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TOLL FREE 1-800-321-2474

21

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
☐ ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐

C Color
 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)

When Ordering, you must provide all the information indicated by the last letter in the Catalog Number. Explanations of the Info Code Letters are shown here.

NOTICE: MAILING LISTS

Occasionally we make our customer list of names and addresses available to carefully screened companies and organizations whose products and activities might interest you. If you prefer NOT to receive such mailings, please send a copy of your mailing label and advise us to that effect.

gift certificate

A perfect gift for the biker for Birthday, Graduation or any occasion. Just call or send Check, M.O., Mastercard or Visa numbers for any amount. Certificates can be redeemed at any time.

10% RESTOCKING FEE

may be applied to merchandise returned without Satisfactory Explanation and a Copy of the Original Order.

SATISFACTION GUARANTEED

Return any item to us within 10 days, unused, with proof of purchase and we will gladly refund your money. Special Order and Close-out Items are not included.

ordering by phone 

"No Wait" Calling (216)542-3671

TOLL FREE
1-800-321-2474

We will assist you in ordering and ship your order Mastercard or Visa the same day or the next morning (may be longer during peak periods).

NO COLLECT CALLS, PLEASE

Calls to our Customer Service Dept. MUST be made between 8am - 4pm

NO C.O.D. accepted

The cost to us because of refused shipments has become too great.



(Now MasterCard)



(BankAmericard)

GUARANTEED LOWEST PRICES

If any IN-STOCK ITEM is sold for less in any current national catalog or publication, we will sell that item for 5¢ under their price. IDENTIFY ITEM AND PUBLICATION.

changes

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

problems

AND WHAT TO DO

We are sorry but a small percent of our orders do go astray. Here's what you can do to help us correct the situation.

Do Not Call! It will take a while to find the problem and the call will be expensive.

- If you have not received your order at all (after a reasonable amount of time)
 - Did you send a personal check over \$50? We have to hold your order for three weeks for the check to clear the bank.
 - Did you include your complete address? We get several orders a day that do not have an address on their order. Addresses on the envelopes or checks do not reach the shipping department.
 - Did you order a special order item? A few items (as listed) in the catalog are special order and hold up the entire order two to three weeks.
 - 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).
 - 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.
 - If we omitted an item you paid for or if you got an additional item or a complete package that you didn't order: send back the package, packing slip and your order form with a note indicating the problem. We will immediately send you what you want.
 - If your order was damaged in shipment, accept the order, but keep the damaged packing carton and damaged items for local inspection. Send us the packing slip and your order form with a note indicating the damage. We will immediately send you replacement items at no extra charge and will file the damage report ourselves.

our policy

All items in this catalog are new & 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) we try to ship 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.

On orders marked RUSH in-stock items only will be shipped.

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.

'store' policy

We must follow our MAIL ORDER format in the store so that we can GUARANTEE the LOWEST PRICES in the country—

- Please take a catalog, clipboard & order form.
- Read the catalog!!! Most questions can be answered by reading the item descriptions. We cannot answer questions or demonstrate merchandise.
- Completely fill out your order form (except totals). A \$5 minimum and 5% sales tax applies to all orders.
- Ring service bell to have your order filled.

mail order payment

We accept Personal Checks (under \$50), Money Order, Mastercard or Visa. Ohio Residents add 5% Tax.

Personal check orders over \$50 will be held for 3 weeks to insure that it has cleared the bank.

bike emergency service

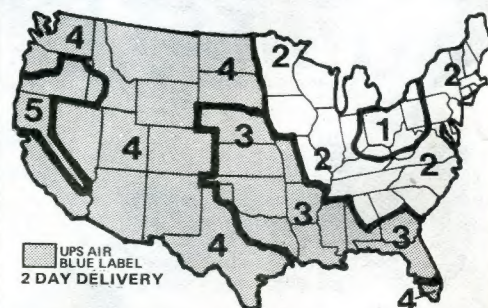
On the road or ready to leave - If you need something in a hurry that we have, just call before 3 PM EST and we will ship by UPS or mail to the nearest P.O., Bike Inn, Hostel or you name it. You will be billed Mastercard or Visa. Just say "This is an Emergency" and explain. We will be happy to help. 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.

"No Wait" Calling (216)542-3671

UPS delivery days

We try to ship in-stock items the same day and should arrive in the number of days indicated on the map. Please note that UPS does not deliver on Saturday or Sunday.

Hawaii (Oahu) and Alaska (Anchorage area) Blue Label Service by Ground/Air in 4 or 5 days



CANADA

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.

Name	Address	City	State	Zip

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.

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

CHANGE OF ADDRESS—Moving soon? To receive a current catalog at your new address—fill out the 2 labels above, with the new address and 1 w/your old address. Include both labels w/your order.



arni



jerry



tim



karen



maria



tom



ken



bill



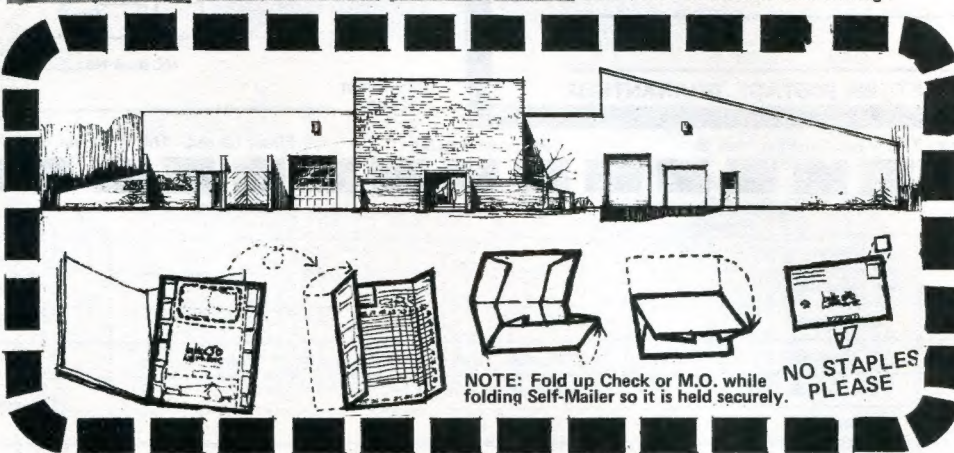
sally



jeanette

1. Have you specified color/sizes/threads?
2. Have you signed & enclosed check or money order?
3. Have shipping charges been included?
4. Is your name, & address (including zip) clear and complete?
5. Are substitutes listed?

CATALOG 21-This catalog will be out of date with Catalog 22 - Please send 50¢ (to cover postage and handling) for the next catalog; or send \$1.25 for the next four catalogs.



5. Fold Under & Seal

Place Stamp Here

21

**bike
warehouse**

215 Main St., P.O. Box 290,
New Middletown, Ohio 44442

RUSH-CATALOG ORDER

Tape Here Only

No Tape

4. Fold Under

No Tape



tresa



dave



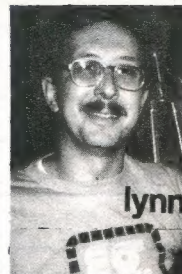
sue



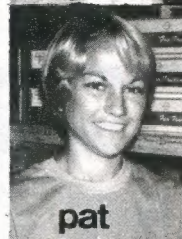
judy



tom



lynn



pat



lori



dan



lori



terry



debi

bike/ti warehouse
215 Main Street
New Middletown, Ohio
44442



OH 489-526

Day Phone _____ Eve. Phone _____ of _____

Name _____

Address _____

City _____ State _____ Zip _____

FORWARDING AND RETURN POSTAGE GUARANTEED

21

Date / /

ordered by

Name _____

Address _____

City _____ State _____ Zip _____

What other items should we handle?

☐ MasterCard ☐ Visa ☐ Check or M.O.

CREDIT SLIP BALANCE DUE F C

MC Bank No. _____ Good Thru _____

Cardholder Signature _____

Please fill out - This is your mailing label

PLEASE PRINT

Please fill out - This is for our records

DO NOT FILL IN SHADED AREAS

BIKE OR PARTS ORDER FORM—Please Fill Out & Circle Correct Information

Qty. Stock No. Description Price Each Total Price

Front Derailleur:

Rear Derailleur:

Shift Levers:

Clips/Hardware:

Crankset:

Eng. Fr. Ital. Axle: 68 70 Arm Length: Teeth:

Pedals:

Color Finish: Silver Black

Toe Clips:

Size: Sm Med Lg XLg

Toe Straps:

Color:

Brakes:

Reach: Short Long X-Long

Cable Housing:

Color:

Cables:

Type: Brake Derailleur

Hubs:

Flange: Small Large 5spd 6spd Spoke Holes (if not 36):

Rims:

Tubular Clincher Size (if clincher): Holes (if not 36):

Spokes:

Gauge: Plain Double Butted Length:

Wheel Building Charge

Tires:

Tubular Clincher Size & Width (if clincher):

Freewheel:

Size Cogs (teeth): Threads:

Chain:

Headset:

Threads: Eng. Fr. Ital.

Stem:

Diameter: 22.2 22.0 .833 Extension:

Handlebar:

Width:

Handlebar Tape:

Color:

Handlebar Plugs:

Color:

Seatpost:

Diameter:

Saddle:

Finish: Smooth Textured Color:

Pump:

Presta Schrader Length: Color: Head:

Waterbottle:

Color:

Bottle Cage:

Material: Alloy Steel Color: Silver Black

Frameset:

Size: Color:

Payment by ☐ Personal Check (Up to \$50 Only) ☐ M.O. ☐ MasterCard ☐ Visa Fill Out Above Form Date

Merchandise Total

CREDIT SLIP

REFUND CHECK

BALANCE DUE

☐ RUSH Ship Only In Stock Items

Please use this slip toward your next purchase

Authorization

ENCLOSED

Instead of delaying your order, we have enclosed it with a balance due. Please remit immediately.

21

Sales Tax 5% (Ohio only)

Shipping- See Below

Credit Slip (subtract) Enclosed

total

B Back Ordered.....Delivery is expected soon
D Discontinued.....Please order a substitute
S Substitute.....Merchandise of equal quality is enclosed
X Out-of-Stock.....We don't expect replacement for a month. Please reorder then.
C Cancelled.....This item was not supplied because you did not include enough money. Please reorder.

W Merchandise is being Drop-Shipped from another warehouse and will come directly to you.

✓ SHIPPED and is in your Order

In case of any problems—
DO NOT CALL
Return this copy with an
explanation of problem

B	F	C
---	---	---

shipping
CHARGES ESTIMATED

Amount of Order

Handling and UPS Shipping
1-5 Day Delivery

Alaska
Canada
Hawaii

UPS AIR
Shaded Map Area
2 Day Delivery
Handling Incl.

UP TO \$15.00 \$1.75
\$15.01 - \$50.00 \$2.75
OVER \$50.00 \$3.75

Charged by Weight Per Box
Examples—
2LB - \$3.85
10LB - \$11.85
25LB - \$26.95

For Overseas Shipments: Check with your postal authorities for shipping rates, then send an overestimated amount. NO AIRMAIL OVERSEAS

PLEASE ORDER BY STOCK NUMBER, DESCRIPTION AND PRICE

bike/ti warehouse
215 Main Street
New Middletown, Ohio
44442

LBS OH **489-526**

Day Phone _____ Eve. Phone _____ of _____

Name _____

Address _____

City _____ State _____ Zip _____

FORWARDING AND RETURN POSTAGE GUARANTEED

21

Date / /

ordered by

Name _____

Address _____

City _____ State _____ Zip _____

MOSE TOTAL	REFD. CHECK	What other items should we handle?	
CREDIT SLIP	BALANCE DUE	F	C

☐ MasterCard ☐ Visa ☐ Check or M.O.

MC Bank No. _____ Good Thru /

Cardholder Signature _____

Please fill out - This is your mailing label

PLEASE PRINT

Please fill out - This is for our records

DO NOT FILL IN SHADED AREAS

SELF-MAILED -
See Steps 1 thru 5 On Reverse

PLEASE SPECIFY SUBSTITUTES
(Especially if your order is small)

Qty.	Stock No.	Description	Size Color	sub 1	sub 2	Price Each	Total Price
------	-----------	-------------	------------	-------	-------	------------	-------------

I WOULD BE INTERESTED TO SEE RACQUETBALL EQUIPMENT INCLUDED IN YOUR CATALOG

Please send me your next four catalogs for \$1.25 (Outside U.S.A. - \$2.00) as they are published

\$1.25

← Extra catalogs for my friends (one comes with order) free

Payment by ☐ Personal Check (Up to \$50 Only) ☐ M.O. ☐ Visa ☐ Mastercard Fill Out Above Form Date / /

Merchandise Total

CREDIT SLIP

REFUND CHECK

BALANCE DUE

☐ RUSH Ship Only In Stock Items

Sales Tax 5% (Ohio only)

Shipping - See Below

Credit Slip (Subtract)

total

Please use this slip toward your next purchase

Authorization

ENCLOSED

Instead of delaying your order, we have enclosed it with a balance due. Please remit immediately.

21

IN CASE OF ANY PROBLEMS—DO NOT CALL—RETURN THIS COPY WITH AN EXPLANATION OF YOUR PROBLEM

B Back Ordered... Delivery is expected soon

D Discontinued... Please order a substitute

S Substitute... Merchandise of equal quality is enclosed

X Out-of-Stock... We don't expect replacement for a month. Please reorder then.

C Cancelled... This item was not supplied because you did not include enough money. Please reorder.

W... Merchandise is being Drop-Shipped from another warehouse and will come directly to you

☒ Shipped and is in your Order

B F C

shipping

CHARGES ESTIMATED

Amount of Order	Handling and UPS Shipping 1-5 Day Delivery
UP TO \$15.00	\$1.75
\$15.01 - \$50.00	\$2.75
OVER \$50.00	\$3.75

Alaska
Canada
Hawaii

\$3.75

\$5.75

\$7.75+

UPS AIR Shaded Map Area 2 Day Delivery Handling Incl.

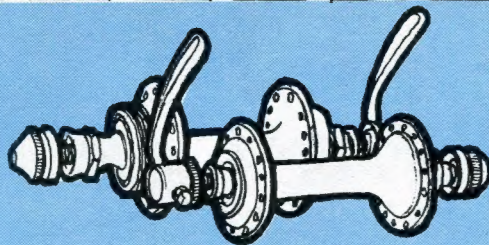
Charged by Weight Per Box Examples:
2LB - \$3.85
10LB - \$11.85
25LB - \$26.95

For Overseas Shipments: Please check with your postal authorities for shipping rates, then send an overestimated amount.
NO AIRMAIL OVERSEAS

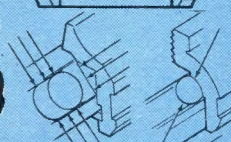
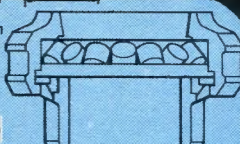
5

PLEASE ORDER BY STOCK NUMBER, DESCRIPTION AND PRICE

Diagram shows position of Model II's Multidensity Sole Laminates in relation to cyclist's skeletal structure.



Internal diagram of the Model III Cylindrical Roller-bearing Headset.



Cutaway of the Model III shows how each cylindrical roller-bearing provides a full line of support.

Cutaway of a standard headset with ball bearings providing only one contact point on any given race.

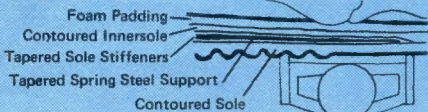
Model III Sealed Headset, a new design in sealed bearings allows the bearing to simultaneously withstand the heavy radial and lateral loads which headsets receive. The Model III's sealed, cylindrical roller-bearings are an advantage over standard ball bearings through increased area contact. This feature makes the Model III Headset much stronger than any other. Installation of this lightweight aluminum headset is simple and maintenance is a thing of the past. Anodized silver finish. 145G. Guaranteed for the life of the bike if properly installed. Specify: English, French or Italian.

AV-SH-T \$59.85



Model II Cycle-Touring Shoe, the culmination of features taken from the finest athletic and cycling shoe designs. Essential for comfortable and efficient pedaling whether you intend to bike to work or tour the entire continent. Ideal for pleasurable walking, also.

The greatest problem facing the cyclist who wears tennis or athletic shoes comes from a flexible sole which provides insufficient support under the ball of the foot, promoting excessive foot flex and painful twisting. The Model II's Multidensity Sole, formed of tapered spring steel and fiber laminates, insures comfort by displacing the pressure around the ball of the foot over a greater area.



Avocet has built in all the safety & pedaling efficiency of a traditional cleated shoe. The forward area of the molded sole features specially angled pedal channels that position the ball of the foot directly over the pedal axle. The shape of the channels provides a far better grip on the pedal than an all-purpose shoe.

A new raised-cushion heel on the Model II provides absolute walking comfort to the cyclist while working or hiking. The inner sole of the Model II is shaped and contoured to provide luxurious surrounding comfort for the widest of feet all day long—both on and off the bike.

The upper portion of the Model II Cycle-Touring Shoe is constructed of an ultra-lightweight nylon fabric—a durable solution to proper ventilation. Protection against toe clip and strap wear is provided by a reinforcement of top quality black suede leather. Extra-long tongue.

Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13 AV-S-Z \$32.85 pr.

Model I Small Flange Hubs, for the cyclist who prefers to maintain his own equipment. This hub features traditional adjustable cones and Avocet press-fits hardened steel bearing races that are precision-ground. Model I Hubs come with chromed steel quick-release skewers. 36 Hole. 5-speed

AV-HS \$44.59 pr.

Model II Sealed Small Flange Hubs, this single-piece, small flange hub made from cold-forged aluminum is unsurpassed for its strength and beauty. The Model II is designed with adjustable, precision sealed bearings that require little if any maintenance. Cone bearing races are machine-ground and polished to a mirror finish. Lightweight alloy Quick-release skewers with aluminum skewer heads. 36 Hole. Specify: 5-speed or 6-speed Rear Hubs.

AV-SHS-Z \$69.69 pr.



The Avocet Saddle Design System, now, every aspect of the cyclist's pelvic structure gets the support it needs. Varying thicknesses of the molded nylon shell disperse the pressure of the rider's bodyweight over a greater area than with conventional saddles. As the pelvic bones contact the saddle, the padded bumps are displaced

and the pressure points (arrows) are relieved. The thinned nylon shell regions below the padded bumps give in a downward direction, thus, distributing support around the pelvic contact points. The padded bumps and thinned nylon shell combine to provide maximum comfort. The lowered area between the bumps prevents irritation in the crotch area.



Mens Model I Saddle, features a softer nylon shell and a thicker, softer (less-dense) polyurethane padding. This is an ideal design for the beginner & intermediate cyclists. Smooth Black.

AV-M1 Mens Model 1, \$21.75

Mens Model II Saddle, designed for the more experienced racer or tourist who desires a firmer nylon shell and pad for optimum efficiency during extended riding. Smooth Black.

AV-M2 Mens Model 2, \$28.75



Avocet has taken into account the differences in width and construction between the mens pelvic structure and the womens, by designing Model I & Model II Saddles specifically for women. They feature a broader nylon shell and a repositioning of the saddles' molded anatomic pads. Both models are Smooth Black.

AV-W1 Womens Model 1, \$21.75

AV-W2 Womens Model 2, \$28.75

THE WORLD'S FIRST CHINA BICYCLE TOURS



CHINA, unsurpassed in its dimensions, scope, and history, is just emerging as one of the world's great travel destinations. Now, for the first time ever, you can see China on close, personal terms, and travel as most people in China now travel—at a relaxed pace that will let you absorb the beauty of this extraordinary country and mix in with the special lifestyle of its people. CHINA BICYCLE TOURS, an exclusive program officially authorized by the All-China Youth Federation of the People's Republic of China, offers individuals of all ages the first chance to travel through China by bicycle and at costs far below the previous norm for China travel.

Departing on a wide choice of dates throughout the year, CHINA BICYCLE TOURS will cycle through the countryside, communes, and villages of south China. The lush, subtropical setting affords a favorable climate year-round, and offers visitors a rich array of sites from ancient and contemporary China. Hotel accommodations en route feature modern facilities in a traditional Chinese guesthouse setting—often surrounded by gardens, lakes, and pagodas, and invariably set in the midst of a town or village that welcomes exploration. Meals will include grand Chinese banquets, traditional Buddhist vegetarian fare, and picnics. Often, we'll join local people for eating and socializing.

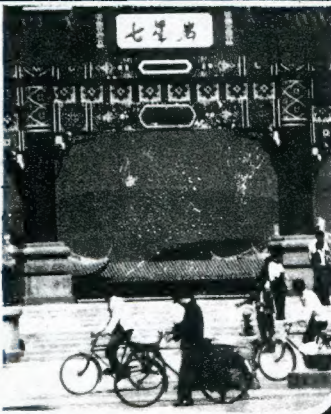
All tours will be accompanied in China by bilingual Chinese guides, and will be led from their points of origin by experienced bicycle tour leaders (in most cases professional leaders affiliated with American Youth Hostels).

The CHINA BICYCLE TOUR program for 1981 is the successful culmination of years of careful planning and experience in China travel. Participants can look forward to a learning experience that will broaden and enrich their lives in ways that few other group travel offerings can match. We believe there's no better way to see China than as part of a China Bicycle Tour.

About CHINA PASSAGE: The staff of China Passage has been organizing and leading specialized China tours since the opening of China tourism in 1977. China Passage is associated with Eurasia Press, the world's largest publisher of guides to China (including *The China Guidebook* and *Encyclopedia of China Today*).

We'll look forward to having you join us—on the road to China.

ASK FOR INFORMATION FLYER WITH YOUR ORDER



"No Wait" Calling (216) 542-3671 TOLL FREE 1-800-321-2474

Bike Warehouse Touring Jersey, 100% Durae Cotton. Short sleeve. One button 1 1/2" placket. Medium-sized collar. Double-rib knit sleeves and collar. 3 rear pockets and double-layered for strength and to prevent sagging. Chest stripe design consists of 6 mini-stripes. Color: Royal Blue body, Green collar, sleeves and placket w/Royal stripe, Red, Yellow & Green chest stripes. Sizes: XS,S,M,L,XL

CC-TJ-Z \$21.90



bike warehouse

Bike Warehouse Wool Jersey, 100% Wool, maximum comfort in hot or cold weather. Raglan-style short sleeves with double-rib knit cuffs. High, double-rib knit collar with zipper. 3 rear pockets are double-layered for strength. Double-chest stripe. Color: Royal Blue body with Yellow sleeves and stripes. Sizes: XS,S,M,L,XL

CC-WJ-Z \$31.75



Bike Warehouse Cotton Jersey, 100% cotton. Short sleeves. High, double-rib knit collar. Rib knit cuffs. 3 rear pockets are double-layered for strength. 3-color stripe on collar & cuffs matches chest stripes. Specify Color: Grey body w/ Yellow, Royal, Red stripes; or Red body w/ Yellow, Green, Royal stripes. Sizes: XS,S,M,L,XL

CC-CJ-K \$21.80



bike warehouse

Tights, full length legs with a chamois insert so they can be worn with or without shorts. Elastic cuffs and elastic arch straps for a perfect fit. Makes a great warm-up outfit when worn with a Bike Warehouse Jersey. Navy Blue. Sizes: S,M,L,XL

BW-TGS-Z \$24.50

We think we have the ideal material for biking shorts and tights. Made from a combination of Cotton for softness and perspiration absorption, Dacron for strength & abrasive durability and Spandex with a four-way stretch for movement comfort. Reinforced zig-zag stitching. Pocket is reinforced all the way to the waist (no more torn corners). Pull cord waist (no more too tight or too loose elastic). Cord pull area is reinforced with chamois. Reverse pear-shaped chamois is extra-high in the back and specially-treated to stay soft longer even after repeated washings.



BW-SHR-Z \$18.80

Shorts, perfect for touring, racing or occasional riding. BLACK. Sizes: S,M,L,XL

Standard Shorts, NOW 2-Way Stretch, Double-Knit. Polyester outside for wear & Cotton inside for comfort. Great for race or Touring. Sizes: XS,S,M,L,XL

CB-SS-Z \$18.80



Carolo BICYCLEWEAR Shorts are made from a special blend of Cotton/Polyester which retains its shape and new look after other materials have worn out. The chamois insert prevents chafing and if the simple washing instructions 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.

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



SUPERWASH

Cycling Shorts, made of ultra-soft, "no-itch" 100% Merino Wool for comfort and wear. Wool regulates your body temperature by absorbing moisture, avoiding that clammy feeling, even when wet, for year 'round comfort. Constructed to last—they're double-seamed to prevent splitting. Chamois crotch liner. Convenient small rear back pocket. SUPERWASH Merino Wool fabric does not retain a perspiration odor or a perspiration stain. SUPERWASH means that these shorts are the easiest to care for and still maintain their original shape—just toss them into the washer and dryer and they're good as new. Color: Black only. Sizes: XS,S,M,ML,L,XL

CB-WS-Z \$33.95

XS/28-30 ML/34-36
S/30-32 L/36-38
M/32-34 XL/40-42

Rainbow Stripes



Bike Warehouse Cap, 100% Cotton. Orange with Black. BW-CAP \$2.25



Campagnolo Cap, 100% Cotton. Orange with Black. CA-CAP \$3.45



Colnago Cap, 100% Cotton. Blue/White/Yellow. CO-CAP \$3.45



Shimano Aero Cap, 50/50 cotton/polyester. White w/Blue lettering. Multi-blue stripe. SH-CAP \$3.45



TI Reynolds Cap, 50/50 cotton/polyester. Yellow w/Black lettering. Multi-blue stripe. TI-CAP \$3.45



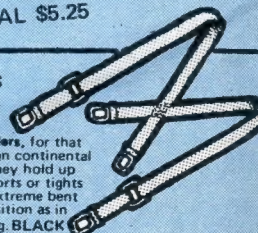
Bike Warehouse T-Shirt, high-crow neck, full cut. 50/50 Polyester/Cotton. Large brown and orange transfer on back & a small transfer on the front. Shirt Color: Powder Blue, Light Yellow, Lt. Beige. Sizes: S, M, L, XL

BW-SBW-K SPECIAL \$3.50

Bike Warehouse T-Shirt & Cap Combo SPECIAL \$5.25

AW-BS \$3.90

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



Acrylic Pile Liner, soft, absorbent, anti-bacterial liner is pre-cut, pre-shaped. BW-PL \$3.50



Replacement Chamois Pad, pre-cut and shaped chamois pad to replace the worn-out pad in your favorite shorts or tights. Cut extra-high in the back for maximum coverage. One size only. CB-RC \$8.95



PATTY KITS

A BIKE WAREHOUSE EXCLUSIVE

Patty 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-K 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-K 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.



Cycling Gloves, padded leather palm, 100% cotton knit back and thumb. Soft natural tan leather. Velcro closure. Sizes: XS, S, M, L, XL
KO-CG-Z \$9.25 pair

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

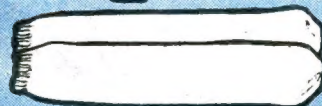


Deluxe striped headbands. Keeps your hair in place and perspiration out of your eyes. Now 5 colors: red/white/royal, red/white/red, royal/white/royal, kelly/white/kelly or brown/white/brown

FA-SB-C 75¢ each 3 for \$2.15



CG-AW Arm Warmer, \$10.80 pr.
CG-LW-Z Leg Warmer, \$13.80 pr.



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 pr.



Summit, 70% Worsted Wool, 30% Nylon. Lightweight Foot Hugger with 1 x 1 rib and hi-splice. 11" length. Sizes: S (7-9), M (9-11), L (11-13), XL (13-15). Colors: White

WW-SU-Z \$2.60 pr.

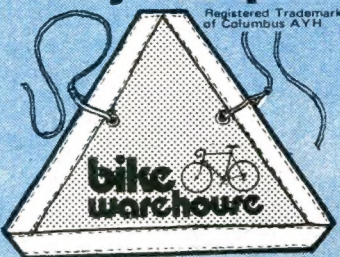


Jogger, 85% Hi-Bulk Orlon Acrylic, 15% Nylon. Heavy cushioned-sole sock with short rib cuff. Sizes: M(8-11), L(10-13). Colors: White with Assorted Color Stripes.

WW-JO-Z \$2.40 pr.

Fanny Bumper®

Registered Trademark of Columbus AYH



Fanny Bumper, lets motorists behind you know you're there. High visibility fluorescent orange nylon is perforated for ventilation. Reflective triangle border is stitched around the edges. Side stiffeners sewn in between the nylon and border keeps the fanny bumper flat. 2 metal grommets hold the tie string, which is included, and keep the nylon material from stretching or tearing. Bike Warehouse logo is printed on the front.

BW-FB \$3.95



Bata Biker, a cycling "sneaker" which doubles as a comfortable walking shoe. The rubber slip-resistant sole and universal sole pattern lets you put your foot anywhere on the pedal. The pedal-proof construction means you won't feel pedal pressure after a day of touring. Uppers are breathable canvas. Toes and sides are rubberized and reinforced to prevent discomfort and wear from toe straps. New reinforced counter for added heel support. Long padded tongue with fold-over Bata label. Reinforced stitched side panel for additional foot containment. Reinforced and bound eyelets. Abrasion-resistant cushion insole. Heel patch and Bata flash logo on the outside quarter. BLACK w/Yellow Patch & Logo. Sizes: Mens 3-13; Ladies 5-13 (No half sizes)

BA-BKM-Z Mens, \$14.70 pr.
BA-BKW-Z Womens, \$14.70 pr.

BIKE WARE poncho

Complete with Stuff Sak

BW-P \$17.75

LARGER One Size Fits All

Wide 1" Elastic Collar with 7 Hood Snaps

Wrap-around Front with Velcro Closure to protect neck

Open on the sides for arm use and ventilation

Double-Snap Closures for Riding

Double-stitch French Seams

Elastic Thumb Loops hold the poncho forward over handlebars keeping hands dry

Poncho comes with matching Urethane-coated Stuff Sak - Fits in any bottle cage

Bright Yellow Urethane-coated Nylon

7-Snap Detachable Hood with Drawstring

Long 9" C&C Zipper makes putting on and taking off easier and provides extra ventilation

Bikeware Label

Weight: 8 oz.

Longer Leg Loops can also be worn around the waist. These keep the poncho from flapping or riding up your back

Boots, keep your feet dry on wet days-warm on chilly days. Yellow Urethane-coated nylon. Elasticized ankle. Full-length rear C&C zipper w/rain flap. Reinforced stitching throughout. Nylon reinforced vinyl sole.

Sizes: XS,S,M,L BW-BO \$8.95

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rain chaps

Yellow Urethane-coated Nylon. These chaps are cool because there is no material above the thighs. Elastic Belt or Leg Loops enable chaps to be used even if you have no belt loops. Cuff Snaps. One Size Fits All. Matches the Bikeware Poncho.

BW-CH \$6.75

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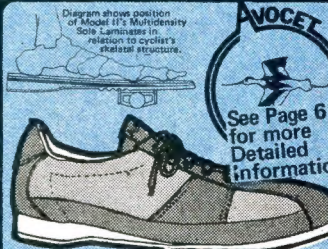


Detto Pietro "Article 74 Special" Cycling Shoe, a high quality, comfortable leather cycling shoe ideal for racing or touring. Comes with a durable, waterproof nylon sole. Sole has ventilation holes in the heel and toe. Ventilated uppers. Pre-mounted adjustable nylon cleat is an improvement over the old aluminum cleat. Better comfort through wider American lasts. Sizes: US/5-11 1/2 Detto/37-47

DP-74-Z \$34.50 pr.

SHOE SIZING/CONVERSION

US	Mens	5-6	6 1/2	7-7 1/2	8-8 1/2	9	9 1/2	10-10 1/2	11	12	13
US	Womens	7	8	9	9 1/2	10	10 1/2				
European		38	39	40	41	42	43	44	45	46	47



Model J1 Cycle-Touring Shoe, the culmination of features taken from the finest athletic and cycling shoe designs. Essential for comfortable and efficient pedaling whether you intend to bike to work or tour the entire continent. Ideal for pleasurable walking, also.

The greatest problem facing the cyclist who wears tennis or athletic shoes comes from a flexible sole which provides excessive foot flex and painful twisting. The Model J1's Multidensity Sole, formed of tapered spring steel and fiber laminates, insures comfort by displacing the pressure around the ball of the foot over a greater area.

Foam Padding - Contoured Insole - Tapered Sole Strippers - Tapered Steel Support - Contoured Sole

Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13 AV-S-Z \$32.85 pr.

bike warehouse T-shirts

Hi-crew neck, full cut. 50/50 Polyester/Cotton. Large dark blue transfer on the back and a small Bike Warehouse transfer on the front.

*NOTE: Color Transfer
Specify Shirt Color: Powder Blue, Light Yellow or Light Beige.

Specify Transfer: Bike Warehouse, SunTour, Dura-Ace EX, Shimano 600, Reynolds 531, Sugino, Superbe, Cyclists or Bicyclists, Tall Cyclists, Pink Panther, Bicycling or Hard Saddle.

All Our Shirts are U.S.A. Made

Size: S (32-34)
M (36-38)
L (40-42)
XL (44-46)

SPECIAL
BW-SBW-K \$3.50

Baseball Jersey, a three-quarter sleeve white jersey with contrasting trim on neck band and sleeves. 50/50 Polyester/Cotton. Large transfer on front & small Bike Warehouse transfers on sleeve
Colors: White body with Navy sleeves.
Sizes: S,M,L,XL

BW-JDA-Z Dura-Ace, \$6.85
BW-JRE-Z Reynolds, \$6.85
BW-JSH-Z Shimano, \$6.85
BW-JST-Z SunTour, \$6.85
BW-JSU-Z Sugino, \$6.85
BW-JSP-Z Superbe, \$6.85
BW-JBI-Z Bicyclists, \$6.85
BW-JCY-Z Cyclists, \$6.85
BW-JTC-Z Tall Cyclists, \$6.85
BW-JPP-Z Pink Panther, \$6.85
BW-JBY-Z Bicycling, \$6.85
BW-JHS-Z Hard Saddle, \$6.85
BW-JBW-Z Bike Warehouse, SPECIAL \$5.50

BW-SDA-K \$4.85

BW-SSH-K \$4.85

BW-SSU-K \$4.85

*BW-SCY-K \$4.85
Cyclists

BW-SRE-K \$4.85

BW-SST-K \$4.85

BW-SSP-K \$4.85

*BW-SBI-K \$4.85
Bicyclists

*BW-STC-K \$4.85
Tall Cyclists

*BW-SPP-K \$4.85
Pink Panther

*BW-SBY-K \$4.85
Bicycling

*BW-SHS-K \$4.85
Hard Saddle



bike warehouse

We are not responsible for Improper Application

iron-on transfers

Navy blue, 11 1/2" wide, multiple designs for use on jerseys, caps and shorts (garment must contain at least 50% cotton to sustain the heat required for transfer. Easy to apply with iron.

\$1.15 Each Any 6-\$5.10, Any 3-\$3.00



BW-TST SunTour



BW-TDA Dura-Ace



BW-TCY-C Cyclists Blue or Brown



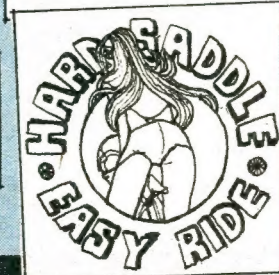
BW-TTC



BW-TPP (Color)



BW-TBY (Color)



BW-THS (Color)



BW-TRE 531



BW-TZE Zeus



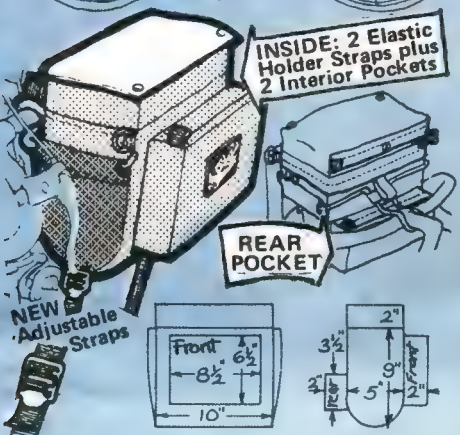
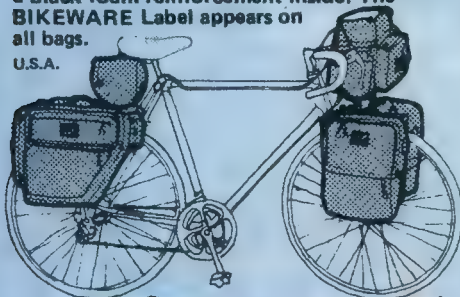
BW-TBI Bicyclists (COLOR)

BIKE WARE

BLUE Now Available

BIKEWARE BAGS- All bags are made of durable waterproof Oxford Pack Nylon. Colors: our exclusive Special Burnt Orange (brownier than International Orange) or Blue. 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 bags.

U.S.A.



"Molly" Handlebar Bag, features a Velcro flap on the main compartment for fast on-the-road access. Snap-on zippered map case is reversible. Zippered main compartment with double pulls. Five Outside Pockets: 2 side slash pockets of heavy-duty Cordura, 1 zippered top pocket, 1 zippered rear and 1 zippered front pocket. Leather frame channels. Coated lightweight metal support frame with Velcro safety fastener. "D" rings for use with the optional shoulder strap. Polyfoam liner. This bag utilizes a special adjustable tab buckle shock cord mounting system to provide total stability. Capacity: 675 cu.in. Weight: 13 oz. Colors: Orange or Blue **BW-M-C \$36.50**

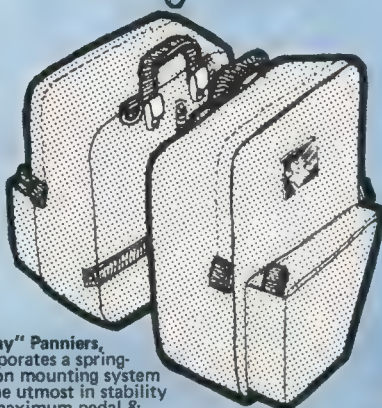
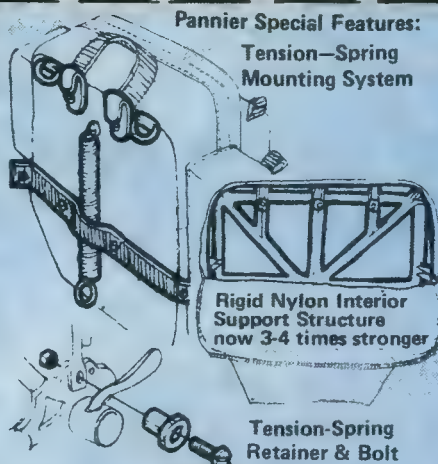
***Optional Shoulder Strap, CD-A003. \$1.85**



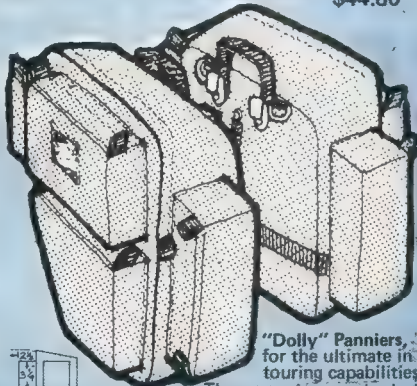
"Annie" Seat Bag, has quick-release adjustable buckle fasteners swivel so bag can be used on saddles with or without accessory clips. Wrap-around double pull zipper. Zipper rain flap. Nylon reinforcement strap. Red safety reflector. Instructions are included for mounting.

Pannier Special Features:

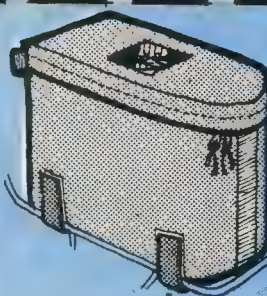
Tension-Spring Mounting System



"Jenny" Panniers, incorporates a spring-tension mounting system for the utmost in stability and maximum pedal & heel clearance. Internal molded nylon support frame consolidates the load and provides for even distribution. Stainless steel mounting hooks. Zippered main compartment with double pulls. Large external zippered pocket. "D" rings for use with optional shoulder strap. Velcro tab and metal snap locking system attach the two panniers together when off the bike and are convenient to carry with the nylon web handles. Rear safety reflector. Capacity: 2000 cu.in. Weight: 30 oz. Colors: Orange or Blue ***BW-J-C \$44.80**



"Dolly" Panniers, for the ultimate in touring capabilities. These panniers are basically the same as the above "Jenny" but offers 10 compartments in all: 4 outside zippered pockets on each pack, plus the zippered main compartments with double pulls. Capacity: 2500 cu.in. Weight: 40 oz. Colors: Orange or Blue ***BW-D-C \$69.70**



"Katy" Carrier Pak, adjustable-length Velcro fasteners attach to any rack. Single main compartment with double-pull wrap-around zipper. Polyfoam liner. Nylon web handle for easy away from the bike carrying. Perfect for those quick trips to the store— Easily holds a half-gallon of milk & carton of eggs or a six-pack. Capacity: 400 cu.in. Weight: 6 oz. Colors: Orange or Blue **BW-K-C \$10.70**

around zipper. Polyfoam liner. Nylon web handle for easy away from the bike carrying. Perfect for those quick trips to the store— Easily holds a half-gallon of milk & carton of eggs or a six-pack. Capacity: 400 cu.in. Weight: 6 oz. Colors: Orange or Blue **BW-K-C \$10.70**

"Holly" Tire Sock and Utility Bag

superbe stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction of the top tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't hit the bag even on narrow racing saddles. Holds two tires, tools or other gear. Weight: 3 oz. Colors: Orange or Blue **BW-H-C \$8.80**



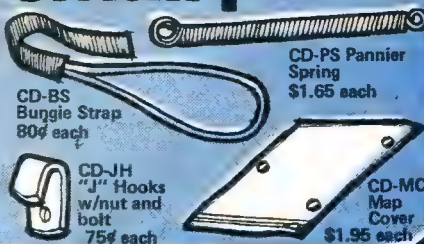
"Frannie" Front Pannier, incorporates the same nylon internal support frame and tension-spring mounting system as the rear panniers. Large zippered main compartment with double pulls. External zippered

flat slash pocket. "D" rings for use with shoulder strap. Velcro snap locking system and nylon web handles provide for easy off-the-bike carrying. Safety reflectors. Capacity: 1420 cu.in. Weight: 2lb., 9oz. Colors: Orange or Blue

***BW-F-C \$36.80**



BIKE WARE small parts



NOW LOWER PRICES!
Cannondale
Our big volume buying allows these low prices.
Made in U.S.A.

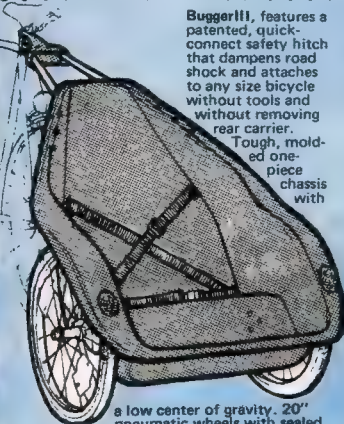
CD-A003 Optional Shoulder Strap, \$1.85

INEXPENSIVE
CD-B020-C
Handlebar Bag, coated exterior support frame. Inside Polyfoam stiffener. Amber reflector.
Red or Blue
\$11.70

CD-B021-C
lightweight materials, quick-release latches, Poly-lined interior and convenient carry handle. 3lb. limit. Capacity: 232 cu. in., Weight: 5 oz.
Red or Blue.
\$7.90

Now with 2 Side Pockets
CD-B027-C nylon touring bag. A 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 \$26.40

CD-A003 Optional Shoulder Strap, \$1.85



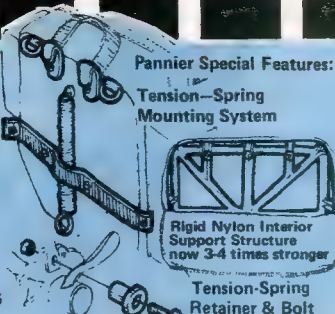
Bugger11, features a patented, quick-connect safety hitch that dampens road shock and attaches to any size bicycle without tools and without removing rear carrier. Tough, molded one-piece chassis with

a low center of gravity. 20" pneumatic wheels with sealed ball bearings. A harness system with quick-release buckles for 1 or 2 children. The straps can also be used as tie-downs for securing loads.

CD-BUG \$187.40

Tonneau Cover, made of waterproof pack cloth to keep load dry and clean. Specify: Blue, Red or Yellow

CD-A018-C
\$19.80



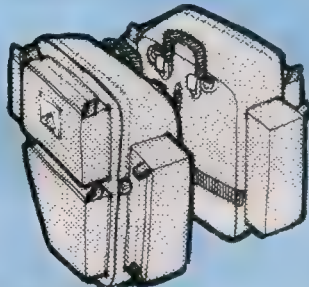
Pannier Special Features:
Tension-Spring Mounting System

Rigid Nylon Interior Support Structure now 3-4 times stronger

Tension-Spring Retainer & Bolt

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 molded 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. \$59.80

Includes Shoulder Strap



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 molded 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, Silver or Black \$74.50

Includes Shoulder Strap

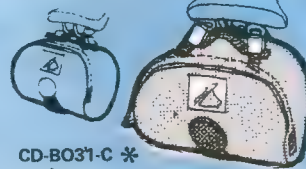


Front Panniers, large zippered interior compartment, 1 zippered outside pocket. Rigid nylon interior frame. 1100 cu.in.

CD-B042-C
oxford back cloth, Blue, Red \$44.80

CD-B043-C *
Cordura, Blue, Red, Silver or Black. \$54.80

***CANNONDALE'S LONG TOUR LINE**
Manufactured with a heavier 8oz. waterproof nylon Cordura cloth with a double urethane coating for maximum weather resistance and durability.



CD-B031-C *
This larger capacity seat pack has swivel straps to mount on seats with or without eyelets. Double zipper opens across top and down sides. 8oz. Cordura. 6lb. limit. Capacity: 358 cu.in. Weight: 7 oz.
Blue, Red, Silver or Black
\$12.50



NEW Velcro or Zipper Closures

NEW Rear Pocket

2 "D" rings outside

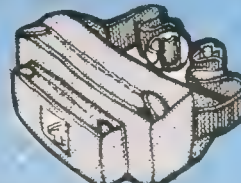
INSIDE: 2 elastic holder straps plus 2 interior pockets

CD-B037-C *
An all-new touring pack that offers welcome features. A 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 zippered 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, Silver or Black \$39.20

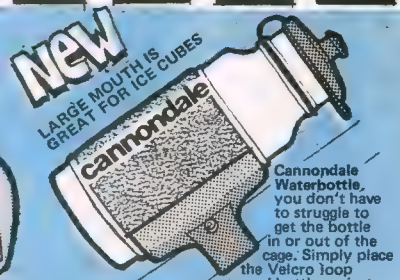
Includes Shoulder Strap



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.) 16 oz. waterproof nylon oxford cloth w/polyfoam liner, wide polypropylene breathable web straps, wrap-around nylon zipper, teardrop design allows natural and uninterrupted arm movement. Capacity: 780 cu in., weight: 12 oz. \$19.50
Red, Blue, Green



CD-B0848-C Belt Pack, just the thing 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., weights 8 oz.
Red, Blue, Green \$14.75



NEW
LARGE MOUTH IS GREAT FOR ICE CUBES
Cannondale
Waterbottle, you don't have to struggle to get the bottle in or out of the cage. Simply place the Velcro loop covered bottle against the Velcro hook covered base. Vibration improves the grip. So easy to use, just pick it up, you can concentrate on your riding. Large capacity bottle, 24 oz., with a large mouth. Cap has a drinking spout designed to open or close with your teeth. The base is tough, waterproof injection-molded Dupont Zytel 105. Single screw installation. Wrench included. Weight: 3 oz.

