more contact than conventional ball bearings, resulting in more even weight distribution and less wear. 135G.



GA-RBH

\$32.90

Pange Levin

Levin headset, a Campy copy-quality headset, heat treated high tensile steel balls. 22.2 mm English. Silver

TN-LH \$8.79

Chrome Fork, featuring forged Cinelli-like crown, Champion butted CR-MO blades, and forged dropouts w/eyeballs, medium rake, English th., spec. frame size 19-22" or 23-25"

TN-CF-Z \$36.80

NEW HEADSETTER

HEADSET TOOL



Headset Race Installation Toolset. Simplifies headset race installation. The toolset comes with a heavy cylinder press for evenly setting the crown race into place, and a special "fitted Screw" compression device that draws both the upper and lower head tube races together with even pressure. The toolset works on frames up to 25" and comes polybagged w/ easy, illustrated instructions and other useful headset information. BW-HST \$8.50

"SENSIBLE STORAGE RACK"

The wall-hung bike rack designed to last a lifetime. Can be attached at any height and when the rack is not in use, the hooks pivot flat against the wall. Covered with a protective black vinyl coating. Could also be used as a tuning stand. Includes screws & mounting instructions. BM-WR \$9.75 pr.

Bike storage hooks. Hang your bike by the rims, up out of the way and out of reach of small children. Vinyl coated to prevent scratching. 1/4" thick. AG-SH 2 for \$1.35

LUBRI-TECH



Alumi-chrome—the ultimate in chrome treatment. This super cycle care product from Lubri-Tech is specially formulated for polishing chrome, i. steel, alum., and other metals. Removes rust and stains—won't scratch. Strong enough for the toughest jobs, yet gentle enough for sterling silver.

3oz. tube-\$8.85, 12oz.can-\$2.95

Lubri-Tech Cycle Oil, a superior lubricant designed to prevent wear and rust, keeps cycle chains and freewheel paws working longer and more efficiently. 4 oz. can

Lubri-Tech Derailleur & Chain Lubricant 1/2oz. aerosol can. Lubricates, stops squeaks, displaces water, prevents corrosion. \$1.99

P51 WATERLESS HAND CLEANER

P51 waterless hand cleaner for bicyclists removes grease, rim cement, etc. including ski wax. Unbreakable 2 oz. tube—carry with you to use after you have to replace your chain. Rub on, then wipe off with a rag. No water needed. PA-P51 85¢ ea. 3/\$2.25

GOLD SEAL HIGH SPEED SEAL BICYCLE GREASE

Gold seal grease, high-grade waterproof bicycle greases especially prepared for: head bearings, hubs, forks, cranks, & pedals. Protects against wear and corrosion. 2 oz. tube only PA-GS 69¢

open-end set

5-Pc. Open-End Wrench Set, drop forged, 8-9, 10-11, 12-13, 14-15, 16-17mm. With clamp. Guaranteed for life. FE-OES \$3.95

cone wrench set

2-Pc. Cone Wrench Set, 13-14mm, 15-16mm. With pouch. FE-CWS \$1.95

new Flickstand

Keeps it leaning. Prevents damaging falls.

To Engage: With hand-levers centered, push wire clamp into contact with front tire while rolling the bicycle backward. Clamp will snap into position.

To Disengage: Roll bike forward so wire clamp snaps out of its active position, then raise it with your fingers until it snaps into its inactive position.

Cycle pro

CP-DTK 1995



Cycle Pro Deluxe Tool Kit, includes: Third Hand brake tool; Open-end Spanner; 8-way Spoke Wrench; 3 Allen Keys-5, 6, 7mm; Tire Irons(2); Screwdriver; Crescent Wrench; 2 Hand-size Wrenches-8, 9, 10mm/11, 13, 14mm; Everything comes in a black vinyl zippered case.

BICYCLE RESEARCH

Cone Wrenches, 1095 milled steel for optimum thickness; austempered for maximum toughness & wear resistance. Ball burnished blunt edges are easier on the hands than coined edges. Durable nickel chrome plating and holes for hanging. Each wrench is hand-straightened after it is made.

13/14mm \$1.65 EA
15/16mm
14/17mm

ALLEN WRENCHES

HKC 7-Pc. Metric Allen Wrench Set, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 7mm

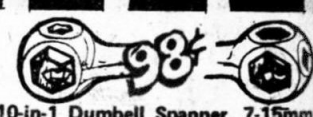
FE-AW \$1.95

Allen (Hex) Wrenches, FE-5, 5mm for Chainrings FE-6, 6mm for Derailleurs, Stems, bar-Cons, Pedals.

Cone Wrench Use Chart

Hub	Front	Rear
600	13 17*	15 15
Dura-Ace	13 13	14 14
Sunshine	14 16	16 17*
Pro Am	13 16	14 14
Campy	13 16	14 14
Nuovo Record	13 16	14 14
Nuovo Tipo	13 16	14 17*
Zeus	15 16*	14 14

*Open-end wrench will work



10-in-1 Dumbbell Spanner, 7-15mm SB-DB 98¢

Gatorade

THIRST QUENCHER



Powered. A 5% glucose mixture containing sodium, potassium, chloride and phosphate. Eight ounces per package makes one gallon. Use 3 teaspoons per 8 oz. cup; 3 tablespoons per waterbottle

1 Pack/\$1.25, 5/\$5.00 GA-O, Orange

10/\$9.50, 20/\$18.50 GA-L, Lemon-Lime

energy tips

A person exercising hard burns 300 to 600 calories per hour, or 2.8 calories per pound of body weight. To avoid fatigue, it is best that this energy be stored in the body by conditioning for several months, or replenished from eating while riding, or both.

Natural carbohydrates, such as fruits, nuts, grains, and sugar, are most quickly converted into energy. Meats, dairy products and vegetables are essential for a balanced diet, but are harder to digest. These foods should not be eaten immediately before or during competition because digestion uses up energy needed for muscular activity.

When traveling two hours or more, we suggest that the average cyclist eat and drink each hour with "lunch" in the middle of the ride. If you wait until famished or dehydrated, you will be too fatigued to replenish your energy needs. We suggest you carry plain water and powered Gatorade. Mix Gatorade by the waterbottle full as desired.

SPROCKET TOOL

BW-ST BW-2ST \$3.25 ea. \$5.95 pr.

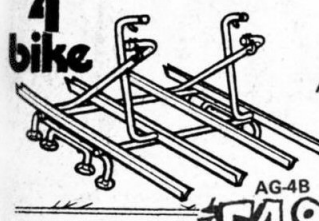
More Information on Page 9

RELIANT

bearings 50¢ PER BAG

Finest chrome steel balls "reliant" Specify size or use, Polybagged- 72 x 1/8" 54 x 5/32" 36 x 3/16" 24 x 1/4"

Bearing Use
1/8" Freewheels
5/32" Pedals, Headsets
3/16" Campy Road Headset, Front Hubs
1/4" Rear Hubs, B.B.



The redesigned Bike Porter features a new low profile, tie-down system, improved suction cups. Vinyl-coated quick clamps secure bike to carrier. Clamps remove to prevent theft. Bikes ride in tracks cushioned by their own tires. Easy loading & unloading, adjusts to all car roofs and trunks. Accepts 2 bikes w/ an add-on kit available making it a 4 bike carrier.

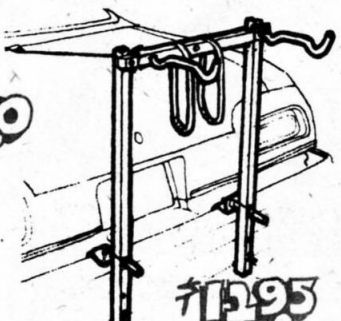
AG-1012, Two-Bike Model, 16lbs., \$32.25
AG-1014, Add-on for 4 Bikes, 11lbs., \$23.75
AG-48, Both the above, \$54.90

Replacement suction cups, specify new (as above) or old style. AG-SC 75¢ ea.
Additional wheel tracks for tandem use (not under warranty) 48" AG-TT \$6.95 ea.
(standard shipping rates apply)



Transporter includes all the features of the Bike Porter, but designed exclusively for trunk mounting. Does not convert to 4 bike. (11 lbs) AG-1010 \$24.95

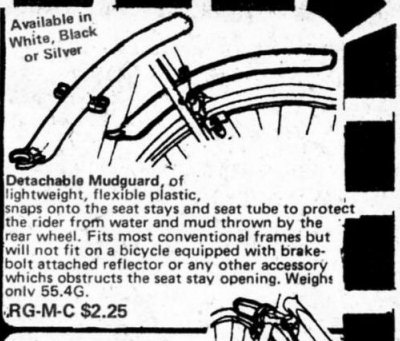
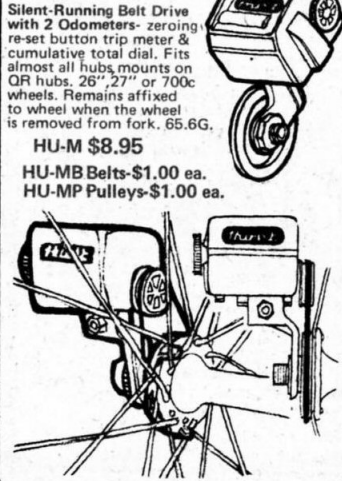
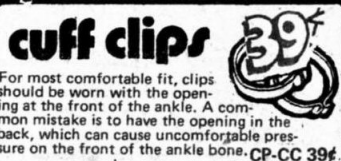
AG-RMK, Roof mount kit for transporter \$9.95

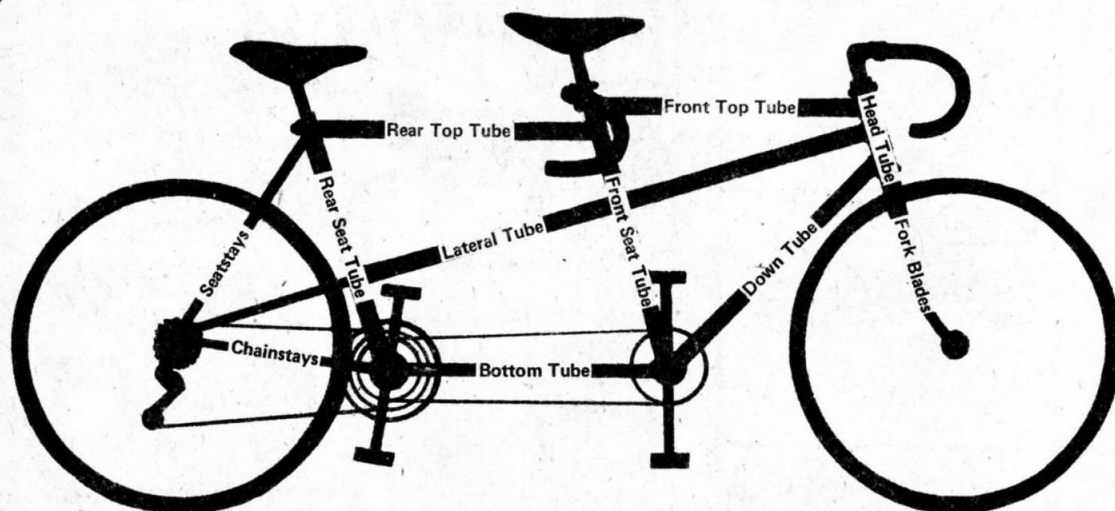


"QUICK-RELEASE" Carrier-Heavy-duty square tubular steel, double protective zinc-chromate & clear lacquer finish. Universal bumper fittings attach easily to most cars. Pre-assembled crossbar/hanger arm system means time-saving 2 bolt assembly. "Instant Release" base frame lifts off for easy storage. Posts remain in position for quick remounting. Includes tie-down and stabilizer straps. AG-QR \$12.95