CD-WB
\$8.95

REG Italy

REG Waterbottle, a top quality bottle of lightweight plastic. Bike Warehouse logo on the sides. The spout cap is stationary, so it can be pulled open or pushed closed with the teeth. The leak-proof design is built into the removable top. Specify: Red, Blue or White.
RG-WB-C \$1.40 ea.
3/\$3.60

REG Steel Waterbottle Cage, with plastic retainer & bottle protector.
RG-SC \$3.25

REG Alloy Waterbottle Cage, made of "Dural" (a light aluminum alloy). plastic retainer. Includes allen bolts for braze-on use or with the alloy clips (also included). Silver or Black Anodized.
RG-AC-S Silver \$5.80
RG-AC-K Black \$6.25

NEW NO-LEAK TOP

RHODE GEAR
The NO-CAGE WATERBOTTLE
Rhode Bottle, slips into a non-marring nylon mount which protects the bike's finish. Bottle features molded-in finger indentations for a positive grip. Total weight: 100G. 1 minute screwdriver installation. Fits all bikes.
RH-NCB \$5.70
Bottle and Mount

MINOURA
Waterbottle Cage, light aluminum alloy frame cage with strong black nylon base and bottle stopper. 70G. Silver.
MN-WBC \$4.75

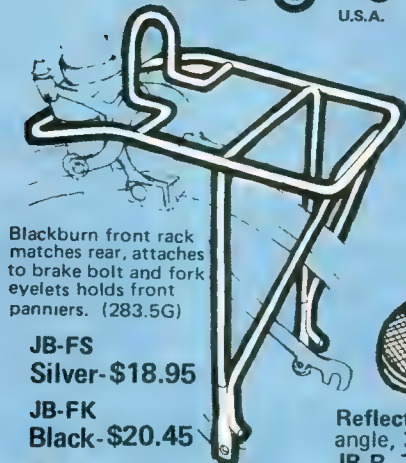
INCLUDES CLIPS & BOLTS OR CAN BE BRAZED-ON

NO EXTRA CHILD SEAT IS NEEDED



jim blackburn designs

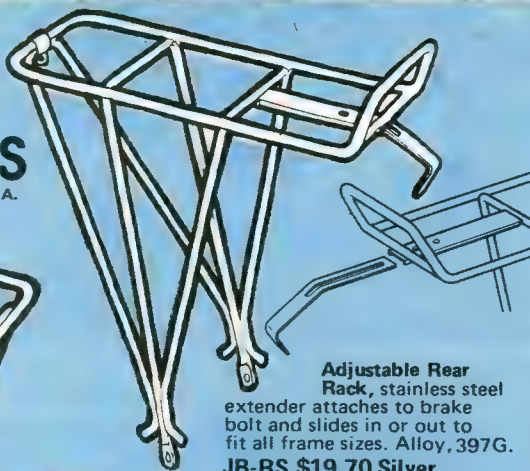
U.S.A.



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

JB-FS
Silver-\$18.95

JB-FK
Black-\$20.45



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

JB-RS \$19.70 Silver
JB-RK \$21.75 Black

Both front and rear
JB-FRS \$34.40 Silver
JB-FRK \$37.40 Black

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



Seat Stay Rear Rack
JB-SSS \$19.70 Silver
JB-SSK \$21.75 Black



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 \$1.20 pr.

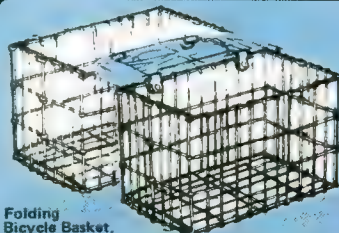


blackburn BLACKBURN WELDED WATERBOTTLE CAGE

Strong, lightweight heliarc welded aluminum alloy. Welded construction results in a wider stance, straight back. Holds bottle more securely yet is easier to use. 45G. Braze-on

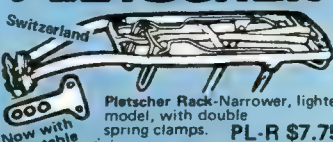
JB-WC-S (Silver) \$7.25
JB-WC-K (Black) \$7.25

JB-WCC Clamps for use w/out Braze-ons \$1.75



Folding Bicycle Basket, Carbon steel. Attaches to carrier sides and legs. When not in use it folds flat & a latch locks it closed. Size: 14" L x 8 1/2" W x 9 1/2" H Japan
CP-FB \$14.50 pr.

PLETSCHER



Pletscher Rack-Narrower, lighter model, with double spring clamps. **PL-R \$7.75**

BIKE BUCKETS **NEW**
MORE ON PAGE 39

BOTTLE	WEIGHT (GRAMS)	W/MATCHING CAGE	CAPACITY (FL. OZ.)	CAGE	WEIGHT (GRAMS)
REG Standard	64.2	123.7	18	Blackburn	45.0
Maripast	64.7	124.2	18 1/2	REG Dural Braze-on	45.7
Avoset	67.6	127.1	18 1/2	REG Steel w/clips	94.2
Rhode Gear	100	100		REG Braze-on	123.2
REG Thermic	148.4	207.9	9	Minoura	70.0
Cannondale	85.0				

bungie cords

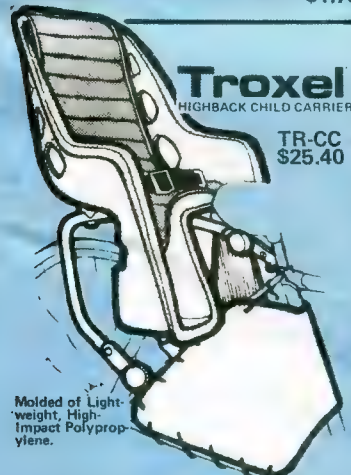
TX-BC-Z Elastic Bungie Cords, with plastic coated hooks. Different colors. 3/8" diam. 12"/40¢, 18"/50¢, 24"/60¢, 36"/75¢

Three-way Bungie, 24", TX-B3 75¢ **Four-way Bungie, 2/20" TX-B4 95¢**

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
□□-□□□□□□
When Ordering, you must provide all the information indicated by the last letter in the Stock Number. Explanations of the Info Code Letters are shown here.

C Color
E Extension & Diameter (straps)
F Feet & Color (housing)
H Holes (where and holes)
J Threads, Teeth, B.B. Width, Arm Length (cranks)
K Size & Color (clothes, frames)
L Length (spokes)
M Model
V Threads & Teeth (freewheel)
Z Size (saddlepost, clothes, rims, tires, toe clips, bearings and width of handlebars)

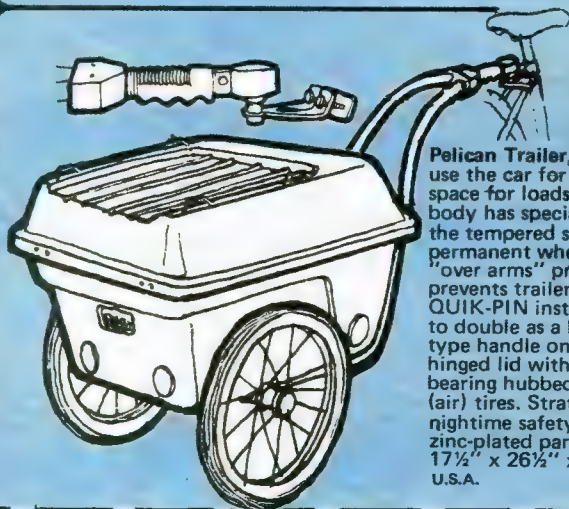


Troxel HIGHBACK CHILD CARRIER

TR-CC \$25.40

Molded of Light-weight, High-Impact Polypropylene.

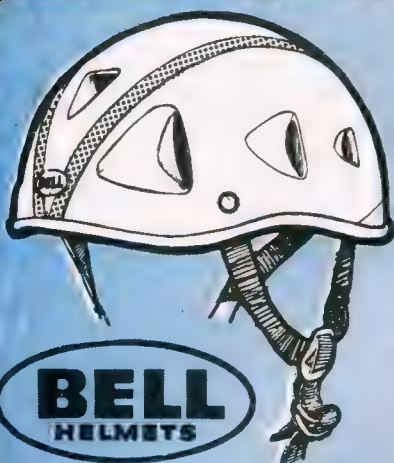
More protection. The child sits in-not on the contoured bucket seat, with a high back and conformed foot and leg area. A large spoke guard, extra strong seat belt & rear reflector are added safeguards. The plated tubular steel frame centers the weight over the rear axle for better balance. Attaches easily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



PELICAN

Pelican Trailer, new bicycle versatility-no longer a need to use the car for those daily hauling chores. Almost 4cu.ft. of space for loads up to 75 lbs. High impact, Polyethylene body has special built-in contours for added strength, while the tempered steel axle adds floor board strength & assures permanent wheel alignment. Low center of gravity and long "over arms" provide greater stability. Patented QUIK-HITCH prevents trailer from upsetting if bike should fall. The QUIK-PIN instantly releases the hitch enabling the trailer to double as a haulcart or wheelbarrow. A "pistol-grip" type handle on the hitch aids in this use. Removable hinged lid with snap fastener and security strap. 16" ball bearing hubbed wheels, heavy duty spokes and pneumatic (air) tires. Strategically placed red and amber reflectors for nighttime safety. High-lustre, electrostatic paint finish and zinc-plated parts. Weight: 19 lbs. Inside Dimensions: 17 1/2" x 26 1/2" x 12"D.

U.S.A. With Top, PE-TWT \$174.75 Without Top, PE-T \$134.75



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 "V" configuration at the front. Developed in cooperation with 3M, the stripes complement the white color of The Bicycle Helmet.

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.

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 owners' protection.

SIZING CHART			
Measure as shown			
Inches	Helmet Size	Pad Size	5/8"
21 5/8	6 7/8	5/8"	1/2
22	7	3/8	3/8
22 3/8	7 1/8	1/4	1/4
22 3/4	7 3/8	3/8	5/8
23 1/8	7 1/2	1/2	3/8
23 1/2	7 5/8	3/8	1/4
23 7/8	7 3/4	1/4	

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, thru 3/4 in (by 1/8's) thicknesses.

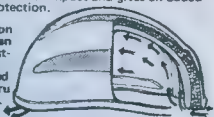
BH-P-Z \$2.00

Order in 1/8" Increments



Prime (preem) Bicycle Helmet, the first hard-shell bicycle helmet to adopt the classic look and style of the outdated leather hairnet. The Prime is designed around the combination of a tough, lightweight Lexan shell and a Polystyrene liner. This combination acts as a shock absorber on impact and gives an added layer of protection.

Cross-section shows Lexan shell, polystyrene liner and channeled air flow thru the helmet.



Aerodynamically designed, the shape reduces wind resistance. The Prime's shape also has an evaporative cooling system that forces cool, fresh air in the front, pushing the warm air out the back, channeled by the liner.

In addition, the Prime has 30 sq. in. of high reflective racing stripes for visibility in traffic plus a fully adjustable mounting harness and chinstrap. Interior sizing/comfort pads.

Hat Sizes: 6 1/2 - 6 7/8

NOT ADJUSTABLE

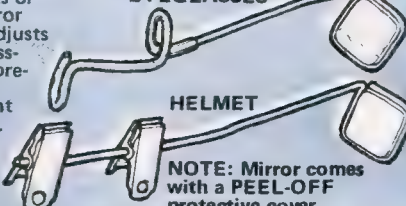
BH-PH-Z \$30.20

bike warehouse

REAR VIEW MIRROR, for helmets or eyeglasses. Large, good quality mirror offers a wide viewing area. Easily adjusts to individual viewing needs. Eyeglass-mounted mirror is vinyl-coated to prevent damage to frames. NEW wide Badge Clips on helmet mirror mount easily and hold more securely. U.S.A. Specify: Helmet or Eyeglasses.

BW-HM, for Helmets, **\$3.75**
BW-EM, for Eyeglasses, **\$3.75**

EYEGLASSES



HELMET

NOTE: Mirror comes with a PEEL-OFF protective cover.

Ray-Ban

BAUSCH & LOMB



"Outdoorsman" **BLACK CHROME** Sunglasses
Black chrome alloy frames. Lenses are reinforced by a Double Gradient Density Coating. A nickel-chrome alloy is deposited to the top & bottom of the lens, gradually becoming thinner & less dense from edge to center. This completely checks direct, overhead & reflected glare. Lenses have a black-to-silver mirror look. Wrap-around ear rests hold firm-great for cycling, etc.

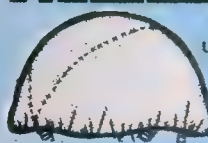
RB-BC \$33.00



"Outdoorsman" **ARISTA** Sunglasses
Gold frames with Amberglass lenses which change color and density in response to light & weather conditions. In overcast, they're amber to cut through haze; in warm sunlight, they turn dark brown to block glare; & in cold sunlight they turn dark grey for superior protection. Wrap-around ear rests hold firm-perfect for active people.

RB-A \$43.00

BIKE WARE



U.S.A.



Helmet Cover, keeps rain and cold out of the helmet air vents. Fluorescent orange, breathable, water repellent nylon. Elasticized stretch opening. Fits: Bell, MSR and Kunoh.

BW-HC \$2.35

Deluxe Helmet Cover, Urethane-coated nylon. Totally waterproof. Elastic stretch opening. Has the Bikeware label on the front. Bright Yellow. Matches the Bikeware Poncho and chaps.

BW-DHC \$3.95



Looks great on a bicycle

Gothic EZ-G-C

ABCD1234

Helvetica EZ-H-C

ABCD1234

EZ-G-C Gothic, \$1.49 set

EZ-H-C Helvetica, \$1.49 set

Vinyl Letters & Numbers, pressure-sensitive, super-stick letters & numbers. Personalize your helmet or practically anything else. 1/2" high. Colors: Black, White, Gold

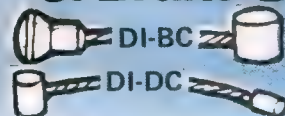
Available in 2 Styles: Gothic or Helvetica (Use Helvetica if space is a problem & a narrower letter is necessary)

Gothic-540 Caps & nos., 49 misc. signs

Helvetica-588 Caps & nos., 52 misc. signs

U.S.A.

Derailleur & Brake CABLES



DI-BC **DI-DC**

DI-BC Fits all front or rear.
DI-DC Fits all stem and down tube.

Universal Cables, both have 2 different type ends - cut off end not needed.

DI-BC(Brake) or DI-DC(Derailleur), 60¢ ea.

Tandem Cables, 110", **SB-TC-B(Brake) or SB-TC-D(Derailleur), \$2.50 each**

WESCON **ULTRA-GLIDE HOUSING**



Colors: Black, Brown, Blue, White, Red, Yellow, Grey

WS-H-C \$6.95

*Standard diameter for universal fit.
*Attractive color vinyl cover.
*Smooth, efficient Polyethylene Liner
*Flexible for easy routing. 25' lengths.



REG **Brake Cable Clamp**, clear, pressure-fit. Holds 2 cables steady. **RG-CC \$1.15**



Cable Ends, clear plastic. **RG-CE 4/60¢**



SPECIALIZED **Top Tube Brake Cable Clamp**, polished stainless steel, extra-light. **SB-BCC Set of 3/25.25**

Cycle pro

Aluminum Cable Ends, 50 per bag **DI-CE \$2.50 bag**

HANDLEBAR PADDING

U.S.A.
NOW IN
COLORS



COMES IN 2
THICKNESSES

MAXY SET Handlebar Padding, extremely comfortable, reduces road vibration. Non-slip grip, absorbs sweat, insulates against cold. Washable. Specify Color: Black, Red, Navy, Brown, Yellow

GO-M-C Maxy Set, \$7.25

RACING SET Handlebar Padding, same as above but only half the thickness. **BLACK.**

GO-R Racing Set, \$7.30

NOTE: Use P-51 to install (removes old adhesive, then slides and sticks to padding). PA-P51 85¢

BENOTTO

PROFESSIONAL CELLOTAPE

Handlebar Tape, used by the best pro and amateur cyclists. Unique for its high-quality, appearance & color, non-slip texture, toughness & safety. Comes with pair of matching color handlebar plugs.

Colors: Blue, Red, Yellow, Pink, Green, White, Black, Orange

Italy **BE-HT-C** \$2.65 set



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. U.S.A.**

RH-HB \$11.80

MORGAN GRIPS

T.M.



MO-G-C
\$13.50

Handbar Grips, aerodynamically-designed for the hands, not the handlebars. Contoured to fit the hand and comply with the hands in all standard riding positions. A hand-fitting grip increases the rider's control over his bike. A unique internal ribbed shock absorption system eases the nerve numbing pressure on the palms, as well as absorbing road shock & vibrations. Installation is simple-no need to remove hand brakes-no sewing or special tools. Fits all conventional drop handlebars.

Colors: Red, Blue or Black



CYCLEGRIP



Cyclegrip Top Grain Leather Tape, now the luxury of genuine leather for soft comfort and rich appearance. Tapered edges for smooth installation. **U.S.A.**



Specify: Black or Natural Tan
CG-P-C Perforated \$7.40
CG-S-C Sewn \$7.40

TRESSOR

Cloth Tape, woven edges do not unravel. Extra strong adhesive backing. Enough to do complete bar. **France**

Specify: Black, Red, Blue, Yellow, White

VE-T-C \$1.85 set



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

Color: Black **BY-C** \$2.85 set



VELOX
Velox rubber plugs with screw type expander. Black pr. **VE-PP** 88¢

plugs

Expander type

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

VE-PP 50¢



MIRRYCLE NEW

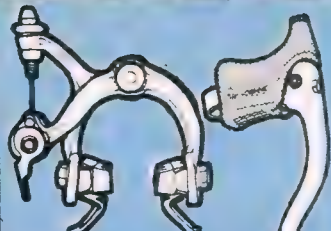
BIKE MIRROR

3" diameter convex mirror. Rugged lexan construction. Mounts on the brake lever conveniently out of the way. Adjusts to any position. Vibration is at a minimum. Quick and easy installation. **50G.** Fits all Weinmann, Dia-Compe, Shimano types, but not Campy. **U.S.A.**

MC-BM \$6.60

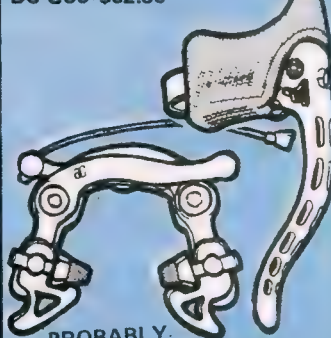


SAVE YOUR GAS... let your mail do the shopping



Gran Compe Pro-Superbe Sidepulls, finest finish we have seen. Hex adjusted, cone-shaped center bolt. Black brake blocks.

DC-GCS \$62.50



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-crafted drilled levers with hoods.

DC-GC450 \$64.80

DC-GH Gran Compe Hoods, gum rubber, with adj. covers, \$5.70 pair

DC-DL Gran Compe Levers, New Style, slotted \$10.60 each

DC-TG Gran Compe Tire Guides, vinyl-coated aluminum, fits most brakes. 4/\$2.90

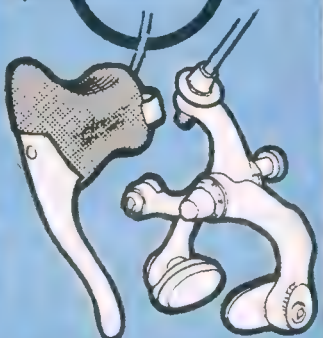
DC-DB Drop Bolts, rear only, \$8.25

DC-AB Adjustor Bolts, rubber covered, \$3.20



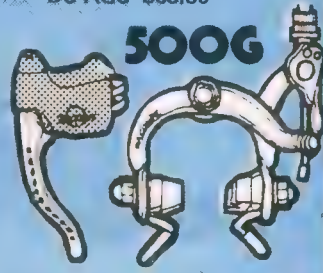
DIA-COMPE

Japan



Aero-Gran-Compe Brakes, the first aerodynamic brakes to reach the market place and possibly the finest looking. Short reach (40mm reach with ± 3 mm tolerance/rim width 18mm-21mm). Uses eccentric type brake shoe mechanism to allow adjustment for angled or flat rims and to further reduce wind resistance. Brake lever grip dimension is smaller than any lever we sell—resulting in more comfort and easier operation. It is a basic straight cable pull-up system for smooth brake movement. The cable and housing can be concealed in the handlebar for a cleaner, more aerodynamic look. Any handlebar we sell will work with these levers. It is necessary to drill 2 holes the diameter of the cable in the bars to route the cable.

DC-AGC \$68.80



500G Sidepulls, silver anodized, drilled levers, hoods included. **DC-500G** \$29.60

730 x 730 - **DC-730G** \$30.50

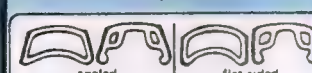
DC-DPS Dia-Compe Pad and Shoe Assembly, Black, Set of 4/\$3.70

MATHAUSER brake shoes

Revolutionary, lightweight 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 clean appearance. Specify: Flat or Angled Rims, or for Mafac Brakes.

MA-BS-M \$12.75 set of 4

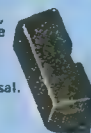
DC-TG Tire Guides, \$2.50 set of 4



All rims we sell take Flat except Fiamme

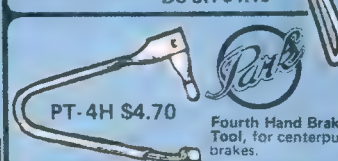
Mathauser Replacement Pads, for stock shoes, made of same material as above. Specify: Campy, Zeus, CLB, Mafac, Dura-Ace, Dia-Compe, Gran Compe, Weinmann or Universal.

MA-RP-Z \$7.75 set of 4



3rd hand brake tool

3rd Hand Brake Adjusting Tool, places tension on brake arms, holding pads to rims while you adjust cable slack. Essential for proper brake work. **DC-3H** \$1.10



Fourth Hand Brake Tool, for centerpull brakes.



PT-4H \$4.70

To make a FRONT DROP BOLT

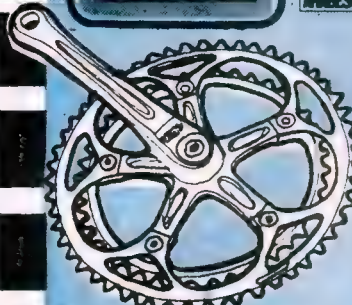
YOU NEED: Campy 8mm Seatpost Bolt & REAR Drop Bolt to fit your brakes.
2. Drill Rear of Fork to Fit
3. INSTALL



Campy Seatpost Nut Fork Drop Bolt

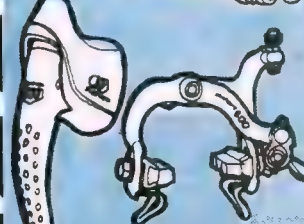
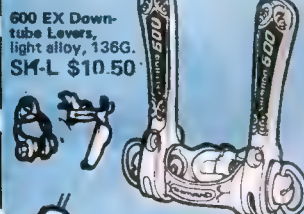


SHIMANO 600 EX

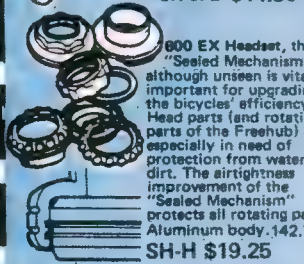


600 EX Crankset, features the new "W Cut" teeth for smoother gear changing. By shortening the length of two sprocket teeth behind the crank arm, and two teeth located directly opposite (these teeth sustain the least tension while cycling), it's no longer necessary for the chain to be lifted up over the 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. 68mm crank arm. 937G. 39 x 52T. Specify: Eng., Fr., Italian
SH-C-T \$64.50

CHAINRINGS-
39,40,42,44T \$11.70ea.
46,48,49,50,52,54T \$14.50 ea.



600 EX Down-tube Levers, light alloy, 136G.
SH-L \$10.50



600 EX Sidepull Brakes, Quick-release with tire guides, light alloy. Anodized finish. 676G. front & rear.
SH-SPB \$44.50

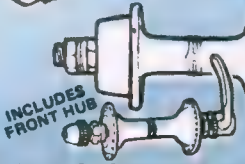
600 EX Headset, the "Sealed Mechanism" although unseen is vitally important for upgrading the bicycle's efficiency. Head parts (and rotating parts of the Freehub) are especially in need of protection from water & dirt. The airtightness improvement of the "Sealed Mechanism" protects all rotating parts. Aluminum body. 142.7G
SH-H \$19.25

600 Small Flange Hubs, quick-release, alloy, 36H, 587G.
SH-SH \$33.80

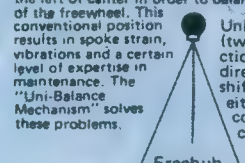
600 EX Front Derailleur, new design incorporating the "Trap-Ease Mechanism" which replaces the awkward parallel movement with a movement more suited to the shifting function, making the low to high gearshift an ideal one. The effectiveness of the "Trap-Ease" allows less force to be used when shifting but provides the same amount of travel as with a conventional derailleur. 107G.
SH-FD \$10.90



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-RD \$16.50



600 EX GS Rear Derailleur, SH-GS \$13.80



Freehub Set, Combining the freewheel and hub into one unit, results in a simpler, 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 dished 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 freewheel. This conventional position results in spoke strain, vibrations and a certain level of expertise in maintenance. The "Uni-Balance Mechanism" solves these problems.

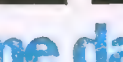
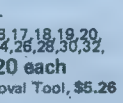
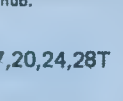
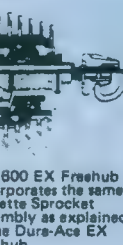
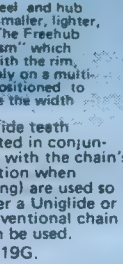
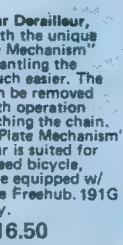
Uniglide teeth (twisted in conjunction with the chain's direction when shifting) are used so either a Uniglide or conventional chain can be used. 919G.

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

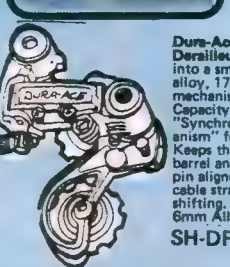
The 600 EX Freehub incorporates the same Cassette Sprocket Assembly as explained in the Dura-Ace EX Freehub.

Standard 6spd.- 13,15,17,20,24,28T
SH-FH \$48.80

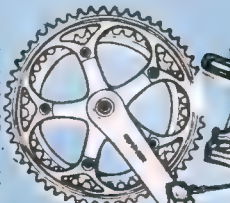
SINGLE SPROCKETS
SH-FHT-T Thread-on 13,13,14T
SH-FHS-T Side-on 13,14,15,16,17,18,19,20,21,22,23,24,26,28,30,32,34T \$4.20 each
SH-1200906 600 Freehub Removal Tool, \$5.26



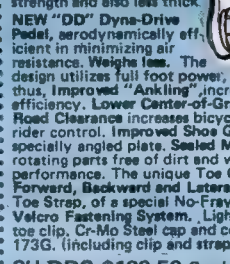
DURA-ACE EX



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 the chain. Alloy body and hinge plates. All bolts are on the right side, lighter weight than previous model. Adjusts with 6mm Allen key.
SH-DFD \$23.20



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
SH-DRD \$40.50

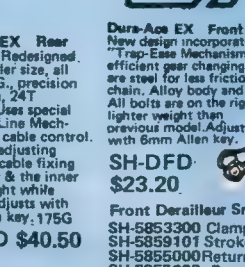


Rear Derailleur Small Parts:
SH-5281100 Tension Spring, 55¢
SH-5451760 Adjusting Screw, \$1.20
SH-5452000 Cable Fixing Bolt, 65¢
SH-5452100 Cable Fixing Nut, \$1.60
SH-5459003-1 Tension Pulley, 99¢
SH-5459013 Guide Pulley, \$2.50



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" Dyna-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).



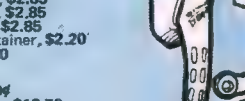
Dura-Ace EX Front Derailleur, New design incorporating the "Trap-Ease Mechanism" for more efficient gear changing. Cage plates are steel for less friction against the chain. Alloy body and hinge plates. All bolts are on the right side, lighter weight than previous model. Adjusts with 6mm Allen key.
SH-DFD \$23.20



Front Derailleur Small Parts:
SH-5853300 Clamp Bolt, 90¢
SH-5859101 Stroke Adj. Bolt, 80¢
SH-5855000 Return Spring, 94¢
SH-5856000 Braze-on Bracket, \$3.40
SH-5859102 Cable Fixing Assembly, \$1.60
SH-5859104 Roller Fixing Assembly, \$1.65
SH-5859105 Braze-on Assembly, \$16.90



Dura-Ace EX Double Down-tube Levers, (75G) w/cables stay clip housing.
SH-DL \$18.95

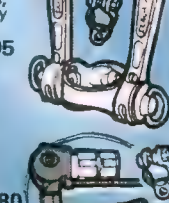


Dura-Ace EX Bar-end controls w/cables, 343G S.S. Housing, fulcrum stay clips,
SH-DBC \$19.80

6mm allen key for bar-end
FE-6 50¢



Dura-Ace EX Double Down-tube Levers, (75G) w/cables stay clip housing.
SH-DL \$18.95



Dura-Ace EX Bar-end controls w/cables, 343G S.S. Housing, fulcrum stay clips,
SH-DBC \$19.80



6mm allen key for bar-end
FE-6 50¢



Dura-Ace EX Stem, 22.2mm diameter. Extension: 70.90, 110mm
SH-DST-Z \$27.95

Dura-Ace EX Seatpost, Specify: 26.2,26.4,26.8, 27.0,27.2
SH-DSP \$27.95



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 the chain. Alloy body and hinge plates. All bolts are on the right side, lighter weight than previous model. Adjusts with 6mm Allen key.
SH-DFD \$23.20



Front Derailleur Small Parts:
SH-5853300 Clamp Bolt, 90¢
SH-5859101 Stroke Adj. Bolt, 80¢
SH-5855000 Return Spring, 94¢
SH-5856000 Braze-on Bracket, \$3.40
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SH-5859104 Roller Fixing Assembly, \$1.65
SH-5859105 Braze-on Assembly, \$16.90



Dura-Ace EX Double Down-tube Levers, (75G) w/cables stay clip housing.
SH-DL \$18.95



Dura-Ace EX Bar-end controls w/cables, 343G S.S. Housing, fulcrum stay clips,
SH-DBC \$19.80

6mm allen key for bar-end
FE-6 50¢



Dura-Ace Freehub, incorporates a cassette sprocket assembly. In conventional freehubs 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.

The axle bearings are located at the end of the freehub where it is supported by the dropout. This eliminates the torque characteristic which has a tendency to result in bent axles on other hubs. **INCLUDES FRONT HUB.**

3 Standard 6spd. Combinations (Specify)

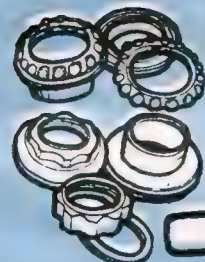
12,13,14,15,16,17T
11,13,15,17,19,21T SH-DFH-T \$89.00
13,14,15,17,19,21T

SINGLE SPROCKETS

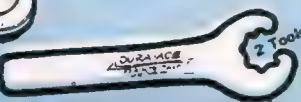
SH-DFHT-T Thread-on 12,13,14,15,16T
SH-DFHS Slide-on 12,13,14,15,16,17,18,19,20,21,22,23,
\$4.20 each 24,25,26,28T

Hubset Small Parts:

SH-2331500 Oil Cap, \$1.30
SH-2339003 Front Hub Cone, \$3.20
SH-2339006 Front Axle Set, \$10.90
SH-2370801 Front Hub QR Assembly, \$14.50
SH-2370802 Front Hub Dust Cap RH, 99¢
SH-2431401 Front Hub Dust Cap LH, 99¢
SH-2431402 Rear Hub Dust Cap RH, 85¢
SH-2431500 Rear Hub Dust Cap LH, 85¢
SH-2470400 Rear Hub LH Cone 15mm, \$3.40
SH-2470402 Rear Hub RH Cone 10mm, \$3.40
SH-3566300 Rear Hub RH Cone 13.5mm, \$3.40
SH-3569003 Sprocket Spacer, 95¢
SH-3569000 Body Assembly 6spd., \$29.50
SH-3569004 QR Assembly 153mm, \$14.50
SH-3569005 QR Assembly 159mm, \$14.50
SH-1200906 Freehub Removal Tool, \$5.26



Dura-Ace EX Headset, incorporates the "Sealed Mechanism" innovation to protect its rotating parts from water and dirt particles. Aluminum body. 114G. Specify: English, Italian or French.
SH-DH-T \$45.90



Headset Tool, for Dura-Ace EX and Shimano 600 EX Series Headset parts
SH-DHT \$18.00 Set

DURA-ACE 10 TRACK GROUP

Includes: Dura-Ace 10 Front Chainwheel, light alloy, cotterless. Crank Arm: 165mm. Specify: 46 to 53T.; Eng. Dura-Ace 10 Front & Rear Hubs, light alloy, anodized finish, includes Lock Ring. Specify: 32 or 36H.; Dura-Ace 10 Sprocket for Track 10 Hub, Nickel Chromium Molybdenum Steel, Specify: 14, 15, 16T; Dura-Ace 10 Chain, Chromium Molybdenum Steel, special surface treatment, bushed chain.

SH-T10-T \$265.00 Special Order Only

DURA-ACE 10—DURA-ACE Comparison Chart * Weight Comparison (Track Models)

	Dura-Ace 10	Dura-Ace	Saving
Right Hand Crank	8.5 oz. (239 g.)	9.8 oz. (277 g.)	1.3 oz. (38 g.)
Chainwheel (49T)	2.2 oz. (63 g.)	4.1 oz. (116 g.)	1.9 oz. (53 g.)
Chain	11.6 oz. (330 g.)	11.8 oz. (335 g.)	0.2 oz. (5 g.)
Rear Hub W/Lock Ring	10.4 oz. (295 g.)	11.0 oz. (313 g.)	0.6 oz. (18 g.)
Rear Sprocket (14T)	0.8 oz. (22 g.)	1.4 oz. (38 g.)	0.6 oz. (16 g.)
TOTAL	33.5 oz. (949 g.)	38.1 oz. (1079 g.)	4.6 oz. (130g.)

UNIGLIDE FREEWHEEL, silver, with staggered teeth for use with the Uniglide Chain.

13-17,13-21,13-24,13-28
SH-FW-Z \$9.95



SH-1200903 Removing Tool, \$5.26

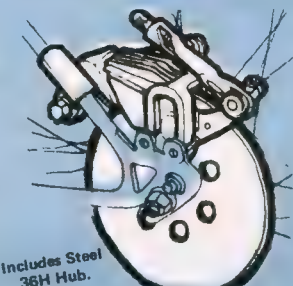


Shimano Uniglide Chain, specially-formed gold side plates for improved shifting. 370G. 1/2 x 3/32 x 116L. **SH-UC \$8.75**

DA EX Pro Uniglide Chain, widened nickel side plates for improved shifting. Roller pins of bearing steel & an ultra-hard surface treatment assures outstanding strength. Will outlast any other chain. 1/2 x 3/32. **SH-DUC \$33.90**



Not for use With Ultra Freehubs
Link Lock, quick, easy assembly or disassembly of chain without the need of tools.
SH-LL \$3.50



Includes Steel 36H Hub.

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. **SH-DB \$39.95**

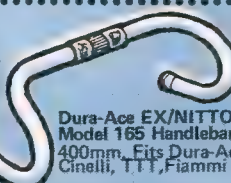
600 Cantilever Brakes, 338G., light alloy brake with steel braze-on mounting shaft. All Allen bolts.
SH-CB \$14.50



DC-DL Gran Compe Levers, \$10.60 ea.



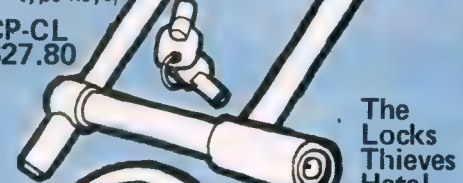
Freehub Removal Tool, for DURA-ACE EX only
SH-1200906 \$5.26



Dura-Ace EX/NITTO Model 165 Handlebar, 400mm, Fits Dura-Ace, Cinelli, TTT, Fiammi
DA-EN \$10.95

Citadel

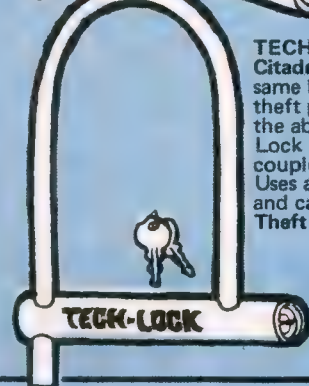
Ultra-high Security Lock, made of 1/2" through-hardened alloy. Tested to stop large boltcutters and other tools used by bike thieves. Carries a 1 Year \$250 Theft Guarantee. Vinyl coated to protect bike finish. With cylinder-type keys,



CP-CL \$27.80

The Locks Thieves Hate!

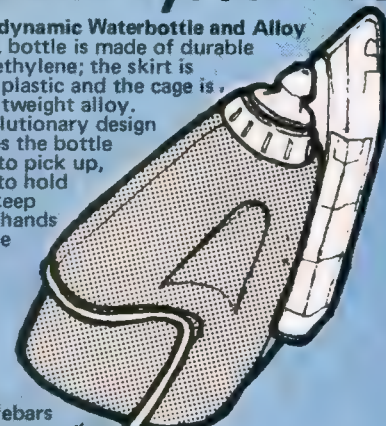
TECH-LOCK by Citadel, offers the same high quality in theft protection as the above Citadel Lock but has a couple of differences: Uses a flat-type key; and carries \$150 in Theft Insurance.



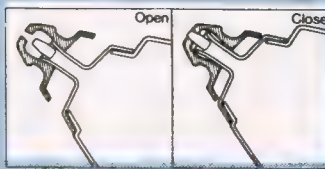
CP-CTL \$19.85

Aerodynamic

Aerodynamic Waterbottle and Alloy Cage, bottle is made of durable Polyethylene; the skirt is clear plastic and the cage is a lightweight alloy. Revolutionary design makes the bottle easy to pick up, easy to hold and keep your hands on the handlebars at the same time. The cage is designed to fit round frame tube. **Weights: Bottle-72G., Skirt/Cage-60G. Bottle Color: Pearl Blue**



CP-ADB \$8.90



Cap opens easily with the mouth

ULTRA-

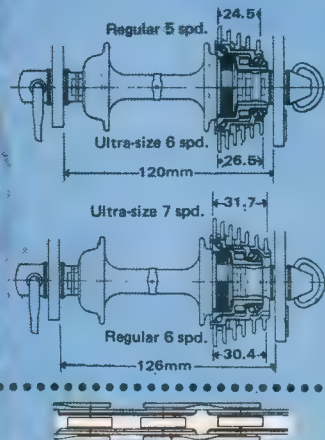
Ultra-6 Freewheels - The distance between sprockets is narrower when compared to an ordinary 6-spd. freewheel, but the Ultra-6 will fit a normal 5-spd. hub because the overall width is almost the same as a normal 5-spd. freewheel.

ULTRA-6 WINNER

English
13,14,15,16,17,19
13,14,16,18,20,22
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 \$22.90

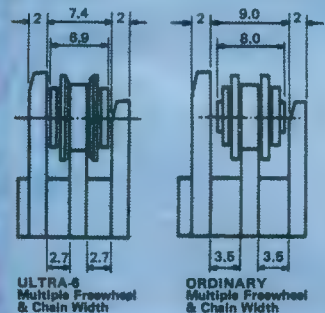
ULTRA-7 FREEWHEELS

Silver, English
12,13,14,15,16,17,19
12,13,14,15,17,19,22
12,13,14,15,17,20,24
12,13,15,17,20,23,26
12,13,15,17,20,24,28
12,13,15,17,20,26,32
ST-U7-T \$25.90



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 \$8.25



Spoke Protector, light alloy w/anodized finish. Diameter: $\frac{7}{8}$ " for 27 - 34T low gear. Weight: 48G.
ST-ASP \$1.75



PLEASE NOTE: Due to occasional factory changes on freewheels-"Inner" Cogs may deviate by 1 Tooth.
EXAMPLE: 19T may sub for a 20T.



SUNTOUR CONE ADJUSTMENT SPANNER ST-CAS \$7.60

SUNTOUR FREEWHEEL REMOVER

ST-FR \$1.45

NEW WINNER -5spd FREEWHEEL

Winner - S, precision steel all silver English



ST-FR Remover for all SunTour \$1.45

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

ST-NW-T \$18.90



PRO COMPE GOLD FREEWHEEL

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
14x32-14,18,22,26,32
14x34-14,18,22,27,34

Stock Sizes at left, English Only.
ST-PC-T \$9.70

Any Combination 14 to 34T., Eng. or French.
ST-PCC-T \$10.90

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

ST-TF-T \$11.50

SunTour

SunTour Front and Rear Derailleurs are engineered with Stent Pantograph Mechanisms 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 with Cyclone. Rear Touring Derailleurs also feature Quick-Cage for chain removal without disassembly.

CYCLONE

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

ST-CRD \$25.50

Cyclone front derailleur (98 gr) low normal, hinged frame clip. Non-fingering covered spring; silver

ST-CFD \$17.90

Cyclone Front Adaptor, for 36T and below. ST-FA \$2.50

Cyclone Downtube Lavers, 112G., super lightweight & features special hidden bolt clamp design (like brake levers), finger adjustable tension control. Complete w/cables & stainless steel housing. Silver

ST-CDT \$17.80

MAY BE AVAILABLE '81

Cyclone GT Rear Derailleur, 188G., Touring Model w/32T (34T on hanger) 6-speed capacity. Silver.

ST-GTR \$28.90

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

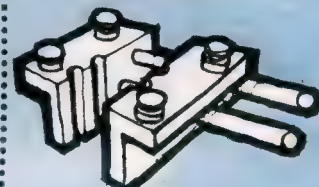
ST-TB Tandem Body, Eng. only, \$6.80

SPACERS: 1ST Gear ST-PCS1, 30¢ ea., 2ND Gear ST-PCS2, 30¢ ea., Low Gear, 2 required ST-PCSL, 30¢ ea.



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

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



Freewheel-Axle Vise Tool holds freewheel in vise while changing sprockets. Holds axle to adjust cones. Holds up to 34T.
ST-FV \$11.80

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 pedalling 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	108.1	110.2	112.1	114.2	116.3
14	57.8	61.7	65.5	69.5	73.3	77.1	81.0	84.9	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	60.8	64.1	67.5	70.8	74.3	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	56.9	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	72.9	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	57.8	59.0	60.1	61.4	63.9	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	63.5	64.8	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	48.7	50.1	51.1	52.0	53.0	54.0	
29	28.0	29.8	31.6	33.5	35.4	37.2	39.0	41.0	41.8	42.8	43.8	44.7	45.6	46.5	48.4	49.4	50.3	51.2	52.1	
30	27.2	28.9	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	26.5	27.9	29.6	31.4	33.1	34.8	36.6	38.3	39.2	40.1	41.0	41.9	42.8	43.7	45.5	46.4	47.3	48.2	49.1	
32	25.9	27.4	28.7	30.4	32.1	33.7	35.4	37.2	38.0	38.8	39.7	40.5	41.4	42.3	43.9	44.7	45.5	46.4	47.3	
33	24.6	26.1	27.6	29.5	31.1	32.7	34.4	36.0	36.8	37.6	38.5	39.3	40.1	40.9	42.6	43.4	44.2	45.0	45.9	
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	

SUPERBE

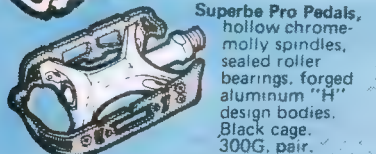
Racing Equipment from SUN TOUR



Superbe Rear Derailleur
27T capacity

ST-SRD
\$29.30

Superbe Front
Derailleur ST-SFD \$19.90



Superbe Pro Pedals,
hollow chrome-
molly spindles,
sealed roller
bearings, forged
aluminum "H"
design bodies.
Black cage.
300G. pair.

ST-SPP \$68.60 pr.



Superbe Downtube Shift
Levers, forged light alloy
levers, stainless steel bolt
& clamp. Anodized finish.
Weight: 78G. with lever
caps.

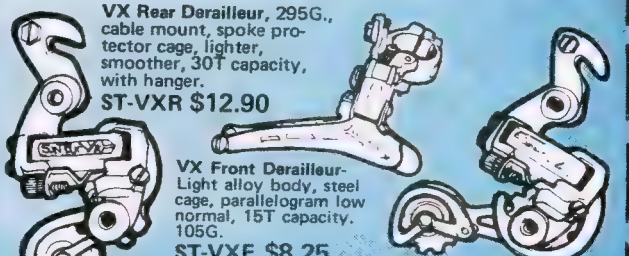
ST-SDT \$18.90

Superbe Pro Sidepull Brakes & Levers,
brakes are cold-forged light alloy with an
anodized finish. Free stopper quick-release
and tire guide. Lock nut w/Allen key hole.
Weights: Normal/346G. pr.
Short/330G. pr.

Levers are light alloy, drilled w/anodized
finish. Natural rubber covers. Weight: 219G.
Includes cable & 3 top tube cable clips.
Specify: Normal or Short Reach
ST-SB-Z \$64.80 pr.

ROADVX

Light Alloy, Slant Pantograph
Components at a Budget Price.



VX Rear Derailleur, 295G.,
cable mount, spoke pro-
tector cage, lighter,
smoother, 30T capacity,
with hanger.

ST-VXR \$12.90

VX Front Derailleur-
Light alloy body, steel
cage, parallelogram low
normal, 15T capacity.
105G.

ST-VXF \$8.25

VX GT Rear Derailleur, 34T
capacity, 275G., w/hanger.

ST-VXGT \$13.20



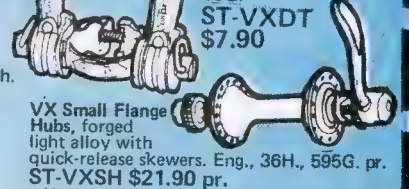
VX Road Pedals, forged
light alloy body, steel
spindle. Quill-type. English.
Weight: 390G. pr. Silver
Made by MKS

ST-VXP \$18.80 pr.



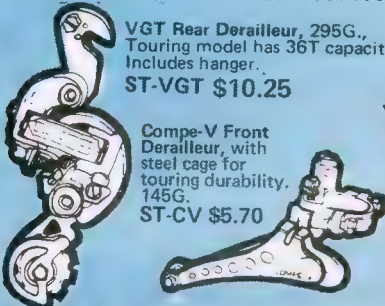
VX Down Tube Shift
Levers, light alloy lever
handle, stainless steel
lever clamp. Weight:
80G.

ST-VXDT
\$7.90



VX Small Flange
Hubs, forged
light alloy with
quick-release skewers. Eng., 36H., 595G. pr.

ST-VXSH \$21.90 pr.



VGT Rear Derailleur, 295G.,
Touring model has 36T capacity.
Includes hanger.

ST-VGT \$10.25

Compe-V Front
Derailleur, with
steel cage for
touring durability.
145G.

ST-CV \$5.70



Handlebar End
Control Set, 351G.
Alloy with cables,
housings & clip.

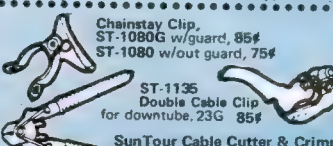
ST-BC \$18.90 pr.

6mm Allen Key for
Bar-Controls.
FE-6 50¢



Power Double Lever-M,
alloy ratchet, downtube
mount, with cables, &
double cable guide.
204G.

ST-DDLM \$8.90



Chainstay Clip,
ST-1080G w/guard, 85¢
ST-1080 w/out guard, 75¢

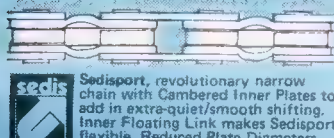
ST-1135
Double Cable Clip
for downtube, 23G 85¢

SunTour Cable Cutter & Crimper, ST-CCC \$11.40

SunTour Braided Inner Wire, for
handlebar controls, front & rear.
ST-BIW \$1.80 ea., \$3.50 set

Standard Length Inner Wire, fits
all downtube levers, D1-DC 60¢ ea.

CHAINS



Sedisport, revolutionary narrow
chain with Cambered Inner Plates to
add in extra-quiet/smooth shifting.
Inner Floating Link makes Sedisport
flexible. Reduced Plate Diameters
reduce chain track & weight. Short
Pins are Detent-Treated (corrosion-
resistant metallic finish). Can be
used with Ultra freewheels.
346G. BLACK.

SE-C \$7.25



ULTRA-6 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. There-
fore, The Ultra-6 Chain can be used with any
ordinary 5 or
6speed freewheel. 346G.

ST-UC \$8.25



Shimano Uniglide Chain, specially-formed
gold side plates for improved shifting. 370G.
1/2 x 3/32 x 116L.

SH-UC \$9.25

DA EX Pro Uniglide Chain, widened nickel
side plates for improved shifting. Roller pins
of bearing steel & an ultra-hard surface
treatment assures outstanding strength. Will
outlast any other chain. 1/2 x 3/32.

SH-DUC \$33.90



Not for use
With Ultra
Freewheels

Link Lock, quick, easy assembly
or disassembly of chain without
the need of tools.

SH-LL \$3.50



cyclo

CHAIN RIVET
REMOVER

Great for shop use.

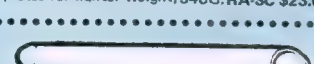
SB-CY, \$3.20



Regina Extra
utilize beveled
rivets that mini-
mize friction and
wear to derailleurs caused by conventional pro-
truding rivets. 1/2x3/32 w/plated side links
388G.

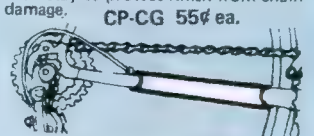
RA-OC \$10.50

Record Super Corsa Oro-drilled, thinner side
plates for lighter weight, 346G. RA-SC \$23.68



Chainstay Guard, clear plastic, slips over
chainstay to protect finish from chain
damage.

CP-CG 55¢ ea.



Chainstay Guard, highly-polished stainless
steel. Contoured to perfectly fit chainstay.
Adhesive-backed to stay secure.

SB-SCG \$1.80



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

BIKE WARE SPROCKET TOOL

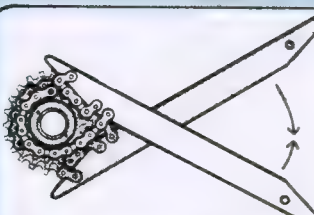
BW-ST \$3.75 ea. BW-2ST \$6.95 pr.



FITS ULTRA

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 a-
round the sprocket teeth.

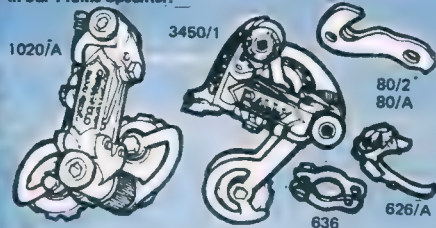
Note: It's best to crisscross the tools, so
that they work against each other. (see
illustration)

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!



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. \$67.56

CA-3450/1 Rally Touring, w/36T range, and slant pantograph design, 310G. \$57.80

CA-1020/18 Super Record Rear Derailleur, black, w/out hanger, 187.6G., \$82.78

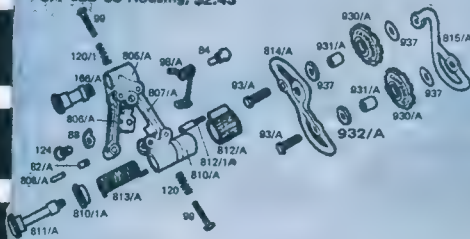
CA-80/2 Nuovo Record Hanger, \$1.28

CA-80/A Rally Hanger \$1.42

CA-626/A Double Cable Guide, \$7.43

CA-636 Chainstay Clip \$2.70

CA-622 SS Housing, \$2.43

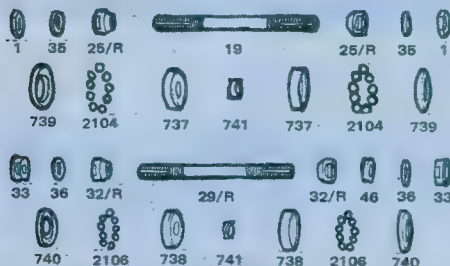




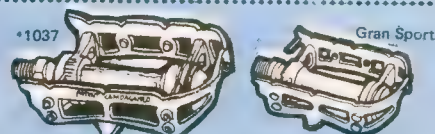
All Hubs are 36H. QR w/skewers, English threads. Pair. 24, 28, 32 or 40H-Add \$4.00 Pair

- CA-1253 Nuovo Tipo Lg. Flange, 567.1G, \$51.95
- CA-1251 Nuovo Tipo Sm. Flange, 508.4G, \$50.95
- CA-1035 Nuovo Record Lg. Flange, 595.6G, \$86.97
- CA-1034 Nuovo Record Sm. Flange, 519.2G, \$79.97
- CA-1034/35 Special Hi-Lg. Flange, 541.5G, \$87.95
- CA-1036/2 Record Sm. Flange Track, \$77.95
- CA-1036 Record Lg. Flange Track, \$77.95

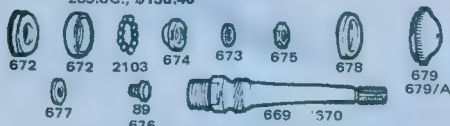
Hubs may be purchased individually at 1/2 the Pair price +\$4.00 Add \$7.00 for 6-spd. Rear Axle and Spacer.



- CA-1310 Nuovo Tipo Front QR Skewer, \$9.86
- CA-1311 Nuovo Tipo Rear QR Skewer, \$10.19
- CA-1001/3 QR Skewer for Front Record Hub, \$13.95
- CA-1006/8 QR Skewer for Rear Record Hub, \$14.51
- CA-1 Front Lock Nut 744
- CA-19 Front Hollow Axle, \$4.52
- CA-28 Nuovo Tipo Front Cone, \$1.42 ea
- CA-25/R Front Cone, \$2.70 ea.
- CA-29/R Rear Hollow Axle 5 Speed, \$4.93
- CA-29/R6 Rear Axle 6 Speed, \$4.93
- CA-32 Nuovo Tipo Rear Cone, \$2.30 ea.
- CA-32/R Rear Cone, \$2.70 ea.
- CA-33 Rear Lock Nut, \$1.28
- CA-36 Front Hub Lock Washer, \$34
- CA-36 Rear Hub Lock Washer, \$34
- CA-46 Rear Spacing Collar, \$8
- CA-737 Front Ball Cup, \$3.98
- CA-738 Rear Ball Cup, \$4.05
- CA-739 Front Dust Cover, \$1.28
- CA-740 Rear Dust Cover, \$1.55
- CA-741 Spring Clip, \$7
- CA-2104 Set 7/32" Front Bearings, \$2.16
- CA-2105 Set Nuovo Tipo Front Bearings, \$2.16
- CA-2106 Set 1/4" Rear Bearings, \$2.16



- CA-1037 Nuovo Record Road, Chrome, 415.7G, \$59.97
- CA-1037/A Nuovo Record Road SL, Black, 332.8G, \$74.50
- CA-1038/A Nuovo Record SL Track, Black, 322.4G, \$80.95
- CA-3700 Gran Sport Pedals, Silver, 498.8G, \$46.46
- CA-4021 Super Record Road Pedals, titanium axles, 269.8G, \$158.40



- CA-89 Locking Screw for Superlight 664
- CA-669 Left Hand Pedal Axle, \$10.13
- CA-670 Right Hand Pedal Axle, \$10.13
- CA-672 Inserted Race, \$2.84
- CA-673 Pedal Axle Washer, 204
- CA-674 Pedal Axle Cone, \$2.36 ea.
- CA-675 Pedal Axle Lock Nut, \$1.4
- CA-676 Toe Clip Bolt, \$1.4
- CA-677 Toe Clip Washer, 204
- CA-678 Inner Dust Cap, \$1.28
- CA-679 Record Pedal Dust Cap, \$4.46 each
- CA-679/A Superlight Pedal Dust Cap, \$4.46
- CA-2103 Set Pedal Bearings, \$2.16

- CA-1044-S Nuovo Record Seatpost, 180mm length, Specify Diameter: 25.0, 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2, 27.4mm, \$33.89

- CA-4051-Z Super Record Seatpost, fluted, wide cradle, 25 to 27.4mm, 204G, \$49.95

- CA-1072 Allen Seatpost Bolt, 8mm, 8.9G, \$5.00
- CA-1070 Superlight Bolt, Drilled, 10mm, 9.7G. (Drill out frame hole to fit), \$5.00

seatpost bolt



NEW CAMPAGNOLO BELT BUCKLES, an Official Limited Edition. Will be a Collectors' Item. Brass or Pewter. CA-BB Brass, \$9.85 CA-PB Pewter, \$9.85



Campagnolo Cap, 100% cotton. Orange with Black CA-CAP \$3.45

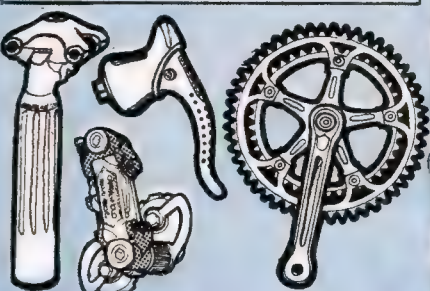
groupos

CA-1032/F-Z Campagnolo Nuovo Record Road Group: Specify normal or close reach brakes, hub flange, threads, post diameter, etc. **\$574.90**

- 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 or 1034 Record Lg. or Sm. Fl. QR Hubs, Eng.
- 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-1052/1 Record Front Derailleur
CA-2040 Nuovo Record Brake Set

CA-4000/F-Z Campagnolo Super Record Road Group: Includes Nuovo Record Items: 606, 608, 622, 626/A, 636, 649, 1014, 1052/1 plus Super Record components. **\$954.00**



- CA-1049/A-J Super Record Road Chainwheel, w/ultralight No BB, chainrings, 42/52T, 170mm crank, 954.7G, \$144.95
- CA-753/A-T Super Record Chainrings, fit Nuovo Record cranks, 42 - 57T, 63.2G, \$37.80
- CA-1020/18 Super Record Rear Derailleur, black parts, w/out hanger, 187.6G, \$80.78
- CA-1035-H Nuovo Record Lg. Fl. Hubs, 595.6G, \$87.95
- CA-1034-H Nuovo Record Sm. Fl. Hubs, 519.2G, \$80.95
- CA-4021 Super Record Road Pedals, Titanium axles, 269.8G, \$162.60
- CA-4031-T Super Record Road B.B. Set, titanium axle, 217.2G, \$148.90
- CA-4041-T Super Record Road Headset, ultralight, English, French or Italian, 151.3G, \$47.95
- CA-4051-Z Super Record Seatpost, fluted, wide cradle, 25 to 27.4mm, 204G, \$49.95
- CA-4061-Z Super Record Brake Set, complete, drilled levers, 781.7G, \$167.95

tools

- CA-338b Special Grease, 100G (3.5oz.), \$4.73
- CA-3388 Special Grease, 500G (17.5oz.), \$16.20
- CA-Q Cone Wrench 13/14 or 15/16, \$9.45
- CA-143/2 T Wrench, for brakes derailleurs, bar end shifters, \$10.13
- CA-769 Bottom Bracket Axle Spanner, \$7.76
- CA-768 Peg Spanner, for chainring bolts, \$1.08
- CA-770 Cotterless Crank Extractor, \$10.53
- CA-712 Bottom Bracket Lock Ring Tool, \$13.90
- CA-771 Seatpost Wrench, \$11.75
- CA-713 Bottom Bracket Stationary Cup Tool, \$15.94
- CA-710 Pedal Dust Cap Wrench, \$2.23
- CA-712/1 Bottom Bracket Adjusting Cup Tool, \$13.98
- Pins, \$2.84 Pair



Campagnolo Decal for downtube, CA-D 50¢ each

care

Product 1900 Clear Corrosion Preventive Compound
Prevents moisture displacing properties, including sea water. Provides maximum resistance to corrosion in the severest environments. Dries to a clear, tough, flexible film—won't collect dust or dirt. Meets the most stringent specifications. Not intended for use on moving parts which require a lubricated surface.

PC-CC \$6.75

300 Synthetic Lubricant, contains no petroleum, petroleum distillates, wax, silicones, graphite or molybdenum disulfide. Will not draw dust, dirt or moisture. Penetrates metal pores. Lasts need be used. Stops rust. Makes an excellent chain lube. Moving parts become highly polished.

5%oz. Can
PC-SL \$3.75

Motion Fluid 60, multi-purpose lubricant. Penetrates better. Also cleans, displaces moisture, and prevents corrosion. Effective on all moving parts of a bicycle. Never becomes dry, brittle or hard. Eliminates squeaks, frees up locks & cables. Rated non-flammable.

10oz. can
PC-M60 \$3.75

GOLD HIGH SPEED SEAL BICYCLE GREASE
Gold seal grease, high-grade waterproof bicycle grease especially prepared for: head bearings, hubs, forks, cranks, & pedals. Protects against wear and corrosion.

2 oz. tube only PA-GS 75¢ ea., 12/\$8.10

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
12/\$8.40

Simichrome Polishing Paste
Simichrome polishing paste great for buffing aluminum and chrome. Also can be used to polish bearing races, 2oz.

CP-SCP \$2.75

nadax®
Made in Switzerland
favorit



Sealed Bearing Bottom Bracket, for all sporting and racing bicycle frames. Ready for installation. Equipped with FAG precision ball bearings and special frictionless seals. Protected against dirt & water. Minimum friction. Increased bearing life due to stainless parts. Adjustment without clearance by manufacturer. Filled with special grease lasting for full bearing life. 244G. English or Italian. 113mm. Works w/double cranks only—Campy, Sugino, Shimano, Dura-Ace, NA-BB-T \$56.50

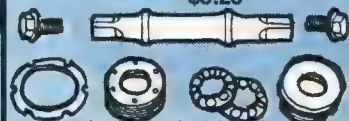


SR A5-T Super Apex-5 Touring Crankset, one piece forged Super Duralumin cotterless crank and arms. Anodized finish. Super Duralumin cold rolled chainrings. 170mm crankarms, English. Weight: Approx. 600G. Specifiy: 30 x 52T 32 x 50T 36 x 52T \$48.80 Diff. BB- Add \$6.00

SR A5-T Super Apex-5 Triple Touring Crankset, 170mm, English. Specifiy: 34/42/52T 28/40/50T 28/36/48T \$56.90 Diff. BB- Add \$6.00

SR A5-C Triple Super Apex-5 Chainrings, cold-rolled Super Duralumin. Specifiy: 28,32,34,38, 40,42,44,46,48,54T \$10.50 ea.

SR-CE Cotterless Crank Fixer and Extractor. 99G. \$5.25



SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specifiy: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specifiy: 68mm/English 68mm/French 70mm/Italian \$13.80

tools



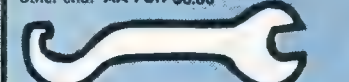
Universal Adjustable cup Spanner, AA-UCS \$5.50
Artisan Crank Bolt Socket Wrench, Specifiy: AA-CB-14, 14mm for DA, SR, Nervar, Maxy, Apex—\$2.80
AA-CB-15, 15mm for Campy, Sugino, Mighty, TA—\$2.80
AA-CB-16, 16mm for Zeus, Stronglight—\$2.80



Adjustable Cup Spanner, fits Campy, DA, Sugino and 30mm Headset. AA-ACS \$7.80
Extra Pins—AA-EP \$1.75 pr.



Fixed Cup Remover on one and fits Campy, DA, Sugino, etc. 15mm Pedal Wrench on other end. AA-FCR \$6.80



Lock Ring Spanner, fits all notched lock rings and 30mm Headset. AA-1LR \$6.50
Campy 3-Prong, AA-3LR \$6.60

bike builder's blueprint crankset installation

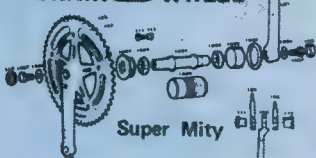
THREADING INFORMATION
B. B. ASSEMBLY
English (1.370 x 24 TPI) — Left-hand thread (Counter-clockwise)
French (35 mm x 1.0 mm) — Right-hand thread (clockwise)
Italian (36 mm x 24 TPI) — Right-hand thread (clockwise)

IMPORTANT NOTE:
Apply liberal amounts of grease to all threads and bearings before assembly.

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.

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 overtighten 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.

Sugino CHAINWHEEL



Super Mity

Our Sugino cranksets 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. And keep in mind that every part included in these cranksets 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. PAGE 21

Mity Arm Lengths of 165 & 168mm available SPECIAL ORDER-\$10.00 extra

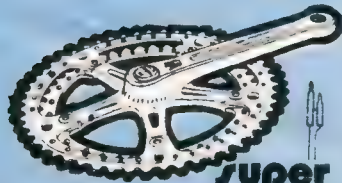


super mity compe

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 \$74.50

Chainwheel Changes, up to 54T - \$3.00 extra Chainwheel Changes, 55-64T - \$6.00 extra

MC Silver Chainwheels, Specify: SU-MCD-T 42-52T \$10.81 53-56T \$12.40; 57-64T \$15.90



super mighty custom compe

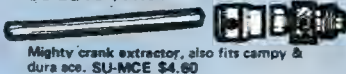
Mighty Custom Compe, with drilled silver anodized chainwheels, relieved spider. 170mm arms. Specify: 42/52T (standard) or your choice, Eng., Ital., or Fr. Ni-CR Steel Ball Cups, 68 Hollow or 70mm Axle, BB Protective Sleeve and Chainwheel Tools included. SU-MCC-J \$78.40

Chainwheel Changes, up to 54T - \$3.00 extra Chainwheel Changes, 55-64T - \$6.00 extra

MCC Silver Chainwheels, also Inner Chainwheel for MIVC. Specify: SU-MCC-T 43-52T \$14.30; 53-56T \$17.80; 57-60T \$19.80; 61-64T \$21.70



Sugino BB Tool Set, also fits campy & dura ace, tools for stationary & adj. cups and locking, allen wrench and two extra pins. SU-BBTs \$10.50



Mighty crank extractor, also fits campy & dura ace. SU-MCE \$4.60



Maxy Crank Extractor, fits I & II SU-MXCE \$4.40



mighty tour

Mighty Tour, top quality touring crankset. 34/52T, 171mm crank arms, relieved spider. Specify: Eng., Fr. or Ital. Cups; 68 or 70mm Axle. BB Protective Sleeve and Chainwheel Tools included. SU-MT-J \$74.50

Chainwheel Changes-\$3.00 extra

MT Silver Chainwheels, specify: SU-MTC-T 34,36,38,40T \$10.25; 42,44-54T \$12.40

Mighty Tour Triple, now get 15 touring speeds out of your bicycle. 34/42/52T. SU-MT-3T \$91.70

Chainwheel Changes-\$5.00 extra

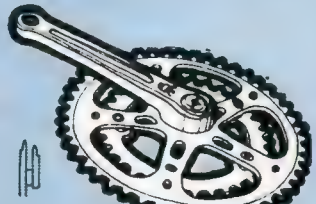


maxy II/S

Maxy Type II, uses Mighty Tour rings inner & outer, both interchangeable. A low cost cotterless alloy crankset. Crank arm is welded onto 5mm spider. 42/52T. Specify: Eng., Fr. or Ital. Cups; 68 or 70mm Axle. BB Protective Sleeve included. SU-M2-J \$41.10

Chainwheel Changes-\$3.00 extra

Silver Chainwheels, Specify: SU-M2C-T 34,36,38,40T \$10.25; 42,44-53T \$12.40



maxy I/S

Maxy I, same as Maxy II but only the inner chainwheel is interchangeable. SU-M1-J \$36.57

Chainwheel Changes-\$2.00 extra

Silver Chainwheels, Specify: SU-M1C-T 34,36,40T \$10.25; 42, 44-48T \$12.40



bottom bracket

TOTAL LENGTH		MS		68		70		72		74		76		78		80		82		84		86		88		90		92		94		96		98		100		102		104		106		108		110		112		114		116		118		120		122		124		126		128		130		132		134		136		138		140		142		144		146		148		150		152		154		156		158		160		162		164		166		168		170		172		174		176		178		180		182		184		186		188		190		192		194		196		198		200		202		204		206		208		210		212		214		216		218		220		222		224		226		228		230		232		234		236		238		240		242		244		246		248		250		252		254		256		258		260		262		264		266		268		270		272		274		276		278		280		282		284		286		288		290		292		294		296		298		300		302		304		306		308		310		312		314		316		318		320		322		324		326		328		330		332		334		336		338		340		342		344		346		348		350		352		354		356		358		360		362		364		366		368		370		372		374		376		378		380		382		384		386		388		390		392		394		396		398		400		402		404		406		408		410		412		414		416		418		420		422		424		426		428		430		432		434		436		438		440		442		444		446		448		450		452		454		456		458		460		462		464		466		468		470		472		474		476		478		480		482		484		486		488		490		492		494		496		498		500		502		504		506		508		510		512		514		516		518		520		522		524		526		528		530		532		534		536		538		540		542		544		546		548		550		552		554		556		558		560		562		564		566		568		570		572		574		576		578		580		582		584		586		588		590		592		594		596		598		600		602		604		606		608		610		612		614		616		618		620		622		624		626		628		630		632		634		636		638		640		642		644		646		648		650		652		654		656		658		660		662		664		666		668		670		672		674		676		678		680		682		684		686		688		690		692		694		696		698		700		702		704		706		708		710		712		714		716		718		720		722		724		726		728		730		732		734		736		738		740		742		744		746		748		750		752		754		756		758		760		762		764		766		768		770		772		774		776		778		780		782		784		786		788		790		792		794		796		798		800		802		804		806		808		810		812		814		816		818		820		822		824		826		828		830		832		834		836		838		840		842		844		846		848		850		852		854		856		858		860		862		864		866		868		870		872		874		876		878		880		882		884		886		888		890		892		894		896		898		900		902		904		906		908		910		912		914		916		918		920		922		924		926		928		930		932		934		936		938		940		942		944		946		948		950		952		954		956		958		960		962		964		966		968		970		972		974		976		978		980		982		984		986		988		990		992		994		996		998		1000	
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TOTAL LENGTH		MS		68		70		72		74		76		78		80		82		84		86		88		90		92		94		96		98		100		102		104		106		108		110		112		114		116		118		120		122		124		126		128		130		132		134		136		138		140		142		144		146		148		150		152		154		156		158		160		162		164		166		168		170		172		174		176		178		180		182		184		186		188		190		192		194		196		198		200		202		204		206		208		210		212		214		216		218		220		222		224		226		228		230		232		234		236		238		240		242		244		246		248		250		252		254		256		258		260		262		264		266		268		270		272		274		276		278		280		282		284		286		288		290		292		294		296		298		300		302		304		306		308		310		312		314		316		318		320		322		324		326		328		330		332		334		336		338		340		342		344		346		348		350		352		354		356		358		360		362		364		366		368		370		372		374		376		378		380		382		384		386		388		390		392		394		396		398		400		402		404		406		408		410		412		414		416		418		420		422		424		426		428		430		432		434		436		438		440		442		444		446																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Sugino Mighty Custom and Bottom Bracket assemblies consist of highest quality Sugino parts, totally suited for racing, touring or occasional riding. Each set is complete. Hollow steel axle for 68 (Eng., Fr.) or 70mm (Ital.) axle. Chrome steel bearings encased in hassle-free retainers, weight saving ridged fixed cup and multi-drilled adjustable cup, with alloy lock ring, steel crank bolts and washers, and plastic protector sleeve. Specify axle size and Eng., Fr., or Ital. threads. SU-MSD-Z Single: Eng., Fr., Ital. \$24.70 Double: Eng., Fr., Ital. \$24.70 Triple: Eng., Fr., Ital. \$26.80

Sugino Mighty Compe and Mighty Tour Bottom Bracket assemblies include: NI-CR steel 68 (Eng., Fr.) or 70mm (Ital.) axle, chrome steel bearings w/retainers, NI-CR steel fixed cup and adjustable cup, lock ring (Eng., Fr., or Ital.), crank bolts and washers, plastic protector sleeve. Specify axle size and Eng., Fr., or Ital. threads. Complete B. B. assembly-SU-MDX-Z Single: Eng., Fr. \$21.80 Double: Eng., Fr. \$15.95; Fr., Ital. \$21.80 Triple: Eng., Fr. \$22.90

Sugino Maxy I & II bottom bracket assemblies: Chrome steel 68 (Eng., Fr.) or 70mm (Ital.) axle, chrome steel bearings with retainers, chrome steel fixed cup and adjustable cup, lock ring, (Eng., Fr., Ital.), 2 fixing nuts w/integral washers, plastic protector sleeve. Specify axle size, and Eng., Fr., or Ital. Complete B. B. assembly SU-MBB-Z \$9.75

BOTTOM BRACKET PARTS. Specify: English, French or Italian.

Axle: NI-CR steel 68(Eng.,Fr.) or 70mm (Ital.) SU-MX52-Z Maxy Double-\$2.90 SU-MX53-Z Maxy Triple-\$6.50; SU-MYS2-Z Mighty Double-\$11.40; SU-MYS3-Z Mighty Triple-\$12.92; SU-MYS1-Z Track(68mm only) \$12.90

Fixed Right Cup: SU-SRC Mighty Custom,Victory-ridged,alloy-\$4.10; SU-DRG Mighty Compe, Tour,NI-CR steel-\$2.90; SU-MRC Maxy I,II, steel-\$1.55

Adjustable Left Cup: SU-SLC Mighty Custom,Victory-drilled, alloy-\$3.90; SU-DLC Mighty Compe, Tour, NI-CR steel-\$2.90; SU-MLC Maxy I,II, steel-\$1.60

Left Lock Ring: SU-SLR Mighty Custom, Victory, alloy-\$1.77; SU-DLR Mighty Compe, Tour, NI-CR steel-\$1.15; SU-MLR Maxy I,II, 65¢

Bearings: NI-CR steel,w/retainersSU-B \$1.40 pr Crank Arm Bolts and Washers: SU-15 Mighty, 15mm, 2 bolts, 2 washers 88¢ SU-14 Maxy, 14mm, 2 fix nuts w/washers 88¢

Dust Caps: SU-AC Mighty, alloy, silver-\$1.40 pr. SU-DC Maxy, plastic-90¢ pr.

Chaining Bolts, Nuts and Spacers: SU-DB Double Set-\$4.13; SU-TB Triple Set-\$6.50 SU-SB Single Set, \$4.10

Plastic Protector Sleeve, fit all- SU-PPS 75¢

Bolt Peg Spanner SU-PS-75¢ Bolt Allen Key, 6mm FE-5 60¢



TA Cyclotourist Triple Crankset, 165 or 170mm crankarms. Specify: English or French, Average Weight: 940G.

TA-TC-Z

26 to 54T - \$88.98
26 to 56T - \$90.70
26 to 60T - \$96.40
26 to 62T - \$96.90
26 to 68T - \$102.30
26 to 70T - \$109.40

TA-CR-Z CHAINRINGS-

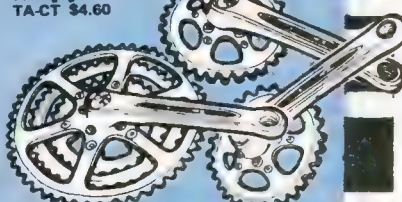
28-35, \$7.90
36-48, \$14.90
49-54, \$17.20
56T, \$18.40
58T, \$21.80
60T, \$24.73
62T, \$26.90
65, 66, 68, \$42.50
70T, \$90.00

Specify: Inner or Outer Chainrings



TA Crank Arm Tool for use on TA or Stronglight.

TA-CT \$4.60



TA-CR-T

Chainrings:

28-35, \$7.90
36-48, \$14.90
49-54, \$17.20
56T, \$18.40
58T, \$21.80
60T, \$24.73
62T, \$26.90
65, 66, 68, \$42.50
70T, \$90.00

Specify: Inner (Middle) or Outer Chainrings

small parts TA

SPINDLES

TA-SD Double for tandem front, 68mm, 114.5mm length, \$13.50

TA-ST Standard Triple, 118mm length, 68mm, \$13.50

TA-TT Rear Tandem Triple, 123.5mm length, 68mm, \$13.50

CUPS

TA-EC English, includes Fixed Cup/Adjustable Cup/Lock Ring, \$13.90 set

TA-FC French, includes Fixed Cup/Adjustable Cup/Lock Ring, \$13.90 set

TA-CDC Crank Bolt Dust Cover (2), \$2.50

TA-CAB Crank Arm Bolts & Washers (2 bolts, 2 washers), \$3.30

RT-B Bearings, 1/4", 70¢ per bag

ARMS

TA-SAR-L Standard Right Arm, 165 or 170mm, \$24.90

TA-SAL-L Standard Left Arm, 165 or 170mm, \$23.90

TA-TLF-L Tandem Front Left Arm, 165 or 170mm, \$28.90

TA-TRF-L Tandem Front Right Arm, 165 or 170mm, \$24.90

TA-TLR-L Tandem Left Rear Arm, 165 or 170mm, \$28.90

TA-TRR-L Tandem Right Rear Arm, 165 or 170mm, \$28.90

TA-ORB Outer Ring Bolts, \$2.50

TA-TCB Triple Bolts, \$5.00

WATCH for QUANTITY DISCOUNTS throughout this catalog. Great for CLUB AND TEAM PURCHASES.

***** DEALERS—Send proof of dealership for our Wholesale Price Sheet.

threads

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

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

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	26MMx1MM

Hubs

English	1.370"x24TPI *
Italian	36MMx24TPI *
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	49	44
Dura-Ace EX Long	49	57	53
Shimano 800	43	57	50
Gran Compe Sidepull*	44.5	55.5	49.5
Gran Compe 480 CP	45	57	51
Die-Compe 500G*	43	57	50
Die-Compe 730G*	52	72	62

*With Drop Bolt - Add 6mm

STOCK NUMBERS

Supplier (2)	Product (0-5)	Info Code
□□	□□□□□	□

When Ordering, you must provide all the information indicated by the last letter in the Stock Number.
Explanations of the Info Code Letters are shown here.

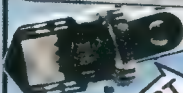
- C Color
- E Extension & Diameter (stems)
- F Fast & Color (housing)
- H Holes (wheels and hubs)
- J Threads, Teeth, B.B. Width, Arm Length (cranks)
- K Size & Color (clothes, frames)
- L Length (spokes)
- M Model
- T Threads (headset, B.B.) or Teeth (chainrings, sprockets)
- V Threads & Teeth (freewheel)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

bike warehouse



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. 40.7G.
Colors: White, Black, Blue, Red

bike warehouse

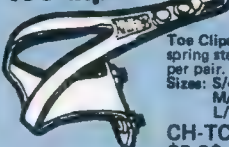


BW-TS-C
\$1.90 PAIR



christophe

toe clips



Toe Clips, top quality spring steel. 63.4G. per pair.
Sizes: S/4-8
M/8 1/2-10
L/10 1/2-12 1/2

CH-TC-Z
\$2.90 pr.



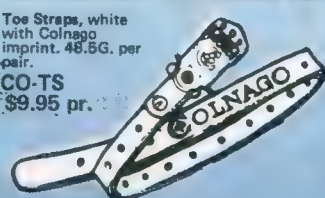
Christophe toe straps. Pro straps are supple leather with Christophe stamped in fine outlined silver letters. Quick-release buckle has Binda-style release with ferruled roller. 48.1G.
Specify: White, Red, Blue or Black

CH-TS-C \$3.25 pr.

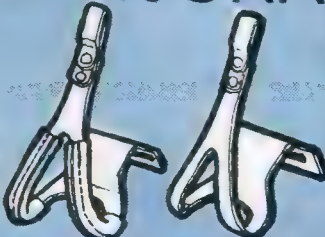
COLNAGO

Toe Straps, white with Colnago imprint. 48.5G. per pair.

CO-TS
\$9.95 pr.



MINOURA



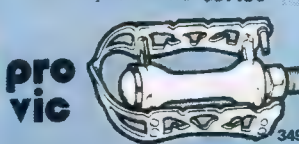
Stainless Steel Toe Clips, high quality steel with sewn natural leather toe guards. Natural finish. Weight: 68G. Sizes: S,M,L,LL
MN-STC-Z \$4.95

Aluminum Toe Clips, made of new springy aluminum alloy. Weight: 40G. Silver finish. Sizes: S,M,L,LL
MN-ATC-Z \$6.95

pro ace



Pro Ace Road Pedals, Campy copy, alloy body. Chromomoly shaft. Clip and strap attachable.
353G. Silver, KK-PAS-T \$36.80
Black, KK-PAK \$37.80

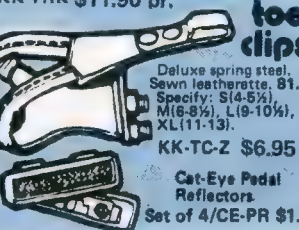


Pro Vic Alloy Pedal-alloy body like Pro Ace but with an alloy cage like Top Run. Lighter than both. Clip and strap attachable. English Silver KK-PVS-T \$20.50 or French

top run

Top Run Alloy Cage Pedal, lightweight, well-built, steel-bodied pedal. Eng. 460G.

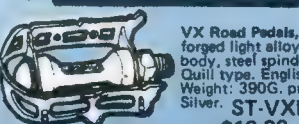
KK-TRS \$10.75 pr.
Black Top Run Pedal, same as above but with black alloy cage. Eng. Pair.
KK-TRK \$11.90 pr.



Deluxe spring steel. Sewn leatherette. 81.5G. Specify: S(4-5 1/2), M(6-8 1/2), L(9-10 1/2), XL(11-13).
KK-TC-Z \$6.95

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

SunTour



VX Road Pedals, forged light alloy body, steel spindle. Quill type. English. Weight: 390G. pr. Silver. ST-VXP \$18.80 pr.

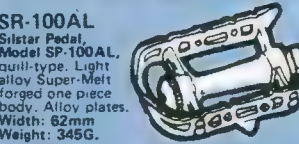
SUPERBE



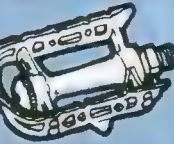
Superbe Pro Pedals, hollow chromomoly spindles, sealed roller bearings, forged aluminum "H" design bodies. Black cage. 300G. pair.

ST-SPP \$68.60pr.

SAKAE



SR-100AL Sistar Pedal. Model SP-100AL, quill-type. Light alloy Super-Melt forged one piece body. Alloy plates. Width: 62mm. Weight: 345G.
\$14.80



SR-100BL Sistar, Alloy, Black, \$14.80

Campagnolo



CA-1037 Nuovo Record Road, chrome, 415.7G., \$59.97
CA-1037/A Nuovo Record Road SL, black, 332.8G., \$74.50
CA-1038/A Nuovo Record SL Track, black, 322.4G., \$80.95
CA-3700 Gran Sport, silver, 498.8G., \$46.46
CA-4021 Super Record Road, titanium axles, 269.8G., \$158.40

ALFREDO BINDA toe straps



Super quality, soft leather. Quick-release buckles. Specify: Black, White, Blue, Red.
CA-AB-C \$7.45 pr.

BINDA extra

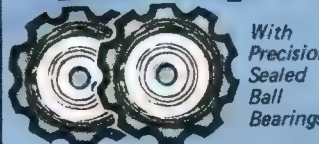
The best strap available. Two leather straps are bonded with nylon permitting almost no stretch.
Off-White. CA-BE \$12.95 pr.

RELIANT bearings

Reliant Ball Bearings, the finest chrome steel balls, polybagged. Specify Size or Use. Sizes: 1/8", 5/32", 3/16", 1/4"

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

bullseye pulleys



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 and maintenance, but are removable for inspection. Easy installation on any derailleur; no cones to adjust.

DU-BP \$15.70 pr.

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 \$35.88



CI-1A-Z \$24.89

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.



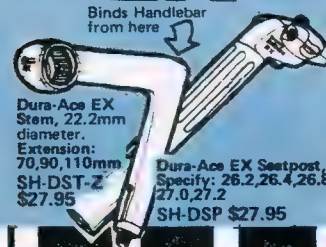
Mod. 63, 66 are engraved "Champion Del Mondo". Mod. 64 is engraved "Giro D'Italia". They all vary slightly in width, drop and reach. We suggest you order by: Wider, Narrower, More Drop, Less Drop, Etc. All models are available in Widths: 38 or 40cm. Mod. 66 is also available in 42cm. wide.

Mod. 63 - CI-63-Z \$22.80
Mod. 64 - CI-64-Z \$22.80
Mod. 66 - CI-66-Z \$22.80



Mod. 65, is engraved "Cinelli", track style with narrow center section and immediate forward reach. Widths: 38, 40cm. Mod. 65 - CI-65-Z \$21.80

DURA-ACE EX



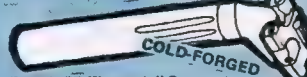
Dura-Ace EX Stem, 22.2mm diameter. Extension: 70, 90, 110mm SH-DST-Z \$27.95

Dura-Ace EX Seatpost. Specify: 26.2, 26.4, 26.6, 27.0, 27.2 SH-DSP \$27.95

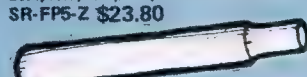
SR SAKAE



Custom P5 "Laprade" Seatpost, melt-forged high-strength light alloy pillar, bracket & supporter. Adjustment by a single bolt from below. Pillar Length: 220mm. Weight: 270G. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-P5-Z \$11.25



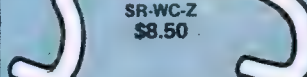
Foursir P5 "Laprade" Seatpost, forged Super Duralumin pillar, bracket & supporter. Anodized finish. Top class racing model. Pillar Length: 190mm. Weight: 200G. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-FP5-Z \$23.80



ASP Seat Pillar, melt-forged high-strength rustless light alloy. Length: 235mm. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-ASP-Z \$6.95



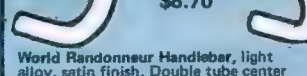
SR-WC-Z \$8.50



World Custom Handlebar, light alloy, anodized finish. Double tube center section. Diameter: 23.8mm. Reach: 96mm. Specify Width: 370mm/145mm drop/Weight: 305G. 390mm/145mm drop/Weight: 305G. 420mm/160mm drop/Weight: 310G. SR-WC-Z \$8.50



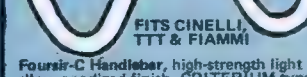
SR-WR \$8.70



World Randonneur Handlebar, light alloy, satin finish. Double tube center section. Engraved. Diameter: 23.8mm. Drop: 120mm. Width: 420mm. Reach: 37mm. Weight: 305G. SR-WR \$8.70



FITS CINELLI, TTT & FIAMMI



Foursir-C Handlebar, high-strength light alloy, anodized finish. CRITERIUM type. Diameter: 26.4mm. Reach: 80mm. Specify Width: 380mm/150mm drop/Weight: 310G. 400mm/150mm drop/Weight: 320G. 420mm/150mm drop/Weight: 335G. SR-FC-Z \$18.90



FITS CINELLI



Foursir-G Handlebar, high-strength light alloy, anodized finish. GIRO D'ITALIA type. Diameter: 26.4mm. Reach: 105mm. Specify Width: 380mm/160mm drop/Weight: 310G. 400mm/160mm drop/Weight: 320G. 420mm/160mm drop/Weight: 335G. SR-FG-Z \$18.90



All-Rounder Handlebar, light alloy. Often used as rear tandem bars. 32mm center. Diameter: 22.2mm. Raised: 45mm. Width: 505mm. Weight: 180G. SR-AR \$7.50



Foursir Stem, forged Super Duralumin, anodized finish. Stainless steel 6mm expander bolt & binder bolt. Diameter: 22.2mm. Specify Extension: 80mm/135mm/210G. 100mm/135mm/230G. 120mm/135mm/250G. SR-FS-Z \$19.25

Swen Stem, for those who prefer a shorter reach. Melt-forged light alloy. Extension: 50mm. Diameter: 22.2mm. Length: 230mm SR-SS \$9.90

Royal II Stem, forged Super Duralumin. Anodized finish. Allen head expander and binder bolts. Cr-Mo steel 6mm bolts. Specify Diameter: 22.0mm, 22.2mm, 0.833"

Specify Extension: 70mm/135mm length/250G. 90mm/135mm length/240G. 130mm/135mm length/310G.

SR-RY-Z \$11.80

Apex Stem, forged Super Duralumin. Anodized finish. Diameter: 22.2mm (Some sizes also available in 0.833" - Please Specify). Specify Extension: 60mm/135mm length/330G. 80mm/150mm length/320G. 100mm/150mm length/340G. SR-AX-Z \$9.50

Sislar 100AL Pedal, quill-type. Melt-forged light alloy body. Alloy plates. Screw dust cap. Width: 61mm. Weight: 345G. 9/16" English SR-100AL \$14.80

SR-100BL Sislar Pedal, BLACK, \$14.80

rolled chainrings. 170mm crankarms, English. Weight: Approx. 600G. Specify: 30 x 52T 32 x 50T 36 x 52T \$48.80 Diff. BB-Add \$6.00

SR-A5-T Super Apex-5 Touring Crankset, one piece forged Super Duralumin cotterless crank and arms. Anodized finish. Super Duralumin cold

SR-A5-T Super Apex-5 Triple Touring Crankset, 170mm, English. Specify: 34/42/52T 28/40/50T \$56.90 Diff. BB-Add \$6.00

SR-A5C-T Super Apex-5 Chainrings, cold-rolled Super Duralumin. Specify: 28, 32, 34, 38, 40, 42, 44, 46, 48, 54T \$10.50 ea.

SR-CE Cotterless Crank Fixer and Extractor. 99G. \$5.25

SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$13.80

SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$13.80

SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$13.80

SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$13.80

seatpost length

(Allow 2" inside seat tube)

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

All Columbus Tubing Frames take a 27.2 Seatpost.

Seat Post size to use-by seat tube opening

MM / Decimal / Fraction	MM / Decimal / Fraction
25.0 .9843 63/64	26.8 1.0651 1-1/16
25.8 1.0157 1-1/64	27.0 1.0629 1-1/16
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 1-5/64
26.4 1.0394 1-3/64	
26.6 1.0472	

A cut piece from your existing post would help.

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.

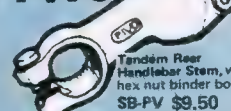
Saddle Position: (Forward to rearward) Again sitting on the saddle with one foot in the toe clip - this time with one pedal in the forward 9-00 position. A line perpendicular to the road should run through the pedal axle and the joint in your knee. Move your saddle forward or back till this is so.

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:

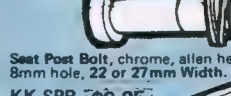
INCHES	center to center	MM (cm-remove 0)
2 3/8	80	80
2 3/4	70	70
2 1/2	60	60
2 1/4	50	50
2 3/8	100	100
2 3/4	90	90
2 1/2	80	80
2 1/4	70	70
2 3/8	120	120
2 3/4	110	110
2 1/2	100	100
2 1/4	90	90

PIVO



Tandem Rear Handlebar Stem, w/ hex nut binder bolt. \$8-PV \$9.50

KK-SPB Allen Bolts, 27mm, \$2.35 each (extra)



Seat Post Bolt, chrome, allen head, 8mm hole, 22 or 27mm Width.

KK-SPB \$3.25

INCLUDES TOOL



SAVE YOUR GAS... let your mail do the shopping

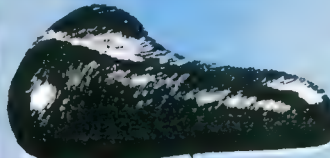


The Avocet Saddle Design System, now, every aspect of the cyclist's pelvic structure gets the support it needs. Varying thicknesses of the molded nylon shell disperse the pressure of the rider's bodyweight over a greater area than with conventional saddles. As the pelvic bones contact the saddle, the padded bumps are displaced and the pressure points (arrows) are relieved. The thinned nylon shell regions below the padded bumps give in a downward direction, thus, distributing support around the pelvic contact points. The padded bumps and thinned nylon shell combine to provide maximum comfort. The lowered area between the bumps prevents irritation in the crotch area.