Refills, Pack of 2 FC-R \$3.25





TANDEM SE SPOKEN HERE

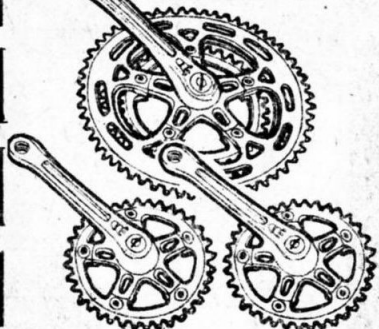


TA-CR-T
Chainrings-
26-35, \$7.00
36-48, \$13.00
49-54, \$15.00
56T, \$16.00
58T, \$19.00
60T, \$21.50
62T, \$23.50
65, 66, 68, \$37.00
70T, \$90.00

TA Triple Tandem Crankset, with crossover drive, 165 or 170mm crankarms, any combination from
TA-TC-V 27 to 54T - \$148.50
27 to 56T - \$150.50
27 to 60T - \$154.50
27 to 62T - \$159.50
27 to 68T - \$167.50
27 to 70T - \$197.50

Specify:
Inner or
Outer
Chainrings

Sugino CHAIN WHEEL



SU-MTT-V Sugino MT Triple Tandem Crankset, with crossover drive, 68mm spindle, Eng., Fr., or Ital. 171mm crankarms. 34 - 54T.

\$138.00

See Page 8 for Other Chainrings

ISHIWATA CrMo TUBE SET

Set includes everything at right plus: Mixte type side bracing, sloping tandem fork crown, Campy 1010 dropouts. (does not include brazing material)

\$189.00
IS-TT

Description	Outside Diameter	Thickness T/T'	Length	Quantity
Top Tube	28.6	1.0/0.7 DB	610mm	2pcs.
Seat Tube	28.6	1.0 PG	610	2pcs.
Down Tube	31.8	1.0 PG	610	1pc.
Head Tube	34.0	2.0 PG	200	1pc.
Chain Stays	24.0/12.0	1.0 PG	400	2pcs.
Seat Stays	16.0/10.0	0.8 PG	610	2pcs.
Fork Blades	28.0 x 20.0/14.0	1.5 PG	400	2pcs.
Column	25.4	2.7/1.6 SB	240	1pc.
Oval Bottom	49.0/32.0	1.25 PG	610	1pc.
Lateral Tube			1240	
Excentric B.B. Front Shell Set				1set
B.B. Rear Shell Set				1set
B.B. Clamp Bolts & Brazing Parts				4pcs.



Campagnolo Triple Tandem Crankset, with crossover drive, 36T bottom, any other 2 chainrings, 170mm crankarms. Choice of B.B.

CA-TTC-V \$357.86

Metz Chainring, 32T, can be substituted for Campy 36T. **SB-MC32 \$22.00**

SUPER COMPETITION CHAMPION



Clincher Rims, 16mm inside width, use with narrow HP tires. 27" or 700C, 40 or 48H.

WO-SCS-ZH \$21.90 pr.

Add \$2.00 per rim for 40 or 48H.



PRO COMPE TANDEM FREEWHEELS

For the extra strength a tandem requires. English threads, with any sprockets listed below.

ST-PCT-T \$10.50

Slide On (3) "B"
Screw On (2) "A"

Screw-On "A"
14 - 18T
Slide-On "B"
16 - 34T
(No 29, 31, 33T)

Spacers, Specify:
1st Gear (not required if 14T is used)
2nd Gear, Lowgear (2 required)

1st Gear Spacer (1)
2nd Gear (1)
Low Gear (2)

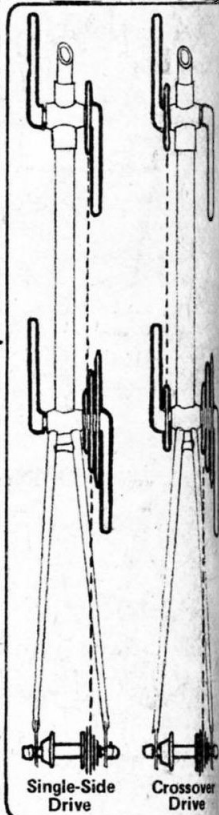
SR \$6.95

SR-ARH All-Rounder Handlebars, light alloy, for use as the tandem rear handlebars. 32mm center bulge, Diameter: 22.2mm. Raised: 48mm, Width: 508mm, Weight: 180G.



GALLET
Seat Clamp, chromed steel, adjustable. Fits plain tube seat posts.
BW-SC 75¢

RECOMMENDED BUILT WHEELS
12" Spokes (5X); Phil Wood Tandem Hubs (48H-front & rear); Weinmann A-129 or Super Champion 27" Rims.



Single-Side Drive

Crossover Drive

PIVO



Tandem Rear Handlebar Stem, w/ hex nut binder bolt.

SB-PV \$7.95

Fits front seatpost

Allen Bolts - \$2.35 ea. (est)

REG

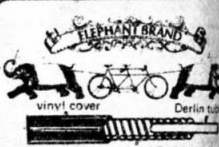


REG Seat Pillar, hardened, light weight alloy. 180mm long, 130g. Specify: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2

RG-SR-Z \$6.95

Phil Wood Child Pedaling Attachment

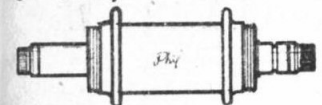
PW-CPA \$35.00



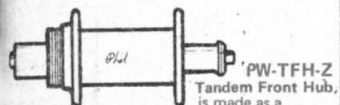
Elephant Brand Housing, minimum friction with no lubricant, super-light. Specify: Black, White, Silver, Red, Blue, Green.

EL-H-F 35¢ per foot

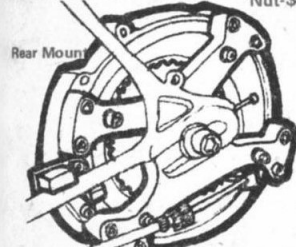
Phil Wood



W-RTH-Z Tandem Rear Hub, although recommended for use with the Phil Wood Tandem Disc Brake, this hub can be used alone. It is double-threaded to accept both a free-wheel and the Disc Brake. No QR axle. Choice of Axle Lengths: 120, 125, 130, 135, 140mm. Specify: 36, 40 or 48H. \$48.00

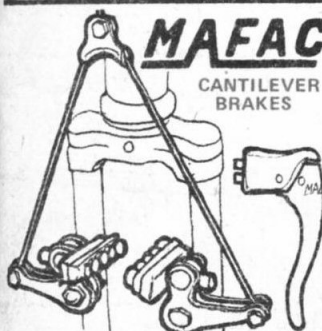


PW-TFH-Z Tandem Front Hub, is made as a bolt-on type or for use with a QR (Specify). 2 Axle Lengths: 100 or 108mm. Specify: 36, 40 or 48H. QR-\$35.00 Nut-\$42.00



Rear Mount Disc Brake, each brake is a complete hub-mounted unit, so no brackets or modifications are necessary. A quick-cable release allows the wheel to be removed without disturbing any adjustments. The brake is held onto the hub by an elastic o-ring, so no tools are needed in moving it. Any standard levers & cables can be used. Front & rear brakes are alike except for the anchor that reacts the braking torque to the chainstay (rear) or fork blade (front). The floating disc is rotated by a splined driver screwed onto the hub. Braking is insensitive to water and there's no tendency to lock. Weight: 16 oz.

PW-TDB \$131.00



Mafac Cantilever Brake Set, with Dual Cable Lever (no rubber hood on lever). MF-CB \$19.00

Dual Cable Gran Compe Drilled Levers, DC-DL \$9.25 ea



Shimano All-Rounder Touring Levers, DA-ARL \$4.95 Pair

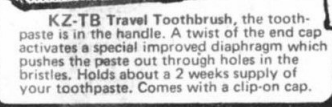
TANDEM CABLES

Deraillleur SB-TC-D \$1.80

110" Brake, SB-TC-B \$1.80



TX-PH Packet-Size Hammock, of sturdy nylon, full 20' x 7' size, rolls up into a fist-size ball. Can be carried anywhere. Supports 1/4 ton. Shapes itself around the contours of your body. Can also be used as an emergency rope, stretcher, netting, animal snare, dunk bag, off-the-ground storage, etc. \$445



KAMP-ZEEK® \$295

KZ-TB Travel Toothbrush, the toothpaste is in the handle. A twist of the end cap activates a special improved diaphragm which pushes the paste out through holes in the bristles. Holds about a 2 weeks supply of your toothpaste. Comes with a clip-on cap. \$25



TX-SD Soap Dish, long-lasting plastic container holds your bar of soap during use and then handily stores it between uses. \$25



TX-SP Salt and Pepper Shakers, black & white, sturdy plastic. Screw together for convenience. \$40



SH-DB LIMITED \$2695

SE Disc Brake, this Self-Energizing Disc Brake comes equipped with an AUTO-ADJUST Mechanism which compensates for cable stretch and pad wear so that the optimum braking force is always maintained. The brake is Self-Energization designed - that is, as braking is applied, the friction forces act through a cam surface separated by a ball bearing; the shoes move almost parallel to the disc rotation and roll up the cam making contact with the stainless steel brake disc. The Self-Energizing Mechanism amplifies the force applied at the brake lever, resulting in quick, positive braking. Total body and disc weight: 25.7 oz. Includes Steel 36H Hub.

The SE Disc Brake can be used in conjunction with the Phil Wood Tandem Rear Hub.

BIKE CAMPING ACCESSORIES



COMMUTER RAIN SUIT

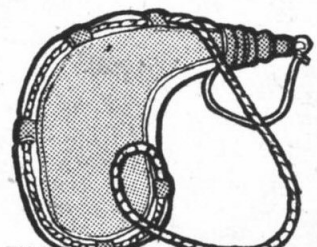
WATERPROOF 100% Nylon Taffeta Jacket, beautifully styled with fully open front zipper and zippered neck. Two zippered pockets, hood w/ drawstring but detachable with a Velcro strip. Contrast visible stripe running from collar along the outer seam of the sleeves. Zipper is the same color as the stripe. Back is vented with nylon mesh for cool comfort. Extra large cut.

Pants, straight tapered leg, extra large cut, high elastic waist. Can be worn over other clothing. Stripe which is the same color as the jacket's stripe runs on the out-seams of the legs. Rear zippered cuffs. Yellow with Navy Stripe and Zippers.

Compact to fit 8" x 5" Stuff Sack which is included. Total Weight: under 11oz.

BW-CRS-Z \$32.80

Sizes: S,M,L,XL



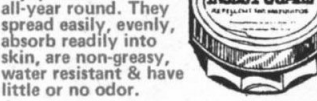
TX-B Bota Drink Bag-Suede leather-covered bag trimmed with red and brown vinyl at the edges. Latex liner causes no taste distortion. Each bag is complete with red shoulder cord. 1 1/4Qt. \$3.95



TX-WS Water Sack, lightweight, collapsible 2-gallon container. The outer sack is tough Taffeta with a 10" bartacked web handle. The replaceable inner bag is double thick polyethylene with a leak-proof rubber spigot. \$3.95



GW-MS Min-Sewing Kit, handy plastic box is only 2 1/4 x 1 5/8 x 7/8" yet contains: 10 yds. each of black and white threads plus a roll with 6 different pastel colors, thimble, needle, safety pin, spare button. \$65



INSECT GUARD

CREAMS in flat 2oz. containers, help you enjoy the outdoors all-year round. They spread easily, evenly, absorb readily into skin, are non-greasy, water resistant & have little or no odor.

\$1.75 ea. any 2/\$3.40 any 3/\$5.00

RE-SG Sun-Guard, contains PABA, screens out up to 80% of the sun's harmful ultraviolet rays, lets you tan slowly without burning.

RE-WG Wind-Guard, contains a superior moisturizer to keep skin supple even during exposure to gritty, dusty winds or drying salt air.

RE-FG Frost-Guard, serves as a protective shield by keeping in body heat, thus keeping hands, feet and body more comfortable.

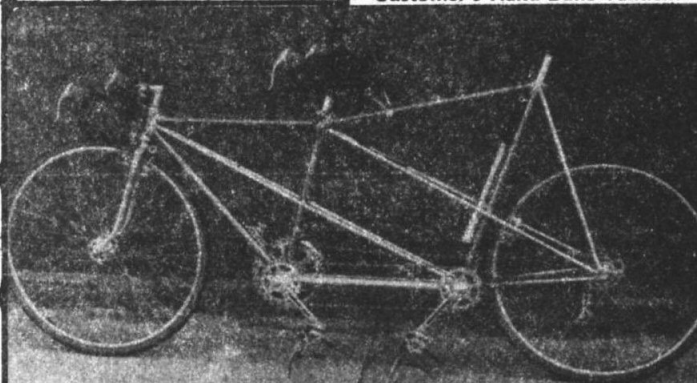
RE-IG Insect-Guard, contains the best all-purpose insect repellent, according to USDA. Effective against mosquitos, deer flies, biting midges, gnats and stable flies.

RE-TG Toxic-Guard, neutralizes the irritating organic poisons in poison oak, ivy & sumac which cause itching and swelling.

RE-LG Lip-Guard, with PABA, provides all-season lip comfort. The fine wax base resists licking-is long lasting. Soothes and protects the lips. Delicate peppermint flavor. 1/4 oz. container (more than most sticks). Attached lid.

2/\$1.75

Customer's Hand-Built Tandem



VICTORINOX+

The only original Swiss army officers knife. Since 1891, these knives have the inlaid silver shield authorized by the Swiss government.

Today, Victorinox knives are built in a modern plant utilizing the finest materials available in the world and the enduring patience of skilled Swiss workers. The Victorinox "Champion" Swiss Army knife requires 348 different operations for manufacture. After each step there is a thorough test of each operation, then the knife is submitted to a severe final examination by qualified inspectors who take pride in their work. This is why we can guarantee a Victorinox for life against any possible manufacturing defects. Your Victorinox knife will always work and will withstand the corrosive effects of tropical climates or frozen mountain temperatures.

Commander

Length: 2 1/2", includes:

1. pen blade
2. nail file
3. scissors
4. tweezers
5. toothpick

VI-CO
\$9.80

Backpacker (Climber)

Length: 3 1/2", includes:

all above, except nail file, plus:

5. large blade
6. lg. screwdriver
7. cap lifter
8. wire stripper
9. corkscrew
10. med. screwdriver
11. can opener
12. med. reamer
13. key ring

VI-BA \$18.80

Grand Prix

Length: 3 1/2", includes:

all above, except key ring & corkscrew, plus:

13. Phillips screwdriver
14. can key
15. fine screwdriver
16. nail cleaner
17. metal saw
18. metal file

VI-GP \$26.80

Champion

Length: 3 1/2", includes:

all above, except can key, plus:

20. magnifying glass
21. wood saw
22. fish scaler
23. hook disgorging
24. ruler - metric
25. ruler - U.S.

VI-CH \$33.80



The Bern belt pouch is handsomely stained in contrasting Rustet and Black tones resembling the medieval coloration of the famous Swiss city of Bern. Top grain leather. Large for the Backpacker and Gran Prix, and Champion size.

VI-B-Z \$5.50

MIRRO



5-Pc Mess Kit.

Aluminum. Includes a pot w/ lid, plate, cup and rryan.

All fit together into one compact unit.

MR-MK \$5.20

PEAK 1

NEW LIGHTER DESIGN

2785

Bike Packing Stove, fold out legs, no priming, quiet, wind resistant, fully adjustable. White gas boils 1 qt. of water in 3 min. 45 sec. Wide open burn time of 1 hr. 15 min., simmer time of 3 hrs. 30 min. Fuel capacity: 10 fl. oz. Weight w/full fuel: 39.5 oz. Dry weight: 28.5 oz. 6 1/16" x 4 5/8" BTU rating of 8500 BTUH

CM-S \$27.85



Coleman

Ditty bag to fit, rubber lined TX-DB 85¢

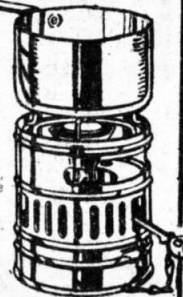
Coleman Aluminum Stove Container/Cook Kit, 10.2oz. CM-SC \$8.95

TEXSPORT

camp stove

Pak-Cook Camp Stove, Solid brass tank, valve and burner assembly, anodized aluminum cooking pot and handle, self-cleaning valve. Stove holds 1/2 pint of white gasoline. Lightweight (15oz.), compact, wind-proof.

TX-CS \$14.95



fuel bottle



ABS Fuel Bottle, made of high-impact ABS (plastic). With a screw cap and Neoprene gasket. These 1 pint bottles are lightweight (4 1/2 oz.), leakproof and noncorrosive.

TX-FB \$1.95

caricook



Pyro Cari Cook, one-pc. solid fuel cooker needs no priming, pressure or wicks. Provides instant heat for boiling or cooking. It can be set in two positions to handle different sized utensils; is lightweight and can be carried in a pocket. Measures 4 1/2" x 3 3/4" x 1 1/4". Weighs: 400G. Comes with 8 solid fuel tablets. Each tablet, easily lit with a match or lighter, will boil one litre of water. CK-PC \$3.79

Packs of extra Fuel Tablets(8)-CK-FT \$1.59



S.S. Messware, Knife, fork & spoon in case J-SSM \$1.60

G.I. Folding Can Opener, fits key chain, LJ-GI 25¢



Pak Foam

Pak Pad, Thick, convoluted foam pad. Poly-wrapped with brightly colored vinyl coated ground cover. Sewn-in tie cords. 20x54x2 1/2, 23oz. PF-PP \$7.49

Pak Pad Sak-\$3.75
Pak Mat, Open cell foam pad. Covered in either coated nylon or 65/35 top, coated nylon bottom. Insulates, packs well, unexcelled comfort. Braided tie cords. 20x48x1 1/2, 22oz. PF-PM \$9.75

Ensofoam, economy-minded, superlight closed cell polyethylene foam that offers excellent heat and insulating qualities. Non-moisture absorbent. Flexible at low temperatures. Weighs 1/3 less than Ensolite. 24" x 48" x 3/8" PK-EF \$4.49

EnsoSak, w/cord lock, 24" x 5". PF-ES \$3.75



TX-SB \$8.25

Space Blanket, 56" x 84" w/ grommets, brand developed for U.S. space program, reflects heat. Use for tent, ground cover, blanket. 12oz. multi layer

bungie cords

TX-BC-Z
Elastic Bungie cords w/plastic coated hooks, diff. colors. 3/8" diam. 12"-40", 18"-50", 24"-60", 36"-75"

SIZE - STRETCHED
12" - 18"
18" - 30"
24" - 43"
36" - 66"



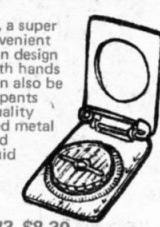
Three Way Bungie, 24" TO-BC-3 75¢

Four Way Bungie, 2720" TO-BC-4 95¢



Silva Polaris Type 7 Compass-the most popular model for hiking. Transparent plastic housing & base for easy map reading. Jeweled needle bearing, liquid filled needle housing for extreme accuracy. Base features inch and millimeter scale. Size 2" x 3" x 3/8" SK-T7 \$4.95

Silva Type 23 Compass, a super compact model for convenience and multipurpose use. Pin-on design allows hiker to keep both hands on the handlebars. It can also be conveniently carried in pants or shirt pocket. Silva quality construction with rugged metal base plate & easy-to-read black degree ring. Liquid filled & transparent for map use. Base plate folds over for use as a sun watch. 2 1/2" x 1 1/2" closed. SK-23 \$8.30



Silver lining, sleeping bag liner. This unusual non-woven nylon fabric is only 3 ounces, light as air. Compact, can't mildew. Gossamer smooth and pleasant to lie in. It can be machine washed, machine dried. 36 x 80 inches. Breathable, non-flammable PF-SL \$2.50

Quality Stuff Saks Carry stuff, store stuff. Stuff Saks keep your stuff dry. (Or wet - wet towels, wetsuits.) Stuff Sak is made of tough urethane coated nylon. Its one-piece construction is water-proof. At the opening a large cover flap and strong square-braided nylon tie cord are sewn-in. A built-in bottom grip makes handling easy. 6 sizes.

8x5" \$1.45
11x6" \$1.65
15x7" \$1.85
18x8" \$2.65
21x10" \$3.35
24x12" \$3.65

Lashing Straps, Non-stretch, braided web straps w/ rustproof buckles & tips. 1/2" wide. 2 sizes: 36" or 48" PF-LS-Z 36"-\$.50 48"-\$.60

Nylon Wallet, lightweight, durable and water resistant. The wallet has space for bills, credit cards, identification and change. Velcro closure. Open dimensions: 4 1/2" x 9". Assorted colors & designs. PF-NW \$5.45

TEXSPORT
TX-PEB \$2.80

Polarshield emergency blanket, superlight and compact (54" x 84" folds to fit in pocket). For all weather emergency protection. Works by reflecting 90% of your body heat back to you or it could reflect the sun's heat away. Weather, water and windproof.