Mens Model I Saddle, features a softer nylon shell and a thicker, softer (less-dense) polyurethane padding. This is an ideal design for the beginner & intermediate cyclists. Smooth Black.
AV-M1 Mens Model 1, \$21.75

Mens Model II Saddle, designed for the more experienced racer or tourist who desires a firmer nylon shell and pad for optimum efficiency during extended riding. Smooth Black.
AV-M2 Mens Model 2, \$28.75



Avocet has taken into account the differences in width and construction between the mens pelvic structure and the womens, by designing Model I & Model II Saddles specifically for women. They feature a broader nylon shell and a repositioning of the saddles' molded anatomic pads. Both models are Smooth Black.
AV-W1 Womens Model 1, \$21.75
AV-W2 Womens Model 2, \$28.75

BROOKS



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 \$36.88



Model B72, wider for extra comfort, plus coil springs for added resilience

BR-72 \$28.80

Brooks Profide Leather Dressing, for use on smooth leather (not for suede or cowhide). Conditions, preserves, waterproofs, restores. 2 oz. can BR-P \$2.60



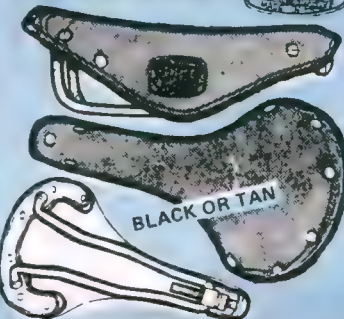
Cyclepro
TOURING SADDLE



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 - CP-TSM \$17.50
Women's Black Smooth - CP-TSW \$17.50
Men's Black Suede - BW- CP-TSS \$17.50

IDÉALE



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. \$31.80
Tan - ID-90N
Black - ID-90K

B6 woman's model. Tan leather, not for use with Campy type seat posts.
ID-B6 \$13.50



SUPER COMFORT REAL FLEECE

Sheepskin Seat Cover, over 1" thick fur fleece. Allows air circulation and helps prevent chafing and sticking. Finished edge and drawstring keeps it in place. Color: Natural
2 Sizes: SC fits Pro-type saddles LSC fits Wide & Ladies saddles
SL-SC Pro-type, \$8.50
SL-LSC Ladies/Wide, \$9.25



bike warehouse

Seat Cover, K-Koted nylon cover with elastic closure. Protect your saddle from the elements and keep your rear end dry. Universal sizing. Yellow. BW-SC \$2.50

BIKEWARE BLUE Now Available

BIKEWARE BAGS- All bags are made of durable waterproof Oxford Pack Nylon. Colors: our exclusive Special Burnt Orange (brownier than International Orange) or Blue. 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 bags.



"Annie" Seat Bag, has quick-release adjustable buckle fasteners so bag can be used on saddles with or without accessory clips. Wrap-around double pull zipper. Zipper rain flap. Nylon reinforcement strap. Red safety reflector. Instructions are included for mounting.
BW-A-C \$12.75



"Holly" Tire Sock and Utility Bag, superb stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction the top tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't hit the bag even on narrow racing saddles. Holds two tires, tools or other gear.
Weight: 3 oz. Colors: Orange or Blue
BW-H-C \$8.80



CD-B021-C Seat Bag, lightweight materials, QR latches, Poly-lined interior & carry handle. 3lb. limit. Capacity: 232 cu.in. Weight: 5 oz. Colors: Red or Blue \$7.90



Gatorade

THIRST QUENCHER

Powdered. 5% glucose mixture containing sodium, potassium chloride, and phosphate. 8 oz. per package makes 1 gallon. Use 3 tsp. per 8 oz. cup/3 tbsp. per waterbottle.

GA-O Orange or GA-L Lemon-Lime
1 Pack/\$1.25, 5/\$5.00, 10/\$9.50



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 be 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 powdered gatorade. Mix gatorade by the waterbottle full as desired.

WHY USE 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 and Stamina.

**bike
warehouse**



Rollers

Manufactured by



5 Year Manufacturer
Guarantee

GOLD ANODIZED

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

Dual Belt Drive. quieter
with a more even pull.

MT-EB Extra Belts, \$6.25 ea.

OPTIONAL Stewart Warner
Speedometer w/Resettable
Odometer, MT-S \$16.50

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

Adjustable to 6 Wheelbases
from 38" to 43". Fits track
to touring bikes

Oak Platform
Steps, for
safety & easy
mount/dismount.

Attaches easily to side rails.
Self-leveling legs. MT-P

**NOW ONLY
\$29.50 set**

PLASTIC DRUMS

\$89.90

MT-PR

UPPER
SPECIAL

w/Steps MT-PRP \$109.90

ALUMINUM DRUMS

\$139.90

MT-AR.

SUPER
SPECIAL

w/Steps MT-ARP \$159.90

CHOICE OF 2 DRUMS

Plastic with Nylon End Caps

OR

Aluminum w/Nylon End Caps



1 YEAR
WARRANTY
SUPPLY
LIMITED

TO-FR

\$74.80

FOLDING

Rollers

Molded (not extruded)
Smooth Nylon Rollers

16" Wide

Tubular Steel Frame
Construction

Rubber
Base Pads

Precision Bearings

ORANGE Rollers and BLACK Frame

Infinite
Wheelbase
w/Allen
Adjustment

Recessed Single Belt Drive

TO-B Replacement Belts, \$6.50 each

No high side rails so there's no risk of trapping
your wheel between roller and rail.

we try to ship same day

Call Before 3:00pm - SPECIFY RUSH

rims

NOW MADE BY WOLBER

SUPER COMPETITION CHAMPION

clinchier rim

Super Champion Clincher Rim, 16mm inside width. Use with wide tires. Schrader valve hole. 36 Hole. Specify: 27" (530G) or 700c (560G).

WO-SCC-Z \$13.25 ea., \$24.90 pr.



New Super Champion "Gentlemen" Clincher Rims, 20mm wide, 27" (485.2G) or 700C (482.2G), silver, 36H. Presta Valve Hole

WO-SCG-Z \$12.80 ea., \$24.10 pr.



Record du Monde Tubular Rim, for light road and criterium. Silver, 36H. Width: 19.5. Weight: 310G, 700C.

WO-SCR \$13.25 ea., \$24.10 pr.



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

WO-SCA-Z \$13.25 ea., \$24.10 pr.

LIMITED SUPPLY

RIGIDA



Rigid 13mm 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 13 mm inside width, double width, double wall construction for strength and the tube support.

Specify: 700c (430G) (Same as tubulars) or 27" (430G). Great when used with Wolber W'20' 700c.

RI-1320-Z \$12.50 ea., \$22.55 pr.



clinchier

RIGI-ALU Clincher Rim an alloy clincher with eyelets. Now with Presta valve holes. 36H.

Specify: 27" (520G) or 700c (540G)

RI-RA-Z \$11.50 ea., \$21.95 pr.

FIAMME red label

Fiamme Red Label Tubular Rim, 360G., 21mm wide, 36H, highly polished.

FI-R-H \$13.50 ea., \$25.25 pr.

Fiamme Gold Label Ergal Tubular Rim, super strong, superlight "Ergal" composition, 290G., 20.4mm wide, satin finish. 28, 32, 36H.

FI-E-H \$20.20 ea., \$38.75 pr.

AMBROSIO



Tubular Rims, special alloy. Unusual dull grey finish due to heat treatment. 36H standard.

CA-AM-H Montreal (350G.) \$65.00 pr.

CA-AS-H Synthesis (310G.) \$85.00 pr.

NEW AMBROSIO CLINCHER RIMS, heat-treated. 410G. 36 Hole. Dull Grey finish. Specify: 27 x 1 or 700 x 25. CA-AC-Z 65.00 pr.

ARAYA

AERODYNAMIC RIMS, Tubular and Clincher. Due to arrive in July. Call for availability. ABOUT \$40 pr. AY-ACT Tubular AY-ADC-Z Clincher

rim grommets

BW-RG 50¢ pr. 5 pr./\$2.00

Now adapt your Schrader holed (clinchier) rims to take the new efficient Presta valved tubes. Makes the hole smaller preventing cuts in the stem and tube.



TUBULAR

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. \$1.80 roll (enough to do 1 pr.) 10 rolls/\$14.50



CLINCHER rim strip

For all rims

CP-RS 45¢ each

TUBULAR rim cement



Top quality Tubastri Sew-up Glue. TO-RC \$1.40 10/\$12.90

care

Tubular Rim Glue Remover, most cements are removed from rims in less than 10 minutes. Lower in toxicity. Removes decals in seconds. Removes tar from bicycle frames-harmless to most paints. Cleans rims and spokes-harmless to tires. Use paper towels for cleaning. Rated non-flammable. Comes with brush in the cap.



PC-GR \$3.75

tubulars

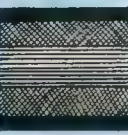
hutchinson

hutchinson - gommitella spa



Sprint Anticrevaillon, for touring. Self-sealing, heavy duty butyl tube. Pure cotton body, replaceable valve. 23mm. 330G. 85/100 P.S.I.

HT-SA \$15.50 ea., \$29.90 pr. \$144.50/5 prs.



Supersprint 280, touring & training. Butylite tube. Pure cotton body, 23mm. 280G. 85/100 P.S.I.

HT-SB \$13.50 ea., \$24.90 pr. \$119.50/5 prs.



GTX 80 Corsa, sem-pro racing. Latex tube is lighter & holds air longer than butyl. Fine cotton body. Replaceable valve. 23mm. 260G. 85/100 P.S.I.

HT-GL \$17.50 ea., \$33.90 pr. \$166.50/5 prs.

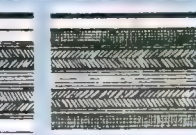


Cross TR, cross-country training and racing. Butylite tube. Pure cotton body. Replaceable valve. 26mm. 350G. 85/100 P.S.I.

HT-TR \$13.50 ea., \$24.80 pr. \$119.50/5 prs.

Valve Replacements-HT-VR 90¢ ea

NATIONAL



230G 270G, 300G

National Tubular Tires, butyl tube, nylon carcass. Specify: 230, 270, 300G

CP-NT-Z \$16.20 ea. \$29.90 pr.

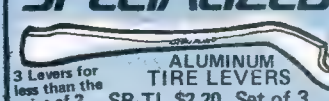
SPECIALIZED

Specialized Tubulars, 100% finest cotton. Two part Presta valve. Inner tube of Latex or Butyl. Highest quality natural rubber. Mixed tread pattern for optimum performance. All tubulars inflation tested.

Specialized 300/Butyl, SB-30B \$14.60 ea. Specialized 270/Butyl, SB-27B \$16.25 ea. Specialized 240/Latex, SB-24L \$18.80 ea. Specialized 220/Latex, SB-22L \$21.60 ea.

Valves are replaceable-HT-VR 90¢ ea. All SBI Tubulars are inflation tested

SPECIALIZED



ALUMINUM TIRE LEVERS

SB-TL \$2.20 Set of 3

AFA Tire Levers, steel, set of 3

TO-TL 80¢



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

WOLBER



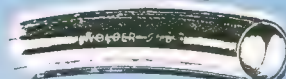
WO-L "Leader"- our most popular. The fabric of this tubular is made of the same fine Egyptian cotton thread as that used in the handmade types. The hard ribbed thread is supported by an elastic rubber strip. Fitted with extra light pure gum tube. (270G) Small 24 mm section, translucent sidewalls. \$14.50 ea., \$27.90 pr., 5 pr./\$124.30



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. \$11.90 ea., \$21.50 pr., 5 pr./\$97.60



WO-TR "Toureiste Renforce" Great for year round hard use. Mixed tread (370G) butyl tube \$11.60 ea., \$20.90 pr., 5 pr./\$95.30



WO-NP "Neo Pro" vulcanized tubular with the advantages (weight, responsiveness) of a high-priced handmade tubular. (252 G), 22 mm section. \$16.40 ea., \$30.90 pr. 5 pr./\$142.80

WOLBER

THE MOST FLAT RESISTANT TIRE WE HAVE EVER SEEN

"INVULNERABLE" TUBULAR

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 la fine file tread. 280G.

WO-IT \$22.45 ea., \$44.20 pr. 5pr/\$198.50

CP-TGP Presta

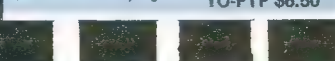
Tire Gauge, accurate and shock proof. Calibrated 50 to 140 lbs. Schrader has valve tool in head.



CP-TGS Schrader

CP-TGP Presta, \$3.90 ea.

CP-TGS Schrader, \$3.90 ea.



PRESSOGRAPHE Tire Pressure Gauge, for Presta tires only. Sturdy plastic construction with easy-to-read gauge. Record pressure in both lbs. per sq. in. (PSI) and in atmospheres (Barometric). Comes with a convenient carrying case. TO-PTP \$6.50

BIKE WARE

"Holly" Tire Sock and Utility Bag, superb stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction of the tire tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't let the bag even on narrow racing saddles. Holds two tires, tools or other gear. Weight: 3 oz. Colors: Orange or Blue
BW-H-C \$8.90

REG
Spare Tubular Holder, clamps to the saddle rails & snaps together.
RG-STH \$2.50

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
□□-□□□□□□-□
When Ordering, you must provide all the information indicated by the last letter in the Stock Number. Explanations of the Info Code Letters are shown here.

C Color
E Extension & Diameter (stems)
F Fast & 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)
V Threads & Teeth (freewheel)
Z Size (seatpost, clothes, rims, tires, toe clips, bearings and width of handlebars)

SAVE YOUR GAS... let your mail do the shopping

VELOX

Tresse Fond Clincher Rim Strip, for narrow rims, adhesive backed for easy installation.
VE-TF \$2.00 set 10 sets/\$16.50

*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. **\$1.50 10/\$13.00**

floc kit
VE-FK Complete kit to repair the inner tubes of your clinchers. **\$1.60 6 PATCHES 10/\$15.00**

clincher & tubes

WOLBER



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

W"20" - The smallest and finest cotton cord clincher. Cotton is softer which is needed in such a high pressure tire (100lb psi). Only 1/4" (20 mm. section). Special Tube sold below. Both weigh only 340G. Works great with 13mm rims.
27" or 700C.

W-23" INVULNERABLE CLINCHER, A STEEL RADIAL FOR YOUR BIKE. All the technology used in the invulnerable Tubular. Combined with the responsiveness of the W"20" Clincher. 465G. Cotton-Cord construction—We highly recommend this tire for flat free touring. 100PSI. Specify: 27 x 1 1/8 or 700c x 1 1/8

W-23-Z \$17.95 ea. \$34.50 pr.

W-23T Tube, designed for W"23" tires for a perfect fit. Presta. \$3.50 ea., \$5.95 pr.

NATIONAL



CP-TT-Z
\$6.95 ea.
\$13.10 pr.

Touring Tire, a clincher tire designed for long life-perfect for the serious tourist. The special "S" groove provides better traction. Made of the finest materials, this gumwall lasts longer, has low rolling resistance, and offers improved cornering and braking. Size: 27x1-310G/100PSI 27x1 1/8-450G/100PSI 27x1 1/4-470G/90PSI 700x28c-406G/90PSI 700x25c-305G/100PSI

INNER TUBES

27x 1 or 700c x 1 (interchangeable). Specify: IN-SP Presta or IN-SS Schrader \$3.25 ea., \$5.95 pr.

27x 1 1/8 or 700c x 1 1/8 (interchangeable). Specify: IN-MP Presta or IN-MS Schrader \$2.85 ea., \$5.15 pr.

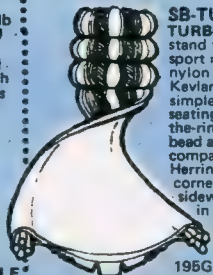
27x 1 1/4 or 700c x 1 (interchangeable). Specify: IN-LP Presta or IN-LS Schrader \$2.75 ea., \$5.10 pr.

26x 1 3/8, IN-T26 Schrader only \$2.80 ea., \$4.90 pr.

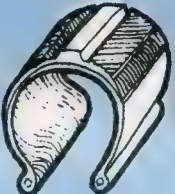
SPECIALIZED



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 or 700 x 28C. **\$15.60 pr.**



SB-TTU-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. **\$14.25 ea.**



SB-UL-Z Specialized ULTRA LIGHT Tire, for General use, Sport riding to Racing. Steel bead. 95PSI. 225G. 27 x 1 or 700 x 25C. **\$10.25 ea.**



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. **CP-TS \$1.25 pr. 10 pr./\$11.50**

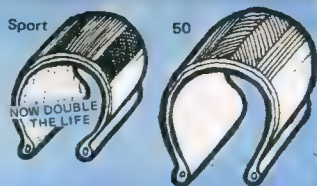
REMA



Clincher Patch Kit, with super thin patches with tapered star edges, glue, and plastic case. **SB-RM \$1.25 10/\$11.00**



MICHELIN



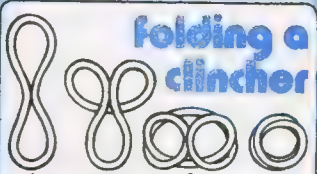
MI-BS Bib Sport, 27 x 1 1/8, narrow ribbed tread, 300G, 90PSI. \$6.20 ea., \$11.50 pr.

MI-50 Michelin Fifty, 27 x 1 1/4, Chevron tread 480G/85PSI. \$5.50 ea., \$10.25 pr.

MI-T Translucant Clincher, 26 x 1 3/8, 22 tread. \$4.85 ea., \$8.75 pr.

MI-TS7 Elan Foldable Clincher, extra-narrow, Fiberglass bead, 90PSI, 185G., 700C only. \$4.95 ea., \$8.90 pr.

(Use the Sport Tube w/the Elan TS)



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 TIRE/RIM COMPATABILITY

**A: Recommended
B: Will Work
C: Dangerous**

Specify 27" or 700C

		Super Champion Mavic Modular E Rigid 13x20	Gentlemen 13mm	Super Champion Mavic Modular 3 Rigid 16mm	(std. clincher)
Wolber W20	3/4" - 20C	A	C		
Specialized Turbo S IRC Roadlite Z IRC Handy Tour National RRE	1" - 25C	A	C		
Specialized Touring Specialized Touring Turbo IRC Super HP Gumwall Specialized Ultra Light Michelin Elan	1 1/8" - 28C	A	B		
Specialized Touring IRC HP Gumwall Michelin Fifty	1 1/4"	C	A		

ALL TUBULAR TIRES FIT ALL TUBULAR RIMS



Design your own custom-built wheels. Select any rims, spokes and hubs. Choose from Radial to Cross in any combination like 3 Cross in front; Radial left-4 Cross right in rear). We will lace, true and pack your wheels in a special carton.

\$12.00 each, \$24.00 pair
(Plus Cost of Individual Components)

NOTE: Spokes are priced separate for Custom Wheels Only.
D1, 14, 18 each
15/16/15, 29¢ each
Torrington, 8¢ each

EXAMPLE:

Rim: Rigid 13/20 \$22.55
Spoke: DT 14g \$17.99
Hub: Avocat Mod. 1 \$44.99
Lace, True, Box \$24.00
Front: 3 Cross
Rear: 3 Cross
Shipping \$104.10
\$3.75
\$107.85

IMPORTANT: Specify Rim Size, Hub Flange and Rear Hub (5 or 6 speed). Advanced Money Order or Credit Card only. NO SHIPMENTS TO CANADA

Our Custom Wheels are professionally laced and trued to perfection for even spoke tension and smooth ride. Guarantee 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 custom-build programs which allow required or no-lacing & spoking.

PLEASE NOTE: If you have special requirements (heavy-duty, racing, riding, racing, heavy-duty, racing, rider (120lb), was a road bike or a strong), and we will produce the custom wheels and spoke pattern to best suit your needs.

Tires & Frenwheels are NOT Installed ALLOW 2 - 3 WEEKS

custom wheel order form
Attach to full size order form.

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

BUDGET WHEELS

NO SHIPPING TO CANADA

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, Rigid 13 x 20, Super Champion, or "Gentlemen" clincher rims, 27" or 700C; SunTour VX S.F. or Shimano 600 S.F. hubs; X4 Torrington spokes. Specify: 27" or 700C
BW-PC-Z Front/\$32.50 ea., Rear/\$38.50 ea. Front & Rear/\$65.90 pr.

TOURING CLINCHER Budget Wheel, Super Champion or Rigid rims, 27" only; SunTour VX S.F. or Shimano 600 S.F. hubs; X4 Torrington spokes. Specify: Front or Rear
BW-TC Front/\$31.50 ea., Rear/\$35.50 ea. Front & Rear/\$62.90 pr.

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

SOLD IN 100'S ONLY
THE SPOKES
Finest Swiss Quality

SB-SS-Z Stainless steel, Straight, 14 gauge \$17.50 per 100. Nipples included

SB-SD-Z Stainless steel, Double-Butted, 15/16/15 gauge. Nipples included. \$24.50 per 100

Both spokes available in Sizes (Specify): 292, 296, 298, 302, 305, 308, 310mm

SB-AN-Z Alloy Nipples, 15 gauge, \$9.00 per 100

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 1/2" 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 \$7.98 Per Hundred (in one size)

SOLD IN 100'S ONLY

AERODYNAMIC SPOKES, The Racers Edge—reduces wind resistance by 7% to 10% over comparable round spokes. Made of Stainless Steel for strength and corrosion resistance. 14 Gauge. Specify Size: 295, 299, 302, 305mm Box of 72 CP-AD-Z \$21.50

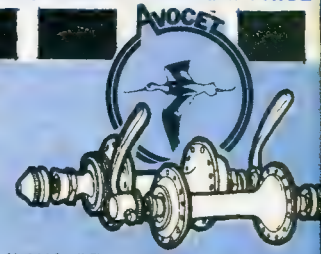


spoke wrench

Fits Japanese spokes
CP-SW 66¢ each



Professional Spoke Wrenches, GREEN for D.T., Torrington, and Robergel. RED for Japanese spokes.
PT-SW-G Green, \$3.80
PT-SW-R Red, \$3.80



Model I Small Flange Hubs, for the cyclist who prefers to maintain his own equipment. This hub features traditional adjustable cones and Avocat press-fit hardened steel bearing races that are precision-ground. Model I Hubs come with chromed steel quick-release skewers. 36 Hole. 5-speed.

AV-HS \$44.59 pr.
Model II Sealed Small Flange Hubs, this single-piece, small flange hub made from cold-forged aluminum is unsurpassed for its strength and beauty. The Model II is designed with adjustable, precision sealed bearings that require little if any maintenance. Cone bearing races are machine ground and polished to a mirror finish. Lightweight alloy Quick-release skewers with aluminum skewer heads. 36 Hole. Specify: 5-speed or 6-speed Rear Hubs.
AV-SHS-Z \$69.69 pr.

PINO MORRONI



Pino Morroni Skewers, superlight skewer with titanium shaft and alloy end caps. Only 118 grams per pair. PI-SK \$26.90 pr.



Sturmey-Archer 5 speed. Hub and Control Levers, w/ cables & hardware. 18T standard. 36H only.

GEAR RATIOS:
Super Low-decrease of 33%
Low-decrease of 21.1%
Normal-direct drive
High-increase of 26.6%
Super High-increase of 50%



SA-5H \$54.95
115mm. Hub Weight: 1,033G.

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

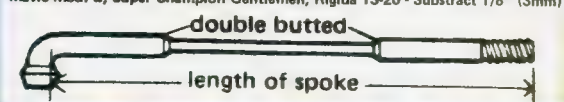
SPOKE SIZING CHART

HUBS	LOW FLANGE				MED. FL.		HIGH FL.	
	FRONT ONLY	BOTH	REAR ONLY		Lo	Hi	Lo	Hi
SPOKE CROSS	H-E TT	Pro - Am	Dura Ace 600 Campagnolo Super Record Shimano Dura-Ace Bullseye	Pro - Am	Phil Wood Sealed Sunshine (Front and Rear)	Pro - Am Sealed Sunshine Campagnolo Super Record Shimano Dura-Ace Bullseye	Lo	Hi
Radial & X1		292mm 11 1/2"	288mm 11 3/8"		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"
A-129, A-124 - Add 1/4" (6mm)
Mavic Mod. 3, Super Champion, Rigid Alu - Add 1/8" (3mm)
Mavic Mod. E, Super Champion Gentlemen, Rigid 13-20 - Same

FOR 700C
A-129, A-124 - Add 1/8" (3mm)
Mavic Mod. 3, Super Champion, Rigid Alu - Same
Mavic Mod. E, Super Champion Gentlemen, Rigid 13-20 - Subtract 1/8" (3mm)

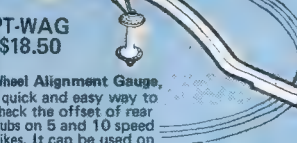


Park



Wheel Truing Stand, chrome-plated steel construction. Self-centering wheel dishing is automatic. Comes assembled.

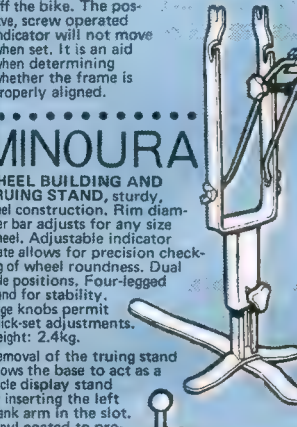
PT-TS \$139.50



Wheel Alignment Gauge, a quick and easy way to check the offset of rear hubs on 5 and 10 speed bikes. It can be used on any size wheel on or off the bike. The positive, screw operated indicator will not move when set. It is an aid when determining whether the frame is properly aligned.

PT-WAG \$18.50

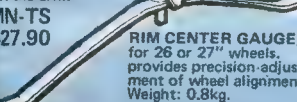
MINOURA



WHEEL BUILDING AND TRUING STAND, sturdy steel construction. Rim diameter bar adjusts for any size wheel. Adjustable indicator plate allows for precision checking of wheel roundness. Dual axle positions. Four-legged stand for stability. Large knobs permit quick-set adjustments. Weight: 2.4kg.

Removal of the truing stand allows the base to act as a cycle display stand by inserting the left crank arm in the slot. Vinyl coated to protect the arm.

MN-TS \$27.90



RIM CENTER GAUGE, for 26 or 27" wheels, provides precision adjustment of wheel alignment. Weight: 0.8kg.

MN-RC \$13.80

U-Tru-It

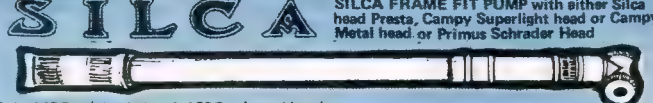


WHEEL TRUING KIT

Enables cyclists to true wheels simply and accurately without removing the tires or wheels. Clamp the unit to your fork for its truing reference. Adjust the caliper to accurately gauge rim drift. Adjust the spokes accordingly with the included spoke wrench. You're now ready to roll. Constructed of tough zinc-plated steel with a plastisol coating to protect your bike's finish. The kit is complete; lightweight, compact and portable. Comes complete w/ instructions.

UT-WT \$7.90

SILCA



SILCA FRAME FIT PUMP with either Silca head Presta, Campy Superlight head or Campy Metal head or Primus Schrader Head

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





Silca head
Chrome plastic

Campy SL
Chrome

Campy Metal
Note: Metal pump heads fit 1/2" larger frames

Presta or Schrader (Primus Head)



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
42	16 1/2-17 1/2	19-20
44	17-18	19 1/2-20 1/2
46	17 1/2-18 1/2	20-21
48	18 1/2-19 1/2	21-22
50	19 1/2-20 1/2	22-23
52	20 1/2-21 1/2	23-24
54	21 1/2-22 1/2	24-25
56	22 1/2-23 1/2	25-26

Colors: Blue, Black, Silver, White, Red

SI-PS-K \$9.80 w/Silca Head

SI-PSL-K \$12.20 w/Campy SL

SI-PCM-K \$14.70 w/Campy Metal

SI-P-K \$8.50 without head

SI-SCH-K \$12.20 w/Primus Schrader

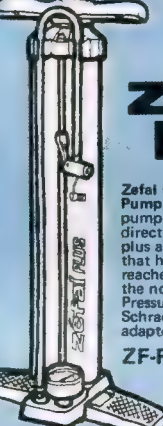
zéfal hp



FITS SCHRADER AND PRESTA

"High Pressure" The only pump with a thumb lock—no leaks or difficult holding. Satin anodized aluminum body, black plastic grip, fits frame and incl. clip for handle. Fits all down tubes, top tubes on frames 20" and over and seat tubes on frames 21" and over. 203.5G. **ZF-HP \$11.90**

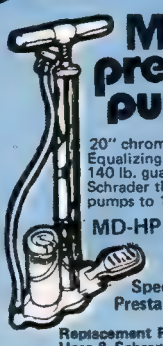
zéfal PLUS



Zéfal Plus High Pressure Pump, two chambers, each pump in the opposite direction. This feature, plus a large capacity means that high pressure is reached in less than half the normal strokes. Pressure gauge. Comes Schrader with a Presta adaptor included. 4.4 lbs.

ZF-P \$36.70

MDI high pressure pump



Made in Japan by Meidai

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

MD-HP \$15.00

Special Rubber-Sealed Presta Adaptor—MD-PA \$2.25

Replacement Fitting Hose & Schrader head (hose can also be used with Presta Head). MD-RH \$2.25

valve adapt



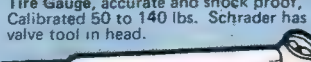
Adapts Presta to Schrader. BRASS TO-VA 35¢

CP-TGP Presta

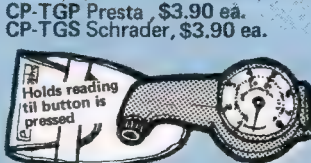


Tire Gauge, accurate and shock proof, Calibrated 50 to 140 lbs. Schrader has valve tool in head.

CP-TGS Schrader



PRESSOGRAPHE Tire Pressure Gauge



Holds reading 'til button is pressed

PRESSOGRAPHE Tire Pressure Gauge, for Presta tires only. Sturdy plastic construction with easy-to-read gauge. Records pressure in both lbs. per sq. in. (PSI) and in atmospheres (Barometric). Comes with a convenient carrying case.

TO-PTP \$6.50



Schrader Presta

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 adapter may be used on a presta valve to fit a schrader pump.

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code

□ □ - □ □ □ □ □ □

WHEN ORDERING, you must provide all the information indicated by the last letter in the STOCK NUMBER. Explanations of the Info Code Letters are shown here.

C Color
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
Y Threads (headset, B.B.) or Teeth (chainrings, sprockets)
V Threads & Teeth (framehead)
Z Size (sepost, clothes, rims, tires, toe clips, bearings and width of handlebars)

Pange Levin



DUE IN LATE FEB.

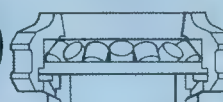
Levin headset, a Campy copy-quality headset, heat treated high tensile steel balls; 22.2 mm English; Silver

TN-LH \$9.90

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

TN-CF-Z \$39.80

AVOCET

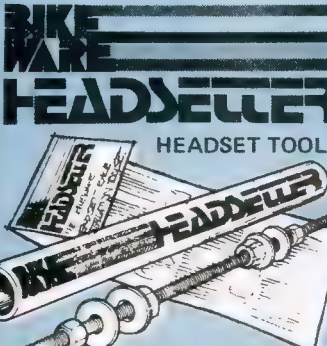
Cutaway of the Model III shows how each cylindrical roller-bearing provides a full line of support.

Cutaway of a standard head-set with ball bearings providing only one contact point on any given race.

Model III Sealed Headset, a new design in sealed bearings allows the bearing to simultaneously withstand the heavy radial and lateral loads which headsets receive. The Model III's sealed, cylindrical roller-bearings are an advantage over standard ball bearings through increased area contact. This feature makes the Model III Headset much stronger than any other. Installation of this lightweight aluminum headset is simple and maintenance is a thing of the past. Anodized silver finish. 145G. Guaranteed for the life of the bike if properly installed. Specify: English, French or Italian.

AV-SH-T \$59.85

BIKE WARE 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 \$8.95

BIKE MAKE SPROCKET TOOL



FITS ULTRA

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!

BW-ST \$3.75 ea. BW-2ST \$6.95 pr.

Cycle pro



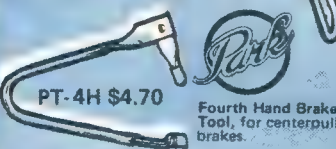
CP-DTK
\$19.90

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

3rd hand brake tool

3rd Hand Brake Adjusting Tool, places tension on brake arms, holding pads to rims while you adjust cable slack. Essential for proper brake work.

DC-3H \$1.10

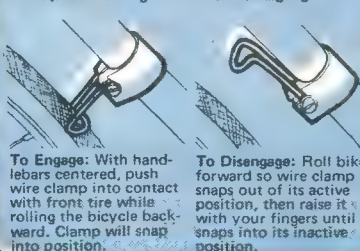


PT-4H \$4.70

Fourth Hand Brake Tool, for centerpull brakes.

Flickstand

Keeps it leaning. Prevents damaging falls.



To Engage: With handlebars 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.

cone wrench set



2-Piece Cone Wrench Set,
13/14mm and 15/16mm
FE-CWS \$2.50



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.

BI-C-Z \$2.10 ea. 13/14mm 15/16mm 14/17mm

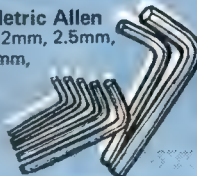
Cone Wrench Use Chart

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

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

FE-AW
\$1.25

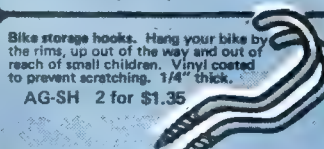


50¢
EACH

ALLEN HEX WRENCHES, (mm)
Specify: FE-2, FE-2.5, FE-3, FE-4,
FE-5, FE-6, FE-7

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



tools



Universal Adjustable cup
Spanner, AA-UCS \$6.50

Extra Pins-
AA-EP
\$1.75 pr.



Artisan Crank Bolt Socket Wrench, Specify:
AA-CB-14, 14mm for DA, SR, Nerver, Maxy,
Apex- \$2.80
AA-CB-15, 15mm for Campy, Sugino, Mighty,
TA- \$2.80
AA-CB-16, 16mm for Zeus, Stronglite- \$2.80



Adjustable Cup Spanner, fits Campy, DA,
Sugino and 30mm Headset. AA-ACS \$7.80
Extra Pins- AA-EP \$1.75 pr.



Fixed Cup Remover on one end fits Campy,
DA, Sugino, etc. 15mm Pedal Wrench on
other end. AA-FCR \$6.80



Lock Ring Spanner, fits all notched lock
rings and 30mm Headset. AA-1LR \$6.50
Campy 3-Prong, AA-3LR \$6.80

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

RELIANT bearings

RT-B-Z
80¢
per bag

Reliant Ball Bearings, the finest chrome
steel balls, polybagged. Specify Size or Use.
Sizes: 1/8", 5/32", 3/16", 1/4"

Bearing Use

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

PERSONS NO. 8 Display/Tuning Stand

Nothing to adjust, slips
under bike. Plastic cover
protects downtube. Chrome
plated with rubber tipped
legs.

PM-N8 \$4.50 ea.
3/\$11.00
6/\$20.00



Gold seal grease, high-grade waterproof
bicycle grease especially prepared for:
head bearings, hubs, forks, cranks, &
pedals. Protects against wear and corrosion.
2 oz. tube only PA-GS 75¢ ea., 12/\$8.



P51 waterless hand cleaner for bicyclists
removes grease, rim cement, etc. In-
cluding 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/\$2.40
12/\$8.40



Simichrome polishing paste great for
buffing aluminum and chrome. Also can
be used to polish bearing races, 2oz.

CP-SCP \$2.75



Product 1900 Clear Corrosion
Preventive Compound, outstanding
moisture displacing properties
including sea water. Provides
maximum resistance to corrosion
in the severest environments.
Dries to a clear, tough, flexible
film- won't collect dust or dirt.
Meets the most stringent spec-
ifications. Not intended for use
on moving parts which require a
lubricated surface.

PC-CC \$6.75 5 1/2 oz. Can

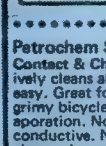
300 Synthetic Lubricant, contains no
petroleum, petroleum distillates, wax,
silicones, graphite or molybdenum
disulfide. Will not draw dust, dirt or
moisture. Penetrates metal pores.
Less need be used. Stops rust. Makes
an excellent chain lube. Moving parts
become highly polished.
Rated non-flammable. PC-SL \$3.75



Motion Fluid 60, multi-purpose
lubricant. Penetrates better. Also
cleans, displaces moisture, and pre-
vents corrosion. Effective on all
moving parts of a bicycle. Never
becomes dry, brittle or hard.
Eliminates squeaks, frees up lock
cables. Rated non-flammable.
PC-M60 \$3.75



Tubular Rim Glue Remover,
most cements are removed from
rims in less than 10 minutes.
Lower in toxicity. Removes tar
from bicycle frames-harmless to
most paints. Cleans rims and
spokes-harmless to tires. Use
paper towels for cleaning.
Rated non-flammable. Comes
with brush in the cap.
PC-GR \$3.75



Petrochem SPCK Plug Contact & Chain Clean, Effectively
cleans all metals fast and
easy. Great for cleaning those
grimy bicycle chains. Rapid ex-
pansion. No after deposits. Non-
conductive. Non-flammable. Also
cleans plugs, distributors, contact
point, etc.

PC-SPC \$3.70



Convert-A-Porter

2 BIKE
MODEL

AG-1001
\$58.95

ARMS NOW
FOLD DOWN

new

AG-4B
\$95.95

4 BIKE
(with Add-on Kit)

Convert-A-Porter, the redesigned Bike Porter is today's finest and most versatile carrier. Easy loading and unloading. Vinyl-coated quick Clamps secure bike to uprights and are removable to prevent theft.

Fold-Down Upright Arms facilitate carrying luggage, etc., and for entering garages.

New Mounting System installs on roofs or rear trunks. No-stretch all-steel tie-downs hold carrier secure. The New Leg Support System gives a choice of width-spacing in order to place the large rubber padded legs over the stronger support section of the car. The legs can also be length-adjusted to fit shorter trunks. (4 Bike Model has 4 extra Padded Legs).

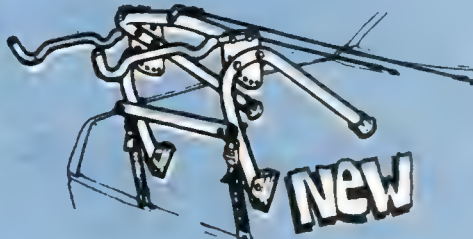
Bikes ride cushioned by their own tires in the New Wheel Channels with their slip-down design to grip both narrow and wide tires. The channels also have adjustable Slide Wheel Securing Straps permanently mounted to the tracks to accommodate any size wheelbase.

AG-1001 Two-Bike Model, 22lbs., \$58.95
AG-1002 Four-Bike Add-on Kit, 10lbs., \$38.95
AG-4B Both the above, \$95.95.
AG-ET Extra Track Sections, \$12.95 ea.

BIKE-PORTER



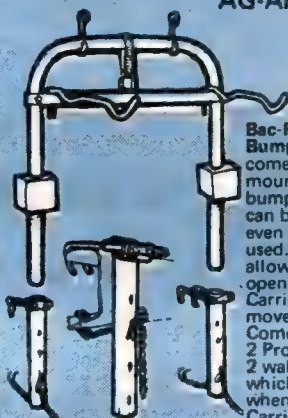
Meets National Highway Traffic Safety Admin. Standards
AMERICA'S BEST "NO-SCRATCH" "EASY-LOAD" RACKS



new

Adjust-A-Porter III, the best of the trunk-mounted carriers is now improved. The solid steel vinyl-coated arms are formed to protect & nest each bike in one confined spot. Exclusive adjusting plate allows quick leveling of support arms. Arms can be adjusted to a level position on any type car trunk. Newly designed "Big-Foot" adjustable rubber feet spread the carrier load over 20 times more car surface to resist surface denting. Components are pre-assemble for easy installation.

AG-AP3 \$24.90

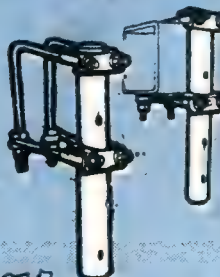


new

Bac-Rac-Plus III Bumper Carrier, comes with flush-mounted universal bumper brackets which can be left on the car even when not being used. Flush design allows clearance for opening trunk lid. Carrier is quickly removed from brackets. Comes complete with 2 Protect-O-Pads and 2 wall storage hooks on which to hang carrier when not in use.

Carrier can double as a wall hanger for 2 bikes. Plastic-coated arms fold away when bikes are not loaded. Made of 1 1/8" plated tubular steel. Comes pre-assembled.

AG-BR3 \$19.25



new

R.V. Flush Mount Bumper Bracket Kit, use with Bac-Rac-Plus III Carrier. For use on recreational vehicles & other unusually shaped bumpers.

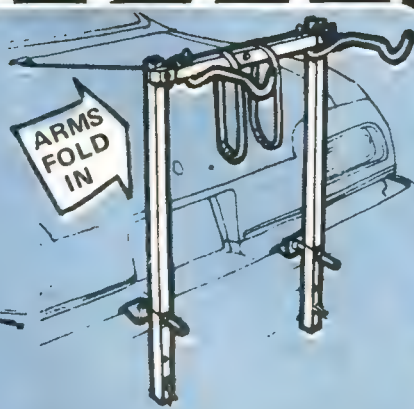
AG-RV \$10.25

new



NEW Ski Rack Kit, is easily added to the "Convert-a-Porter" carrier and is capable of carrying 2 pairs of skis. 2 Ski Kits can be added to the 4-Bike model for a carrying capacity of 4 pairs of skis. 5 lbs.

AG-2001 Ski Rack Kit, \$29.95 pr.



ARMS
FOLD
IN

"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-1074 \$12.95



Protect-o-Pads, made of a square protective pad of thick, resilient, spongy urethane. A built-in "snap-on-slot" locks onto handlebars, frames, pedals, etc. to keep it from contacting other surfaces. Can also be used on car roof as carrier pads for hauling ladder, poles etc. Eliminates need for blanket padding. Comes 4 to a package.

AG-PP \$3.50 set



"WALL HUGGER" BIKE HANGER

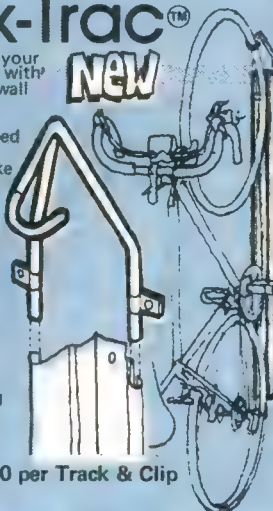
Bike Storage Hooks for wall installation

AG-WH \$2.90 pr.

Bik-Trac™

new

Bik-Trac, "Trac your bike—save space with this permanent wall mount. Black polyester "Bik-Tracs" are stepped to receive any size tire. The bike rests slightly on its rear tire on the floor, while the front tire is secured to the trac with the exclusive Adjustable Wheel Hooks w/protective plastic sleeve. Adjust hooks to size of bike then lock hooks w/locking clip. Mounting hardware is not included.



AG-BT \$17.50 per Track & Clip



PRO COMPE TANDEM FREEWHEELS

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

SB-PT-T

\$11.50

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



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

Specify:
Gear (not required if 14T is used)
Gear, Lowgear (2 required)

SR SR-ARH
\$7.50

Japan
SR-ARH All-Rounder Handlebars, light alloy, for use as the tandem rear handlebars. 22mm center bulge. Diameter: 22.2mm. Weight: 48mm, Width: 508mm, Weight: 180g

WESCON ULTRA-GLIDE HOUSING

*Standard diameter for universal fit.
*Attractive color vinyl cover.
*Smooth, efficient Polyethylene Liner.
*Flexible for easy routing. 25' lengths.
Colors: Black, Brown, Blue, White, Red, Yellow, Grey
SB-H-C \$6.95

TANDEM CABLES

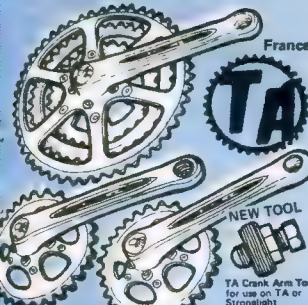
SB-TC-D Derailleur, 110" \$2.50
SB-TC-B Brake, 110", \$2.50

PIVO



France
Tandem Rear Handlebar Stem, w/hex nut binder bolt.
SB-PV \$9.50

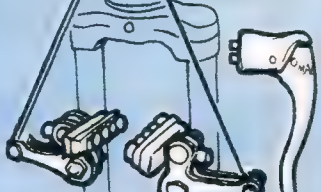
Fits front setpost
Allen Bolts, 27mm
KK-SPB \$2.35 ea. (extra)



TA-CR-T Chainrings: 26-35, \$7.90
36-48, \$14.90
49-54, \$17.20
56T, \$18.40
58T, \$21.80
60T, \$24.73
62T, \$26.90
55-68, \$42.50
70T, \$80.00
Specify: Inner (Middle) or Outer Chainrings



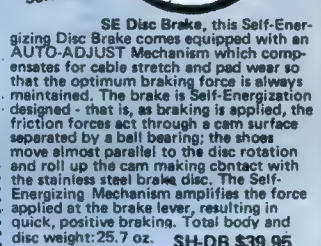
MAFAC
CANTILEVER
BRAKES



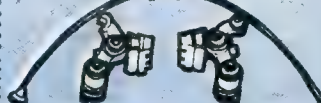
Mafac Cantilever Brake Set, with Dual Cable Lever (no rubber hood on lever).
MF-CB \$19.00
Mafac Dual Cable Levers, MF-DL \$9.25 ea.



SHIMANO
Includes Steel 36H Hub.
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-Energizing 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. SH-DB \$39.95



600 Cantilever Brakes, 338G., light alloy brake with steel braze-on mounting shaft. All Allen bolts.
SH-CB



DC-DL Gran Compe Levers, \$10.60 ea.



Campagnolo Triple Tandem Crankset, with crossover drive, 42T bottom, any other 2 chainrings, 170mm crankarms. Choice of B.S.
CA-TTC-V \$482.95
Metz Chainring, 32T, can be used for Campy 38T. SB-MC32 \$32.31



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 the recipient's name and address and how much you want to send (include your Credit Card Number and Expiration Date). We will send a catalog and the Certificate to the recipient on your behalf.

SAVE YOUR GAS... let your mail do the shopping

GUARANTEED LOWEST PRICES

If any IN-STOCK ITEM is sold for less in any current national catalog or publication, we will sell that item for \$4 under their price. IDENTIFY ITEM AND PUBLICATION.

BIKE CAMPING

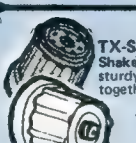


Silva Polaris Type 7 Compass - the most popular model for biking. Transparent plastic housing & base for easy map reading. Jeweled needle bearing, liquid filled needle housing for extreme accuracy. Base features inch and millimeter scale. SK-T7 \$8.70
Size 2" x 3" x 3/8" U.S.A.