TEXSPORT

"Bravo" Nylon Day Pack- Made of lightweight, durable nylon. Features a large main zippered chamber plus a full-size outside zipper pocket. Both have long-lasting nylon coil zippers; adj. nylon padded shoulder straps. Pack is reinforced at all stress points; leather accessory attaching patches on front & bottom; accessory gear loop. Assorted Colors 18"Hx12"Wx8"D. TX-DP \$6.95



KAMP-ZEEK
Candle Lantern just the thing for camp light and enough warmth for a tent on a cold night. One half of a pink lady candle is spring fed into a constant height, dripless collar. Burns 3 to 4 hours. (up to 8 hr. per full candle.) Has Pyrex glass heat shield. Cords loaded with candle SK-CL \$9.85

Long Burning Pink Lady Candles, cut in half to fit lantern. 1 5/8" x 3/4" 12 Full Candles (72 to 96 hrs.), KZ-PC \$2.25

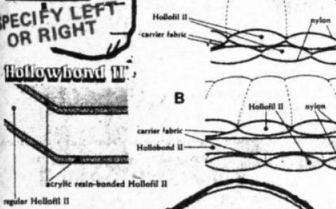
BIKE MAKE

SLEEPING BAGS BY COLD RIVER



Transamerican II, triple-layer construction (18) in its top and foot sections and double-layer offset quilting (A) on the bottom. Differentially cut shells allow maximum loft. Integral zipper draft baffle. Nylon coil YKK zipper. The sandwich layer in the top and foot is an extra-thick layer of Hollobond II for full 3-season warmth. Comes in both right or left zip models which can be zipped together. Also standard are zipper guard tape, Velcro top closure & a drawcord w/cordlock. Weight: 4 1/2 lbs. Size: 32" x 84"

CR-TA-M \$69.95 ea. \$129.95 pr



Bluegrass II, ideal moderate temperature (40°F and above) bag. Top and bottom is a quilted layer of Hollobond II covered with an additional layer of nylon. Nylon coil YKK zipper. Zips completely around the bag and opens to become a comforter. The mummy hood is Velcro fastened and is drawn up with a drawcord and cordlocked. Sewn-through weather baffle keeps drafts from entering through zipper. Weight: 3 1/2 lbs. Size: 32" x 84"



CR-BG \$47.95 ea.



Sierra Cup, stainless steel cup, a wide, flared design with a wire handle. Neither the rim or the handle will become too hot to hold if a hot liquid is being used. 2.5oz.

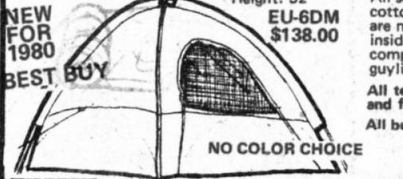
LJ-SC \$1.25



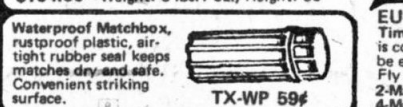
PA-PS Packet Soap, a pure white, biodegradable soap. Mild for hands and face, also for shaving. No-leak, redispensible, floating tube. 50 to 60 washings. 21.3G. 49¢ ea. 3/\$1.25



NEW FOR 1980 BEST BUY
6th Dimension, dome-shaped to provide more usable space. Hexagonal floor design. Support frame consists of solid fiberglass rods. Features Eureka's new "Twin Track" door. Large rear window. Weight: 6 lbs. 11 oz. Height: 52"



NEW FOR 1980 BEST BUY
Dimension, compact version of the 6th Dimension. Same features but has a rectangular floor design making it lighter and smaller. The dome-shape still boasts ample headroom. Weight: 6 lbs. 1 oz., Height: 50"



Waterproof Matchbox, rustproof plastic, airtight rubber seal keeps matches dry and safe. Convenient striking surface. **TX-WP 59¢**



Deluxe First Aid Kit, heavy duty canvas bag with metal snaps and Velcro closure for attaching to belt etc. Includes: Sterilized Dressing Adhesive Tape Scissors Q-Tips in test-tube Large Roll Bandage Gauze Pads Salt Tablets Band-Aids Cleansing Towellettes Mercurochrome Tips on First Aid **LJ-FA \$2.95**

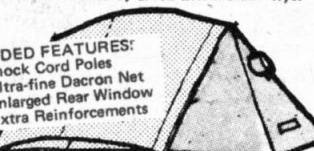


Model 765 Front-Load Backpack, of urethane-coated Cordura nylon. The large upper compartment features a full drop-down double-tipped opening for easy top to bottom access. The lower compartment is also front-loading with a curved drop-down opening. Compression straps are standard to snug the less-than-full load down. There's a generous outside compartment for stowing things you may want to get to in a hurry. Plus, 4 outside pockets, 5 leather ash patches (2 of them are extra-large), and an x-loop. Load control straps and padded waist belt with quick-release buckle. **Royal Blue. Weight: 71oz. Total Capacity: 3350 cu.in. 21 1/2" L x 15 1/2" W x 8" D Frame: external RAM-FLX**

Model 765 \$76.80 Sugg. Retail \$83.95

Eureka!

Eureka Quality Tents - The most reliable tents available today. Eureka offers a fine array of tents designed specifically for the touring biker. This line of tents emphasizes light weight, compact fold-up size and ease of assembly while affording maximum space and durability. Tent walls are constructed of fire-retardant 1.9 oz. breathable "rip-stop" nylon with urethane coated floor and fly. All seams are double-sewn with rot-resistant cotton wrapped polycore thread. Zippers are nylon self-healers. All tents have large inside-opening rear windows. Tents come complete with all bags, alloy stakes and guylines. **NOW 1 YEAR FULL WARRANTY**
All tents available with gold walls, green floor and fly; or copper walls with tan floor and fly. All but the Mt. Marcy & Nu-Lite include flies.



ADDED FEATURES:
• Shock Cord Poles
• Ultra-fine Dacron Net
• Enlarged Rear Window
• Extra Reinforcements

EU-TL-K Shown with optional vestibule Timberline, an external frame tent that is completely self supporting and can be erected on stone or frozen ground. Fly pull outs can be used. A-type door. 2-Man, 5'3" x 7'2" x 4'2", 7lb. 14oz. **\$106.00**
4-Man, 7'2" x 8'9" x 5'8", 9lb. 14oz. **\$152.00**

EU-TLV-K add a vestibule to your Timberline. Increase floor space by keeping your gear in the floorless vestibule. Also great for cooking and wind protection. fits to Timberline entrance, has vent tube and zippered flap door.
2-Man, 10 1/2 sq. ft., 1 lb., **\$27.00**
4-Man, 14 sq. ft., 1 lb. 5 oz., **\$35.00**



Nu-Lite - Eureka's most economical 2-man tent. Lightweight with storm door, 3-way zippered mosquito-net door and slide pullouts for added space. Made of flame retardant taffeta nylon in assorted colors (no color choice). No fly. Fold size: 8" dia., 17" long. 5' x 7'4", 4lb. 10 oz **EU-NL-C \$44.00**

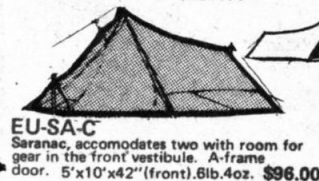


Model 660 Internal Support Pack, made of Cordura with extra-heavy K-Kote waterproofing. Leather accessory patches are on the sides, back and bottom. A heavy-duty haul strap and load control straps are provided. 2 flexible stays inside the pack fit into pockets reinforced by 1 1/2" nylon webbing. This support allows some of the weight to be transferred to the padded hip belt. The slim design allows full arm movement. Side pull tabs on the belt pull the load close to the body. The main compartment is top-loading w/drawstring & cord lock. 2 outside pockets: 1 low on the back and 1 on top w/its zipper towards the packer for easy trail access. The 2-pc. padded back panel, shoulder pads and waist belt use high-density closed cell foam. All are covered w/high count poly cotton to minimize slipping and reduce pack movement. **CM-660 \$49.80 Sugg. Retail \$56.95**

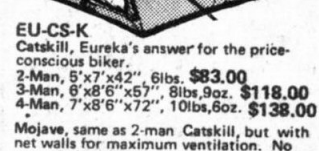
Model 660 \$49.80 Sugg. Retail \$56.95



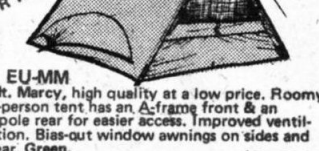
EU-AL-C Aleutian is the newest Eureka backpacking tent. It utilizes a flexible support system of fiberglass rods that are unaffected by temp. Connectors are flared for easy assembly. Features include an igloo-type entrance w/form-fitted fly (attached by shock cords), two "A" doors and netted roof vent. Good ventilation, weather protection, and totally self-supporting for use on or ground where stakes can't be used. 52" H x 96" W x 86" D; total 2076 sq. in. Total wt. 9 lbs. 12 oz. **\$228.00**



EU-SA-C Saranac, accommodates two with room for gear in the front vestibule. A-frame door. 5'x10'x42" (front). 6lb. 4oz. **\$96.00**



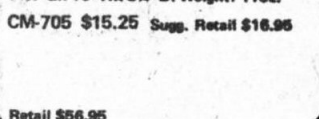
EU-CS-K Catskill, Eureka's answer for the price-conscious biker.
2-Man, 5'x7'x42", 6lbs. **\$83.00**
3-Man, 6'x8'6"x57", 8lbs. 9oz. **\$118.00**
4-Man, 7'x8'6"x72", 10lbs. 6oz. **\$138.00**



Mojae, same as 2-man Catskill, but with net walls for maximum ventilation. No rear window or door net is used **EU-M-C \$82.00**



REDESIGNED FOR 1980
EU-MM Mt. Marcy, high quality at a low price. Roomy 2-person tent has an A-frame front & an I-pole rear for easier access. Improved ventilation. Bias-cut window awnings on sides and rear. Green. 4'9"W x 7'6" L x 42" H. 4lb. 2oz. **\$68.00**



Model 705 Day Pack, great for day hikers, cycling, photography, skiing or school. There's plenty of room with a 806cu.in. inside compartment. Access is through a double-nylon zipper. One outside compartment has a 131 cu.in. capacity. The pack is made of 500 Denier Cordura nylon. Features a haul strap and padded shoulder straps. The tapered design positions the pack between the shoulder blades and low on the back for the most comfortable carrying position. It also allows free arm movement. **Royal Blue. 14 1/2" L x 13" W x 5 1/2" D. Weight: 11oz.**

CM-705 \$15.25 Sugg. Retail \$16.95

MORE BOOKS PAGE 20



THE BICYCLE, A Commuting Alternative. A definitive manual to help even the novice cyclist travel easily around town. Covers reasons for commuting, traveling safely, efficient cycling habits, on-the-road situations facing commuters, bike security, equipment, combinations with other forms of transportation, & techniques to obtain better bicycle facilities. By Fred L. Wolfe. BO-BCA \$7.60

The American Biking Atlas & Touring Guide, how to get started plus 150 vacation and weekend tours throughout all 50 states and Canada. Easy-to-follow, two-color maps, detail the main tour- and side excursions w/ points of interest, campsites, distances, country stores and bike shops. 320 perforated pages. 1974 by Sue Browder, 8" x 11" BO-ABA- \$5.65



Guide to Bicycle Trails, the two-wheelers packback pilot to tours and trails near more than 100 urban areas in the United States. Information provided on traffic conditions, road conditions, length, accommodations, seasons and points of interest. Included are clear maps and reference material. 1974, 253p. by Robert Colwell. BO-GBT \$3.80

Traveling by bike, here's how your bike can be your soul means of transportation. From commuting, to day trips, to intercontinental tours. How to set up your bike, where to go, how to do it. By the editors of Bike World. 1974, 96p. BO-TBB \$1.80



Food for fitness, (Diet for cycling) For racer or tourist, bike riding puts added stress on your body, and you need the proper diet to handle this stress. Experts in the field tell you how to achieve an optimal diet in language everyone can understand. Tells you food to take on trips and for races. By Craig Hoyt, medical editor of Bike World and others. 1975, 144p. BO-FF \$3.35

The Bicycle, a guide covering all aspects of bicycling, and a practical manual dealing with the bicycle and its maintenance. Topics discussed include: the history of the bicycle, the types of machines available today. Explanations on the function, use and care of each of the principal parts and of accessories. Fully illustrated w/drawings, color and black and white photographs. Text and art by R. John Way. 1973, 96pg. BO-TB \$2.95



The Custom Bicycle, buying, setting up and ordering a quality bike. A comprehensive guide to frames, master frame builders. Detailed info on how bikes are built and what to look for when purchasing one. Also designs and component tips from 20 top builders; fitting the bicycle to the rider. 278pg., 100 photographs and illustrations. By Michael J. Kolin and Denise M. de la Rosa. BO-TCB \$8.95



International Bicycle Touring, condenses into one source the wisdom acquired by experienced tourists during thousands of miles abroad. Includes Packing Your Bike and Learning to Compromise by James Brooks, Where To Go and Road Hazards by Joe McNeely, Passport to Freedom by Lloy Samner and Exploring Europe by the president of the International Bicycle Touring Society - Dr. Clifford Graves. 1976, 92 pp. BO-IBT \$2.80

Bicycle Track Racing, history, equipment, how to get started, where to race, training and much more. You'll find the knowledge of William Sanders, John Wilcockson, the experience of Dave Chauner, Tim Mountford and others. A section on each event. Details on match sprinting, time trialing, motor-raced racing and the six-day are examples. Also build a velodrome and current and proposed tracks in the U.S. and Canada. 1977, a full 124 pages BO-BTR \$3.80



American Bicycle Racing examines bicycle racing's illustrious past, exciting present and promising future. Interviews, discussions of road and track events, techniques, and psychology of racers. Comparison of the European race scene to American racing. 1976, 171 pg., Edited by James C. McCullagh BO-ABR \$3.80



All About Bicycle Racing The Guide To the Sport. How to train, how to compete, what equipment is needed, and everything else you'll need to know to race successfully on any level of competition. Meet America's 28 best racers. By the editors of Bike World. 1975, 96 pages, BO-AABR \$2.95

Sutherland's Handbook, 2nd Edition Here is the latest edition of the handbook that has long been recognized as the encyclopedia of bicycle mechanics across the country. It is indispensable to all of us who are seriously organized with information and specifications concerning virtually every conceivable bicycle part. Eliminate guesswork and develop a professional insight to bike work. BO-SHB



"Understanding, Maintaining and Riding THE TEN-SPEED BICYCLE" By Michael J. Kolin and Denise M. de la Rosa. The first work to be exclusively devoted to understanding, adjusting, repairing and riding the ten-speed bicycle. 1979, 296 pages. BO-TSB \$9.80



DE LONG'S GUIDE TO BICYCLES & BICYCLING Here is the most complete, most accurate, most up-to-date bicycling book available. Written by "Mr. Bicycle" himself, Fred DeLong, this guide contains virtually everything you might ever want to know about the sport and the equipment.

Newcomers as well as aficionados will find DE LONG'S GUIDE covers everything from buying a riding to repairing and storing your bicycle. The book begins with a discussion of bicycling as a sport, with hints on where to cycle, on touring, and racing, and on riding your bike to work. Complete buying information is provided to help choose the right model for you, with consideration given to features such as weight, handlebars, frames, tires and pedals. Detailed comparisons of bicycle tubings and frame constructions are included to help you select a durable sturdy model.

You'll learn how to fit your bicycle to your body dimensions so that you and your machine are a perfectly matched team. And, if you want a bicycle specifically for you, you'll want to read carefully the chapter on custom build frames.

DeLong tells you how to save time and money by performing your own inspections and doing your own minor repairs. You'll learn all the parts of your bicycle, what they are and how they function, with special emphasis on the rim and tire, important parts for gaining maximum performance. Wheel building, often a major problem, is discussed in detail.

All you need to know about the medical aspects of bicycling is provided in a special chapter, written by an M.D. And, you'll find out how to get the best maximum performance from your body in a chapter entitled "The Human Engine".

Important information is supplied on how to become a more skillful cyclist, safety precautions and clothing for riding in any weather, what to pack for touring, how to tandem, bicycling with children, and carrying and protecting your vehicle. A list bicycling societies and organizations, as well as a list of supply sources, is included.

NEW Paperback Edition-BO-D \$9.75

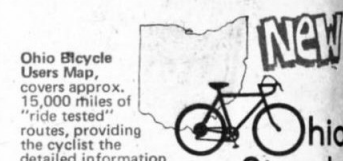
Pedal Power, explores the human potential inherent in the use of the bicycle for work. It also suggests many tasks which can effectively be done with pedal devices. One chapter gives a detailed account of the "Rodale Energy Cycle" not only a description, but also a complete set of building instruction is provided. The author also suggests a score of ways the energy cycle can be used around the house, garden, farm. 1977, 133pg., Edited by James C. McCullagh BO-PP \$4.80



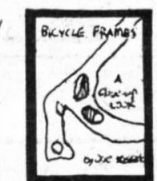
Fix Your Bicycle, Revised and updated edition. Content has been painstakingly prepared by top technical writers who are also bicycle enthusiasts. Major sections cover basic hand tools, lubrication and maintenance, tires, tubes, wheels, brakes, power train, fork, frame, accessories, gear ratios, and suggestions on choosing your next bike. The thorough, step-by-step text offers full coverage for routine maintenance, troubleshooting, repair and overhaul. Hundreds of photos, drawings and exploded views. The authors include cautioning notes where procedures are difficult, and occasionally suggest that "here's a job requiring dealer attention." 185p., 1975, by Eric Jorgensen BO-FYB \$6.80



CARDINAL TRAIL Map Booklet, detailed maps of the Cross-Ohio Bikeway extending from Richmond, Indiana to Youngstown, Ohio. Includes places to visit & services along the trail. Booklet is spiral bound and 4" x 8 1/2" to easily fit in a map case.



Ohio Bicycle Users Map, covers approx. 15,000 miles of "ride tested" routes, providing the cyclist the detailed information needed to go almost anywhere in Ohio's 88 counties, whether for an afternoon ride in the country or a bikercamping trip across the state. General info gives tips & pointers gained by cyclists through years of experience. Also includes emergency phone nos., locations of food, lodging, camping, parks, points of interest, bike shops, traffic & road conditions. Maps are 1/4" to 1 mi. scale, and are printed both sides on three 23" x 29" sheets to cover the entire state. The sheets easily fold down to fit a map case. 3 Map Set/BO \$2.50



Bicycle Frames - A close up look detailing all the secrets of making - or choosing - a good frame, but written in a language which avoids unnecessary technical complication. Learn all about the signs of a frame's quality - tubes, lugs design and unusual modifications. A chapter by Colin Laing "What Goes On In A Custom Frame Shop". A directory of U.S. frame builders. 1975, 48 pages, by Joe Kossak Bike World technical editor BO-BFC \$1.85

New edition: Protus Framebuilding Handbook, a guide for the novice bicycle frame-builder, now up to 127 pages and over 100 illustrations. Still including a discussion of design and selection of framebuilding materials. Instructions on framebuilding, which includes mitering tubes, brazing and finishing blade and stay ends as well as complete information on the preparation and painting of the frame. Now also includes chapters on tools, lugs and tandem frames, repairs, braze on fittings, and checking your frame. Also chapters by A. L. Columbo, Haden Bros., Prugnat, Reynolds and Campagnolo, 1976, BO-PFH \$6.20



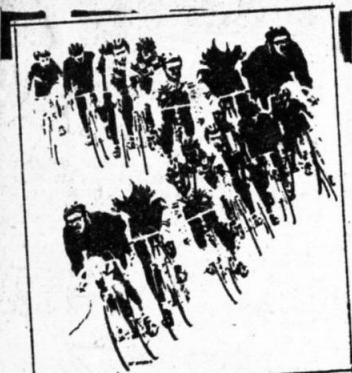
Building Bicycle Wheels, finally the book every serious biker needs. Robert Wright explains how to build your own wheels with or without the use of a truing stand. From radial to cross four - anyone can understand this easy method. Karen Lusebrink beautifully illustrates every spoke so you can see which spoke is over or under. Together they also cover components, theories, modifications, troubleshooting and repairs. 1977, 48 pages and BO-BBW \$1.85

Richard's Bicycle Book, everything necessary for zestful riding and painless maintenance. Complete and simple repair on every part of your bicycle. Fitting a bicycle to you, Riding Position, Stroke and Cadence, Accessories you do and don't need. 295 pages, 1974, By Richard Ballantine. BO-RBB \$4.80

BIKE WARE

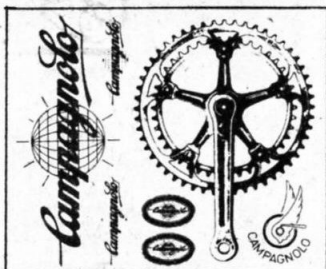
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Iron-on Transfers (Now made by Roach)
Navy blue, 11 1/2" wide, multiple designs for
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must contain at least 50% cotton to sustain
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BW-CY Cyclists

NEW



BW-CA Campy



BW-DA Dura-Ace



BW-RE 531



NEW

Bike/Ski Warehouse
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BW-ST SunTour



BW-CL Columbus



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Specify Size: S(32-34)
M(36-38)
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XL(44-46)
Bikeware T-shirts, hi-crew neck, full
cut, 50/50 Polyester/Cotton. Large
dark blue transfer on the back and a
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\$4.85 Each

Specify Transfer: Campagnolo, Dura-Ace, Reynolds 531,
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Specify Shirt Color: Powder Blue, Lt. Yellow or Lt. Beige
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Suspenders, made of
the finest U.S. stretch
fabric of 89% combed
cotton & 11% rubber.
Stitched on an exact
template to insure a
proper fit & function.
The seams are triple-
stitched at the edges
to prevent unravelling.
2" wide. Metal clips
attach to whatever
you choose to wear.
Specify: Rainbow or Orange



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Acetate, fluorescent
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to adjust size.

LJ-SV \$2.25

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For those cold weather bike rides,
Duofold Turtlenecks are available
with any of our Bike Transfers.
See pg. S9 in the Ski Section for
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we try to ship same day

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Satisfaction guaranteed return any item to us, unused, with proof of purchase, and we will gladly refund your money. Special order and close-out sale items are not included.

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- E Extension & Diameter (stems)
- F Feet & Color (housing)
- H Holes (wheels and hubs)
- J Threads, Teeth, B.B. Width, Arm Length (cranks)
- K Size & Color (clothes, frames)
- L Length (spokes)
- M Model
- T Threads (headset, B.B.) or Teeth (chainrings, sprockets)
- V Threads & Teeth (freewheel)
- Z Size (seatpost, clothes, rims, tires, toe clips, bearings and width of handlebars)

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Due to our immediate processing of orders, it is difficult to make any changes until you actually receive your order.

problems

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 - If none of the above apply—send us a copy of your order (a quick note will work). Indicate what you ordered, the approximate date, how it was ordered (mail, or phone), and how it was paid for (check, M.O. or Credit Card). Indicate raised information. With this information we can locate and process your order immediately.
- If you received your order, the first thing to do is read over your packing slip (if there is no packing slip, you will be receiving another package that will contain the slip). See if the codes indicated in the left hand column explain the situation. If not, read on.
 - Were you sent the wrong item or wrong size? Determine who has made the mistake. If we made the mistake, mail us the item, packing slip and order form, with a note indicating the problem. We will immediately ship you the correct item (or a refund) and a refund for the shipping.
 - If you ordered wrong—you may return the undamaged item to us by insured parcel post for exchange. Be sure to include re-shipping charges.
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All items in this catalog are new and guaranteed to be free of defects. Unless the defects were caused by the customer, we will replace the item. We will not be liable for consequential damages, transportation costs, or labor charges related to claims.