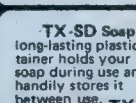
Silva Type 23 Compass, a super compact model for convenient multipurpose use. Pin-on design allows biker to keep both hands on the handlebars. It can also be conveniently carried in pants or shirt pocket. Silva quality construction with rugged metal base plate & easy-to-read balac degree ring. Liquid filled & transparent for map use. Base plate folds over for use as a sun watch. 4oz., 2" x 1 1/2" closed. SK-23 \$13.80



Cooking on the Road, a complete guide to one-burner cooking. Covers the specially prepackaged foods as well as unconventional places to find foodstuffs. Ten chapters of recipes cover breakfast, lunch, dinner, snacks and vegetarian cooking. By John Rakowski. 1980. 202 pg. BO-CR \$4.85

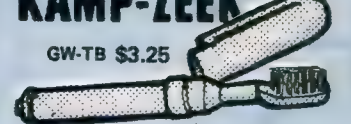


TX-SP Salt and Pepper Shakers, black & white, sturdy plastic. Screw together for convenience. TX-SP 45¢



TX-SD Soap Dish, long-lasting plastic container holds your bar of soap during use and then handily stores it between use. TX-SD 35¢

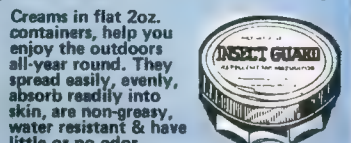
KAMP-ZEEK®



GW-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. GW-TB \$3.25



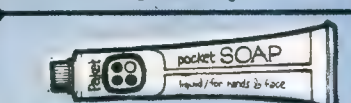
TX-PH Pocket-Size Hammock, of sturdy nylon, full 20" x 7" size, rolls up into a fist-size ball. Can be carried anywhere. Supports 1/2 ton. Shapes itself around the contours of your body. Can also be used as an emergency rope, stretcher, netting, animal snare, dunk bag, off-the-ground storage, etc. TX-PH \$4.80



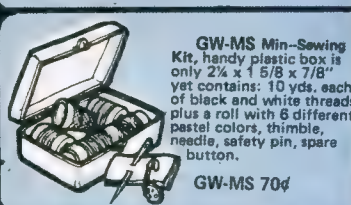
RE-SG Sun-Guard, contains PABA, screens out up to 80% of the sun's harmful ultraviolet rays, lets you tan slowly without burning. RE-WG Wind-Guard, contains a superior moisturizer to keep skin supple even during exposure to gritty, dusty winds or drying salt air. RE-FG Frost-Guard, serves as a protective 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.

\$1.90 ea., any 2/\$3.70

Paket Pocket Soap, a pure white, biodegradable soap. Mild for hands and face, also for shaving. No-leak, reclosable, floating tube. 50 to 60 washings. 21.3G. PA-PS 2 for 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. GW-MS 70¢



GW-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. GW-WS \$4.25

BIKE RAKE

LARGER One Size Fits All

Wide 1" Elastic Collar with 7 Hood Snaps

Wrap-around Front with Velcro Closure to protect neck
Open on the sides for arm use and ventilation

Double-Snap Closures for Riding

Double-stitch French Seams

Reinforced Elastic Thumb Loops hold the poncho forward over handlebars keeping hands dry

Poncho comes with matching Urethane-coated Stuff Sack - Fits in any bottle cage

NEW

poncho

Complete with Stuff Sack

BW-P \$17.75

Bright Yellow Urethane-coated Nylon

7-Snap Detachable Hood with Drawstring

Long 9" C&C Zipper makes putting on and taking off easier and provides extra ventilation

Bikeware Label

Weight: 8 oz.

Reinforced Longer Leg Loops can also be worn around the waist. These keep the poncho from flapping or riding up your back

Booties, keep your feet dry on wet days-warm on chilly days. Yellow Urethane-coated nylon. Elasticized ankle. Full-length rear C&C zipper w/rain flap. Reinforced stitching throughout. Nylon reinforced vinyl sole. Sizes: XS,S,M,L BW-BO \$8.95



rain chaps

Yellow Urethane-coated Nylon. These chaps are cool because there is no material above the thighs. Elastic Belt or Leg Loops enable chaps to be used even if you have no belt loops. Cuff Snaps. One Size Fits All. Matches the Bikeware Poncho.

BW-CH \$6.75

CAN BE CUT FOR CLEATS

Pak Foam Products



Pak Pad, Thick, convoluted foam pad. Poly-wrapped with brightly colored vinyl coated ground cover. Sewn-in tie cords. 20x54x2 1/4, 23oz.

PF-PP \$8.50

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 1/4, 22oz.

PF-PM \$10.75



Silver lining, sleeping bag liner. This unusual non-woven nylon fabric 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 \$3.95

Quality Stuff Saks, carry and store, stuff saks keep your things dry. Or they keep wet things (towels, bathing suits, etc.) away from what should not get wet. 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.

PF-SS-Z

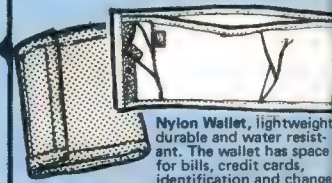
8x5" \$1.65
11x6" \$1.88
15x7" \$2.20
18x8" \$2.90
21x10" \$3.75
24x12" \$4.20

SAVE YOUR GAS...let your mail do the shopping



TX-SB \$8.25

Space Blanket, 50" x 82" w/ grommets, brand developed for U.S. space program, reflects heat. Use for tent, ground cover, blanket, 12oz. multi layer

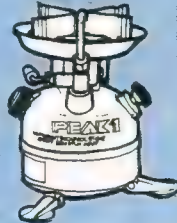


PF-NW \$6.25

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.

PEAK 1

NEW LIGHTER DESIGN

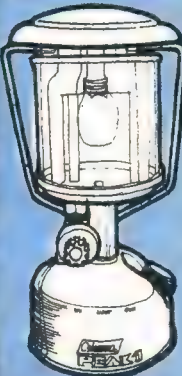


Bike Packing Stove, fold out legs, no priming, quiet, wind resistant, fully adjustable. White gas boils 1 qt. of water in 3 min. 45 sec. Wide open burn time of 1 hr. 15 min., simmer time of 3 hrs. 30 min. Fuel capacity: 10 fl.oz. Weight w/full fuel: 39.5 oz. Dry weight: 28.5 oz. 6 1/16" x 4 5/8" BTU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

CM-S \$33.80

Coleman Aluminum Stove Container/Cook Kit, 10.2oz. CM-SC \$10.80

Nylon Ditty Bags, rubberized interior. TX-ND \$1.30



CM-L \$34.80

Coleman Peak 1 Lantern, compact, full 360° of steady, brilliant light, for up to 3 hours per fuel filling. Wind and weather resistant, won't flicker or blow out. The "Easy-Lite" Control is the easiest on a gas-line lantern - just turn to "light" then "on". There's a control position that automatically cleans the fuel tip to prevent clogging.

Specifications: Weight w/full fuel: 38.0 oz.; Fuel Capacity: 8 fl.oz. Size: 9 1/2" H x 4 3/16" Input Rating: 125 Candle Power; Burning Time (full open): 3 Hours

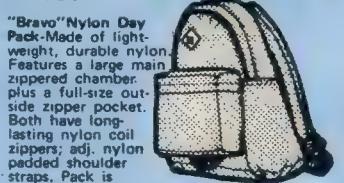
TEXSPORT

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



"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 peer loop Assorted Colors. 18"Hx12"Wx8"D.

TX-DP \$6.95



nylon ditty bags



TX-ND \$1.30

10" x 12" waterproof nylon. Flat bottom, self-securing drawstring top. Convenient for isolating different items and creating more useful space.



MSR

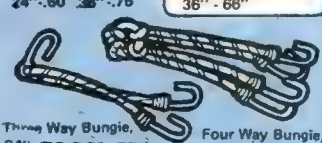
Fuel Flask, sturdy, durable aluminum fuel bottle. Designed to store and transport in the outdoors fuel for stoves, lanterns, heaters, etc. Informative plastic wrap surrounds the flask. 22 fl.oz. Made in USA.

MS-FF \$3.99

bungie cords



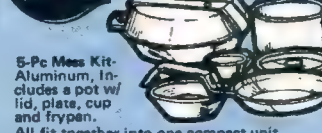
TX-BC-Z Elastic Bungie cords w/plastic coated hooks, diff. colors. 3/8" diam. 12"-40", 18"-60", 24"-60 3/8"-75



Three Way Bungie, 24" TO-BC3 75¢

Four Way Bungie, 2/20" TO-BC4 95¢

MIRRO



5-Pc Mess Kit-Aluminum, includes a pot w/ lid, plate, cup and frypan. All fit together into one compact unit.

MR-MK \$5.20

TEXSPORT



TX-PEB \$2.80

Polarshield emergency blanket, lightweight 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.

Outdoor Products



OP-ES \$7.75

ENSOLITE, economy-minded, superlight close cell polyethylene foam that offers excellent heat and insulating qualities. Non-moisture absorbant. Flexible at low temperatures. 12 oz. 21" x 56" x 3/8"

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. Comes loaded with candle

GW-CL \$10.85

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

S.S. Messware, knife, fork & spoon in case

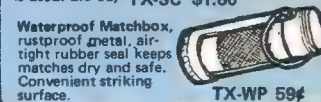
LJ-SSM \$1.60

G.I. Folding Can Opener, fits key chain.

LJ-GI 33¢



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 used. 2.5 oz. TX-SC \$1.80



Waterproof Matchbox, rustproof metal, airtight rubber seal keeps matches dry and safe. Convenient striking surface.

TX-WP 59¢

bike warehouse

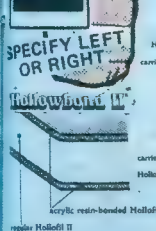


Sleeping
Bags by
COLD
RIVER

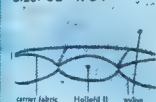


Transamerican II, triple-layer construction (B) in its top and foot sections and double-layer offset quilting (A) on the bottom. Differentially cut shells allow maximum loft. Integral zipper draft baffle. Nylon coil YKK zipper. The sandwich layer in the top and foot is an extra-thick layer of Hollibond 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 (400F and above) bag. Top and bottom is a quilted layer of Hollifil II covered with an additional layer of nylon. Nylon coil YKK zipper. Zips completely around the foot and opens to become a comforter. The mummy hood is Velcro fastened and is drawn up with a drawcord and cordlock. Sewn-through weather baffle keeps drafts from entering through zipper. Weight: 3 1/2 lbs. Size: 32" x 84"



CR-BG \$47.95 ea.



Blue Spruce, both the outershell and inside liner are made of nylon. Continuity full length aluminum zipper. Filled with 3lbs. of Solar Lock Polyester. Finished Size: 33" x 75" WASHABLE.

CR-BSB \$29.95



Eureka!

NOW 1 YEAR FULL WARRANTY.

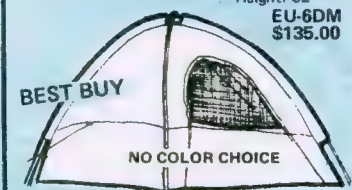
Eureka Quality Tents - walls are constructed of fire-retardant 1.9 oz. breathable "rip-stop" nylon with urethane coated floor and fly. All seams are double-sewn with rot-resistant cotton wrapped polycore thread. Zippers are nylon self-healers. All tents have large inside-opening rear windows. Tents come complete with all bags, steel stakes and guylines.

All but the Mt. Marcy & Nu-Lite include flys.



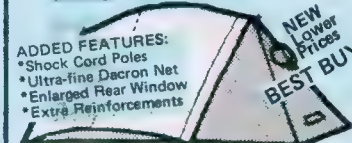
BEST BUY
6th Dimension, dome-shaped to provide more usable space. Hexagonal floor design. Support frame consists of solid fiberglass rods. Features Eureka's new "Twin Track" door. Large rear window. Weight: 6 lbs. 11 oz. Height: 52"

EU-6DM \$135.00



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"

EU-DM \$104.00



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 42", 7lb. 14oz. **\$99.50**
4-Man, 7'2" x 8'9" x 58", 9lb. 14oz. **\$139.50**
Base Camp, 8'6" x 10'3" x 75" H, 17lb. 10oz., **\$242.00**

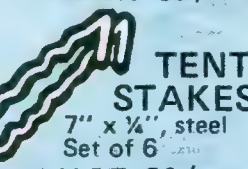
COLORS: 2 & 4 Man - Green/Sandstone or Caramel/Sandstone
Base Camp - Sandstone/Brown/Tan

EU-TLV-Z 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.

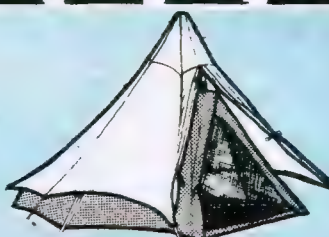
2-Man, 10 1/2 sq. ft., 1 lb., **\$27.00**
4-Man, 14 sq. ft., 1 lb. 5 oz., **\$35.00**



NYLON ROPE
50 ft., 500lb. test
TX-NR 88¢



TENT STAKES
7" x 1/4", steel
Set of 6
EU-PT 80¢ set



EU-BC Back Country, the ideal choice for one who demands a light tent with plenty of shoulder and head room. The large netted door is now in the front for easy access. The new fly attaches directly to the tent by 2 web and snap assemblies; then a single web and buckle assembly on each corner of the fly guys out both the tent and fly together. Larger roof vent for better ventilation. Wrap-around floor and the fly are made of 1.9oz. K-Kote FR ripstop. Roof cloth is 1.9oz. breathable ripstop. Height: 54" (front)

Weight: 5lbs. 12oz.
COLOR: Caramel/Sandstone/Tan with Caramel fly \$116.80



NO COLOR CHOICE
Nu-Lite - Eureka's most economical 2-man tent. Lightweight with storm door, 3-way zippered mosquito-net door and side pullouts for added space. Made of flame retardant taffeta nylon in assorted colors (no color choice). No fly. Fold size: 6' dia., 17" long. 5' x 7'4", 4lb. 10 oz **EU-NL \$48.00**



EU-SA COLOR: Green/Sandstone
Seranac, accommodates two with room for gear in the front vestibule. A-frame door. 5' x 10' x 42" (front). 8lb. 4oz. **\$98.00**

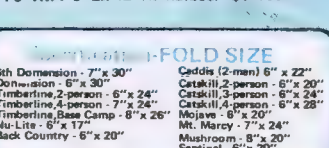


EU-CS-Z COLOR: Green/Sandstone
Catskill, Eureka's answer for the price-conscious biker. 2-Man, 5' x 7' x 42", 6lbs. **\$83.00**
3-Man, 6' x 8' x 57", 8lbs. 9oz. **\$118.00**
4-Man, 7' x 8' x 72", 10lbs. 6oz. **\$138.00**

Mojave, 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**

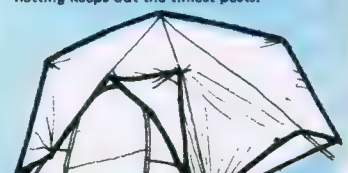


EU-MM COLOR: Green
Mt. Marcy, high quality at a low price. Roomy 2-person tent has an A-frame front & an I-pole rear for easier access. Improved ventilation. Bias-cut window awnings on sides and rear. 4'9"W x 7'6"L x 42"H. 4lb. 2oz. **\$71.00**



FOLD SIZE
6th Dimension - 7' x 30"
Donation - 6' x 30"
Timberline 2-person - 6' x 24"
Timberline 4-person - 7' x 24"
Timberline Base Camp - 8' x 26"
Nu-Lite - 6' x 17"
Back Country - 6' x 20"
Caddis (2-man) - 6' x 22"
Catskill 2-person - 6' x 20"
Catskill 3-person - 6' x 24"
Catskill 4-person - 6' x 28"
Mojave - 6' x 20"
Mt. Marcy - 7' x 24"
Mushroom - 8' x 20"
Sentinel - 6' x 20"

Mountaineering and Expedition Tents, The Mushroom, Sentinel and Caddis. Custom tailored for the discriminating and winter camping enthusiast. A blending of the finest materials and craftsmanship in designs to withstand extremes in weather conditions. Floors and sidewalls are "Super K-Kote" taffeta. Flys are K-Kote ripstop nylon. Roofcloth is breathable ripstop nylon for circulation. Anodized frames. Catenary cut increases stability and reduces wind flapping. Oxford nylon reinforcements at all stress points. Twin Track doors/windows and doors work independently of each other. Lock-stitching throughout. Freeze-resistant self-healing zippers. Interior clothesline rings. Net storage pockets to hold small items. No see-um netting keeps out the tiniest pests.

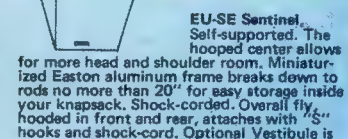


EU-MU-Z Mushroom, A unique umbrella frame-work results in this self-supporting, easy-to-pitch tent with nearly vertical walls. Completely supported by the heavy-duty shock-corded frame. All the fittings are securely attached to prevent loss. Quonset style door in front and quonset style window in rear both netted. "S" hooks hold the zippered entrance of the fly open during good weather. Color: Caramel/Sandstone. Tan/Caramel fly. 2 Sizes:

2 Man - 7' x 7' x 4'8"H, 8lb. 4oz. **\$230.00**
4 Man - 8' x 8' x 5'6"H, 11lb. 2oz. **\$260.00**



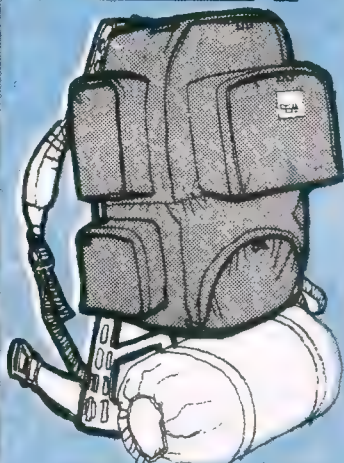
EU-SE Sentinel, Self-supported. The hooped center allows for more head and shoulder room. Miniaturized Easton aluminum frame breaks down to rods no more than 20" for easy storage inside your knapsack. Shock-corded. Overall fly, hooded in front and rear, attaches with "S" hooks and shock-cord. Optional Vestibule is available. Weight: 7lb. 6oz. Height: 3'10" Color: Caramel/Sandstone. Tan fly. **\$204.00**
Optional Vestibule, **\$49.00**



EU-CA-Z Caddis, a modified hoop tent. The middle aluminum arch is greater in diameter to provide more maneuverability. The 2 Quonset style doors are zippered & treated with a water repellent finish. The canted design fly can be adjusted with a web and buckle assembly to insure a taut profile and stability. Color: Caramel/Sandstone. Tan fly. 3 Sizes Available:

1 Man - 4'4" x 7'6" x 2'4"H. 4lb. 12oz. **\$139.00**
2 Man - 6' x 8' x 3'7"H. 7lb. 11lb. **\$168.00**
4 Man - 8' x 8' x 4'3"H. 8lb., 13oz. **\$215.00**

Coleman
PEAK 1™



Model 765 Front-Load Backpack, of urethane-coated Cordura nylon. The large upper compartment features a full drop-down double-zipped opening for easy access top to bottom. The lower compartment is also front-loading with a curved drop-down opening. Compressor 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 lash patches (2 are extra-large), and an axe loop. Load control straps and padded waist belt with quick-release buckle. Royal Blue. Weight: 71 oz. Total Capacity: 3360 cu.in. 22 1/2" L x 15 1/2" W x 8" D. Frame: External RAM-FLX. CM-765 \$76.80 Sugg. Retail \$83.95



Model 705 Day Pack, great for day hikers, cycling, photography, skiing or school. There's plenty of room with a 809cu.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 stable 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

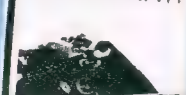


TEXSPORT

"Bravo" Nylon Day Pack, lightweight, durable nylon. Large main zippered compartment, plus zippered outside pocket. Adjustable padded shoulder straps. Assorted colors. 18" x 12" x 8"

TX-DP \$6.95

BICYCLING AND PHOTOGRAPHY



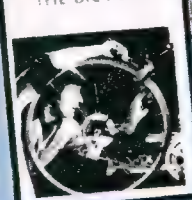
BASIC RIDING TECHNIQUES



GET FIT WITH BICYCLING



RECONDITIONING THE BICYCLE



BEST BICYCLE TOURS
by the editors of 'Bicycling' magazine



BASIC BICYCLE REPAIR
by the editors of 'Bicycling' magazine

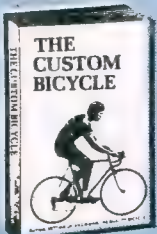


Best Bicycle Tours, made to order for the many cyclists who want specific recommendations about where to go touring or bicycling recreation in general. These road-tested tours contain pointed information on how to get to the touring spot, where to go, what to take, where to stay, and special attractions along the route. Each tour is rated for level of difficulty and traffic conditions. Tours include: Across Newfoundland Tour; Maine's Lake Region; Green Mt. Tour; Merrimack Valley; Touring the Pennsylvania Loop; Mid-Atlantic Tour; Fishing the C & O Canal; Touring the North Florida Coast; On the Road to Montreal; The Great Lake Ride; Touring Texas Country Roads; Texas Head Winds; Texas Hill Country; Riding through the Mining Towns; California Back Country Loop; Chasing the California Wind; Touring the Sierra Nevadas; Around the Island of Kauai, Hawaii; Cycling the Mosel River Valley in West Germany. By the Editors of 'Bicycling' Magazine.

BO-BBT \$2.90

Basic Bicycle Repair, for those people who want to know enough about repair to keep a bike on the road. It explains simply and clearly all major repair problems and provides easy-to-understand, sensible advice on correcting these problems. Chapters are devoted to basic bicycle tools; troubleshooting gears and brakes, chain & cable; basic bike lubrication; tire repair and how to repair a broken spoke. 55 photos and illustrations. This book won't make you a bicycle mechanic, but it will keep your bike on the road. By the Editors of 'Bicycling' Magazine.

BO-BBR \$2.90



The Custom Bicycle, buying, setting up and ordering a quality bike. A comprehensive guide to frames, master frame builders. Detailed information 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. 278 pg. 100 photographs and illustrations. By Michael J. Kolin and Denise M. de la Rosa.

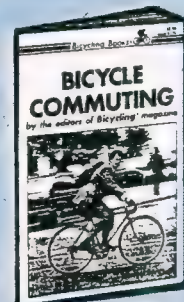
BO-TCB \$8.95

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-BP \$2.90

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 \$2.90

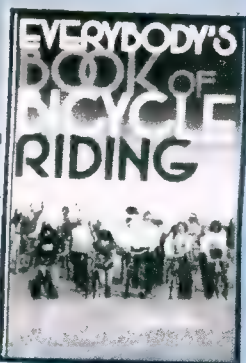


The Most Frequently Asked Questions About Bicycling, in one volume for easy referral—all the questions cyclists ask about bicycles & bicycling. By the editors of 'Bicycling' magazine.

BO-QAB \$2.90

Everybody's Book of Bicycle Riding, takes the novice cyclist successfully through all the natural stages of bicycling. Shows how to get the most out of cycling by emphasizing Riding and Using a bike rather than repairing it. In non-technical terms the author tells how to choose a bike; set up; ride efficiently & correctly; cope with traffic & road hazards; take the first ride; ride in a group; enjoy a long tour; ride in all seasons; use the bike as a fitness tool; anticipate problems; break into racing; build a custom bike and choose biking clothing. Also covered is how to fix flats & adjust gears and brakes. 336 pg. By Thom Lieb.

BO-EBBR \$9.75



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, pedaling cadence, 'ankling', coping with hills, rain cycling, getting down on drop bars and more.

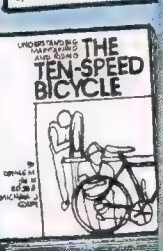
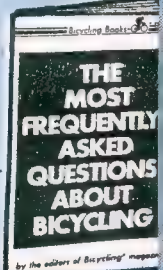
BO-BRT \$2.90

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 \$2.90

Bicycle Commuting, for those who want to use a bike for work, school, around town. This is a collection of successful strategies used to overcome hazards and handle oneself in traffic. Much attention is given to pre-commuting—preparing yourself to enter traffic for the first time. This is also a consumer guide to commuting bikes, accessories and equipment. By the editors of 'Bicycling' magazine.

BO-BC \$2.90



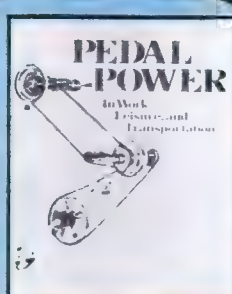
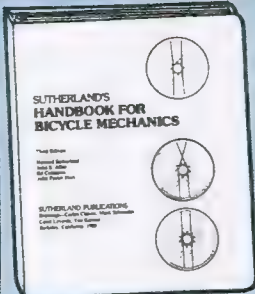
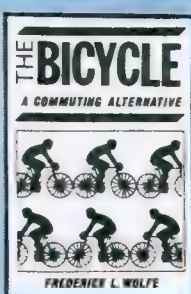
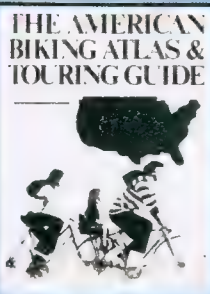
Understanding, Maintaining and Riding THE TEN-SPEED BICYCLE, by Michael J. Kolin and Denise M. de la Rosa. The first work to exclusively devote itself to understanding, adjusting, repairing and riding the ten-speed bicycle. 1978. 296

BO-TSB \$9.80



The Bicycle Touring Book, the most complete and comprehensive ever published. You'll learn how to pick the right touring bike and components; how to handle the loaded bike on the road; how to maintain and make emergency repairs; how to prepare for a short or long tour—what food and equipment to take, where to stay, what roads to use. Learn to read maps and anticipate weather conditions. Detailed conditioning programs will prepare you physically. This guide helps you campers to select campsites and equipment; advice on cooking and how to bed-down comfortably in all climates. By Tim & Glenda Wilhelm.

BO-BTB \$9.90



The American Biking Atlas and Touring Guide, how to get started plus 150 vacation and weekend tours throughout all 50 states and Canada. Easy-to-follow 2-color maps, detail the main tour and side excursions with points of interest, campsites, distances, country stores and bike shops. 320 perforated pages. 1974 by Sue Browder. 8"x 11"

BO-ABA \$5.65

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 and techniques to obtain better bicycle facilities. By Fred L. Wolfe



Complete Bicycle Time Trialing Book, in a sport where the rider is pitted against one adversary—the clock, this book gives key advice on equipment, training and promotion. From the Editors of "Bike World" Magazine. 85 pg.

BO-TTB \$3.90

American Bicycle Racing, examines bicycle racing's illustrious past, exciting present and promising future. Interviews, discussions and 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.



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. 144 pg.

BO-FF \$3.35

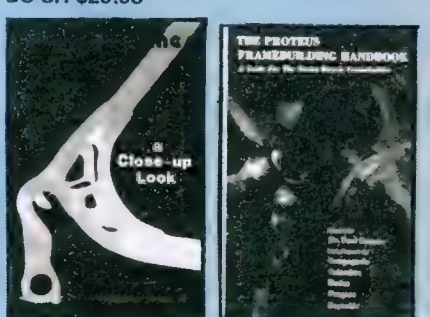
Cooking on the Road, a complete guide to one-burner cooking. Covers the specially prepackaged foods as well as unconventional places to find food-stuffs. Ten chapters of recipes covering breakfast, lunch, dinner, snacks and vegetarian cooking. 1980. 202 pg. By John Rakowski.

BO-CR \$4.85

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 Jim McNeely; Passport to Freedom by Lloyd Summer; and Exploring Europe by the President of the International Bicycle Touring Society—Dr. Clifford Graves. 1976. 92 pg.

BO-IBT \$2.80

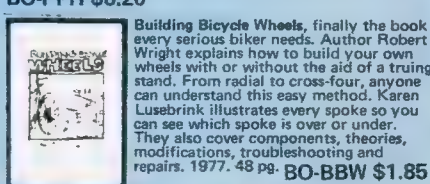
Sutherland's Handbook, loose-bound notebook, here is the 3rd edition of the handbook that has long been recognized by bicycle mechanics across the country as the encyclopedia of bicycle information. Indispensable to any workshop, it is sensibly organized with large index tabs, and includes tables of information and specifications concerning virtually every conceivable bicycle part. Eliminate guesswork and develop a professional insight to bike work. Over 250 pg.



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 complications. Learn all about the signs of a frame's quality - tubes, lugs, 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 pg. By Joe Kossak - "Bike World" technical editor.

BO-BFC \$1.85

Proteus Framebuilding Handbook, NEW Edition, a guide for the novice bicycle framebuilder, now up to 127 pages and over 100 illustrations. Still includes 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, lugless 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

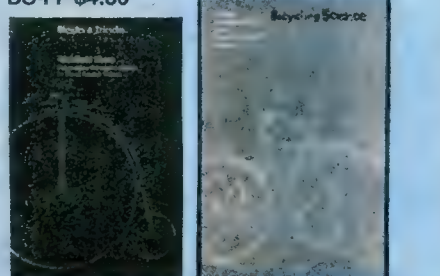
Building Bicycle Wheels, finally the book every serious biker needs. Author Robert Wright explains how to build your own wheels with or without the aid of a truing stand. From radial to cross-four, anyone can understand this easy method. Karen Lusebrink illustrates every spoke so you can see which spoke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

BO-BBW \$1.85

Richard's Bicycle Book, everything necessary for zesty riding and painless maintenance. Complete and simple repairs on every part of your bicycle. Fitting a bicycle to you, Riding Position, Stroke & Cadence, Accessories you do and don't need. 1978. 364 pages. By Richard Ballantine.

BO-RBB \$4.80

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 "Rodeo Energy Cycle" not only a description, but also a complete set of building instructions is provided. The author also suggests a score of ways the energy cycle can be used around the house, garden, farm. 1977. 133 pg. Edited by James C. McCullagh.

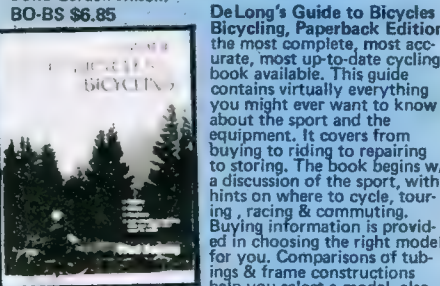


BO-PP \$4.80

BICYCLES & TRICYCLES-An Elementary Treatise on Their Design and Construction, first published in 1896, it was the first serious, scientifically based study of the bicycle. Beginning with mechanical principles, then successive experiments at design are covered. Various designs are examined for their stability, steering, gearing and resistance properties. Finally a discussion of individual components in detail. A definitive work in its own time - a collectors item for history buffs as well as bicycle enthusiasts. 536 pg. By Archibald Sharp.

BO-BT \$8.85

Bicycling Science, for all mechanically inquisitive bicyclists as well as teachers of elementary mechanics and physiology, & those interested in lessening our dependence on high-energy-consumption transportation. Describes measurements and experiments in regards to basic "motion" principles & some resulting designs. Also-energy requirements for transportation, studies of human-produced power, a review of natural forces opposing motion & the applied braking forces & cooling effects on the rider & steering & stability. A look at people-power applications and new developments complete this book. 1979. 247 pg. By Frank Rowland Whitt and David Gordon Wilson.



BO-BS \$6.85

DeLong's Guide to Bicycles & Bicycling, Paperback Edition, the most complete, most accurate, most up-to-date cycling book available. This guide contains virtually everything you might ever want to know about the sport and the equipment. It covers from buying to riding to repairing to storing. The book begins w/ a discussion of the sport, with hints on where to cycle, touring, racing & commuting. Buying information is provided in choosing the right model for you. Comparisons of tubings & frame constructions help you select a model, also. You'll learn how to fit your bike to your dimensions, plus, there's coverage on custom built frames. You're told how to perform your own inspections and minor repairs. Learn all the parts of a bicycle & how they function. Wheel building is given special coverage. All you need to know of the medical aspects, written by an M.D. in the chapter "The Human Engine". Learn to improve your skills, study the weather, clothing to wear, packing for a tour, cycling with children, how to tandem & much, much more. Fred DeLong is Technical Editor of "American Cycling", "American Bicyclist" & "Bicycling" magazines, & Vice-Pres. of the L.A.W.

BO-D \$9.75

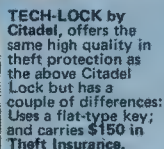


Bike Buckets, high-impact polyethylene for strength & flexibility in hot or cold weather. Snap on or off most carriers in seconds. Solid construction keeps contents in, moisture out. Large enough to carry 2 full shopping bags. Reflective red safety stripe warns motorists. Includes snap-on lids. **Color:** White with Blue & Red accents.

BB-B \$25.80

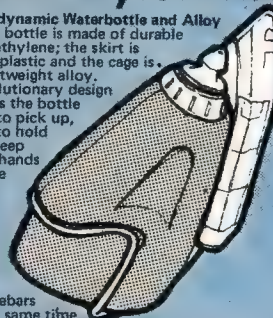
Ultra-high Security Lock, made of ½" through-hardened alloy. Tested to stop large boltcutters and other tools used by bike thieves. Carries

The Locks Thieves Hate!



CP-CTL
\$19.85

Aerodynamic Waterbottle and Alloy Cage, bottle is made of durable Polyethylene; the skirt is clear plastic and the cage is a lightweight alloy. Revolutionary design makes the bottle easy to pick up, easy to hold and keep your hands on the

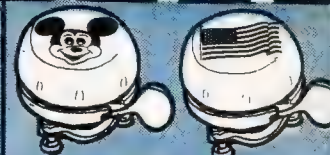


at the same time. The cage is designed to fit round frame tube. **Weights: Bottle-72G., Skirt/Cage-60G. Bottle Color: Pearl Blue**

The diagrams illustrate the mechanical action of the frog's mouthparts. The 'Open' diagram shows the mouth wide, with the tongue extended. The 'Close' diagram shows the mouth closed, with the tongue retracted and the mouthparts meeting.

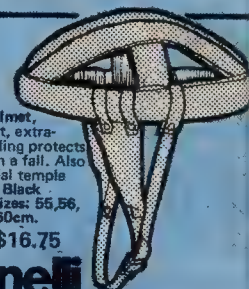


SUNTOUR
Spoke Protector,
light alloy w/anodized
finish. Diameter: 7 1/2",
for 27 - 34T low gear.
Weight: 48G.
ST-ASP \$1.75



Bicycle Handlebar Bells, a relatively polite method of warning others of your approach.
CP-MMB Mickey Mouse Bell, \$1.49
CP-FB American Flag Bell, \$1.49

Chainstay Guard, highly-polished stainless steel. Contoured to perfectly fit chainstay. Adhesive-backed to stay secure.
SB-SCG \$1.80



Racing Helmet, lightweight, extra-thick padding protects the head in a fall. Also has a special temple protector. **Black Leather.** Sizes: 55, 56, 57, 58, 59, 60cm.

CI-RH \$16.75



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XTR-R-L Rallye Nowax Skis, Sizes: 180, 190, 200, 205, 210. Reg. \$78.80. NOW \$49.90
XTR-T-L Touring Nowax Skis, Sizes: 190 or 200. Reg. \$93.80. NOW \$68.00
XTR-ATS-L ATS Skis, metal edges, Sizes: 190, 200, 210. Reg. \$146.80. NOW \$104.00
XTR-MS-L Marathon S Nowax Skis, Sizes: 190, 200. Reg. \$102.80. NOW \$73.00
XTR-MSW-L Marathon SW Waxable Skis, Sizes: 200, 205, 210, 215. Reg. \$96.80. NOW \$68.00
XTE-R-J-L Rallye Jr. Nowax Skis, Sizes: 160, 170. Reg. \$53.80. NOW \$42.50
XTR-K KIDSKI, Size: 70mm. Reg. \$19.40. NOW \$13.90

ROSSIGNOL

XRO-CAR-L Carabou AR Waxless Skis, Sizes: 183, 193, 198, 203, 208. Reg. \$89.80. NOW \$65.50
XRO-HOR-L Horizon AR Waxless Skis, Sizes: 193, 198, 203, 208. Reg. \$109.80. NOW \$75.00
XRO-R-L Randonnee Skis, Sizes: 190, 205, 210. Reg. \$119.80. NOW \$72.00

TRUCKER

XTU-MT-L Mountain Touring Waxable Skis, Sizes: 180, 190, 200, 205, 210, 217. Reg. \$108.90. NOW \$44.50
XTU-S-L Strider Waxable or Nowax Skis, Sizes: 180, 190, 200, 210, 217. Reg. \$108.90. NOW \$67.00
XTU-MER-L Mountain Edge Racing Skis, Sizes: 190, 215. Reg. \$148.80. NOW \$91.00
XTU-MES-L Mountain Edge S Skis, Sizes: 190. Reg. \$144.00. NOW \$91.00

XSI-HW-L Huski GT Waxable Skis, Sizes: 180, 190, 200, 205, 210, 215. Reg. \$66.80. NOW \$42.50
XSI-HN-L Huski GT Nowax Skis, Sizes: 180, 190, 200, 205, 210, 215. Reg. \$66.80. NOW \$43.50

SILVA

BINDINGS MOUNTED \$3.00 Pair (Indicate Boot Size)

tyrol



Reg. \$41.25

Tyrol "Surton", fine chrome tanned full-grain leather. Padded bellows tongue w/speed lacing and a padded collar that comfortably hugs the ankle. Fleece-lined with a fleece sock lining. The injection-molded sole makes the boot very lightweight and a wooden shank allows maximum lateral rigidity. Color: Brown with White trim. Sizes: (in half sizes) Womens 5 - 10, Mens 7 - 10

XTY-S-Z NOW \$28.50



Reg. \$24.80

Tyrol "Krista", full grain leather with full bellows tongue and speed lacing. Fleece-lined in the quarter and sock cotton drill lined in the vamp to facilitate drying. Rubber sole is cemented and stitched and a steel shank gives good lateral rigidity. Color: Blue with White trim. Sizes: (in half sizes) Womens 5 - 10, Mens 7 - 13, except 12 1/2

XTY-K-Z NOW \$17.40



Reg. \$7.95

alpina



For 50mm Bindings

Alpina "Knut", unusual design with special piping. Constructed for comfort and performance. Purko 5" upper. Fleece lined. Eyelet lacing and bellows tongue. 2-roll cuff with special piping. Heel cushion. Injection molded Norm 50mm sole construction. Colors: Black and White with Red Piping. Sizes: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50cm

Reg. \$44.80 LIMITED SUPPLY

XAL-K-Z NOW \$25.00



LIMITED SUPPLY

Alpina "Olaf", colorful new design made from waterproof "Purko" material (polyurethane covered leather). 4" high Purko upper. Fleece lined throughout. Speed lacing and bellows tongue. 2-roll cuff, felt insole. Color: White with Red. Sizes: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50cm

Reg. \$33.80 XAL-O-Z NOW \$21.00



Dove

For 50mm Bindings

Dove Sport "50", a 50/12mm light touring leather boot. Sole & upper are bonded by injection moulding. Fibre box toe and heel counter. Steel shank. Vulcanized fibre midsole. Full bellows tongue. Padded scree. Combination pile and cotton drill lining. Color: Navy w/Red & White trim. Sizes: (in half-sizes) Womens 5 - 10, Mens 7 - 13 (except 12 1/2)

Reg. \$33.80 XDO-S50-Z NOW \$22.00



Reg. \$9.25

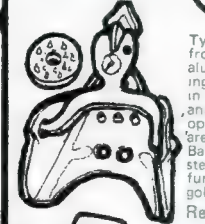
XGL-HTG-C NOW \$7.25

GREAT LAKES

High-Top Gaiters, urethane-coated Oxford nylon. 15" high. Snug-fit elastic at ankle and bottom. Fully covered, full length auto-lock zipper in back. Hook in front secures the gaiter to the boot lace. Grommets on each side for use in securing the included instep cord. Red, Green, Blue

Dove 202 Binding - 3-pin, Nordic Norm, gold anodized aluminum. Bail is coated with black nylon. Easy release with pole tip 2-PC "heel cross" has metal teeth for firm heel positioning and sloped sides for less snow build-up. L & R indicator hole. 75mm. Reg. \$7.90
XDO-202 NOW \$6.60

Rottefella Tour Binding, 3-pin, rugged all-around touring model with step-in, quick-pole lock and release. Wire bale. Made with enough lateral stability to replace cable binding. Sole and heel plates included. 75mm. Reg. \$11.80
XRT-T NOW \$10.50



Tyrol Binding, made from high quality aluminum. The binding features both step-in and step-out mechanisms for easy operation. 3 steel pins are locked in position. Bail is coated spring steel for durability & function. Binding is gold anodized. 75mm. Reg. \$5.90
XTY-B NOW \$4.40



Dove 312, gold anodized aluminum base with hardened steel pins. Hardened spring steel flat bale is coated with black nylon. Spring-loaded hook allows easy pole tip release. 50mm. No difference in L or R. Reg. \$8.20
XDO-312 NOW \$7.70

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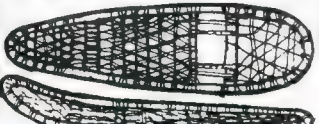
Buffalo Shirt, 85% wool/15% nylon. Two patch breast pockets w/flaps. Extra-long tail. Placket front. Matching coolers. Weight: 14oz.
Colors: **Mens:** Red/Black Check; Tan ground-Rust/Brown overplaid; Tan ground-Green/Blue overplaid; **Wid Rice** ground-Grey/Brown overplaid; **Womens:** Tan ground-Green/Blue overplaid; **Wid Rice** ground-Grey/Brown overplaid.
Sizes: Mens S,M,L,XL; Womens 10,14,16
XWO-BS-K \$36 Value
NOW \$15.60

Heavyweight Chamois Shirt, the original Woolrich 100% cotton Chamois cloth with the appearance and texture of chamois leather. Shirt is heavyweight, warm, highly absorbent, mosquito-proof and very comfortable with a soft, sheared-nap finish. Two breast pockets with button flaps, long tail.
Colors: Sage, Red, Camel, Alta Blue
Sizes: Mens S,M,L,XL; Womens 6,8,10,12,14
XWO-CS-K \$26.50 Value
NOW \$12.70



Buffer Reversible Vest, 60/40 Fimar cloth reversing to 85% wool/15% nylon plaid. Polyester insulation. Snap closure. Inside pockets. Dual-entry pockets with Velcro closure flaps.
Colors: Tan reverses to tan/rust/brown; Slate Blue reverses to camel/blue/green; Redwood reverses to tan/rust/brown.
Sizes: Mens S,M,L,XL; Womens M,L (Tan & Blue only)
XWO-BV-K \$47.50 Value
NOW \$22.50

Snowshoes



Green Mountain Bear Paw Snowshoes, encompasses a unique design making it ideal for beginners makes it the most versatile shoe around. Outdoorsmen like it for its maneuverability in brush and ability to support heavy weights. 10" x 36" Rawhide or Neoprene Laced
XLJ-LS Leather, Reg. \$55.60 **NOW \$35.20**
XLJ-NS Neoprene, Reg. \$51.60 **NOW \$33.00**



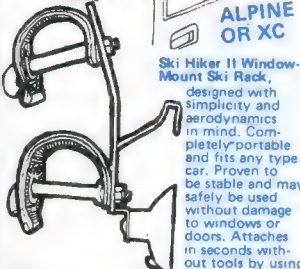
Type H Binding, type used by the military is well suited to recreational use. The instep strap combines with the solid, laced toe-piece to provide excellent support.
XLJ-B Reg. \$7.20 **NOW \$5.20**



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: M,L,XL Reg. \$10.75
XKO-CCG-K NOW \$8.50



Terrebone Vest, two vests for the price of one. Fully reversible vest is insulated with 150G/sg. meter Thinsulate offers the warmth and protection of down and polyester insulators with half the bulk & thickness! 65% polyester/35% cotton reverses to plaid 80% wool/20% nylon blend. Poplin side features 2 two-way cargo pockets, wool lined. Wool side features set-in, poplin lined slash pockets. Extra high collar and kidney flap.
Reg. \$46.80
XCO-TV-K NOW \$34.50



Ski Hiker II Window-Mount Ski Rack, designed with simplicity and aerodynamics in mind. Completely portable and fits any type car. Proven to be stable and may safely be used without damage to windows or doors. Attaches in seconds without tools by using suction cups and drive-in restaurant trays. Will hold 4 pairs of XC skis or 2 pairs of Alpine. Comes with locking cables. Reg. \$20.80
XRU-SH NOW \$12.50



Sno-Fire Cap, 100% Worsted wool. Jacquard pattern sno-flake design. Cathedral top with pom. Matches Sno-Fire Knicker Sock. Colors: Lt. Oxford/Spruce Green, Navy/Cardinal, Neutral/Chocola
XWW-SFC-K Reg. \$8.50 NOW \$4.50

Sno-Fire Knicker Sock, 90% wool, 10% nylon. Jacquard pattern sno-flake design. Wear over the knee or cuffed below. Sizes: M(9-11), L(11-13). Colors: Lt. Oxford/Spruce Green, Navy/Cardinal, Neutral/Chocola
XWW-SFK-K Reg. \$9.75 NOW \$5.70



Norway Cap, 85% wool, 15% nylon. Extra-heavyweight double fabric Rag pattern with matching pom. Matches Ruck-Sack Knicker Sock. Colors: Grey Twist, Blue Twist, Red Twist
XWW-NC Reg. \$4.95 NOW \$2.95

Ruck-Sack Knicker Sock, 85% wool, 13% nylon, 2% Lycra spandex for stretch. 3x1 true rib leg and 1x1 true rib top. Colors: Red Twist, Grey Twist, Blue Twist. Sizes: M(9-11), L(11-12).
XWW-RSK-K Reg. \$9.25 NOW \$6.10

Norway Scarf, 85% wool, 15% nylon. Five foot long, extra-heavyweight double fabric Rag pattern knit. Grey Twist.
XWW-NS Reg. \$7.60 NOW \$5.25

Yodel Cap, 100% Creslan acrylic, 6-color Jacquard pattern knit with large 6-color pom. Assorted Colors. **XWW-YC Reg. \$4.10 NOW \$2.40**



Spectrum Cap, 100% Creslan acrylic. Multi-colored 4 color ribbed cap w/4-color layered pom. Assorted Colors.
XWW-SC Reg. \$2.85 NOW \$1.65

Rugby Cap, 100% Creslan acrylic. Rugby striped toque w/solid turned-up Denim. Heather colors w/ contrasting stripes. Assorted Colors.
XWW-RC Reg. \$2.85 NOW \$1.65

Bugaboo Cap, 100% Worsted wool. Cathedral top with pom. 2-color stripe design. Matches Bugaboo Knicker Sock. Colors: Bt. Blue/Silver, Chocola/Buff, Navy/Kelly, Scarlet/Bt. Blue
XWW-BC-K Reg. \$7.95 NOW \$4.25

Bugaboo Sock, 75% wool, 25% nylon. Light-weight 16" over the calf, thermal cushioned stretch sock. 2-color stripe design. Sizes: M(9-11), L(11-13). Colors: Bt. Blue/Silver, Chocola/Buff, Navy/Kelly, Scarlet/Bt. Blue
XWW-BS-K Reg. \$5.75 NOW \$3.65

Swix TourPak Contains 3 waxes: red, blue, speckle green plus a combined cork scraper.
XSI-TP Reg. \$5.25 NOW \$3.90

SWIX

Heat-On Impregnator for use with a ski wax blow torch. Considered to be the most effective method of keeping moisture out of the wood and of gaining good wax adhesion.
XSI-QI Reg. \$2.50 NOW \$1.70

GLIDER WAXES
XSI-GV Violet
XSI-GR Red
XSI-GG Green
XSI-GB Blue
Reg. \$1.15
NOW 90¢ each

Ski Cover/Carrier, 2-color nylon, zippered ski bag. Long YKK zipper for easy access to skis. Reinforced vinyl tips and tail. Inside reinforced binding areas to protect against rips. Tie straps to fasten poles to cover. Tail of bag has strap to tie up access. Long nylon pouch on side stores other accessories. Universal fit. Red, White & Blue
XII-SC Reg. \$13.50 NOW \$8.75

duofold

Denim-Look Long Underwear, Outer layer. 25% wool/65% cotton/10% nylon. Inner layer. 100% cotton. Color: Popular "Jean-look" Blue.
Sizes: **Longsleeve Top - S,M,L,XL**
Bottoms - 30,32,34,36,38,40,42
XDF-DUT-Z Tops, Reg. \$11.50 **NOW \$7.60**
XDF-DUB-Z Bottoms, Reg. \$11.75 **NOW \$7.80**





AERO

AERODYNAMICS RACING from Tsunoda

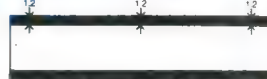
Identical in wind cheating abilities as the DA AX.*
Uses the heavier 600AX Components resulting in
a bike with the same quality-craftsmanship but
a lower price. Paint: Med. Silver-Blue Metallic.