All orders (in stock) will be shipped the day received. If we are out of an item, and expect to receive it soon, we will hold up your order for 21 days. If the item doesn't come in, we will ship the balance of order.

Order now. Quantities limited. Due to irregular supplies, we may have to substitute merchandise of equal quality, please state substitutes in size, type or color.

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Due to sudden cost changes beyond our control, we reserve the right to change prices without notice. However, our profit margin is always kept to a minimum.

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We accept Personal Checks (under \$50), Money Order, Mastercharge or Visa. Ohio Residents add 4% tax.

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On the road or ready to leave - If you need something in a hurry that we have, just call before 3pm EST and we will ship by UPS or mail to the nearest PO, Bike Inn, Hostel or you name it. You will be billed Mastercharge, Visa or, in some cases, C.O.D. Just say "This is an emergency" and explain. We will be happy to help. If you call after 3:00 we will ship the next day. If you are not in a hurry, our service is usually just as fast.

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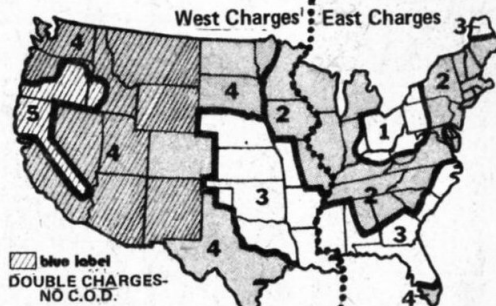
UPS delivery days

West Coast - Blue Label Service by Air in 2 days is DOUBLE CHARGES - NO C.O.D. Hawaii (Oahu) and Alaska (Anchorage area) Blue Label service by ground/air in 4 or 5 days is TRIPLE CHARGES - NO C.O.D.

In stock items will be shipped the same day and will arrive in the number of days indicated on the map. Please note that U.P.S. does not deliver on Saturday or Sun.

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No COD. Maximum size is 72" length & girth. That means no rims, wheels, rollers, frames, bug-gers, Bike Porters, or skis. Maximum weight is 35lb. All shipments go Parcel Post. No air Parcel Post. You are required to pay duty and tax on receipt. Notify Canadian Customs if you have a return to avoid double duty.

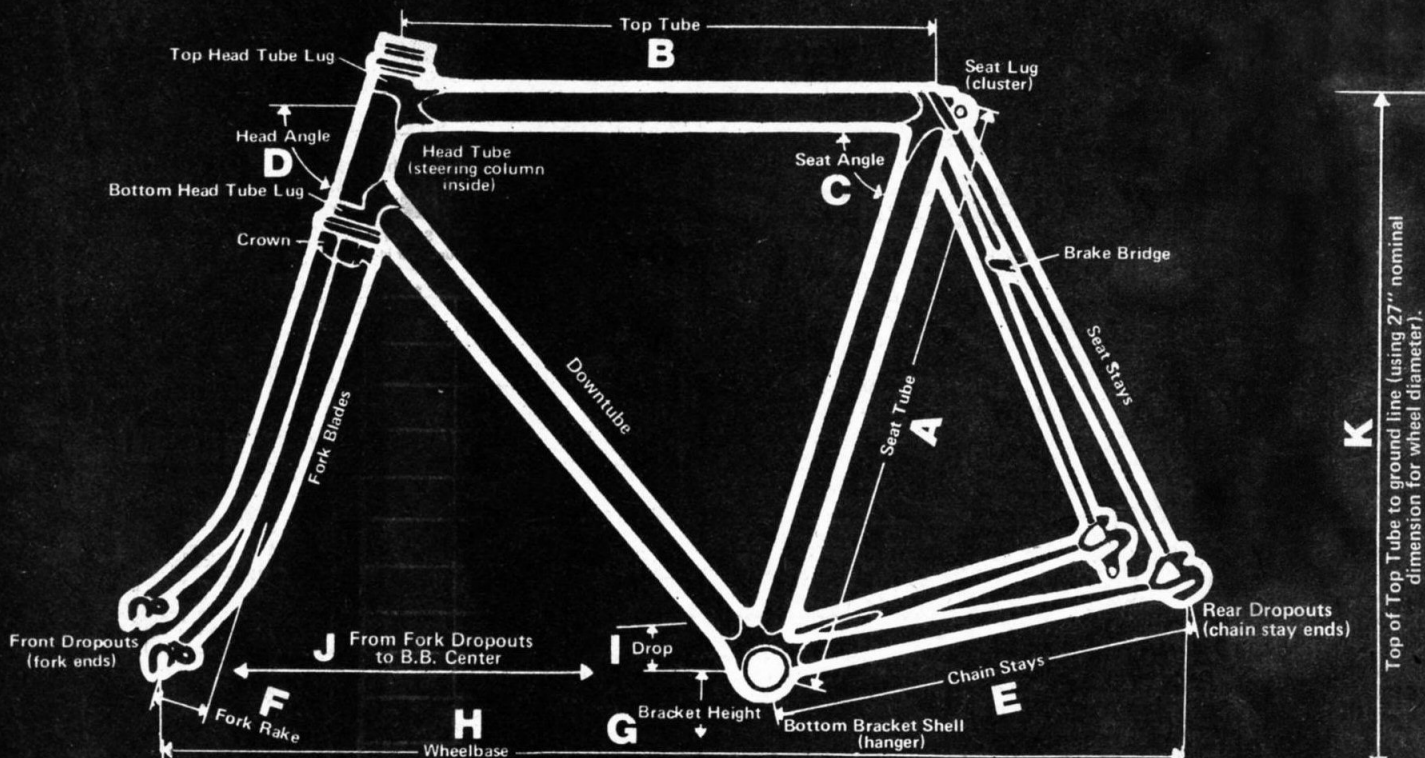


NEW ADDRESS		OLD ADDRESS	
Address	Zip	Address	Zip
City	State	City	State
Name	State	Name	State
Address	Zip	Address	Zip
City	State	City	State

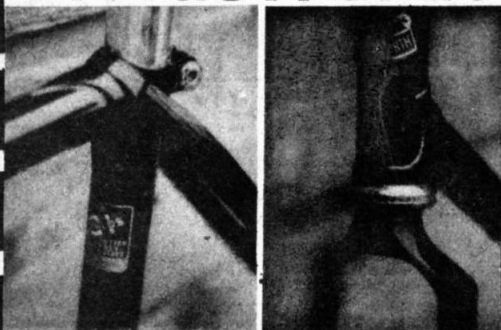
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If you would like us to mail a catalog to some of your friends, just list their names and addresses on these labels and include them with your order.

frame specifier



Holdsworth



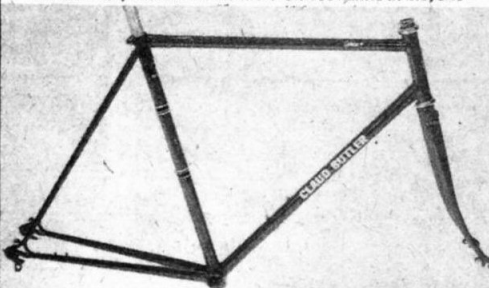
All Holdsworth Frames encompass a combination of the best features available. Each is hand-built to precise specifications to meet the exacting needs of today's rider.

"Mistral" Model, Reynolds Touring 531 Tubing throughout. Campy Dropouts with Eyelets, Campy NR Headset, Campy Seat Binder Bolt, Cinelli full-sloping crown, Prugnat lugs, fender eyelets. Clearance for 27" wheels and guard. Detailed pinstriping. Specs: 72° frame, 41 1/2" wheelbase, 1 1/4" rake, 10 1/2" BB ht. Sizes: 21 1/2", 22 1/2", 23 1/2", 24 1/2" Colors: Blue Flamboyant or Red Flamboyant

\$270.00

CLAUD BUTLER

For over 45 years one of the most famous names in bicycles



"Colstar" clubman's frame constructed of Reynolds 531 Double-Butted Tubing throughout. 73° Head, Campagnolo 1010 Fork Ends, Campy NR Headset. Short wheelbase frame will accept mudguards. Brazed-on Gear Cable Eyes and Bottle Cage Fittings. SR Royal Seat Pin.

Sizes: 22", 23", 24", 25"

Colors: Blue Flamboyant or Red Flamboyant

\$280.00



Frame and Fork
\$475.00

NISHIKI

O.N.P. Professional Frame
Constructed of Champion Pro DB lightweight tubing, it features very accurate assembly and clean brazing and lugwork. Cinelli-type front fork, Tange Levin headset, Fastback direct seatstay.

Color: Champagne.
Sizes: 520, 540, 560, 580, 600, 620, 640mm.

DUE IN MARCH

Pogliaghi

FRAMES—\$370.00

COMING SOON

CINELLI

COMPLETE TANDEM AND BICYCLES, full Campagnolo
Prices Available on Request

COLNAGO

COMPLETE TANDEM AND MIXTE BICYCLES, full Campy
Request Current Prices

BENOTTO

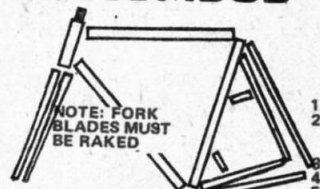
FRAMES & COMPLETE BIKES
Full Campy—Due in Mid-February

frame kits

Please order any frame kits or parts on our parts order form. (forward section)
 Proteus Frame building book - see book sect.
 Bike Frames - A close-up look - see book sect.
 Practice Frame Kit, includes:
 one lug, one Reynolds tube, one drop-out,
 one stay or blade, 3 sticks of brass,
 this is charged at cost - PR-PFK \$9.00



FRAME KIT COLUMBUS



NOTE: FORK BLADES MUST BE RAKED



Columbus SP Frame Kit. Includes:
 Columbus Tubing, SP (large enough for a 25 1/2" frame); Prugnat SP Lug Set (with cut out); Vagner EYDL, Columbus; Gargette E 88, English; Campagnolo 1010 Drop outs; Cinelli Braze-on Kit CI-BP (22 pieces).

Does not include Brazing Rod.

\$9895
 CU-SP



tubing

- PR-TT Top Tube, PR-DT Downtube or PR-ST Seat tube - \$7.50 ea.
- PR-CS Chainstay, PR-SS Seatstay - \$12.00 pr.
- PR-FB Fork Blades (specify rake) \$12.00 pr.
- PR-HT Head tube \$5.00
- PR-SC Steering Column, normal reach, English \$5.18
- PR-BT Reynolds Bridge Tube, 8", \$2.50

lugs



LUGS: (sets of 3)

- 1. PR-S Prugnat Ital. Long Point 'S' \$7.00
- 2. PR-S4 Prugnat 'S4' (cut-out) \$7.50
- 3. PR-D Prugnat 'D' Series \$5.25
- PR-BB Gargette BB Shell, Eng., 68mm \$5.25

braze-ons



- 1. PR-SSR Seatstay Reinforcement \$1.65 pr.
- 2. TA-BCM TA Star pre-threaded Bottle Cage Mounts and Allen key attaching bolts \$2.25 pr.
- 3. PR-TE Top Eyes for Eng. wrap-around 75¢ pr.
- 4. PR-BBR Brake Bridge Reinforcement \$2.60
- 5. PR-FTR Fork Tab Reinforcement \$1.25 pr.
- 6. PR-BTG Brake/Transmission Guide \$3.75
- 7. PR-CC Campy Controls 1013/5, 6 \$10.95 pr.
- 8. PR-AF Allen Fastback for seat clusters. Uses Campy 10mm Seatpost Bolt \$3.25
- 9. PR-CAS Campy Allen Seatpost Bolt, 10mm \$3.25
- 10. PR-TG Bottom Bracket Tunnel Guides \$2.75 pr.
- 11. PR-CCE Campy Chainstay Eye 621 \$1.25
- 12. PR-CDB Campy Derailleur Control Poses for downtube \$2.20

CINELLI BRAZE-ONS



- 15. Brake bridge
- 16. Brake tunnel
- 17. Allen key bolt
- 18. Chain stay bridge reinforcement, Pr.
- 19. Brake bridge reinforcement, Pr.
- 20. Seat lug conjunctions, Pr.
- 21. Allen key bolt for front brake
- 22. Shifter boss w/washer, Pr.
- 23. Brake/Transmission guide (3)
- 24. Front der. cable runner
- 25. Rear der. cable runner
- 26. Bottle braze-on
- 27. Chain stay eye

COMPLETE PACKAGE Above 15-27

CI-BRZ **\$1190**

crowns



- 1. CI-FS Cinelli Full-sloping for Reynolds \$4.95
- 2. VA-FD Vagner Flat Diamond " " \$5.25

drop-outs

- PR-CR Campy Road with Eyelets \$15.75
- PR-CRF Campy Road Fork only, \$7.75; Rear only \$8.00
- PR-CT Campy Track \$12.00
- PR-CV Campy Vertical \$10.95
- PR-CSR Campy Sm. Road w/out Eyelets \$14.50
- PR-STSD SunTour SD w/eyelets, non-adjustable, \$4.95

Frame Sizing

Inches	19	19.5	20	20.5	20.8	21	21.2	21.5							
Cms.	48	49.5	51	52	53	53.4	54	54.6							
Inches	21.6	22	22.5	22.8	23	23.2	23.5	23.6	24	24.4					
Cms.	55	56	57	58	58.4	59	59.7	60	61	62					
Inches	24.5	24.8	25	25.2	25.5	25.6	26	26.3	26.5	26.8	27				
Cms.	62.2	63	63.5	64	64.8	65	66	67	67.3	68	68.6				

frames

CHARTS REFER TO COVER ILLUSTRATION

Colnago is used by more winning racers than any other make in the world.

Colnago "Super" Frame, Columbus 510 double-butted Cro-Mo "SL" tubing. All tubes are mitered and pre-fitted with hand-placed pins in the tubes and lugs before being silver soldered to assure perfect alignment.



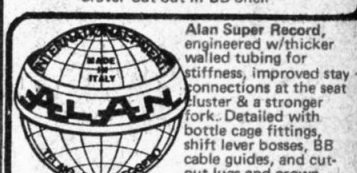
Fluted Seat stay



Chromed investment cast Crown. 2-point fork rake. Braze-on Campy Lever Bosses. Colnago Clover Lugs. Top tube Cable Guides.



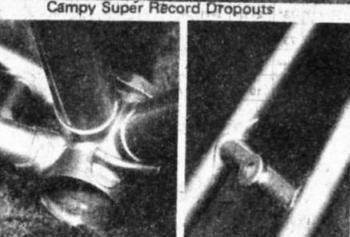
Clover Cut-out in BB Shell



Alan Super Record, engineered w/thicker walled tubing for stiffness, improved stay connections at the seat cluster & a stronger fork. Detailed with bottle cage fittings, shift lever bosses, BB cable guides, and cut-out lugs and crown. Beautiful deep satin-pearl anodized finish.



Campy Super Record Dropouts



Investment cast BB Shell, Campy Cable Guides

Brake Bridge Reinforcement



Colors: Medium Blue, Black with Yellow Accents, or Yellow with Black Accents.

Sizes: 19 1/2-25 1/2

Finish is oven-baked multi-stage flambouyant or metallic.

Standards:

Italian threaded. 27.2mm Seat Tube 70mm BB.

Fork: 22.2mm inside diameter. Milled for Campy, OMAS or Colnago headset.

Dropout Width: F/100mm, R/125mm (fits 5 or 6 spd.)

\$380.00



Engraved Head Lugs

Sleek Rear Dropouts



Cinelli Stem-like Anodized finish

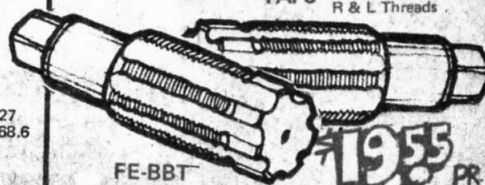
Color: Anod. silver tubes w/Duraluminum lugs
 Weight: 4 1/2 lbs. (mid size)
 Tube Thickness: top & head tube - 1.5
 Headset: Italian or English (not included)
 Bottom Bracket: Ital., 36 x 24F x 70
 Seat Post: 25mm
 Seat Bolt: Included
 Fork Rake: 1 1/8"
 Frame Angle: 74°
 Lugs: Duraluminum-threaded and all joinings are sealed in epoxy. Engraved head tube

Sizes: 19" to 25"

\$420.00

BOTTOM BRACKET TAPS

1 3/8" x 24 R & L Threads



FE-BBT

\$1955 PR



Ray Gasiorowski, finalist in the 1952 Olympics Road Race and was on the American Team in the Tour of Mexico. He raced in Canada and represented the Army in Europe in a racing career from 1946 to 1952. After 20 years with manufacturers Gasiorowski went into his own cycle business in 1973. Now produces over 5 different models.

ALL Romic frames, except Model X100, come in half sizes unless requested.



Model X-100 Custom Touring or Racing Frame Set, standard features: Reynolds 531 DB Tubing, Hayden Concorde 303 cut-out Lugs, Cinelli Semi-sloping Crown, Cinelli cast BB Shell, Semi-wraparound Seat Stays, Reinforced Chain Stay & Seat Stay Brake Bridges, Campy Dropouts, Braze-on Rear Chain Stay Stop & BB Guides, Campy Record Headset, Nickle-plated Front & Rear Dropouts. Bridges set for either sew-ups or clinchers using normal reach brakes. Sizes 18 1/2 thru 27". All other options available per option list.

\$329.95*

TOURING

A	C	D	B	I	E	F	K	H
27	73"	73"	24	2-11/16	17 1/4	2 1/4	36-3/8	42 1/4
26 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	35-7/8	42 1/4
25 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	34-7/8	42 1/4
24 1/2	73"	73"	23 1/2	2-11/16	17 1/4	2 1/4	33-7/8	41 1/4
23 1/2	73"	73"	22-3/8	2-11/16	17 1/4	2 1/4	33	40 1/4
22 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	32-1/8	39 1/4
21 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	31-1/8	39 1/4
20 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	30 1/4	39 1/4
19 1/2	73"	73"	21 1/2	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4
18 1/2	74"	71"	19 1/2	2	17 1/4	2-3/8	29-1/8	39-1/8

ROAD RACING

A	C	D	B	I	E	F	K	H
27	74"	73"	23 1/2	2-11/16	16 1/4	2	36 1/4	41 1/4
26 1/2	74"	73"	23 1/2	2-11/16	16 1/4	2	36	41 1/4
25 1/2	74"	73"	23 1/2	2-11/16	16 1/4	2	35	41 1/4
24 1/2	74"	73"	22-3/8	2-11/16	16 1/4	2	34	40-1/8
23 1/2	74"	73"	21 1/2	2-11/16	16 1/4	2	33-1/8	39
22 1/2	74"	73"	21 1/2	2-11/16	16 1/4	2	32 1/4	38 1/4
21 1/2	74"	73"	21 1/2	2-11/16	16 1/4	2	31 1/4	38 1/4
20 1/2	74"	73"	21 1/2	2-11/16	16 1/4	2	30-3/8	38 1/4
19 1/2	74"	73"	21 1/2	2 1/4	16 1/4	2	29 1/4	38 1/4
18 1/2	74"	71"	19 1/2	2	16 1/4	2	29-1/8	37-7/8

TRACK

A	C	D	B	I	E	F	K	H
27	75"	75"	23	2 1/4	16	1 1/2	37	40
26 1/2	75"	75"	22 1/2	2 1/4	16	1 1/2	36 1/2	39 1/2
25 1/2	75"	75"	22	2 1/4	16	1 1/2	35-1/8	39
24 1/2	75"	75"	21 1/2	2 1/4	16	1 1/2	34-5/8	38 1/2
23 1/2	75"	75"	21 1/4	2 1/4	16	1 1/2	33-7/8	38 1/2
22 1/2	75"	75"	21	2 1/4	16	1 1/2	32 3/4	38
21 1/2	75"	75"	20 3/4	2 1/4	16	1 1/2	31 3/4	37-5/8
20 1/2	75"	75"	20 1/2	2 1/4	16	1 1/2	30 3/4	37-3/8
19 1/2	75"	75"	20 1/4	2 1/4	16	1 1/2	29 3/4	37-1/8
18 1/2								

Model 100 Pro Tour Frame Set, full Reynolds 531 DB Tubing, Hayden Concorde 303 cut-out Lugs, Cinelli semi-sloping Crown, Gargotte Super BB Shell, English Flat Plate Seat Stays, Campy Dropouts w/eyelets, Braze-on Rear Chain Stay Stop & BB Guides, Dura Ace Headset installed. Bridges set for either sew-ups or clinchers using normal reach brakes. Nickel-plated front & rear Dropouts. Sizes 18 1/2 thru 27".

\$289.95*

A	C	D	B	I	E	F	K	H
27	73"	73"	24	2-11/16	17 1/4	2 1/4	36-3/8	42 1/4
26 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	35-7/8	42 1/4
25 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	34-7/8	42 1/4
24 1/2	73"	73"	23 1/2	2-11/16	17 1/4	2 1/4	33-7/8	41 1/4
23 1/2	73"	73"	22-3/8	2-11/16	17 1/4	2 1/4	33	40 1/4
22 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	32-1/8	39 1/4
21 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	31-1/8	39 1/4
20 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	30 1/4	39 1/4
19 1/2	73"	73"	21 1/2	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4
18 1/2	74"	71"	19 1/2	2	17 1/4	2-3/8	29-1/8	39-3/8

Model 75 Racing Frame Set, full Champion Chrome-Moly DB Tubing, Cinelli Frame Lugs, Gargotte Super BB Shell, English Flat Plate Seat Stays, Campy Dropouts w/out eyelets, Braze-on Rear Chain Stay Stops & BB Guides, Tange Falcon Headset, Vagner Flat Crown. Bridges & front fork set for sew-ups only. Sizes 19 1/2 thru 24 1/2".