TS-A600A-Z

Sizes: 21,23,25

Sugg. Retail
over \$900

STANDARD SHIPPING RATES
APPLY ON BOTH BICYCLES.



Double Plain Gauge Tube

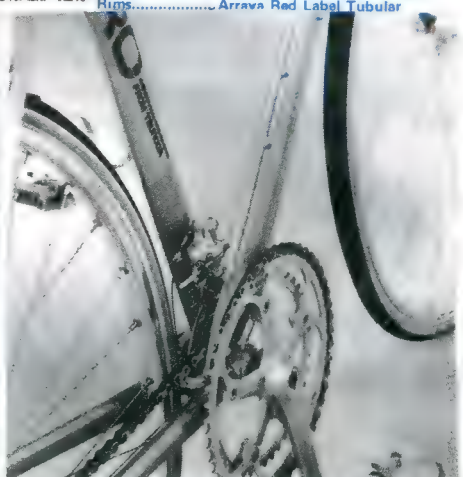
COMPOSITION

C	Si	Mn	Mo	S	P	Cr
0.33%	0.35%	0.85%	0.25%	0.03%	Max. 0.03%	Max. 1.2%

Model: Aero 600AX

Frame & Lugs.....	Main tube CR-MO & Back Mangaloy (full Aero Oval Tubing)
Fork.....	Mangaloy
Head Parts.....	Shimano 600
BB Sets.....	Shimano 600EX
Handlebar.....	SR CTD
Handlebar Stem.....	Shimano 600AX
Bar Tape.....	OGK Pearl
Brakes.....	Shimano 600AX
Lever Cable.....	Shimano 600AX
Gear & Cranks.....	Shimano 600AX
Chain.....	UG
Pedals.....	Shimano 600AX
Rear Derailleur.....	Shimano 600AX
Front Derailleur.....	Shimano 600AX
Shift Levers.....	Shimano 600AX
Freewheel.....	Shimano 600AX Cassette 6spd.
Saddle.....	Kashima Super-AX Aero
Seatpost.....	Shimano 600AX Oval
Front Hub.....	Shimano 600AX w/Quick Release
Rear Hub.....	Shimano 600AX w/Quick Release
Spokes.....	Stainless
Tires.....	National Pana Racer Tubular
Rims.....	Araya Red Label Tubular

July Delivery
VERY
LIMITED



AERO

AERODYNAMICS RACING from Tsunoda

Reduced wind resistance by an amazing 20.6%*.
This decreased resistance means a reduction in
rider fatigue & improved acceleration (or a rider
can go farther & faster on the same amount of
expended energy).

Constructed w/
jewel-like
craftsmanship.

Paint: Platinum
Silver

Sizes: 21,23,25

TS-ADA-Z

Sugg. Retail
over \$1400



Aero Seamless DB Tube

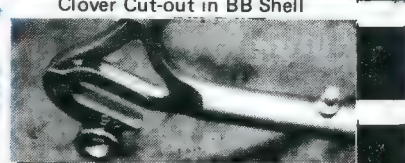
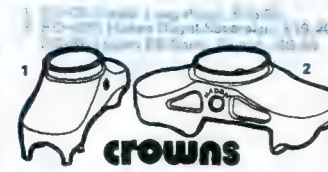
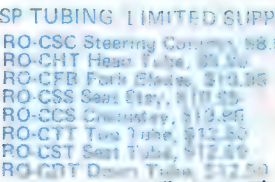
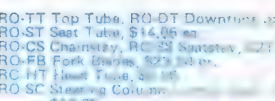
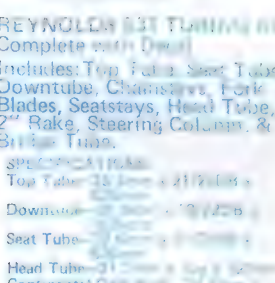
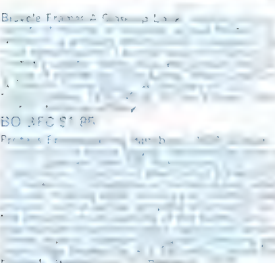
C	Si	Mn	Mo	S	P	Cr
0.33%	0.35%	0.85%	0.25%	0.03%	Max. 0.03%	Max. 1.2%

Model: Aero Dura AX

Frame & Lugs.....	All CR-MO Aero Oval Tubing
Fork.....	CR-MO Aero
Head Parts.....	Shimano DA-AX
BB Sets.....	Shimano DA-AX
Handlebar.....	Nitto ADBX
Handlebar Stem.....	Nitto Crystal Blue
Bar Tape.....	OGK Pearl Aero
Brakes.....	Shimano DA-AX
Lever Cable.....	Shimano DA-AX
Gear & Cranks.....	Shimano DA-AX
Chain.....	Shimano DA-EX Gold
Pedals.....	Shimano DA-AX
Rear Derailleur.....	Shimano DA-AX
Front Derailleur.....	Shimano DA-AX
Shift Levers.....	Shimano DA-AX
Freewheel.....	Shimano DA-EX 7spd. Gold
Saddle.....	Kashima Aero-Super Pro
Seatpost.....	Shimano DA-AX Oval
Front Hub.....	Shimano DA-AX w/Quick Release
Rear Hub.....	Shimano DA-AX w/Quick Release
Spokes.....	Oval 15/16 Stainless
Tires.....	National Pana Racer Tubular
Rims.....	Araya ADX-2 Aero No. 2 type
Waterbottle.....	Aero-dynamic type w/Alloy Cage

July Delivery
VERY
LIMITED





Campy Super Record Dropouts

• • • • •

TYPE OF FORK ENDS	1010B or Colnago
TUBING	COLUMBUS SL
FORK RAKE	1.75"
HEAD TUBE ANGLE	75
SEAT TUBE ANGLE	74-75
COUNTRY BUILT	ITALY
SEAT POST I.D.	27.2
FORK TUBE I.D.	22.2
BOTTOM BRACKET THREAD	ITAL.
WHEEL SIZE TO USE	700C
COLORS AVAILABLE:	RED, GREEN, DK BLUE, LT BLUE, BLACK, YELLOW



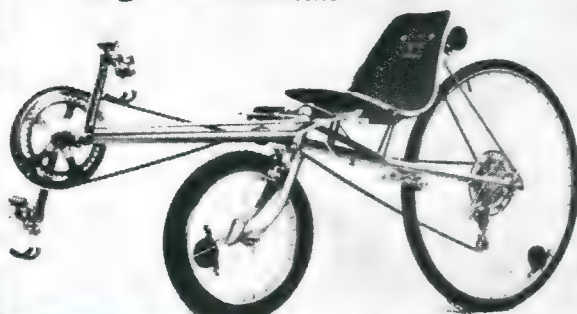
Investment cast BB Shell, Campy Cable Guides			Blue/White/Yellow. CO-CAP \$3.45				
TOP TUBE IN INCHES	20.00	20.50	21.00	21.50	22.00	22.75	22.87
CHAIN STAY LENGTH	16.00	16.12	16.12	16.12	16.25	16.37	16.37
WHEEL BASE	38.25	38.25	38.50	38.50	39.00	39.50	39.50
SEAT TUBE IN CM.	50	52	54	56	58	60	62
FRAME SIZE IN IN.	19.75	20.50	21.75	22.00	22.87	23.62	24.37

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	23.3	23.6				
Cms.	55	56	57	58	58.4	59	59.5	60	61		24.4	
										62		
Inches	24.5	24.8	25	25.2	25.5	25.6	26	26.3	26.5	26.8	27	
Cms.	62	63	63.5	64	64.8	65	66	67	67.3	68	68.6	



Hyper-Cycle™

a recumbent



Ease of Handling—Aerodynamic design greatly reduces wind resistance. Shorter wheelbase and lower center of gravity enhance cornering and maneuverability.

Better Use of Energy—With firm back support, the rider can push harder with his legs and therefore it can sustain a regular 10 speed, on hills or over ground.

Riding Comfort—There is no better riding posture than reclining in a bucket seat with both hands at the sides to control steering, braking & gear shifting.

Compact and Lightweight—It is shorter, lighter than a regular 10 speed bike.

Parts Interchangeability—It accepts most 10 speed components and accessories (except fenders).

Are welded Carbon Steel Frame.

FRAME KIT Includes: Frame, Seat, Rear and 10 speed.

Colors: Candy Red or Silver



HC-H-C Small size 5'6" \$199.95

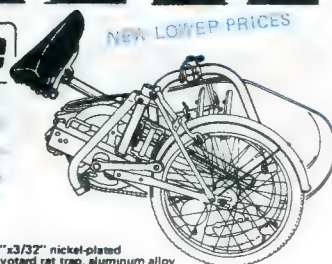
HC-H-C Regular 5'6" to 6'0" \$219.95

HC-RL-C Large size 6'4" to 6'10" \$239.95

HC-SC Padded Seat Cover, \$9.95

BICKERTON portable

NEW LOWER PRICES

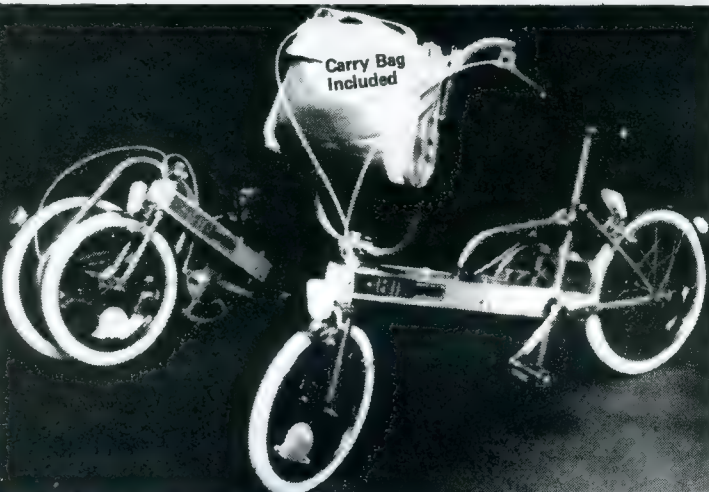


SPECIFICATIONS:

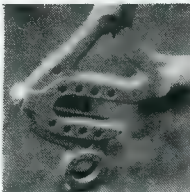
3-Speed

Wheelbase: 38" approx.
Saddle height from crank center: adjusts from 17 1/2" to 40"
Height of handgrip from ground: adjusts from 35" to 41"
Height of crank center from ground: 10 1/2"
Folded dimensions: 30" x 20" x 10" in carrier bag
Weight: 25 lb.
Front wheel: Endrick type 14" x 1 3/8", 20 spokes
Rear wheel: Endrick type 16" x 1 3/8", 28 spokes, 13T sprocket 3-spd hub gear & handlebar trigger control.
Tires and tubes: Michelin black
Chainwheel: 57T aluminum alloy
Crank: aluminum alloy, cotterless, 6 1/2" throw

Chain: 1/2" x 3/32" nickel-plated
Pedals: Lyotard rat trap, aluminum alloy
Saddle: Lightweight, mattress type
Brakes: Weinmann 730 sidepulls
Fenders: Polished aluminum alloy (rear has reflector)
Main frame member: Aluminum alloy 2 1/2" x 1 5/8" rectangular action, hinged for folding w/clamps at fold point.
Handlebar tubes and seat tubes: Telescopic action aluminum alloy drawn tubes w/hard clamps, 7/8" dia. at saddle attachment and handgrips.
Headstock: Combined pivoting and swiveling w/double quick action clamps and position locating pins.



GIOS TORINO



Frame & Fork
GT-RE-Z 8070

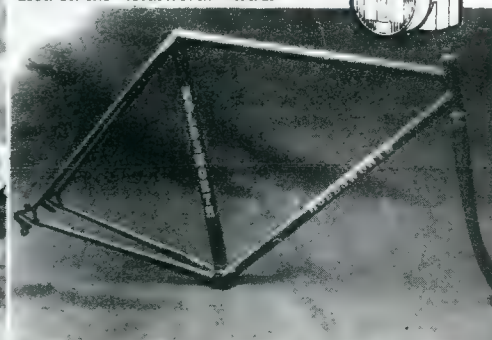
TYPE OF FORK ENDS	1010B	SEAT POST I.D.					27.2
TUBING	COLUMBUS SL	FORK TUBE I.D.					22.2
FORK RAKE	1.87"	BOTTOM BRACKET THREAD					ITAL.
HEAD TUBE ANGLE	74	WHEEL SIZE TO USE					700C
SEAT TUBE ANGLE	74	COLORS AVAILABLE:					
COUNTRY BUILT	ITALY	BLUE					
TOP TUBE IN INCHES	20.00	20.50	21.00	21.50	22.00	22.75	22.87
CHAIN STAY LENGTH	15.75	15.87	16.00	16.00	16.00	16.00	16.00
WHEEL BASE	38.50	38.62	38.75	38.75	38.75	39.00	39.25
SEAT TUBE IN CM.	50	52	54	56	58	60	62
FRAME SIZE IN IN.	19.75	20.50	21.25	22.00	22.87	23.62	24.37



Frame & Fork
77/77
Size: 21 21 1/4 22 1/4 23 1/4 24 1/4 25 1/4"

BEREC Headlight
to fit fork,
CP-BHL \$8.95

NOTE: 730 Reach Brakes must be used on the Holdsworth Mistral



FRAMES ON DISPLAY IN OUR SHOWROOM

Designed by
Ernie Clements

Falcon

San Remo Touring Frame, Reynolds 531 Double-Butted Tubing, Long-Point Prugnat-type Cutout Lugs, Campy Front and Rear Dropouts with Eyelets, 2 Tunnel Guides, Stop for levers, Eyelets on chainstay, Semi-Sloping Crown, Semi-Wrap Seatstay, 27" Clearance for wheels with guards, 27.2 Seatpost Size, English B.B. Wheelbase 40"-40 1/2", Fork Rake 2", Frame Angles 73/73. Made in England.



10 to 12 Week Delivery



Model 25 Sport Tourer, Reynolds 531 DB Main Tube, Champion Chrome-moly Rear Triangle and Front Fork, Campy Dropouts w/ Fender and Adjusting Screws, Nervex Lugs & Crown, English Flat Plate Seat Cluster, Plain Binder Bolt, Haden English BB Shell, Braze-on RH & LH Tunnel Guides, Rear Derailleur Chainstay Stop, Tange Falcon Headset installed. Sizes: 19", 21", 22", 23", 24", 25", 26", 27". Enamel Paint Colors: Black, Red, Yellow, Dark Blue, Sky Blue

RO-ST-K \$325.00 Deviation Fee for Sizes over 24 1/2"

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 1/4	2-11/16	17 1/4	2 1/4	31-1/8	39 1/4	
19	73"	73"	21 1/4	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4	

Model 50 Touring Frame Set, Champion 2 Chrome-moly DB Tubing, Cinelli Long-Point Lugs, Haden Europa Investment cast Semi-sloping Crown, Italian Fluted Seat Cluster, Allen key Binder Bolt installed, Haden English BB, Campy 1010 Dropouts, with Fender and adjusting Screws. Braze-on RH & LH BB Tunnel Guides, Rear Derailleur Chainstay Stop, Waterbottle Bosses on downtube, Tange Falcon Headset installed. Sizes: 19", 20", 21", 22", 23", 24", 25", Enamel Paint Colors: Red, Black, Yellow, Sky Blue, Dark Blue

RO-TF-K \$315.00

NO OPTIONS AVAILABLE

	A	C	D	B	I	E	D	K	H
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 1/2	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	72"	72"	20-3/8	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4	

Reynolds frames larger than 25 1/2" are made with 18/20 gauge seat mats rather than the normal 21/24 gauge. Track frames can be supplied with the 18/20 gauge seat mat in all sizes if requested. English threading is standard

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 - 19" in standard frames.

Track and road frames available for 24" wheels.

OPTIONS LIST

Deviations from stock, \$15.00
Cinelli Full-Sloping Crown, \$22.00
Cinelli Semi-sloping Crown, \$18.00
Fast Back Rear Stays, \$32.00
Semi-wraparound Rear Stays, \$19.00
Shimano Vertical Dropouts, \$16.00
Extra Eyelets on Dropouts (pr), \$10.00
Campy B.B. Cable Guides R.H., \$9.00
Campy B.B. Cable Guides L.H., \$9.00
Rear Derailleur Cable Stop, \$5.00
Brake Cable Stops (2), \$10.00
Brake Cable Guides (3), \$15.00
Campy Shift Lever Bosses, \$10.00
Campy Shift Lever Bosses complete with Levers, \$20.00
Dura-Ace EX Shift Lever Bosses Complete with Levers, \$28.00
Fork Tab Reinforcements, \$9.00
Brake Bridge Reinforcements (pr), \$9.00
Centerpull Brake Support, \$15.00
Cantilever Brake Braze-on complete with Brakes, \$21.00
Rear Carrier Mounts, \$12.00
Water Bottle Bosses, \$10.00
Pump Peg, \$10.00
Cr-Mo Fork, painted, \$50.00
Reynolds 531 Fork, painted, with Cinelli Semi-sloping Crown, \$64.00
Reynolds 531 Fork, Full-sloping Crown, painted, \$68.00
Frame Painted in IMRON, \$45.00 ALL FRAMES

Model X-100 Custom Touring/Racing Frame Set, standard are Reynolds 531 DB Tubing, Haden "Royal Sovereign" Cut-out Lugs, Haden Europe Crown, Cinelli Cast BB Shell, Semi-wrap around Seat Cluster, Reinforced Chainstays & Seatstay Brake Bridges, Campy Dropouts (nickel-plated), Campy Record Headset, Braze-on Rear Chainstay Stop, BB Guides, Waterbottle Bosses, Brake Cable Guides on top tube. Bridges set for either screw-ups or clinchers using normal reach brakes. Allen key Binder Bolt installed. Other options available on Option List. Frame also available in Columbus SP Tubing. Sizes: 19" 21 1/4", 22 1/2", 23 1/2", 24 1/2", 25 1/2", 26 1/2", 27". Imron Paint Colors: Burgundy, Black Met., Lt. Continental Blue, Med. Blue, Lt. Rose, Green Ivy, Med. Taupe, Britte Blue, Dk. Persimmon.

RO-CT-K \$485.00

TOURING									
	A	C	D	B	I	E	F	K	H
27	73"	73"	24	2-11/16	17	2 1/4	36-3/8	42 1/4	
26 1/2	73"	73"	24	2-11/16	17	2 1/4	35-7/8	42 1/4	
25 1/2	73"	73"	24	2-11/16	17	2 1/4	34-7/8	42 1/4	
24 1/2	73"	73"	23 1/2	2-11/16	17	2 1/4	33-7/8	41 1/4	
23 1/2	73"	73"	22-3/8	2-11/16	17	2 1/4	33	40 1/4	
22 1/2	73"	73"	21 1/2	2-11/16	17	2 1/4	32-1/8	39 1/4	
21 1/2	73"	73"	21 1/4	2-11/16	17	2 1/4	31-1/8	39 1/4	
19	73"	73"	21 1/4	2 1/4	17	2 1/4	29-5/8	39 1/4	

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 1/2	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 1/4	2-11/16	16 1/4	2	32 1/4	38 1/4	
21 1/2	74"	73"	21 1/4	2-11/16	16 1/4	2	31 1/4	38 1/4	
19	74"	73"	21 1/4	2 1/4	16 1/4	2	29 1/4	38 1/4	

TRACK									
	A	C	D	B	I	E	F	K	H
27	75"	75"	23	2 1/4	18	1 1/2	37	40	
26 1/2	75"	75"	22 1/2	2 1/4	18	1 1/2	36 1/2	39 1/2	
25 1/2	75"	75"	22 1/4	2 1/4	18	1 1/2	35-1/8	39	
24 1/2	75"	75"	21 1/2	2 1/4	18	1 1/2	34-5/8	38 1/2	
23 1/2	75"	75"	21 1/4	2 1/4	18	1 1/2	33-7/8	38 1/4	
22 1/2	75"	75"	21	2 1/4	18	1 1/2	32 1/4	38	
21 1/2	75"	75"	20 3/4	2 1/4	18	1 1/2	31 3/4	37-5/8	
19	75"	75"	20 1/4	2 1/4	18	1 1/2	29 3/4	37-1/8	

Model 100 Pro-Tour Frame Set, full Reynolds 531 DB, Haden "Royal Sovereign" Long-point Cut-out Lugs, Haden Europa Investment cast Semi-sloping Crown, Italian Fluted Seatstay Cluster, Allen key Binder Bolt installed, Campy Dropouts (nickel-plated) with fender Eyelets and adjusting Screws, Braze-on Rear Derailleur Stop, RH & LH BB Tunnel Guides, Rear Brake Bridge Bushing, Campy Headset installed. Sizes: 19", 21 1/4", 22 1/2", 23 1/2", 24 1/2", 25 1/2", 26 1/2", 27". Imron Paint Colors: Burgundy, Black Met., Lt. Continental Blue, Med. Blue, Lt. Rose, Green Ivy, Med. Taupe, Britte Blue, Dark Persimmon.

RO-PT-K \$415.00

Options available subject to Deviation Fee

	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 1/4	2-11/16	17 1/4	2 1/4	31-1/8	39 1/4	
19	73"	73"	21 1/4	2 1/4	17 1/4	2 1/4	29-5/8	39 1/4	

Model 75 Racing Frame-Track or Road, Champion 2 Chrome-moly DB Tubing, Cinelli Long-point Lugs, Haden Europa Wide Oval Investment cast Semi-sloping Crown, English Flat Plate Seat Cluster, Allen key Binder Bolt installed, Campy Dropouts without eyelets, Shimano 600 K Headset installed, Braze-on RH & LH BB Tunnel Guides, Rear Derailleur Chainstay Stop, Waterbottle Bosses on downtube, Brake Cable Guides on top tube. On Track Frame - Cinelli Cast Crown with Columbus Round Fork Blades, Campy Track Dropouts, No Braze-ons. Fork and Bridge drilled for brakes. Sizes: 19", 21 1/4", 22 1/2", 23 1/2", 24 1/2". Enamel Paint Colors: Red, Black, Yellow, Sky Blue, Dark Blue

RO-RF-K \$325.00

ROAD RACING

	A	C	D	B	I	E	F	K	H
24 1/2	73"	73"	22-3/8	2-11/16	17	2	33-7/8	39-1/8	
23 1/2	73"	73"	21 1/2	2-11/16	17	2	33	38-1/8	
22 1/2	73"	73"	21 1/4	2-11/16	17	2	32-1/8	39	
21 1/2	73"	73"	21 1/4	2-11/16	17	2	31-1/8	39	
19 1/2	73"	73"	21 1/4	2 1/4	17	2	29-5/8	39	

TRACK RACING

	A	C	D	B	I	E	F	K	H
24 1/2	75"	75"	21 1/2	2 1/4	18	1 1/2	34-5/8	38 1/2	
23 1/2	75"	75"	21 1/4	2 1/4	18	1 1/2	33-7/8	38 1/4	
22 1/2	75"	75"	21	2 1/4	18	1 1/2	32 1/4	38	
21 1/2	75"	75"	20 3/4	2 1/4	18	1 1/2	31 3/4	37-5/8	
19 1/2	75"	75"	20 1/4	2 1/4	18	1 1/2	29 3/4	37-1/8	

Colors: Fluorescent Red or Blue
Sizes: 22, 23, 24, 25"

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TOURING
MODEL

NOTE: 730 Reach Brakes must be used with the Falcon Touring Frame.

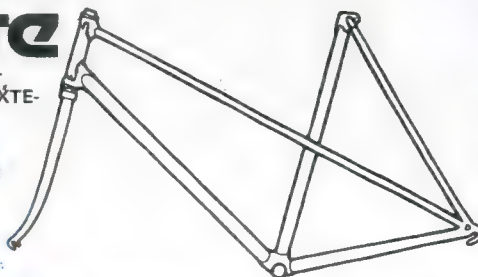
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Sierratour 27" Frame, high tensile tubing, fully lugged. Stamped Steel Dropouts with Eyelets. Eng. BB., Cable Guides & Stops, Centerpull Brake Hanger. Seatpost Size: 26.0. Seatpost Bolt included. Color: Blue only. Size: 27" only **RW-ST27 \$125.00**



AL-SRF-K \$490.00

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HEAD TUBE ANGLE	75	WHEEL SIZE TO USE	700c
SEAT TUBE ANGLE	75	COLORS AVAILABLE:	Silver or Blue
COUNTRY BUILT	ITALY		
TOP TUBE IN INCHES	19.34	20.50	21.25 21.62 21.87 22.37 23.25
CHAIN STAY LENGTH	16.12	16.12	16.12 16.25 16.25 16.25 16.25
WHEEL BASE	38.50	38.37	38.87 39.00 39.25 39.37 39.50
SEAT TUBE IN CM.	50	52	54 56 58 60 62
FRAME SIZE IN IN.	19.75	20.50	21.25 22.00 22.87 23.62 24.37

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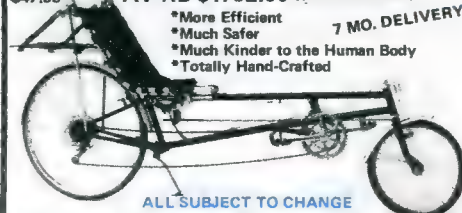
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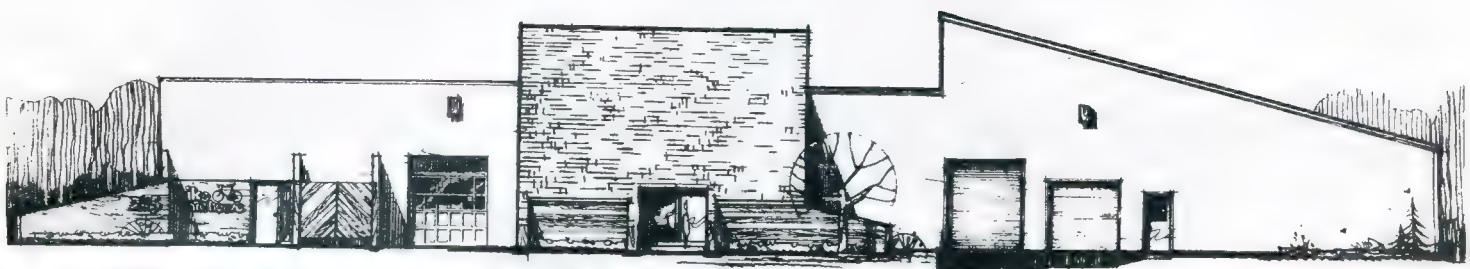
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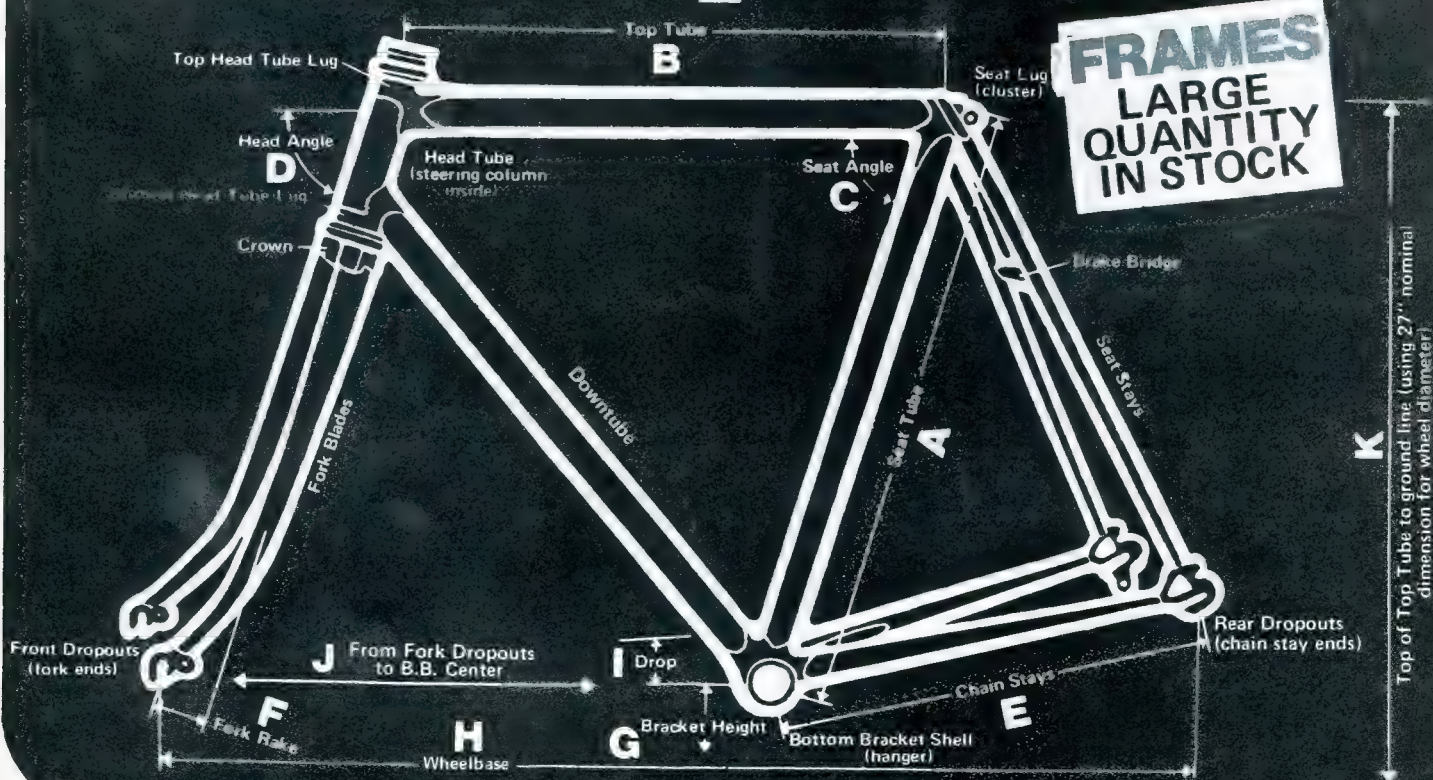
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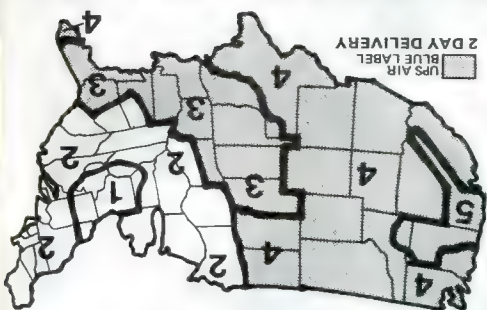
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CHANGE OF ADDRESS—Moving soon? To receive a current catalog at your new address, fill out the 2 labels above, with your new address and phone number. If you are moving, include both labels with your order.

NO COD. Maximum size is 22" length & 12" width. That means gifts, that means no return, wheels, rollers, frames, bags, or skis. Maximum weight is 35lb. All shipments go Parcel Post. You are required to pay duty Customs if you have double duty.



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We accept Personal Checks (under \$50), Money Order, MasterCard or Visa. Ohio Residents add 5% Tax.
Personal check orders over \$50 will be held for 3 weeks to insure that it has cleared the bank.

store policy
We must follow our MAIL ORDER format in the store so that we can GUARANTEE the LOWEST PRICES in the country - 1. Please take a catalog, clipboard & order form.
2. Read the catalog!! Most questions can be answered by reading the item descriptions. We cannot answer questions or demonstrate merchandise.
3. Complete fill out your order form (except totals), \$5 minimum and 5% sales tax applies to all orders.
4. Ring service bell to have your order filled.

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All orders (in stock) we try to ship 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. On orders marked RUSH in-stock items only will be shipped.
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.

changes
Due to our immediate processing of orders, it is difficult to make any changes until you actually receive your order.
AND WHAT TO DO
We are sorry but a small percent of our orders do go astray. Here's what you can do to help us correct the situation.
DO NOT CALL! It will take a while to find the problem and the call will be expensive.

our policy
All items in this catalog are new & 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.

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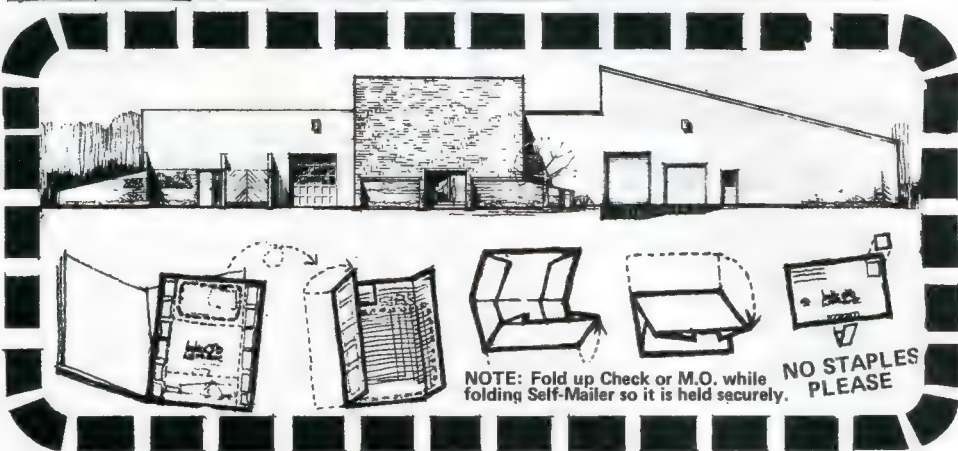
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1. Have you specified color/sizes/threads?
2. Have you signed & enclosed check or money order?
3. Have shipping charges been included?
4. Is your name, & address (including zip) clear and complete?
5. Are substitutes listed?

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B Back Order.....Delivery is expected soon
D Discontinued.....Please order a substitute
S Substitute.....Merchandise of equal quality is enclosed
X Out-of-Stock.....We don't expect replacement for a month.
C Cancelled.....This item was not supplied because you
 did not include enough money, please
 reorder.
W Merchandise is being Drop-Shipped from another
 warehouse and will come directly to you.
A SHIPPED and is in your Order

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JULY 19th SUNDAY

7:30-8:00 AM BREAKFAST RIDE West Boulevard to Springdale. The early riders will break off into small groups to the restaurants (dutch).

9:00 Late registration at the school. Pick up T-shirts and lunch ticket. A limited supply of hot chocolate & homemade donuts will be served.

SWAP MEET, Bring your un-needed bike items to sell or swap. Many good items are available at bargain prices.

10:00 THE TOUR OF MILL CREEK PARK demonstrates its 2,383 acres, 3 major lakes, 4 large waterfalls, boating, fishing, tennis and golf. The Silver Bridge reflecting in the water, the old mill race, the old mill, a goldfish pond (bring bread scraps to feed the fish), the towering rock gardens echoing the flickety-clack of a misaligned derailleur.

FREE PADDLE BOAT RIDES touring Lake Glacier until 1:00 pm.

THE ROSE GARDEN with its challenging entrance hill, well worth it because of the garden's winding floral arrays, masculine sculptures, pulsating fountain and still another lake vista.

PICNIC LUNCH at the stone Slippery Rock Pavilion. Again, Pat Thomas and the gang are serving up a meal fit for hungry bikers consisting of sloppy joes, macaroni salad, french onion garnish, potato chips, cupcake & a drink.

After lunch a CONCOURSE D'ELEGANCE for bicycles of special beauty of interest. Worthwhile prizes will be awarded for categories like Best Paint, Best Detailing. Most Interesting, and everyone will vote for the peoples choice of Best All-Around Bike. Numerous door prizes will be given for the farthest to attend, youngest and oldest to ride, and prizes for games for all like our rrm toss for movie prizes.

On the return route you'll visit the Ford Naure Education Center and the Old Mill Museum. As in the past any profit (and there isn't much) from this weekend is donated to the Mill Creek Park Fund to restore the Old Mill to it's original working condition.

If you would like more information & a Registration Form-Please indicate so on your Order Form.

JULY 16th THURSDAY

Last day to get your advance registration in and get a M.C.T.-T-shirt. After that day you just get an iron-on transfer.

JULY 18th SATURDAY

9:30 Late registration and map pick-up at West Boulevard School-Advise registrants may pick up their T-shirt.

10:00-BERLIN,BOLOGNA & BICYCLE (Metric-A & BI West Boulevard School. Jim Thomas will take the more hardy riders out to release their energy on a metric century tour of 3 lakes (around Berlin Reservoir touring Milton & Meander). This ride costs \$1:00 extra because it includes lunch if you want a LAW. Come along! We figured you made it to lunch, you'll make it back!

12:00-More late registration and map pick-up at the school. T-shirts may be picked up.

1:30 WAREHOUSE WANDER (25mi. B & C) West Boulevard School. Craig Raub will lead a medium ride in the country, some on the Cardinal Trail to Bike Warehouse for a cold drink & donut tour (nothing will be sold).

5:00 DINNER PROGRAM & RECEPTION Boardman Youth Center in Boardman Park. A dinner designed for hungry century riders-schnitzel, rice, potato, vegetable, stuffed cabbage, salad, rolls & butter, cake

"BICYCLE/AERODYNAMICS"-the title of this years special program brought to us by Shimano America. The program consists of a speaker, a fantastic film showing the history of the bicycle up to Shimano's wind tunnel testing and the new aerodynamic components that evolved. Aerodynamic and anatomical aerodynamic bike enthusiasts a new Deore equipped bike will be on display.

BILL WHITEHOUSE, Mill Creek Park Naturalist, will be back this year with a live animal for discussion.

This year we will be honoring CHARLES WEDEKIND, Superintendent of Mill Creek Park.

11:00--Many of the guests reserve sleeping bag space in members homes' space in Bob-

Place
Stamp
Here

Type Here Only

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No Tape

3. Fold Under •• No Tape

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See Steps 1 thru 5 On Reverse

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(Especially if your order is small)

Qty. Stock No. Description Size Color sub 1 sub 2 Price Each Total Price

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\$1.25

← Extra catalogs for my friends (one comes with order)

free

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☐ RUSH Ship Only In Stock Items

Sales Tax 5% (Ohio only)

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total

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Authorization

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IN CASE OF ANY PROBLEMS—DO NOT CALL—RETURN THIS COPY WITH AN EXPLANATION OF YOUR PROBLEM

B Back Ordered... Delivery is expected soon

D Discontinued... Please order a substitute

S Substitute... Merchandise of equal quality is enclosed

X Out-of-Stock... We don't expect replacement for a month. Please reorder then.

C Cancelled... This item was not supplied because you did not include enough money. Please reorder.

W... Merchandise is being Drop-Shipped from another warehouse and will come directly to you

☒ Shipped and is in your Order

B F C

CHARGES ESTIMATED

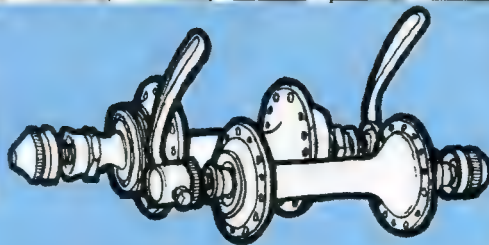
Amount of Order	Handling and UPS Shipping 1-5 Day Delivery	Alaska Canada Hawaii	UPS AIR Shaded Map Area 2 Day Delivery Handling Incl.
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\$15.01 - \$50.00	\$2.75	\$5.75	Examples--
OVER \$50.00	\$3.75	\$7.75+	2LB - \$3.85
			10LB - \$11.85
			25LB - \$26.95

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NO AIRMAIL OVERSEAS

shipping

PLEASE ORDER BY STOCK NUMBER, DESCRIPTION AND PRICE

Diagram shows position of Model II's Multidensity Sole Laminates in relation to cyclist's skeletal structure.



Internal diagram of the Model III Cylindrical Roller-bearing Headset.



Model I Small Flange Hubs, for the cyclist who prefers to maintain his own equipment. This hub features traditional adjustable cones and Avocet press-fits hardened steel bearing races that are precision-ground. Model I Hubs come with chromed steel quick-release skewers. **36 Hole. 5-speed**

AV-HS \$44.59 pr.

Model II Sealed Small Flange Hubs, this single-piece, small flange hub made from cold-forged aluminum is unsurpassed for its strength and beauty. The Model II is designed with adjustable, precision sealed bearings that require little if any maintenance. Cone bearing races are machine-ground and polished to a mirror finish. Lightweight alloy Quick-release skewers with aluminum skewer heads. **36 Hole. Specify: 5-speed or 6-speed Rear Hubs.**

AV-SHS-Z \$69.69 pr.



Cutaway of the Model III shows how each cylindrical roller-bearing provides a full line of support.

Cutaway of a standard headset with ball bearings providing only one contact point on any given race.



Model III Sealed Headset, a new design in sealed bearings allows the bearing to simultaneously withstand the heavy radial and lateral loads which headsets receive. The Model III's sealed, cylindrical roller-bearings are an advantage over standard ball bearings through increased area

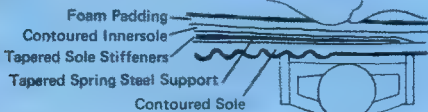
contact. This feature makes the Model III Headset much stronger than any other. Installation of this lightweight aluminum headset is simple and maintenance is a thing of the past. Anodized silver finish. **145G. Guaranteed for the life of the bike if properly installed. Specify: English, French or Italian.**

AV-SH-T \$59.85



Model II Cycle-Touring Shoe, the culmination of features taken from the finest athletic and cycling shoe designs. Essential for comfortable and efficient pedaling whether you intend to bike to work or tour the entire continent. Ideal for pleasurable walking, also.

The greatest problem facing the cyclist who wears tennis or athletic shoes comes from a flexible sole which provides insufficient support under the ball of the foot, promoting excessive foot flex and painful twisting. The Model II's **Multidensity Sole**, formed of tapered spring steel and fiber laminates, insures comfort by displacing the pressure around the ball of the foot over a greater area.



Avocet has built in all the safety & pedaling efficiency of a traditional cleated shoe. The forward area of the molded sole features specially angled pedal channels that position the ball of the foot directly over the pedal axle. The shape of the channels provides a far better grip on the pedal than an all-purpose shoe.

A new raised-cushion heel on the Model II provides absolute walking comfort to the cyclist while working or hiking. The inner sole of the Model II is shaped and contoured to provide luxurious surrounding comfort for the widest of feet all day long—both on and off the bike.

The upper portion of the Model II Cycle-Touring Shoe is constructed of an ultra-lightweight nylon fabric—a durable solution to proper ventilation. Protection against toe clip and strap wear is provided by a reinforcement of top quality black suede leather. Extra-long tongue.

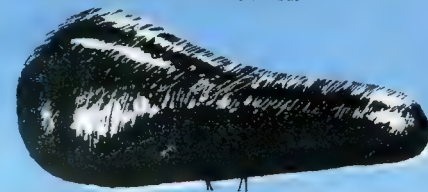
Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13

AV-S-Z \$32.85 pr.



The Avocet Saddle Design System, now, every aspect of the cyclist's pelvic structure gets the support it needs. Varying thicknesses of the molded nylon shell disperse the pressure of the rider's bodyweight over a greater area than with conventional saddles. As the pelvic bones contact the saddle, the padded bumps are displaced

and the pressure points (arrows) are relieved. The thinned nylon shell regions below the padded bumps give in a downward direction, thus, distributing support around the pelvic contact points. The padded bumps and thinned nylon shell combine to provide maximum comfort. The lowered area between the bumps prevents irritation in the crotch area.

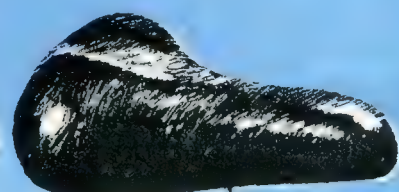


Mens Model I Saddle, features a softer nylon shell and a thicker, softer (less-dense) polyurethane padding. This is an ideal design for the beginner & intermediate cyclists. **Smooth Black.**

AV-M1 Mens Model 1, \$21.75

Mens Model II Saddle, designed for the more experienced racer or tourist who desires a firmer nylon shell and pad for optimum efficiency during extended riding. **Smooth Black.**

AV-M2 Mens Model 2, \$28.75



Avocet has taken into account the differences in width and construction between the mens pelvic structure and the womens, by designing Model I & Model II Saddles specifically for women. They feature a broader nylon shell and a repositioning of the saddles' molded anatomic pads. Both models are **Smooth Black.**

AV-W1 Womens Model 1, \$21.75

AV-W2 Womens Model 2, \$28.75

THE WORLD'S FIRST CHINA BICYCLE TOURS



China, encompassing six different time zones, is a land of great beauty and great history. Now for the first time, you can see China in your own time. China is a land of great beauty and great history. Now for the first time, you can see China in your own time. China is a land of great beauty and great history. Now for the first time, you can see China in your own time.

Departing on a wide variety of dates throughout the year, CHINA BICYCLE TOURS will cycle through the country's scenic mountains and valleys of scenic China. The tour is a unique opportunity to see the most beautiful scenery in China. The tour is a unique opportunity to see the most beautiful scenery in China. The tour is a unique opportunity to see the most beautiful scenery in China.

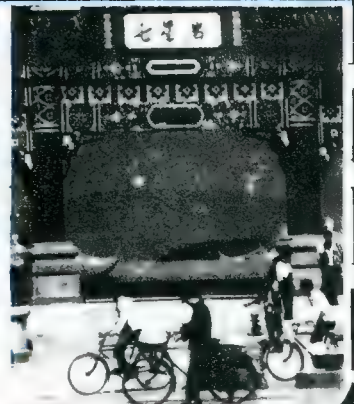
At times, you will be accompanied by Chinese local guides, and you will be met by local guides. At times, you will be accompanied by Chinese local guides, and you will be met by local guides. At times, you will be accompanied by Chinese local guides, and you will be met by local guides.

The CHINA BICYCLE TOUR program (1981) is the successful culmination of years of careful planning and experience in China travel. Participants can look forward to a exciting experience that will broaden and enrich their lives. It is a unique opportunity to see China in your own time.

About CHINA PASSAGE: This is a unique opportunity to see China in your own time. This is a unique opportunity to see China in your own time. This is a unique opportunity to see China in your own time.

Well, look forward to having you on our tour to China.

ASK FOR INFORMATION FLYER WITH YOUR ORDER



"No Wait" Calling (216) 542-3671

TOLL FREE 1-800-321-2474

Bike Warehouse Touring Jersey, 100% Durae Cotton. Short sleeve. One button 1 1/2" placket. Medium-sized collar. Double-rib knit sleeves and collar. 3 rear pockets and double-layered for strength and to prevent sagging. Chest stripe design consists of 6 mini-stripes. Color: Royal Blue body, Green collar, sleeves and placket w/Royal stripe, Red, Yellow & Green chest stripes. Sizes: XS,S,M,L,XL

CC-TJ-Z \$21.90



bike warehouse

Bike Warehouse Wool Jersey, 100% Wool, maximum comfort in hot or cold weather. Raglan-style short sleeves with double-rib knit cuffs. High, double-rib knit collar with zipper. 3 rear pockets are double-layered for strength. Double-chest stripe. Color: Royal Blue body with Yellow sleeves and stripes. Sizes: XS,S,M,L,XL

CC-WJ-Z \$31.75



Bike Warehouse Cotton Jersey, 100% cotton. Short sleeves. High, double-rib knit zippered collar. Rib knit cuffs. 3 rear pockets are double-layered for strength. 3-color stripe on collar & cuffs matches chest stripes. Specify Color: Gray body w/ Yellow, Royal, Red stripes; or Red body w/ Yellow, Green, Royal stripes. Sizes: XS,S,M,L,XL

CC-CJ-K \$21.80



bike warehouse

Tights, full length legs with a chamois insert so they can be worn with or without shorts. Elastic cuffs and elastic arch straps for a perfect fit. Makes a great warm-up outfit when worn with a Bike Warehouse Jersey. Navy Blue. Sizes: S,M,L,XL

BW-TGS-Z \$24.50

We think we have the ideal material for biking shorts and tights. Made from a combination of Cotton for softness and perspiration absorption, Dacron for strength & abrasive durability and Spandex with a four-way stretch for movement comfort. Reinforced zig-zag stitching. Pocket is reinforced all the way to the waist (no more torn corners). Pull cord waist (no more too tight or too loose elastic). Cord pull area is reinforced with chamois. Reverse pear-shaped chamois is extra-high in the back and specially-treated to stay soft longer even after repeated washings.



BW-SHR-Z \$18.80

Shorts, perfect for touring, racing or occasional riding. BLACK. Sizes: S,M,L,XL

Standard Shorts, NOW 2-Way Stretch, Double-Knit. Polyester outside for wear & Cotton inside for comfort. Great for race or Touring. Sizes: XS,S,M,L,XL

CB-SS-Z \$18.80

CAROLO

Carolo BICYCLEWEAR Shorts are made from a special blend of Cotton/Polyester which retains its shape and new look after other materials have worn out. The chamois insert prevents chafing and if the simple washing instructions 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.

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



Prologs

Cycling Shorts, made of ultra-soft, "no-itch" 100% Merino Wool for comfort and wear. Wool regulates your body temperature by absorbing moisture, avoiding that clammy feeling, even when wet, for year 'round comfort. Constructed to last—they're double-seamed to prevent splitting. Chamois crotch liner. Convenient small rear back pocket. SUPERWASH Merino Wool fabric does not retain a perspiration odor or a perspiration stain. SUPERWASH means that these shorts are the easiest to care for and still maintain their original shape—just toss them into the washer and dryer and they're good as new. Color: Black only. Sizes: XS,S,M,ML,L,XL

CB-WS-Z \$33.95

XS/28-30 ML/34-36
S/30-32 L/36-38
M/32-34 XL/40-42

Rainbow Stripes



Bike Warehouse Cap, 100% Cotton. Orange with Black. BW-CAP \$2.25



Campagnolo Cap, 100% Cotton. Orange with Black. CA-CAP \$3.45



Colnago Cap, 100% Cotton. Blue/White/Yellow. CO-CAP \$3.45



Shimano Aero Cap, 50/50 cotton/polyester. White w/Blue lettering. Multi-blue stripe. SH-CAP \$3.45



TI Reynolds Cap, 50/50 cotton/polyester. Yellow w/Black lettering. Multi-blue stripe. TI-CAP \$3.45



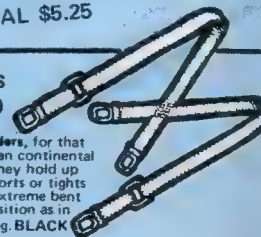
Bike Warehouse T-Shirt, high-crow neck, full cut. 50/50 Polyester/Cotton. Large brown and orange transfer on back & a small transfer on the front. Shirt Color: Powder Blue, Light Yellow, Lt. Beige. Sizes: S, M, L, XL

BW-SBW-K SPECIAL \$3.50

Bike Warehouse T-Shirt & Cap Combo SPECIAL \$5.25

AW-BS \$3.90

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



Acrylic Pile Liner, soft, absorbent, anti-bacterial liner is pre-cut, pre-shaped. BW-PL \$3.50



Replacement Chamois Pad, pre-cut and shaped chamois pad to replace the worn-out pad in your favorite shorts or tights. Cut extra-high in the back for maximum coverage. One size only. CB-RC \$8.95

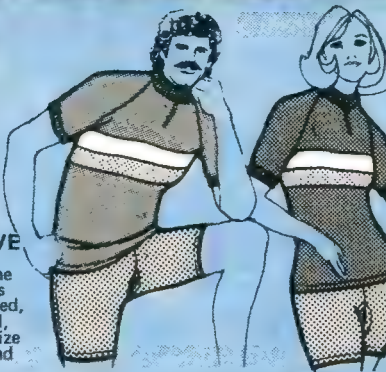


BIKE WAREHOUSE

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-K 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-K 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.



Cycling Gloves, padded leather palm, 100% cotton knit back and thumb. Soft natural tan leather. Velcro closure. Sizes: XS, S, M, L, XL **KO-CG-Z \$9.25 pair**

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

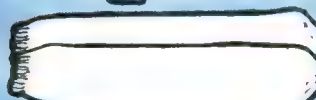
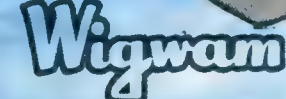


Deluxe striped headbands. Keeps your hair in place and perspiration out of your eyes. Now 5 colors: red/white/royal, red/white/red, royal/white/royal, kelly/white/kelly or brown/white/brown

FA-SB-C 75¢ each 3 for \$2.15

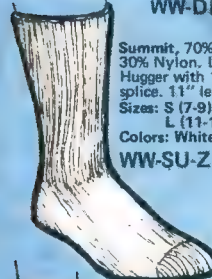


CG-AW Arm Warmer, \$10.80 pr.
CG-LW-Z Leg Warmer, \$13.80 pr.



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 pr.



Summit, 70% Worsted Wool, 30% Nylon. Lightweight Foot Hugger with 1 x 1 rib and hi-splice. 11" length. Sizes: S (7-9), M (9-11), L (11-13), XL (13-15). Colors: White

WW-SU-Z \$2.60 pr.

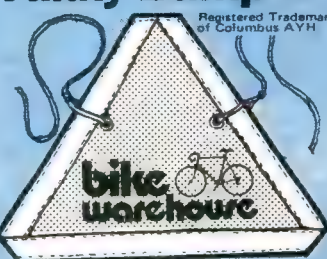


Jogger, 85% Hi-Bulk Orlon Acrylic, 15% Nylon. Heavy cushioned-sole sock with short rib cuff. Sizes: M(8-11), L(10-13). Colors: White with Assorted Color Stripes.

WW-JO-Z \$2.40 pr.

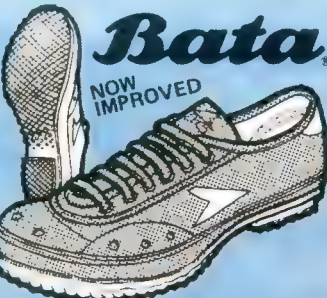
Fanny Bumper®

Registered Trademark of Columbus AYH



Fanny Bumper, lets motorists behind you know you're there. High visibility fluorescent orange nylon is perforated for ventilation. Reflective triangle border is stitched around the edges. Side stiffeners sewn in between the nylon and border keeps the fanny bumper flat. 2 metal grommets hold the tie string, which is included, and keep the nylon material from stretching or tearing. Bike Warehouse logo is printed on the front.

BW-FB \$3.95



Bata Biker, a cycling "sneaker" which doubles as a comfortable walking shoe. The rubber slip-resistant sole and universal sole pattern lets you put your foot anywhere on the pedal. The pedal-proof construction means you won't feel pedal pressure after a day of touring. Uppers are breathable canvas. Toes and sides are rubberized and reinforced to prevent discomfort and wear from toe straps. New reinforced counter for added heel support. Long padded tongue with fold-over Bata label. Reinforced stitched side panel for additional foot containment. Reinforced and bound eyestays. Abrasion-resistant cushion insole. Heel patch and Bata flash logo on the outside quarter. **BLACK w/Yellow Patch & Logo.** Sizes: Mens 3 - 13; Ladies 5 - 13 (No half sizes)

BA-BKM-Z Mens, \$14.70 pr.
BA-BKW-Z Womens, \$14.70 pr.

BIKE WARE poncho

Complete with Stuff Sack

BW-P \$17.75

LARGER One Size Fits All

Wide 1" Elastic Collar with 7 Hood Snaps

Wrap-around Front with Velcro Closure to protect neck

Open on the sides for arm use and ventilation

Double-Snap Closures for Riding

Double-stitch French Seams

Elastic Thumb Loops hold the poncho forward over handlebars keeping hands dry

Poncho comes with matching Urethane-coated Stuff Sack - Fits in any bottle cage

Bright Yellow Urethane-coated Nylon

7-Snap Detachable Hood with Drawstring

Long 9" C&C Zipper makes putting on and taking off easier and provides extra ventilation

Bikeware Label

Weight: 8 oz.

Longer Leg Loops can also be worn around the waist. These keep the poncho from flapping or riding up your back

Booties, keep your feet dry on wet days-warm on chilly days. Yellow Urethane-coated nylon. Elasticized ankle. Full-length rear C&C zipper w/rain flap. Reinforced stitching throughout. Nylon reinforced vinyl sole.

Sizes: XS,S,M,L BW-BO \$8.95

BW-CH \$6.75 CAN BE CUT

FOR CUTS

NEW

dp

Detto Pietro

"Article 74 Special"

Cycling Shoe, a high quality, comfortable leather cycling shoe ideal for racing or touring. Comes with a durable, waterproof nylon sole. Sole has ventilation holes in the heel and toe. Ventilated uppers. Pre-mounted adjustable nylon cleat is an improvement over the old aluminum cleat. Better comfort through wider American lasts. Sizes: US/5 - 11 1/2 **Detto/37 - 47**

DP-74-Z \$34.50 pr.

SHOE SIZING/CONVERSION

US Mens 5-6 6 7-7 8-8 9 9 10-10 11 12 13

Womens 7 8 9 9 10 10 11 12 13

European 38 39 40 41 42 43 44 45 46 47

Diagram shows position of Model 11's Multidensity Sole Laminae in relation to cyclist's skeletal structure.

See Page 6 for more Detailed Information

Model 11 Cycle-Touring Shoe, the culmination of features taken from the finest athletic and cycling shoe designs. Essential for comfortable and efficient pedaling whether you intend to bike to work or tour the entire continent. Ideal for pleasurable walking, also.

The greatest problem facing the cyclist who wears tennis or athletic shoes comes from a flexible sole which provides insufficient support under the ball of the foot, promoting excessive foot flex and painful twisting. The Model 11's Multidensity Sole, formed of tapered spring steel and fiber laminates, insures comfort by displacing the pressure around the ball of the foot over a greater area.

Foam Padding - Coloured Insole - Tapered Sole Stiffeners - Tapered Spring Steel Support - Contoured Sole

Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13 AV-S-Z \$32.85 pr.

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Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13 AV-S-Z \$32.85 pr.

Diagram shows position of Model 11's Multidensity Sole Laminae in relation to cyclist's skeletal structure.

See Page 6 for more Detailed Information

Model 11 Cycle-Touring Shoe, the culmination of features taken from the finest athletic and cycling shoe designs. Essential for comfortable and efficient pedaling whether you intend to bike to work or tour the entire continent. Ideal for pleasurable walking, also.

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Color: Silver Nylon Fabric with Black Suede Leather. Sizes: 4 to 13 AV-S-Z \$32.85 pr.

Diagram shows position of Model 11's Multidensity Sole Laminae in relation to cyclist's skeletal structure.

See Page 6 for more Detailed Information

Model 11

bike warehouse T-shirts

Hi-crew neck, full cut. 50/50 Polyester/Cotton. Large dark blue transfer on the back and a small Bike Warehouse transfer on the front.

*NOTE: Color Transfer

Specify Shirt Color: Powder Blue, Light Yellow or Light Beige.

Specify Transfer: Bike Warehouse, SunTour, Dura-Ace EX, Shimano 600, Reynolds 531, Sugino, Superbe, Cyclists or Bicyclists, Tall Cyclists, Pink Panther, Bicycling or Hard Saddle.

All Our Shirts are U.S.A. Made

Sizes: S (32-34)
M (36-38)
L (40-42)
XL (44-46)

SPECIAL
BW-SBW-K \$3.50

Baseball Jersey, a three-quarter sleeve white jersey with contrasting trim on neck band and sleeves. 50/50 Polyester/Cotton. Large transfer on front & small Bike Warehouse transfers on sleeve
Colors: White body with Navy sleeves.
Sizes: S,M,L,XL

BW-JDA-Z Dura-Ace, \$6.85
BW-JRE-Z Reynolds, \$6.85
BW-JSH-Z Shimano, \$6.85
BW-JST-Z SunTour, \$6.85
BW-JSU-Z Sugino, \$6.85
BW-JSP-Z Superbe, \$6.85
BW-JBI-Z Bicyclists, \$6.85
BW-JCY-Z Cyclists, \$6.85
BW-JTC-Z Tall Cyclists, \$6.85
BW-JPP-Z Pink Panther, \$6.85
BW-JBY-Z Bicycling, \$6.85
BW-JHS-Z Hard Saddle, \$6.85
BW-JBW-Z Bike Warehouse, SPECIAL \$5.50

BW-SDA-K \$4.85

BW-SRE-K \$4.85

*BW-STC-K \$4.85
Tall Cyclists

BW-SSH-K \$4.85

BW-SST-K \$4.85

*BW-SPP-K \$4.85
Pink Panther

BW-SSU-K \$4.85

BW-SSP-K \$4.85

*BW-SBY-K \$4.85
Bicycling

*BW-SCY-K \$4.85
Cyclists

*BW-SBI-K \$4.85
Bicyclists

*BW-SHS-K \$4.85
Hard Saddle

NEW



bike warehouse

We are not responsible for Improper Application

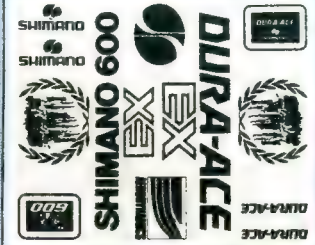
iron-on transfers

Navy blue, 11 1/2" wide, multiple designs for use on jerseys, caps and shorts (garment must contain at least 50% cotton to sustain the heat required for transfer. Easy to apply with iron.

\$1.15 Each Any 6-\$5.10, Any 3-\$3.00



BW-TST SunTour



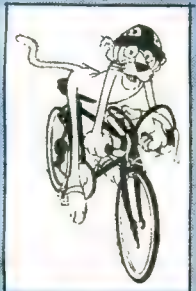
BW-TDA Dura-Ace



BW-TCY-C Cyclists Blue or Brown



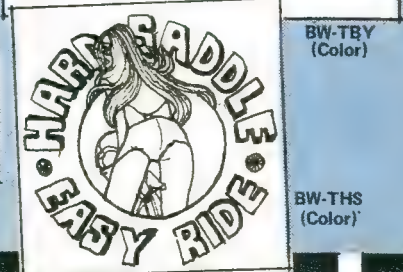
BW-TTC



BW-TPP (Color)



BW-TBY (Color)



BW-THS (Color)



BW-TRE 531



BW-TZE Zeus



BW-TBI Bicyclists (COLOR)

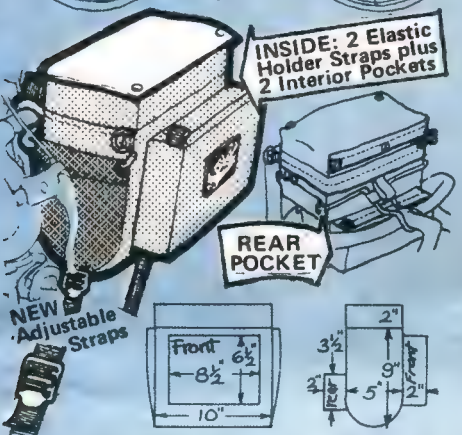
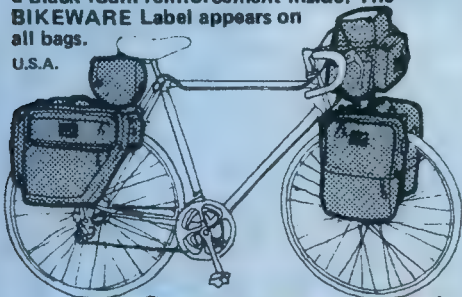
we try to ship same day Call Before 3:00pm - SPECIFY RUSH

BIKEWARE

BLUE Now Available

BIKEWARE BAGS- All bags are made of durable waterproof Oxford Pack Nylon. Colors: our exclusive Special Burnt Orange (brownier than International Orange) or Blue. 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 bags.

U.S.A.



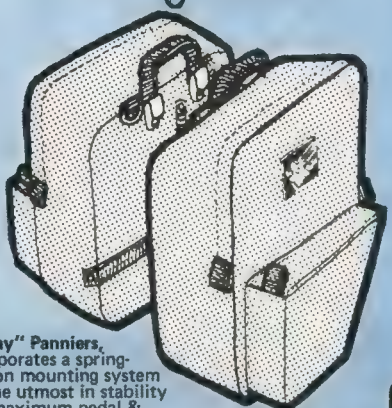
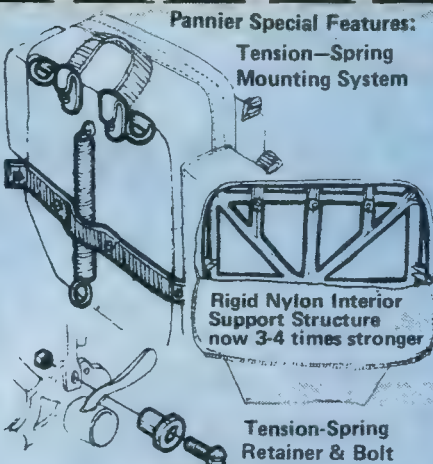
"Molly" Handlebar Bag, features a Velcro flap on the main compartment for fast on-the-road access. Snap-on zippered map case is reversible. Zippered main compartment with double pulls. Five Outside Pockets: 2 side slash pockets of heavy-duty Cordura, 1 zippered top pocket, 1 zippered rear and 1 zippered front pocket. Leather frame channels. Coated lightweight metal support frame with Velcro safety fastener. "D" rings for use with the optional shoulder strap. Polyfoam liner. This bag utilizes a special adjustable tab buckle shock cord mounting system to provide total stability. Capacity: 675 cu.in. Weight: 13 oz. Colors: Orange or Blue **BW-M-C \$36.50**

***Optional Shoulder Strap, CD-A003. \$1.85**

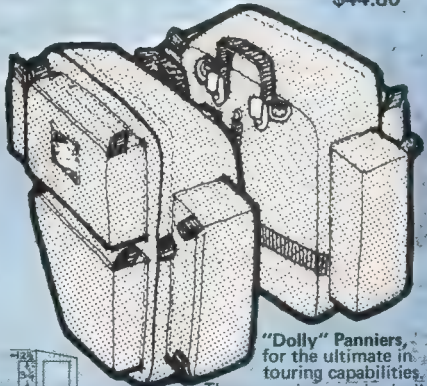


Pannier Special Features:

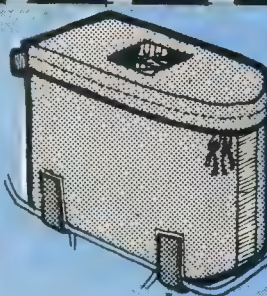
Tension-Spring Mounting System



"Jenny" Panniers, incorporates a spring-tension mounting system for the utmost in stability and maximum pedal & heel clearance. Internal molded nylon support frame consolidates the load and provides for even distribution. Stainless steel mounting hooks. Zippered main compartment with double pulls. Large external zippered pocket. "D" rings for use with optional shoulder strap. Velcro tab and metal snap locking system attach the two panniers together when off the bike and are convenient to carry with the nylon web handles. Rear safety reflector. Capacity: 2000 cu.in. Weight: 30 oz. Colors: Orange or Blue ***BW-J-C \$44.80**

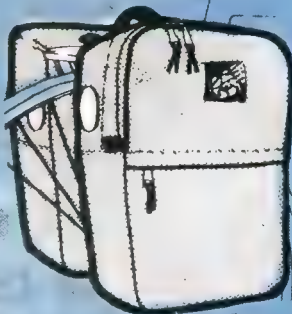
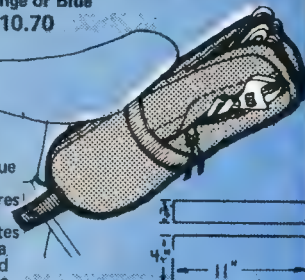


"Dolly" Panniers, for the ultimate in touring capabilities. These panniers are basically the same as the above "Jenny" but offers 10 compartments in all: 4 outside zippered pockets on each pack, plus the zippered main compartments with double pulls. Capacity: 2500 cu.in. Weight: 40 oz. Colors: Orange or Blue ***BW-D-C \$69.70**



"Katy" Carrier Pak, adjustable-length Velcro fasteners attach to any rack. Single main compartment with double-pull wrap-around zipper. Polyfoam liner. Nylon web handle for easy away from the bike carrying. Perfect for those quick trips to the store— Easily holds a half-gallon of milk & carton of eggs or a six-pack. Capacity: 400 cu.in. Weight: 6 oz. Colors: Orange or Blue **BW-K-C \$10.70**

"Holly" Tire Sock and Utility Bag, superb stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction of the top tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't hit the bag even on narrow racing saddles. Holds two tires, tools or other gear. Weight: 3 oz. Colors: Orange or Blue **BW-H-C \$8.80**



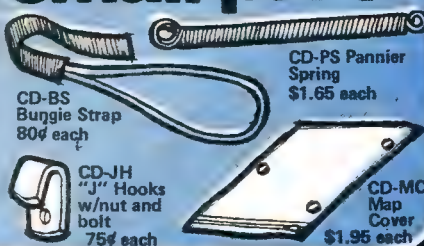
"Frannie" Front Panniers, incorporates the same nylon internal support frame and tension-spring mounting system as the rear panniers. Large zippered main compartment with double pulls. External zippered

flat slash pocket. "D" rings for use with shoulder strap. Velcro snap locking system and nylon web handles provide for easy off-the-bike carrying. Safety reflectors. Capacity: 1420 cu.in. Weight: 2lb., 9oz. Colors: Orange or Blue ***BW-F-C \$36.80**

***BW-F-C \$36.80**



BIKEWARE small parts



NOW LOWER PRICES!
cannondale
Our big volume buying allows them for prices
Made in U.S.A.

CD-A003 Optional Shoulder Strap, \$1.85

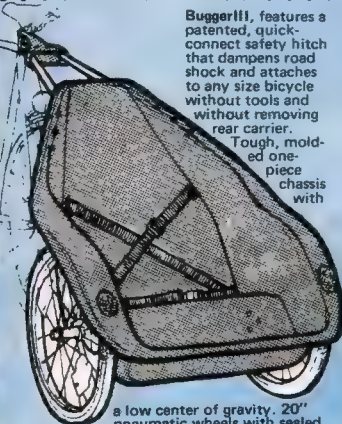
INEXPENSIVE
CD-B020-C
Handlebar Bag, coated exterior support frame. Inside Polyfoam stiffener. Amber reflector.
Red or Blue
\$11.70

CD-B021-C
lightweight materials, quick-release latches, Poly-lined interior and convenient carry handle. 3lb. limit.
Capacity: 232 cu. in., Weight: 5 oz.
Red or Blue.
\$7.90

Now with 2 Side Pockets
NEW Adjustable Straps

CD-B027-C nylon touring bag. A 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 \$26.40

CD-A003 Optional Shoulder Strap, \$1.85



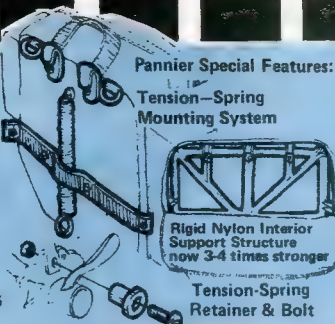
Bugger11, features a patented, quick-connect safety hitch that dampens road shock and attaches to any size bicycle without tools and without removing rear carrier. Tough, molded one-piece chassis with

a low center of gravity. 20" pneumatic wheels with sealed ball bearings. A harness system with quick-release buckles for 1 or 2 children. The straps can also be used as tie-downs for securing loads.

CD-BUG \$187.40

Tonneau Cover, made of waterproof pack cloth to keep load dry and clean. Specify: Blue, Red or Yellow

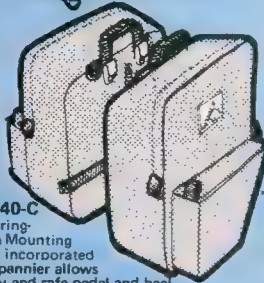
CD-A018-C
\$19.80



Pannier Special Features:
Tension-Spring Mounting System

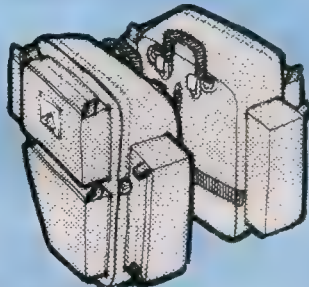
Rigid Nylon Interior Support Structure now 3-4 times stronger

Tension-Spring Retainer & Bolt



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 interior, stainless steel mounting hooks, YKK nylon zippers and full rain flaps, 3-dimensional fully zippered opening for ease of access, internal molded 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., weighs: 30 oz.
Red or Blue. \$59.80

Includes Shoulder Strap



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 molded 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., weighs: 40 oz limit 35 lbs.
Blue, Red, Silver or Black \$74.50

Includes Shoulder Strap



Front Panniers, large zippered interior compartment, 1 zippered outside pocket. Rigid nylon interior frame. 1100 cu.in.

CD-B042-C
oxford pack cloth, Blue, Red \$44.80

CD-B043-C *
cordura, Blue, Red, Silver or Black. \$54.80

***CANNONDALE'S LONG TOUR LINE**
Manufactured with a heavier 8oz. waterproof nylon Cordura cloth with a double urethane coating for maximum weather resistance and durability.



CD-B031-C *
This larger capacity seat pack has swivel straps to mount on seats with or without eyelets. Double zipper opens across top and down sides. 8oz. Cordura. 6lb. limit. Capacity: 358 cu.in. Weight: 7 oz.
Blue, Red, Silver or Black.
\$12.50



NEW Velcro or Zipper Closures

NEW Rear Pocket
2 "D" rings outside

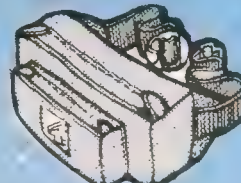
INSIDE: 2 elastic holder straps plus 2 interior pockets

CD-B037-C *
An all-new touring pack that offers welcome features. A 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 zippered 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, Silver or Black \$39.20

Includes Shoulder Strap



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.) 16 oz. waterproof nylon oxford cloth w/polyfoam liner, wide polypropylene breathable web straps, wrap-around nylon zipper, teardrop design allows natural and uninterrupted arm movement.
Capacity: 780 cu in., weight: 12 oz. \$19.50
Red, Blue, Green



CD-B0848-C Belt Pack, just the thing 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.
Red, Blue, Green \$14.75

NEW
LARGE MOUTH IS GREAT FOR ICE CUBES
cannondale
Cannondale Waterbottle, you don't have to struggle to get the bottle in or out of the cage. Simply place the Velcro loop covered bottle against the Velcro hook covered base. Vibration improves the grip. So easy to use, just pick it up, you can concentrate on your riding. Large capacity bottle, 24 oz., with a large mouth. Cap has a drinking spout designed to open or close with your teeth. The base is tough, waterproof injection-molded Dupont Zytel 105. Single screw installation. Wrench included. Weight: 3 oz.
U.S.A.
CD-WB \$8.95

REG Italy

REG Waterbottle, a top quality bottle of lightweight plastic. Bike Warehouse logo on the sides. The spout cap is stationary, so it can be pulled open or pushed closed with the teeth. The leak-proof design is built into the removable top. Specify: Red, Blue or White.
RG-WB-C \$1.40 ea. 3/\$3.60

REG Steel Waterbottle Cage, with plastic retainer & bottle protector.
RG-SC \$3.25

REG Alloy Waterbottle Cage, made of "Dural" (a light aluminum alloy), plastic retainer. Includes allen bolts for braze-on use or with the alloy clips (also included). Silver or Black Anodized.
RG-AC-S, Silver \$5.80
RG-AC-K, Black \$6.25

NEW NO-LEAK TOP **RHODE GEAR**

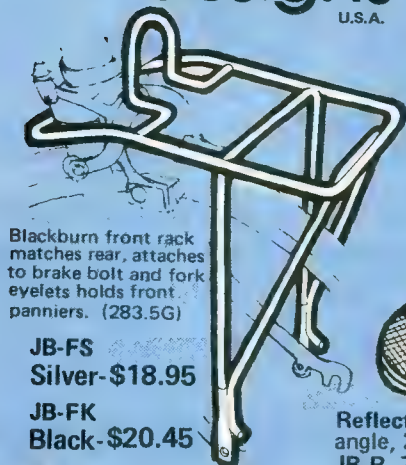
The NO-CAGE WATERBOTTLE
Rhode Bottle, slips into a non-marring nylon mount which protects the bike's finish. Bottle features molded-in finger indentations for a positive grip. Total weight: 100G. 1 minute screwdriver installation. Fits all bikes.
U.S.A. **RH-NCB \$5.70**
Bottle and Mount

MINOURA
Waterbottle Cage, light aluminum alloy frame cage with strong black nylon base and bottle stopper. 70G. Silver.
MN-WBC \$4.75
INCLUDES CLIPS & BOLTS OR CAN BE BRAZED-ON
Japan



jim blackburn designs

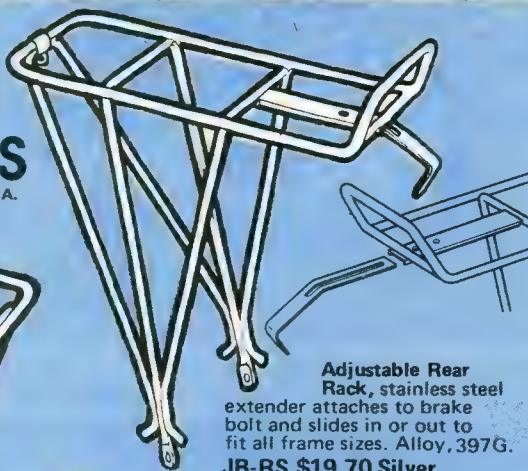
U.S.A.



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

JB-FS
Silver-\$18.95

JB-FK
Black-\$20.45



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

JB-RS \$19.70 Silver
JB-RK \$21.75 Black

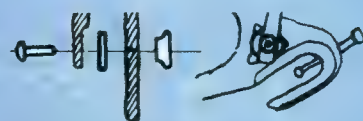
Both front and rear
JB-FRS \$34.40 Silver
JB-FRK \$37.40 Black



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



Seat Stay Rear Rack
JB-SSS \$19.70 Silver
JB-SSK \$21.75 Black



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 \$1.20 pr.

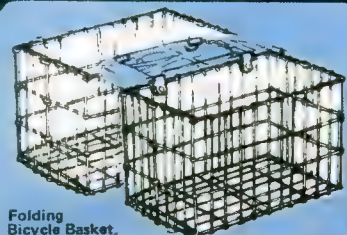


blackburn BLACKBURN WELDED WATERBOTTLE CAGE

Strong, lightweight heliarc welded aluminum alloy. Welded construction results in a wider stance, straight back. Holds bottle more securely yet is easier to use. 45G. Braze-on

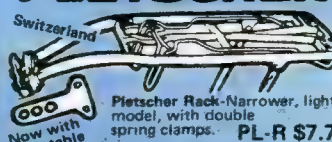
JB-WC-S (Silver) \$7.25
JB-WC-K (Black) \$7.25

JB-WCC Clamps for use w/out Braze-ons \$1.75



Folding Bicycle Basket. Carbon steel. Attaches to carrier sides and legs. When not in use it folds flat & a latch locks it closed. Size: 14" L x 8 1/2" W x 9 1/2" H Japan
CP-FB \$14.50 pr.

PLETSCHER



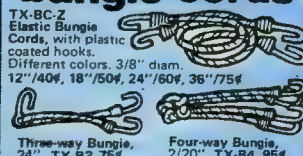
Pletscher Rack-Narrower, lighter model, with double spring clamps. PL-R \$7.75



NEW
MORE ON PAGE 39

BOTTLE	WEIGHT (GRAMS)	W/MATCHING CAGE	CAPACITY (FL. OZ.)	CAGE	WEIGHT (GRAMS)
REG Standard	64.2	123.7	18	Blackburn	45.0
Maripast	64.7	124.2	18 1/2	REG Dural Braze-on	45.7
Avoset	67.6	127.1	18 1/2	REG Steel w/clips	94.2
Rhode Gear	100	100		REG Braze-on	123.2
REG Thermic	148.4	207.9	9	Minoura	70.0
Cannondale	85.0				

bungie cords



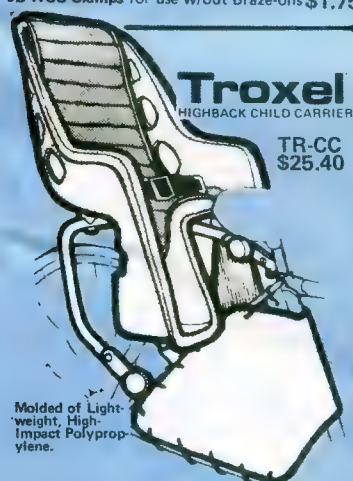
TX-BC-Z Elastic Bungie Cords, with plastic coated hooks. Different colors. 3/8" diam. 12"/40¢, 18"/50¢, 24"/60¢, 36"/75¢

Three-way Bungie, 24", TX-B3 75¢ Four-way Bungie, 2/20" TX-B4 95¢

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
□□-□□□□□□
When Ordering, you must provide all the information indicated by the last letter in the Stock Number. Explanations of the Info Code Letters are shown here.

C Color
E Extension & Diameter (straps)
F Feet & Color (housing)
H Holes (hooks and holes)
J Threads, Teeth, B.B. Width, Arm Length (cranks)
K Size & Color (clothes, frames)
L Length (spokes)
M Model
Y Threads (headset, B.B.) or Teeth (chainrings, sprockets)
V Threads & Teeth (frame/hub)
Z Size (saddlepost, clothes, rims, tires, toe clips, bearings and width of handlebars)

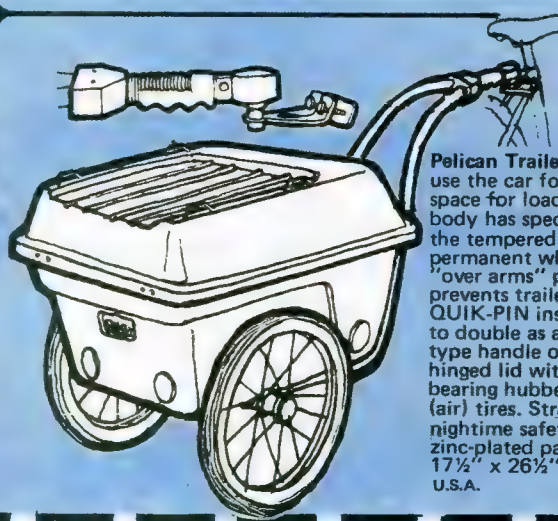


Troxel HIGHBACK CHILD CARRIER

TR-CC
\$25.40

Molded of Light-weight, High-Impact Polypropylene.

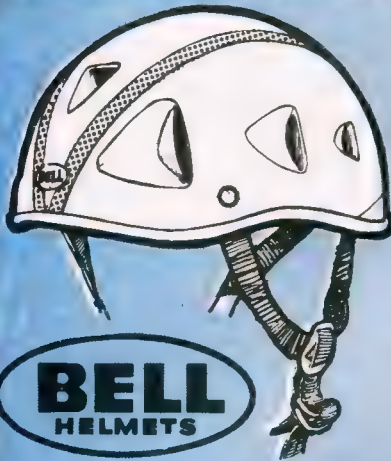
More protection. The child sits in-not on the contoured bucket seat, with a high back and conformed foot and leg area. A large spoke guard, extra strong seat belt & rear reflector are added safeguards. The plated tubular steel frame centers the weight over the rear axle for better balance. Attaches easily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



PELICAN

Pelican Trailer, new bicycle versatility-no longer a need to use the car for those daily hauling chores. Almost 4cu.ft. of space for loads up to 75 lbs. High impact, Polyethylene body has special built-in contours for added strength, while the tempered steel axle adds floor board strength & assures permanent wheel alignment. Low center of gravity and long "over arms" provide greater stability. Patented QUIK-HITCH prevents trailer from upsetting if bike should fall. The QUIK-PIN instantly releases the hitch enabling the trailer to double as a haulcart or wheelbarrow. A "pistol-grip" type handle on the hitch aids in this use. Removable hinged lid with snap fastener and security strap. 16" ball bearing hubbed wheels, heavy duty spokes and pneumatic (air) tires. Strategically placed red and amber reflectors for nighttime safety. High-lustre, electrostatic paint finish and zinc-plated parts. Weight: 19 lbs. Inside Dimensions: 17 1/2" x 26 1/2" x 12"D.

U.S.A. With Top, PE-TWT \$174.75 Without Top, PE-T \$134.75



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 "V" configuration at the front. Developed in cooperation with 3M, the stripes complement the white color of The Bicycle Helmet.

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.

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 owners' protection.

SIZING CHART			
Measure as shown			
Inches	Helmet Size	Pad Size	5/8"
21 5/8	6 7/8	1 1/2	
22	7	1 1/2	
22 3/8	7 1/8	3/8	
22 3/4	7 1/4	1/4	
23 1/8	7 3/8	5/8	
23 1/2	7 1/2	1/2	
23 7/8	7 5/8	3/8	
24 1/4	7 3/4	1/4	

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, thru 3/4 in. (by 1/8's) thicknesses.

BH-P-Z \$2.00

Order in 1/8" Increments



Prime (preem) Bicycle Helmet, the first hard-shell bicycle helmet to adopt the classic look and style of the outdated leather hairnet. The Prime is designed around the combination of a tough, lightweight Lexan shell and a Polystyrene liner. This combination acts as a shock absorber on impact and gives an added layer of protection.

Cross-section shows Lexan shell, polystyrene liner & channeled air flow thru the helmet.



Aerodynamically designed, the shape reduces wind resistance. The Prime's shape also has an evaporative cooling system that forces cool, fresh air in the front, pushing the warm air out the back, channeled by the liner.

In addition, the Prime has 30 sq. in. of high reflective racing stripes for visibility in traffic plus a fully adjustable mounting harness and chinstrap. Interior sizing/comfort pads.

Hat Sizes: 6 1/4 - 6 7/8

NOT ADJUSTABLE

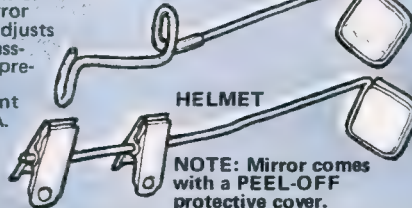
BH-PH-Z \$30.20

bike warehouse

REAR VIEW MIRROR, for helmets or eyeglasses. Large, good quality mirror offers a wide viewing area. Easily adjusts to individual viewing needs. Eyeglass-mounted mirror is vinyl-coated to prevent damage to frames. NEW wide Badge Clips on helmet mirror mount easily and hold more securely. U.S.A. Specify: Helmet or Eyeglasses.

BW-HM, for Helmets, \$3.75
BW-EM, for Eyeglasses, \$3.75

EYEGLASSES



HELMET

NOTE: Mirror comes with a PEEL-OFF protective cover.

Ray-Ban

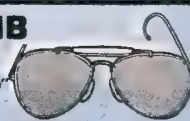
BAUSCH & LOMB



"Outdoorsman" BLACK CHROME Sunglasses

Black chrome alloy frames. Lenses are reinforced by a Double Gradient Density Coating. A nickel-chrome alloy is deposited to the top & bottom of the lens, gradually becoming thinner & less dense from edge to center. This completely checks direct, overhead & reflected glare. Lenses have a black-to-silver mirror look. Wrap-around ear rests hold firm-great for cycling, etc.

RB-BC \$33.00



"Outdoorsman" ARISTA Sunglasses

Gold frames with Amberglass lenses which change color and density in response to light & weather conditions. In overcast, they're amber to cut through haze; in warm sunlight they turn dark brown to block glare; & in cold sunlight they turn dark grey for superior protection. Wrap-around ear rests hold firm-perfect for active people.

RB-A \$43.00

BIKE WARE



U.S.A.



Helmet Cover, keeps rain and cold out of the helmet air vents. Fluorescent orange, breathable, water repellent nylon. Elasticized stretch opening. Fits: Bell, MSR and Kunoh.

BW-HC \$2.35

Deluxe Helmet Cover, Urethane-coated nylon. Totally waterproof. Elastic stretch opening. Has the Bikeware label on the front. Bright Yellow. Matches the Bikeware Poncho and chaps.

BW-DHC \$3.95



Looks great on a bicycle

Vinyl Letters & Numbers, pressure-sensitive, super-stick letters & numbers. Personalize your helmet or practically anything else. 1/2" high. Colors: Black, White, Gold

Available in 2 Styles: Gothic or Helvetica (Use Helvetica if space is a problem & a narrower letter is necessary)

Gothic-540 Caps & nos., 48 misc. signs

Helvetica-588 Caps & nos., 52 misc. signs

U.S.A.

Gothic EZ-G-C

ABCD1234

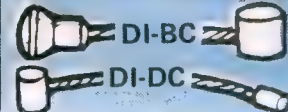
Helvetica EZ-H-C

ABCD1234

EZ-G-C Gothic, \$1.49 set

EZ-H-C Helvetica, \$1.49 set

Derailleur & Brake CABLES



DI-BC BRAKE: Fits all front or rear

DI-DC DERAILLEUR: Fits all stem and down tube.

Universal Cables, both have 2 different type ends - cut off end not needed.

DI-BC(Brake) or DI-DC(Derailleur), 60¢ ea.

Tandem Cables, 110", **SB-TC-B(Brake) or SB-TC-D(Derailleur), \$2.50 each**

WESCON U.S.A. **ULTRA-GLIDE HOUSING**



Colors: Black, Brown, Blue, White, Red, Yellow, Grey

WS-H-C \$6.95

*Standard diameter for universal fit.
*Attractive color vinyl cover.
*Smooth, efficient Polyethylene Liner
*Flexible for easy routing. 25' lengths.



REG Italy **Brake Cable Clamp**, clear, pressure-fit. Holds 2 cables steady. **RG-CC \$1.15**



Cable Ends, clear plastic. **RG-CE 4/60¢**



SPECIALIZED Top Tube Brake Cable Clamp, polished stainless steel, extra-light. **SB-BCC Set of 3/\$2.25**

Cycle pro



Aluminum Cable Ends, 50 per bag **DI-CE \$2.50 bag**

HANDLEBAR PADDING

U.S.A.
NOW IN
COLORS



COMES IN 2
THICKNESSES

MAXY SET Handlebar Padding, extremely comfortable, reduces road vibration. Non-slip grip, absorbs sweat, insulates against cold. Washable. Specify Color: Black, Red, Navy, Brown, Yellow

GO-M-C Maxy Set, \$7.25

RACING SET Handlebar Padding, same as above but only half the thickness. **BLACK.**

GO-R Racing Set, \$7.30

NOTE: Use P-51 to install (removes old adhesive, then slides and sticks to padding). PA-P51 85¢

BENOTTO

PROFESSIONAL CELLOTAPE

Handlebar Tape, used by the best pro and amateur cyclists. Unique for its high-quality, appearance & color, non-slip texture, toughness & safety. Comes with pair of matching color handlebar plugs.