\$189.95* No Options Available

ROAD RACING

A	C	D	B	I	E	F	K	H
27								
26 1/2								
25 1/2								
24 1/2	73"	73"	22-3/8	2-11/16	17	2	33-7/8	39-7/8
23 1/2	73"	73"	21 1/2	2-11/16	17	2	33	39-1/8
22 1/2	73"	73"	21 1/2	2-11/16	17	2	32-1/8	39
21 1/2	73"	73"	21 1/2	2-11/16	17	2	31-1/8	39
20 1/2	73"	73"	21 1/2	2-11/16	17	2	30 1/4	39
19 1/2	73"	73"	21 1/2	2 1/4	17	2	29-5/8	39
18 1/2								

TRACK RACING

A	C	D	B	I	E	F	K	H
27								
26 1/2								
25 1/2								
24 1/2	75"	75"	21 1/2	2 1/4	16	1 1/2	34-5/8	38 1/2
23 1/2	75"	75"	21 1/4	2 1/4	16	1 1/2	33-7/8	38 1/2
22 1/2	75"	75"	21	2 1/4	16	1 1/2	32 3/4	38
21 1/2	75"	75"	20 3/4	2 1/4	16	1 1/2	31 3/4	37-5/8
20 1/2	75"	75"	20 1/2	2 1/4	16	1 1/2	30 3/4	37-3/8
19 1/2	75"	75"	20 1/4	2 1/4	16	1 1/2	29 3/4	37-1/8
18 1/2								

Model 25 Sport Touring Frame, Reynolds 531 DB Main Frame Tubes, Champion Chrome-Moly Rear Triangle & Front Fork, Nervex Lugs with Nervex Crown, Gargotte Super BB, English Flat Plate Seat Stays, Campy Dropouts w/eyelets, Braze-on Rear Chain Stay Stop & BB Guides, Tange Falcon Headset. Bridges set for sew-ups & clinchers with normal reach brakes. Sizes 19 1/2 thru 27". **\$205.95*** No Options Available

A	C	D	B	I	E	F	K	H
27	73"	73"	24	2-11/16	17 1/4	2 1/4	36-3/8	42 1/4
26 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	35-7/8	42 1/4
25 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	34-7/8	42 1/4
24 1/2	73"	73"	23 1/2	2-11/16	17 1/4	2 1/4	33-7/8	41 1/4
23 1/2	73"	73"	22-3/8	2-11/16	17 1/4	2 1/4	33	40 1/4
22 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	32-1/8	39 1/4
21 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	31-1/8	39 1/4
20 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	30 1/4	39 1/4
19 1/2	73"	73"	21 1/2	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4
18 1/2	74"	71"	19 1/2	2	17 1/4	2 1/4	29-1/8	39-3/8

The Model 25 Sport Touring Frame is available in only the following colors: Black, Red Enamel, Dark Blue Enamel, Light Blue Enamel and Yellow.

Model 50-1 Touring Frame Set, Champion DB Chrome-Moly Tubing, Cinelli Long Point Lugs, Standard Gargotte BB Shell, Vagner Flat Front Crown, Italian Fluted Seat Stays, Braze-on Rear Chain Stay stop & BB Guides, Braze-on Water Bottle Bosses on Downtube, Tange Falcon Headset installed. Bridges set for sew-ups and clinchers with normal reach brakes. Sizes 19 thru 25".

No Options Available. Colors: Black, Red Enamel, Dark Blue Enamel, Light Blue Enamel & Yellow.

\$175.95*

A	C	D	B	I	E	F	K	H
27								
26								
25	72"	72"	23 1/2	2-11/16	17 1/4	2 1/4	34-3/8	42
24	72"	72"	22 1/2	2-11/16	17 1/4	2 1/4	33 1/4	41
23	72"	72"	22 1/4	2-11/16	17 1/4	2 1/4	32-5/8	41
22	72"	72"	22 1/4	2-11/16	17 1/4	2 1/4	31 1/4	41
21	72"	72"	21 1/2	2-11/16	17 1/4	2 1/4	30-7/8	40
20	72"	72"	21 1/4	2-11/16	17 1/4	2 1/4	30	40
19	74"	72"	20-3/8	2 1/4	17 1/4	2 1/4	29-5/8	39 1/2
18								

Standard Colors Available: Flam red, Flam blue, quick silver, black, burgundy, yellow, red or blue enamel and orange.

Reynolds frames larger than 25 1/2" are made with 18/20 gauge seat masts rather than the normal 21/24 gauge. Track frames can be supplied with the 18/20 gauge seat mast in all sizes if requested. English threading is standard with French or Italian available on request.

Seat Post Size: 26.8

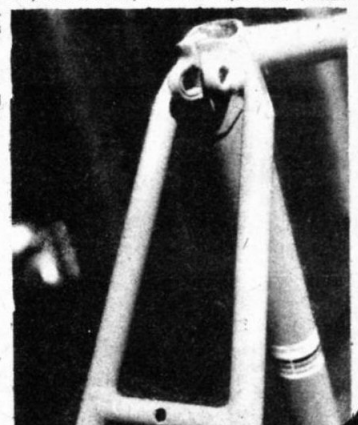
All Romic Model no. 100 and X-100 frame sets are silver brazed throughout with the exception of the exterior brazes such as the fork ends, bridges, etc.

Romic frames in 27" size - \$13.00 additional. Smallest size available for 27" wheels - 18 1/2" in standard frames.

Track and road frames available for 24" wheels.

Options:

- Deviations from stock (other than X-100) - \$13.00
- Cinelli Full-Sloping Crown - \$19.50
- Semi-sloping Crown - \$15.60
- Fast Back Rear Stays - \$19.50
- Semi-wraparound Stays - \$19.50
- Campagnolo Dropouts - \$11.70
- Campy Vertical Dropouts - \$9.10
- Shimano Vertical Dropouts - \$10.40
- Campy BB Cable Guides - (2) - \$7.80
- Rear Derailleur Cable Stop - \$3.90
- Brake Cable Stop (2) - \$7.80
- Brake Cable Guides (2) - \$11.70
- Braze-on for Campy Shifters (2) - \$7.80
- Fork Tab Reinforcements - \$7.80
- Brake Bridge Reinforcements - \$7.80
- Center-pull Brake Support - \$11.70
- Rear Carrier Mounts (2) - \$9.75
- Waterbottle Bosses (2) - \$6.50
- Nervex Lugs - \$8.45
- French or Italian Bottom Bracket - \$19.50
- Columbus Tubing - \$22.75
- Repaint Frame and Fork - \$45.50
- Paint in Two Colors - \$15.60
- Pin Stripping - \$9.75
- Chrome Plate Fork Ends - \$16.25
- Chrome Plate Stays and Dropouts - \$29.25
- Chrome Plate and Full Polish, Entire - \$123.50
- Replacement Fork (painted) - \$27.05
- Replacement Reynolds Fork (painted) - \$44.20



Series 3

sierrantoure

The 1st in a Family of Fine Affordable Frames from Bike Warehouse

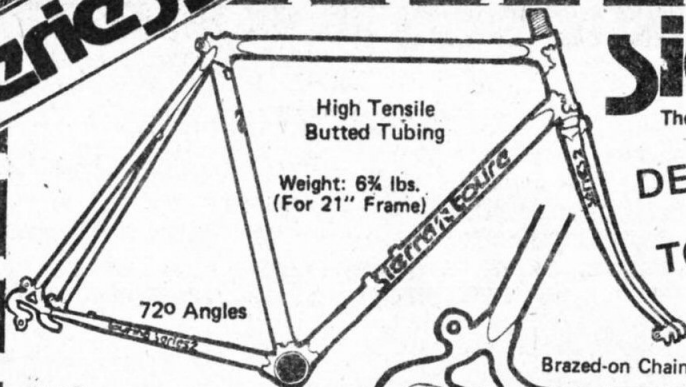
DESIGNED
FOR
TOURING

THE BEST VALUE IN AMERICA FOR
AN AMERICAN-CRAFTED FRAME

\$135.00 FREE UPS SHIPPING

BW-ST3-K

When You Buy the Frame - You get 10% OFF
Any Components You Buy with it Excluding Campy.



High Tensile
Butted Tubing

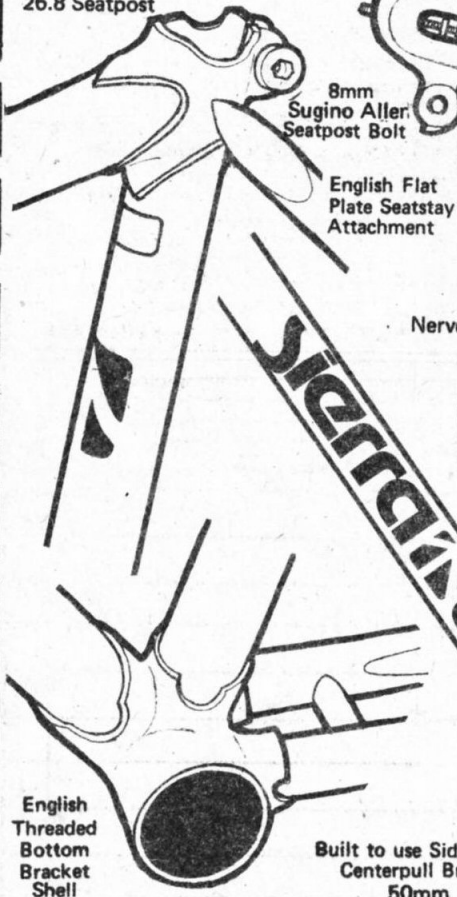
Weight: 6 1/2 lbs.
(For 21" Frame)

72° Angles

26.8 Seatpost

Brazed-on Chainstay Eye

touring series 3



8mm
Sugino Aller
Seatpost Bolt

English Flat
Plate Seatstay
Attachment

Nervex Scalloped Lugs

Milled for Campy type,
Shimano 66 EX,
Dura-Ace EX or Galli
Headsets

2 1/2" Fork Rake

Brazed-on
Waterbottle
Mounts on
Downtube

Built to use Sidepull or
Centerpull Brakes
50mm

Fork End
Eyelets

Semi-Sloping Crown

17 1/4" Rear Chainstay
(clearance for 27" gumwalls)

COLOR: BLUE ENAMEL
GOLD DECALS INCLUDED
FOR YOUR OWN APPLICATION

SIZES: 19", 21", 23", 25"

A simple method to determine
the correct size frame is to
measure from the crotch to the
floor in stocking feet -
then subtract 9 inches. So:

for 28" frame size is 19"
for 30" frame size is 21"
for 32" frame size is 23"
for 34" frame size is 25"



EXPECTED
ARRIVAL
MID-MARCH

sierrantoure Series 3 TANDEM

*Made in Japan *Ishiwata Tubing
*Lateral Side Bracing *Brazed-on
Waterbottle Mounts *Front Eccentric
Bottom Bracket *Set up to use
Cantilever Brakes *Mens/Mens Model
*Sizes: 19/22, 21/23, 22/24, 21/24, 19/25
Standard Color: Candy Midnight Blue
Approx. \$640.00

Series 3 sierrantoure

MADE IN AMERICA

Cinelli Long-Point Lugs

Chrome-Moly Double-
Butted Tubing

Italian Fluted Seatstay

Brazed-on Chainstay Eye

Brazed-on BB
Tunnel Guides

English Gargette
Bottom Bracket

Campy 1010B Dropouts
w/Eyelets, Chrome-Plated

BW-ST5-K

\$210.00 FREE UPS SHIPPING

Colors: Flam. Blue or Flam. Red

Gold Decals included for application

Sizes: 19", 21", 23", 25"

Waterbottle Brazed-on
Mounts

Clearance for 27" tires
w/normal reach brakes

Vagner
Crown