Colors: Blue, Red, Yellow, Pink, Green, White, Black, Orange

Italy **BE-HT-C** \$2.65 set



RHODE GEAR

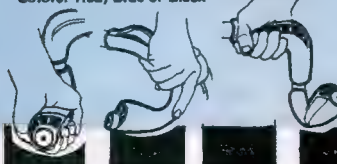
"HANDLEBAR HIDE"
Good-looking and a functional grip. Made of genuine leather. It comes in two, one-piece sections, both of which wet wrap around the handlebar with a tough nylon stitching. The result is a warm, comfortable grip that ages to a beautiful patina. **U.S.A.**
RH-HBH \$11.80

MORGAN GRIPS

NEW

MO-G-C
\$13.50

Handlebar Grips, aerodynamically-designed for the hands, not the handlebars. Contoured to fit the hand and comply with the hands in all standard riding positions. A hand-fitting grip increases the rider's control over his bike. A unique internal ribbed shock absorption system eases the nerve numbing pressure on the palms, as well as absorbing road shock & vibrations. Installation is simple-no need to remove hand brakes-no sewing or special tools. Fits all conventional drop handlebars. Colors: Red, Blue or Black



Cyclegrip Top Grain Leather Tape, now the luxury of genuine leather for soft comfort and rich appearance. Tapered edges for smooth installation. **U.S.A.**



Specify: Black or Natural Tan
CG-P-C Perforated \$7.40
CG-S-C Sewn \$7.40

TRESSORAR cloth

Cloth Tape, woven edges do not unravel. Extra strong adhesive backing. Enough to do complete bar. France

Specify: Black, Red, Blue, Yellow, White

VE-T-C \$1.85 set



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

Color: Black **BY-C** \$2.85 set



VELOX
Velox rubber plugs with screw type expander. Black pr. **VE-PP** 88¢

plugs

Expander type

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

VE-PP 50¢



MIRRYCLE NEW

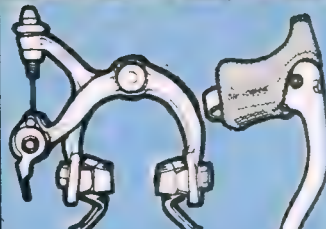
BIKE MIRROR,

3" diameter convex mirror. Rugged lexan construction. Mounts on the brake lever conveniently out of the way. Adjusts to any position. Vibration is at a minimum. Quick and easy installation. 50G. Fits all Weinmann, Dia-Compe, Shimano types, but not Campy. **U.S.A.**

MC-BM \$6.60

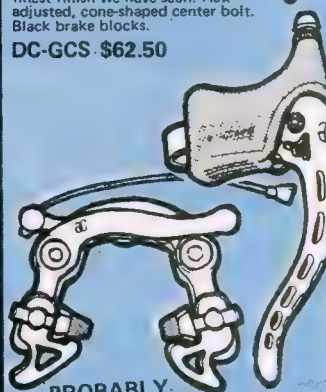


**SAVE YOUR
GAS... let your
mail do
the shopping**



Gran Compe Pro-Superbe Sidepulls, finest finish we have seen. Hex adjusted, cone-shaped center bolt. Black brake blocks.

DC-GCS \$62.50



**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-crafted drilled levers with hoods.

DC-GC450 \$64.80

DC-GH Gran Compe Hoods, gum rubber, with adj. covers, \$5.70 pair

DC-DL Gran Compe Levers, New Style, slotted \$10.60 each

DC-TG Gran Compe Tire Guides, vinyl-coated aluminum, fits most brakes, 4/\$2.90

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

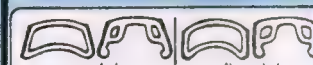
DC-AB Adjustor Bolts, rubber covered, \$3.20

MATHAUSER brake shoes

Revolutionary, lightweight 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 clean appearance. Specify: Flat or Angled Rims, or for Mafac Brakes.

MA-BS-M \$12.75 set of 4

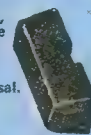
DC-TG Tire Guides, \$2.50 set of 4



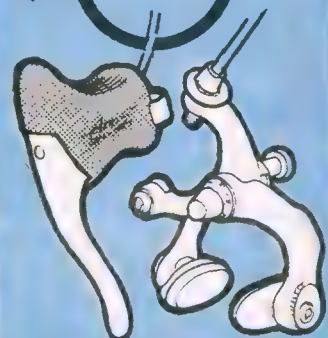
All rims we sell take Flat except Fiamme

Mathauser Replacement Pads, for stock shoes, made of same material as above. Specify: Campy, Zeus, CLB, Mafac, Dura-Ace, Dia-Compe, Gran Compe, Weinmann or Universal.

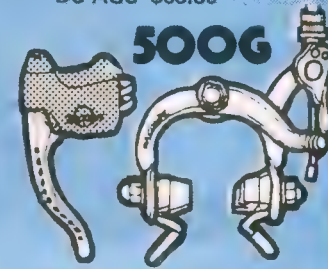
MA-RP-Z \$7.75 set of 4



DIA-COMPE Japan



Aero-Gran-Compe Brakes, the first aerodynamic brakes to reach the market place and possibly the finest looking. Short reach (40mm reach with ± 3 mm tolerance/rim width 18mm-21mm). Uses eccentric type brake shoe mechanism to allow adjustment for angled or flat rims and to further reduce wind resistance. Brake lever grip dimension is smaller than any lever we sell—resulting in more comfort and easier operation. It is a basic straight cable pull-up system for smooth brake movement. The cable and housing can be concealed in the handlebar for a cleaner, more aerodynamic look. Any handlebar we sell will work with these levers. It is necessary to drill 2 holes the diameter of the cable in the bars to route the cable. **DC-AGC** \$68.80

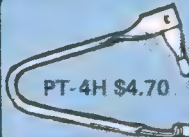


500G Sidepulls, silver anodized, drilled levers, hoods included. **DC-500G** \$29.60
730 x 730 - **DC-730G** \$30.50

DC-DPS Dia-Compe Pad and Shoe Assembly, Black, Set of 4/\$3.70

3rd hand brake tool

3rd Hand Brake Adjusting Tool, places tension on brake arms, holding pads to rims while you adjust cable slack. Essential for proper brake work. **DC-3H** \$1.10



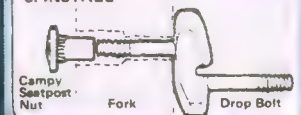
Fourth Hand Brake Tool, for centerpull brakes.

To make a FRONT DROP BOLT

YOU NEED: Campy 8mm Seatpost Bolt & REAR Drop Bolt to fit your brakes.

2. Drill Rear of Fork to Fit

3. INSTALL



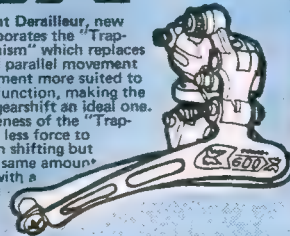
Campy Seatpost Nut Fork Drop Bolt



SHIMANO 600 EX

600 EX Front Derailleur, new design incorporating 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" allows less force to be used when shifting but provides the same amount of travel as with a conventional derailleur. 107G.

SH-FD \$10.90

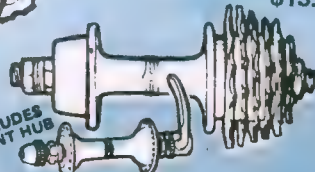


600 EX Rear Derailleur, Equipped with the unique "Hatch-Plate Mechanism" making dismantling the derailleur much easier. The derailleur can be removed in one smooth operation without touching the chain. The "Hatch-Plate Mechanism" rear derailleur is suited for any multi-speed bicycle, especially one equipped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

SH-RD \$16.50



600 EX GS Rear Derailleur, SH-GS \$13.80



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. 68mm crank arm. 937G. 39 x 52T. Specify: Eng., Fr., Italian

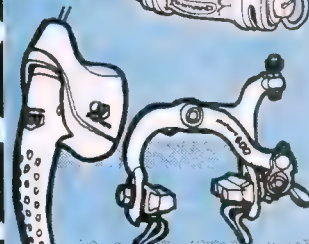
SH-C-T \$64.50

CHAINRINGS-

39,40,42,44T \$11.70ea.
46,48,49,50,52,54T \$14.50 ea.

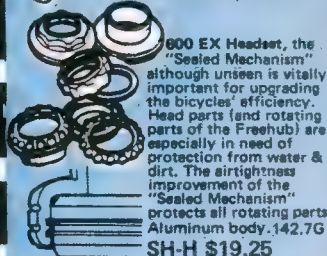
600 EX Down-tube Levers, light alloy, 136G.

SH-L \$10.50



600 EX Sidepull Brakes, Quick-release with tire guides, light alloy. Anodized finish. 676G, front & rear.

SH-SPB \$44.50



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-H \$19.25

600 Small Flange Hubs, quick-release, alloy, 36H. 587G.

SH-SH \$33.80



600 Large Flange Hubs, 631G.

SH-LH \$35.80

Freehub Set, Combining the freewheel and hub into one unit, results in a stiffer, 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 dished 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 freewheel. 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.

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

Standard 6spd.- 13,15,17,20,24,28T
SH-FH \$48.80

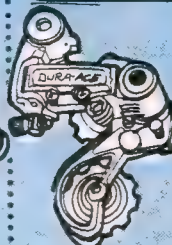
SINGLE SPROCKETS

SH-FHT-T Thread-on 13,14,15,17,18,19,20,21,22,23,24,26,28,30,32,34T \$4.20 each

SH-1200906 600 Freehub Removal Tool, \$5.26



DURA-ACE EX

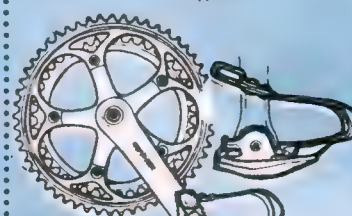


Dura-Ace EX Rear Derailleur, Redesigned into a smaller size, all alloy, 174G, precision mechanism, 24T Capacity. Uses special "Synchro-Line Mechanism" for cable control. Keeps the adjusting barrel and cable fixing pin aligned & the inner cable straight while shifting. Adjusts with 6mm Allen key. 175G

SH-DRD \$40.50

Rear Derailleur Small Parts:

SH-5281100 Tension Spring, 55¢
SH-5451760 Adjusting Screw, \$1.20
SH-5452000 Cable Fixing Bolt, 65¢
SH-5452100 Cable Fixing Nut, \$1.60
SH-5459003-1 Tension Pulley, 99¢
SH-5459013 Guide Pulley, \$2.50



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" Dyna-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).

SH-DDC \$199.50 Crank/Pedals Complete

CHAINRINGS-39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55T SH-DCR-T \$27.90

Crankset Small Parts:

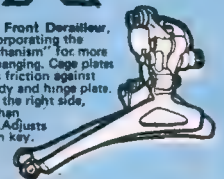
SH-1320500 Fixing Bolt, 90¢
SH-1320600 Fixing Nut, 95¢
SH-1489002 One-Key Release Parts, \$7.95
SH-1370110 BB Spindle 68/107, \$19.95
SH-1370111 BB Spindle 70/109, \$19.95
SH-1370200 RH Fixed Cup English, \$7.80
SH-1370210 RH Fixed Cup French, \$7.80
SH-1370220 RH Fixed Cup Italian, \$7.80
SH-1370400 LH Adj. Cup English, \$6.50
SH-1370410 LH Adj. Cup French, \$6.50
SH-1370420 LH Adj. Cup Italian, \$6.50
SH-1370500 Lock Ring English, \$2.85
SH-1370510 Lock Ring French, \$2.85
SH-1370520 Lock Ring Italian, \$2.85
SH-1379001 BB Bearings w/Retainer, \$2.20
SH-1370600 BB Dust Seal, \$1.50

Pedal Small Parts:

SH-0001900 Toe Clip Screw, 90¢
SH-4610300 Right Side Housing, \$10.50
SH-4610400 Left Side Housing, \$10.50
SH-4610500 Cone, \$5.40
SH-4610800 Washer, \$1.70
SH-4610900 Locknut, \$1.88
SH-4611100 Dust Cap, 31¢
SH-4611200 Right Side Plate, \$3.95
SH-4611300 Left Side Plate, \$3.95
SH-4611400 Front Plate, \$1.68
SH-0001400 Toe Strap Band, \$6.80 pr.
SH-4612300 Toe Strap Guide, 77¢
SH-4619001 Right Side Body, \$25.00
SH-4619002 Left Side Body, \$25.00
SH-4619003 Alloy Toe Clip, Med., \$6.90 pr.
SH-4619004 Alloy Toe Clip, Lg., \$6.90 pr.

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 the chain. Alloy body and hinge plate. All bolts are on the right side, lighter weight than previous model. Adjusts with 6mm Allen key.

SH-DFD \$23.20



Front Derailleur Small Parts:

SH-5853300 Clamp Bolt, 90¢
SH-5859101 Stroke Adj. Bolt, 80¢
SH-5855000 Return Spring, 94¢
SH-5856000 Braze-on Bracket, \$3.40
SH-5859102 Cable Fixing Assembly, \$1.60
SH-5859104 Roller Fixing Assembly, \$1.65
SH-5859105 Braze-on Assembly, \$16.90

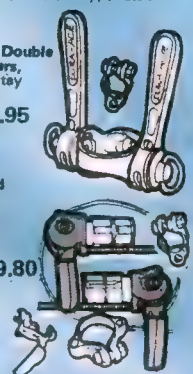
Dura-Ace EX Double Downtube Levers, (75G) w/cables stay clip housing.

SH-DL \$18.95

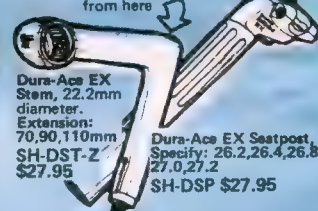
Dura-Ace Bar-end controls w/cables, 343G S.S. Housing, fulcrum stay clips.

SH-DBC \$19.80

6mm allen key for bar-end FE-6 50¢



Binds Handlebar from here



Dura-Ace EX Stem, 22.2mm diameter. Extension: 70.90, 110mm

SH-DST-Z \$27.95

Dura-Ace EX Seatpost, Specify: 26.2,26.4,26.6,27.0,27.2

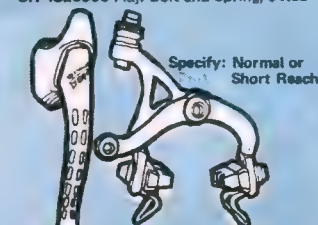
SH-DSP \$27.95

Stem Small Parts:

SH-4510100 Cap, \$1.25
SH-4510200 Push Plate Stop Bolt, \$1.40
SH-4510300 Push Plate, \$3.85
SH-4510400 HB Fixing Bolt, \$2.85
SH-4510500 HB Tightening Bolt, \$3.10
SH-4510700 Expander Bolt, \$3.60
SH-4510800 Expander Cone, \$2.70
SH-4510900 Stopper Screw, 40¢

Seatpost Small Parts:

SH-4820100 Lower Plate, \$6.60
SH-4820200 Upper Plate, \$3.25
SH-4820300 Fixing Washer, \$1.85
SH-4820400 Bolt, \$1.85
SH-4820500 Adj. Bolt and Spring, \$1.35



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

SH-DSB-Z \$104.80

Brake Set Small Parts:

SH-8559103 Brake Shoe Assembly, \$3.10 ea.



INCLUDES FRONT HUB

Dura-Ace Freehub, incorporates a cassette sprocket assembly. In conventional freehubs 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.



The axle bearings are located at the end of the freehub where it is supported by the dropout. This eliminates the torque characteristic which has a tendency to result in bent axles on other hubs. **INCLUDES FRONT HUB.**

3 Standard Bsp. Combinations (Specify)

12,13,14,15,16,17T
11,13,15,17,19,21T SH-DFH-T \$89.00
13,14,15,17,19,21T

SINGLE SPROCKETS

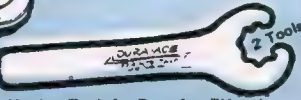
SH-DFHT-T Thread-on 11,12,13,14,15,16T
SH-DFHS Slide-on 12,13,14,15,16,17,18,19,20,21,22,23,
\$4.20 each 24,25,26,28T

Hubset Small Parts:

SH-2331500 Oil Cap, \$1.30
SH-2339003 Front Hub Cone, \$3.20
SH-2339006 Front Axle Set, \$10.90
SH-2370801 Front Hub QR Assembly, \$14.50
SH-2370802 Front Hub Dust Cap RH, 99¢
SH-2431401 Front Hub Dust Cap LH, 99¢
SH-2431402 Rear Hub Dust Cap RH, 85¢
SH-2431500 Rear Hub Dust Cap LH, 85¢
SH-2470400 Rear Hub LH Cone 15mm, \$3.40
SH-2470402 Rear Hub RH Cone 10mm, \$3.40
SH-3566300 Rear Hub RH Cone 13.5mm, \$3.40
SH-3569003 Sprocket Spacer, 99¢
SH-3569000 Body Assembly 6spd., \$29.50
SH-3569004 QR Assembly 153mm, \$14.50
SH-3569005 QR Assembly 159mm, \$14.50
SH-1200906 Freehub Removal Tool, \$5.26



Dura-Ace EX Headset, incorporates the "Sealed Mechanism" innovation to protect its rotating parts from water and dirt particles. Aluminum body. 114G. Specify: English, Italian or French.
SH-DH-T \$45.90



Headset Tool, for Dura-Ace EX and Shimano 600 EX Series Headset parts
SH-DHT \$18.00 Set

DURA-ACE 10 TRACK GROUP

Includes: Dura-Ace 10 Front Chainwheel, light alloy, cotterless. Crank Arm: 165mm, Specify: 46 to 53T.; Eng. Dura-Ace 10 Front & Rear Hubs, light alloy, anodized finish, includes Lock Ring, Specify: 32 or 36H.; Dura-Ace 10 Sprocket for Track 10 Hub, Nickel Chromium Molybdenum Steel, Specify: 14, 15, 16T; Dura-Ace 10 Chain, Chromium Molybdenum Steel, special surface treatment, bushed chain.

SH-T10-T \$265.00 Special Order Only

DURA-ACE 10—DURA-ACE Comparison Chart

* Weight Comparison (Track Models)

	Dura-Ace 10	Dura-Ace	Saving
Right Hand Crank	8.5 oz. (239 g.)	9.8 oz. (277 g.)	1.3 oz. (38 g.)
Chainwheel (49T)	2.2 oz. (63 g.)	4.1 oz. (116 g.)	1.9 oz. (53 g.)
Chain	11.6 oz. (330 g.)	11.8 oz. (335 g.)	0.2 oz. (5 g.)
Rear Hub W/Lock Ring	10.4 oz. (295 g.)	11.0 oz. (313 g.)	0.6 oz. (18 g.)
Rear Sprocket (14T)	0.8 oz. (22 g.)	1.4 oz. (38 g.)	0.6 oz. (16 g.)
TOTAL	33.5 oz. (949 g.)	38.1 oz. (1079 g.)	4.6 oz. (130g.)

UNIGLIDE FREEWHEEL, silver, with staggered teeth for use with the Uniglide Chain.

13-1/13-21,13-24,13-28
SH-FW-Z \$9.95



SH-1200903 Removing Tool, \$5.26

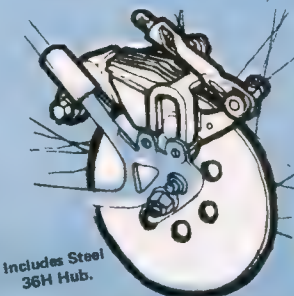


Shimano Uniglide Chain, specially-formed gold side plates for improved shifting. 370G. 1/2 x 3/32 x 116L. **SH-UC \$8.75**

DA EX Pro Uniglide Chain, widened nickel side plates for improved shifting. Roller pins of bearing steel & an ultra-hard surface treatment assures outstanding strength. Will outlast any other chain. 1/2 x 3/32. **SH-DUC \$33.90**



Not for use With Ultra Freewheels
Link Lock, quick, easy assembly or disassembly of chain without the need of tools.
SH-LL \$3.50



Includes Steel 36H Hub.

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. **SH-DB \$39.95**

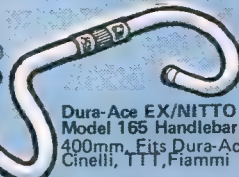
600 Cantilever Brakes, 338G., light alloy brake with steel braze-on mounting shaft. All Allen bolts.
SH-CB \$14.50



DC-DL Gran Compe Levers, \$10.60 ea.



Freehub Removal Tool, for DURA-ACE EX only
SH-1200906 \$5.26



Dura-Ace EX/NITTO Model 165 Handlebar, 400mm, Fits Dura-Ace, Cinelli, TTT, Fiammi
DA-EN \$10.95

Citadel

Ultra-high Security Lock, made of 1/2" through-hardened alloy. Tested to stop large boltcutters and other tools used by bike thieves. Carries a 1 Year \$250 Theft Guarantee. Vinyl coated to protect bike finish. With cylinder-type keys,

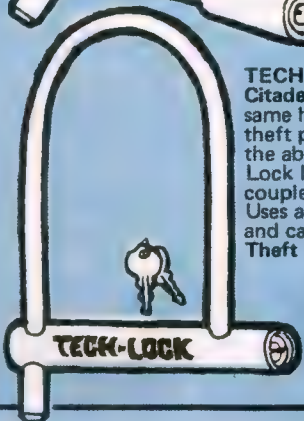
CP-CL \$27.80



The Locks Thieves Hate!

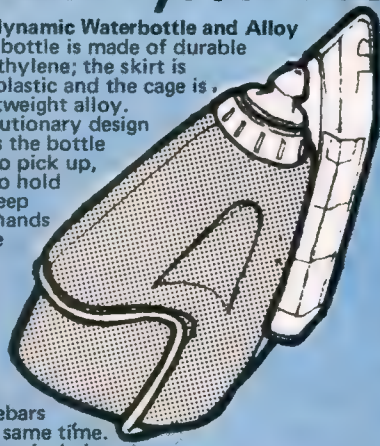
TECH-LOCK by Citadel, offers the same high quality in theft protection as the above Citadel Lock but has a couple of differences: Uses a flat-type key; and carries \$150 in Theft Insurance.

CP-CTL \$19.85



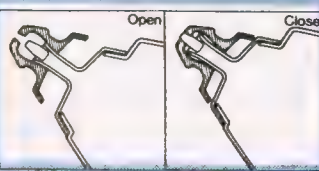
Aerodynamic

Aerodynamic Waterbottle and Alloy Cage, bottle is made of durable Polyethylene; the skirt is clear plastic and the cage is a lightweight alloy. Revolutionary design makes the bottle easy to pick up, easy to hold and keep your hands on the



handlebars at the same time. The cage is designed to fit round frame tube. Weights: Bottle-72G., Skirt/Cage-60G. Bottle Color: Pearl Blue

CP-ADB \$8.90



Cap opens easily with the mouth

"No Wait" Calling (216) 542-3671

TOLL FREE
1-800-321-2474

ULTRA-

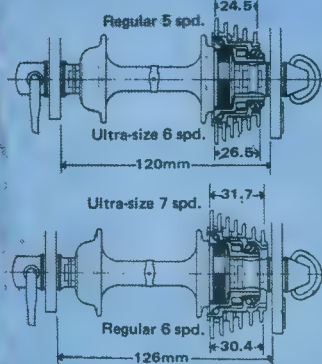
Ultra-6 Freewheels - The distance between sprockets is narrower when compared to an ordinary 6-spd. freewheel, but the Ultra-6 will fit a normal 5-spd. hub because the overall width is almost the same as a normal 5-spd. freewheel.

ULTRA-6 WINNER

English
13,14,15,16,17,19
13,14,16,18,20,22
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 \$22.90

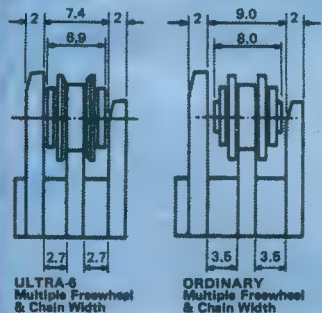
ULTRA-7 FREEWHEELS

Silver, English
12,13,14,15,16,17,19
12,13,14,15,17,19,22
12,13,14,15,17,20,24
12,13,15,17,20,23,26
12,13,15,17,20,24,28
12,13,15,17,20,26,32
ST-U7-T \$25.90



Ultra-6 Chain- 1/4"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 \$8.25



Spoke Protector, light alloy w/anodized finish. Diameter: 7 1/2". for 27 - 34T low gear. Weight: 48G.
ST-ASP \$1.75



PLEASE NOTE: Due to occasional factory changes on freewheels-"Inner" Cogs may deviate by 1 Tooth.
EXAMPLE: 19T may sub for a 20T.



SUNTOUR CONE ADJUSTMENT SPANNER
ST-CAS \$7.60

SUNTOUR FREEWHEEL REMOVER

ST-FR \$1.45

NEW WINNER -5spd FREEWHEEL

Winner - S, precision steel all silver English

ST-FR Remover for all SunTour \$1.45

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

ST-NW-T \$18.90



PRO COMPE GOLD FREEWHEEL

Stock Sizes at left, English Only
ST-PC-T \$9.70

Any Combination 14 to 34T., Eng. or French
ST-PCC-T \$10.90

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

ST-TF-T \$11.50

PRO COMPE GOLD SPROCKETS

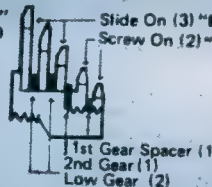
ST-PCS-T Screw On "A" 14 - 18 \$1.80

Slide On (3) "B" Screw On (2) "A"
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-PCS1, 30¢ ea., 2ND Gear ST-PCS2, 30¢ ea., Low Gear, 2 required ST-PCSL, 30¢ ea.



SunTour

SunTour Front and Rear Derailleurs are engineered with Stent Pantograph Mechanisms 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 with Cyclone. Rear Touring Derailleurs also feature Quick-Cage for chain removal without disassembly.

CYCLONE

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

ST-CRD \$25.50

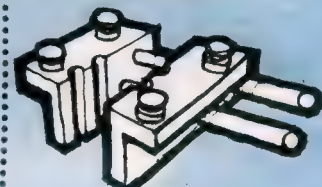
Cyclone front derailleur (98 gr) low normal, hinged frame clip. Non-fouling covered spring; silver

ST-CFD \$17.90

Cyclone Front Adaptor, for 36T and below. ST-FA \$2.50

Cyclone Downtube Levers, 112G., super lightweight & features special hidden bolt clamp design (like brake levers), finger adjustable tension control. Complete w/cables & stainless steel housing. Silver

ST-CDT \$17.80



Freewheel-Axle Vise Tool holds freewheel in vise while changing sprockets. Holds axle to adjust cones. Holds up to 34T.
ST-FV \$11.80

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 pedalling 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	108.1	110.2	112.1	114.2	116.3
14	57.8	61.7	65.5	69.3	73.3	77.1	81.0	84.9	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	60.8	64.1	67.5	70.9	74.3	76.0	77.8	79.5	81.1	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	56.9	59.7	62.5	64.0	65.4	66.8	68.2	69.6	71.1	73.8	75.2	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	72.9	74.3	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	57.8	59.1	60.4	61.7	64.3	65.5	66.8	68.1	69.4	
23	35.2	37.5	39.8	42.4	44.6	47.0	49.3	51.6	52.8	54.0	55.2	56.5	57.8	59.1	61.7	62.9	64.2	65.5	66.8	
24	33.7	36.0	38.2	40.5	42.8	45.0	47.3	49.5	50.7	51.9	53.0	54.2	55.4	56.6	59.2	60.4	61.7	62.9	64.2	
25	32.4	34.6	36.7	38.9	41.0	43.2	45.4	47.5	48.7	49.9	51.0	52.1	53.2	54.3	56.9	58.1	59.3	60.5	61.7	
26	31.2	33.2	35.3	37.4	39.5	41.5	43.6	45.7	46.9	48.0	49.1	50.2	51.3	52.4	55.0	56.2	57.3	58.4	59.5	
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	52.6	53.8	54.9	56.0	57.1	
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	51.4	52.6	53.7	54.8	55.9	
29	28.0	29.8	31.6	33.5	35.4	37.2	39.0	40.9	41.9	42.9	43.9	44.9	45.9	46.9	49.5	50.7	51.8	52.9	54.0	
30	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	40.6	41.6	42.6	43.6	44.6	45.6	48.2	49.4	50.5	51.6	52.7	
31	26.2	27.9	29.6	31.4	33.1	34.8	36.6	38.3	39.3	40.3	41.3	42.3	43.3	44.3	46.9	48.1	49.2	50.3	51.4	
32	25.3	27.0	28.7	30.4	32.1	33.7	35.4	37.2	38.2	39.2	40.2	41.2	42.2	43.2	45.8	47.0	48.1	49.2	50.3	
33	24.6	26.2	27.8	29.5	31.1	32.7	34.4	36.0	37.0	38.0	39.0	40.0	41.0	42.0	44.6	45.8	46.9	48.0	49.1	
34	23.8	25.4	27.0	28.6	30.2	31.8	33.3	35.0	35.9	36.9	37.9	38.9	39.9	40.9	43.5	44.7	45.8	46.9	48.0	

SUPERBE

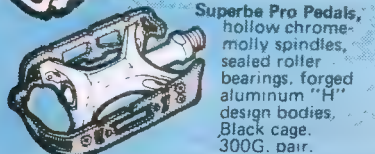
Racing Equipment from SUN TOUR



Superbe Rear Derailleur
27T capacity

ST-SRD
\$29.30

Superbe Front
Derailleur ST-SFD \$19.90



Superbe Pro Pedals,
hollow chrome-
molly spindles,
sealed roller
bearings, forged
aluminum "H"
design bodies.
Black cage.
300G. pair.

ST-SPP \$68.60 pr.



Superbe Downtube Shift
Levers, forged light alloy
levers, stainless steel bolt
& clamp. Anodized finish.
Weight: 78G. with lever
caps.

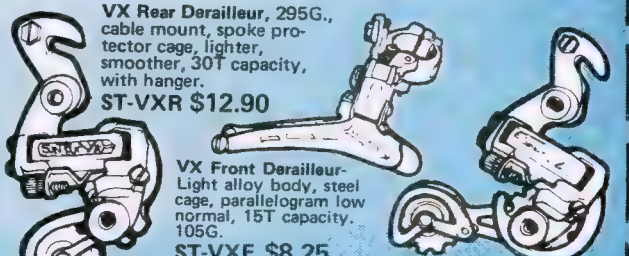
ST-SDT \$18.90

Superbe Pro Sidepull Brakes & Levers,
brakes are cold-forged light alloy with an
anodized finish. Free stopper quick-release
and tire guide. Lock nut w/Allen key hole.
Weights: Normal/346G. pr.
Short/330G. pr.

Levers are light alloy, drilled w/anodized
finish. Natural rubber covers. Weight: 219G.
Includes cable & 3 top tube cable clips.
Specify: Normal or Short Reach
ST-SB-Z \$64.80 pr.

ROADVX

Light Alloy, Slant Pantograph
Components at a Budget Price.



VX Rear Derailleur, 295G.,
cable mount, spoke pro-
tector cage, lighter,
smoother, 30T capacity,
with hanger.

ST-VXR \$12.90

VX Front Derailleur-
Light alloy body, steel
cage, parallelogram low
normal, 15T capacity.
105G.

ST-VXF \$8.25

VX GT Rear Derailleur, 34T
capacity, 275G., w/hanger.

ST-VXGT \$13.20



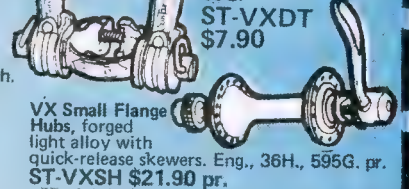
VX Road Pedals, forged
light alloy body, steel
spindle. Quill-type. English.
Weight: 390G. pr. Silver
Made by MKS

ST-VXP \$18.80 pr.



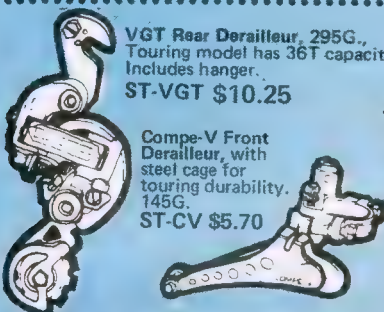
VX Down Tube Shift
Levers, light alloy lever
handle, stainless steel
lever clamp. Weight:
80G.

ST-VXDT
\$7.90



VX Small Flange
Hubs, forged
light alloy with
quick-release skewers. Eng., 36H., 595G. pr.

ST-VXSH \$21.90 pr.

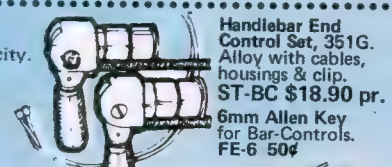


VGT Rear Derailleur, 295G.,
Touring model has 36T capacity.
Includes hanger.

ST-VGT \$10.25

Compe-V Front
Derailleur, with
steel cage for
touring durability.
145G.

ST-CV \$5.70



Handlebar End
Control Set, 351G.
Alloy with cables,
housings & clip.

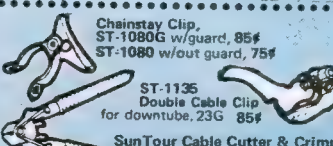
ST-BC \$18.90 pr.

6mm Allen Key
for Bar-Controls.
FE-6 50¢



Power Double Lever-M,
alloy ratchet, downtube
mount, with cables, &
double cable guide.
204G.

ST-DDLM \$8.90



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 & Crimper, ST-CCC \$11.40

SunTour Braided Inner Wire, for
handlebar controls, front & rear.
ST-BIW \$1.80 ea., \$3.50 set

Standard Length Inner Wire, fits
all downtube levers, D1-DC 60¢ ea.

CHAINS



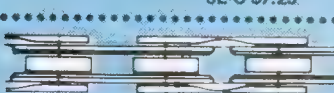
Shimano Uniglide Chain, specially-formed
gold side plates for improved shifting. 370G.
1/2 x 3/32 x 116L.

SH-UC \$9.25



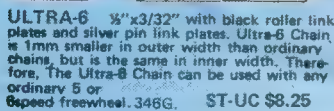
DA EX Pro Uniglide Chain, widened nickel
side plates for improved shifting. Roller pins
of bearing steel & an ultra-hard surface
treatment assures outstanding strength. Will
outlast any other chain. 1/2 x 3/32.

SH-DUC \$33.90



Sedisport, revolutionary narrow
chain with Cambered Inner Plates to
add in extra-quiet/smooth shifting.
Inner Floating Link makes Sedisport
flexible. Reduced Plate Diameters
reduce chain track & weight. Short
Pins are Detritus-Treated (corrosion-
resistant metallic finish). Can be
used with Ultra freewheels.
346G. BLACK.

SE-C \$7.25



ULTRA-6 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. There-
fore, The Ultra-6 Chain can be used with any
ordinary 5 or 6-speed freewheel. 346G.

ST-UC \$8.25



Link Lock, quick, easy assembly
or disassembly of chain without
the need of tools.

SH-LL \$3.50



Not for use
With Ultra
Freewheels

Also
Fits Ultra-6
& Uniglide

Great for shop use.

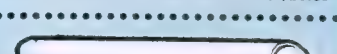
SB-CY, \$3.20



Regina Extra
utilize beveled
rivets that mini-
mize friction and
wear to derailleurs caused by conventional pro-
truding rivets. 1/2x3/32 w/plated side links
388G.

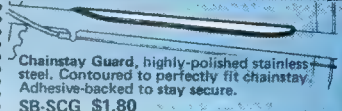
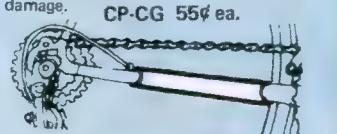
RA-OC \$10.50

Record Super Corsa Oro-drilled, thinner side
plates for lighter weight, 346G. RA-SC \$23.68



Chainstay Guard, clear plastic, slips over
chainstay to protect finish from chain
damage.

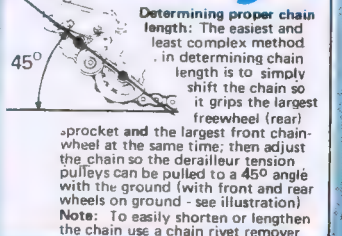
CP-CG 55¢ ea.



Chainstay Guard, highly-polished stainless
steel. Contoured to perfectly fit chainstay.
Adhesive-backed to stay secure.

SB-SCG \$1.80

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

BIKE WARE SPROCKET TOOL

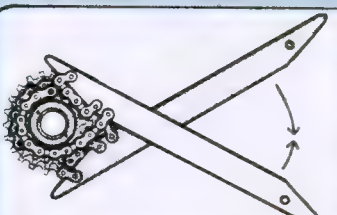
BW-ST \$3.75 ea. BW-2ST \$6.95 pr.



FITS ULTRA

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.

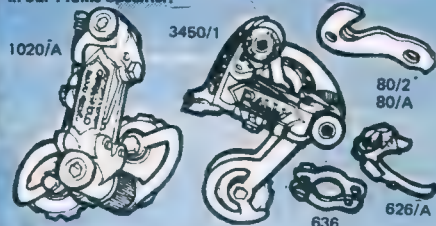
Place the other tool with chain edge
against the right side of the first outside
sprocket. Wrap the chain clockwise a-
round the sprocket teeth.

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

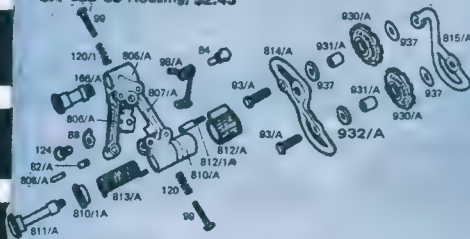
In this way, by pulling the two tools
together, the assembly is held steady
while the outer sprocket is forced to
unthread. Repeat the two steps for the
rest of the threaded sprockets. Any
slotted sprockets will pull off of the
body. That's all there is to it!



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. \$57.56
- CA-3450/1 Rally Touring, w/36T range, and slant pantograph design, 310G. \$57.80
- CA-1020/18 Super Record Rear Derailleur, black, w/out hanger, 187.6G., \$82.78
- CA-80/2 Nuovo Record Hanger, \$1.28
- CA-80/A Rally Hanger \$1.42
- CA-626/A Double Cable Guide, \$7.43
- CA-636 Chainstay Clip \$2.70
- CA-622 SS Housing, \$2.43

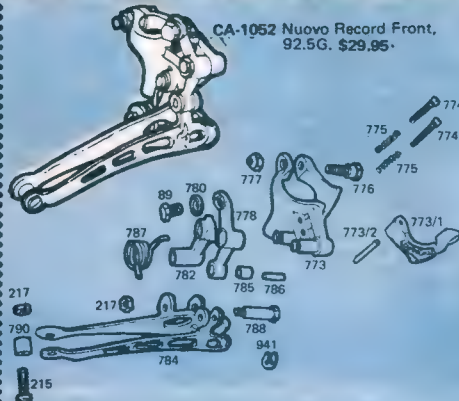


- CA-62/A Body ferrule \$1.28
- CA-64 Gear return spring screw \$1.42
- CA-88 Clamp washer \$1.16
- CA-93/A Sprocket bolt \$1.42
- CA-98/A Gear return spring \$1.22
- CA-99 Gear adjusting screw \$1.01
- CA-120 Lower adjuster spring \$3.44
- CA-120/1 Upper adjuster spring \$3.44
- CA-124 Fixing screw \$1.42
- CA-166/A Upper pivot bolt \$6.48
- CA-806/A Upper body \$15.53
- CA-806/A Front arm \$11.14
- CA-807/A Inner arm \$10.73
- CA-808/A Spindle \$1.16
- CA-810/A Lower body \$15.38
- CA-810/1A Lower body bush \$4.46
- CA-811/A Gear spring bolt \$9.78
- CA-812/A Spring cage cover \$7.56
- CA-812/1A Grub screw \$1.16
- CA-813/A Tension spring \$1.69
- CA-814/A Outer cage plate \$9.72
- CA-815/A Inner cage plate \$8.03
- CA-930/A Roller \$3.04
- CA-931/A Roller bush \$1.06
- CA-932/A Roller dust cover, \$3.44

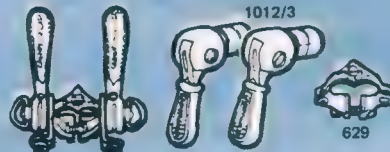
Rally Small Parts which are different from the Nuovo Record parts above:



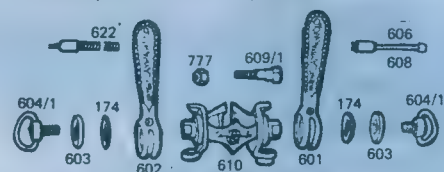
- CA-3451 Upper Body \$17.23
- CA-3452 Outer Cage Plate \$12.31
- CA-3453 Inner Cage Plate \$8.41
- CA-3454 Toothed Washer \$1.43
- CA-3455 Circlip \$2.04
- CA-3456 Gear Fixing Screw \$6.16
- CA-3457 Upper Body Bush \$9.64
- CA-3458 Upper Body Spring \$9.34
- CA-3459 Upper Body Grub \$2.94
- CA-3460 Gear Return Screw \$3.34
- CA-3461 Roller Fixing Screw \$1.75
- CA-3462 Front Arm \$11.32



- CA-1052 Nuovo Record Front, 92.5G. \$29.95
- CA-89 Locking screw \$8.84
- CA-215 Cage spacing bolt \$4.74
- CA-217 Cage spacer bolt nut \$3.44
- CA-773 Record front changer body w/clip and hinge \$15.26
- CA-773/1 Hinge \$3.65
- CA-773/2 Hinge pin \$1.62
- CA-774 Adjusting screw \$6.84
- CA-775 Adjusting bolt spring \$3.44
- CA-776 Clip fixing screw \$1.08
- CA-777 Nut \$3.44
- CA-778 Upper arm \$7.76
- CA-780 Cable clamp bolt washer \$5.44
- CA-782 Lower arm \$5.20
- CA-784 Front changer cage \$10.80
- CA-785 Ferrule for front cage \$3.44
- CA-786 Spindle for front cage \$3.44
- CA-787 Front changer return spring \$1.28
- CA-788 Cage shank bolt \$1.08
- CA-790 Bush \$4.74
- CA-841 Circlip \$3.44



- CA-1014 Nuovo Record Downtube Shifters, 74.6G. \$17.97
- CA-1012/3 Bar End Shifters (2), 108.2G. \$29.95
- CA-629 Fulcrum Clip for above, \$3.98
- CA-218 Front changer cable to handlebar control, \$3.04
- CA-145 Gear cable to handlebar control, \$3.51
- CA-625 S.S. Outer Casing to d.t. handlebar control, \$5.25
- CA-1013/5,6 Braze-on Lever Set, \$16.95

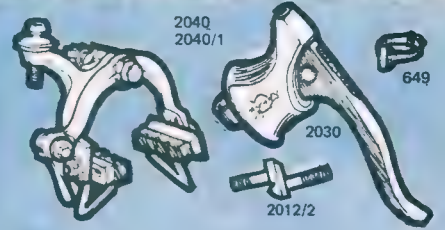


- CA-174 Handlebar friction plate \$2.04
- CA-601 Gear Control Lever \$4.46
- CA-602 Front Changer Control Lever \$4.46
- CA-603 Cover plate \$4.74
- CA-604/1 Friction adjusting wing nut \$1.22
- CA-606 Gear inner wire \$1.50
- CA-608 Front changer inner wire \$1.50
- CA-609/1 Fixing clip bolt \$1.16
- CA-610 Record twin control clip \$12.15
- CA-622 Gear S.S. outer casing \$2.43
- CA-777 Nut \$3.44

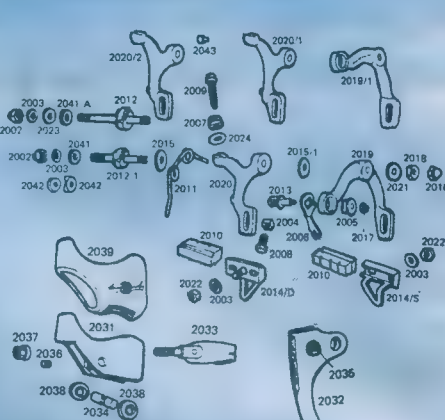


Specify Threads: English, French or Italian

- CA-1039-T Nuovo Record Road Headset complete, 216.6G. \$36.97
- CA-1040-T Nuovo Record Track Headset complete, \$38.96
- CA-2101 Bearing Set for Road Headset \$2.31
- CA-4041-T Super Record Road Headset, ultralight, English, French or Italian, 151.3G., \$52.60
- CA-681 Locking Nut (spec. thread) \$5.87
- CA-682 Locking Washer \$1.76
- CA-683 Screwed Road Race (spec. thread) \$15.26
- CA-684 Road Top Head Race \$10.13
- CA-685 Road Bottom Head Race \$12.83
- CA-686 Road Crown Race \$10.13



- CA-2040 Nuovo Record Brake Set-brakes, handles and cables, (Pr.) 789.7G. \$138.70
- CA-2040/1 Same as above but w/extra short reach, 766G. \$138.70
- CA-2030 Nuovo Record Brake Handle w/hood, 110.4G. \$50.63
- CA-2012/2 Drop Center Bolt for touring frames, 28.9G. \$17.21
- CA-649-Cable Clip Set (3), \$7.43
- CA-4061-Z Super Record Brake Set, complete, drilled levers, 781.7G., \$167.95



- CA-2002 Center bolt fixing nut \$1.01
- CA-2003 Washer \$2.74
- CA-2004 Clamp bolt washer \$4.44
- CA-2005 Cam \$1.42
- CA-2006 Quick release cam lever \$1.36
- CA-2007 Adjusting nut \$1.96
- CA-2008 Cable clamp bolt \$1.28
- CA-2009 Adjusting screw \$1.01
- CA-2010 Brake block \$2.70
- CA-2011 Tension spring \$3.51
- CA-2012 Front brake center bolt \$11.20
- CA-2012/1 Rear brake center bolt \$8.76
- CA-2013 Cable clamp \$3.66
- CA-2014/D Right hand brake shoe \$8.98
- CA-2014/S Left hand brake shoe \$8.98
- CA-2015 Friction washer \$4.44
- CA-2015/1 Inner friction washer \$3.44
- CA-2016 Domed nut \$2.36
- CA-2017 Cam locking nut \$2.36
- CA-2018 Locking nut \$4.44
- CA-2019 Stirrup arm \$23.63
- CA-2019/1 Small brake front stirrup \$23.63
- CA-2020 Rear stirrup \$23.63
- CA-2020/1 Sm. front brake rear stirrup \$23.63
- CA-2020/2 Sm. rear brake rear stirrup \$23.63
- CA-2021 Milled washer \$5.44
- CA-2022 Brake shoe nut \$6.84
- CA-2023 Concave washer for front brake \$1.16
- CA-2024 Adjusting rubber \$1.08
- CA-2041 Serrated washer for rear brake \$1.01
- CA-2041/A Serrated washer for front brake \$1.01
- CA-2042 Concave washer for rear brake \$1.01
- CA-2043 Lever rubber for small brake \$3.44

- CA-2026 Front brake outer casing \$2.57
- CA-2027 Rear brake outer casing \$3.38
- CA-2028 Front inner cable \$3.38
- CA-2029 Rear inner cable \$2.57
- CA-2031 Lever hood \$17.21
- CA-2032 Lever control w/cable holder 2035 \$16.47
- CA-2033 Brake lever clip \$1.16
- CA-2034 Lever pivot pin \$1.08
- CA-2036 Grub screw \$1.08
- CA-2037 Clamp nut \$1.16
- CA-2038 Lever bush \$3.44
- CA-2039 Rubber lever hood \$7.09



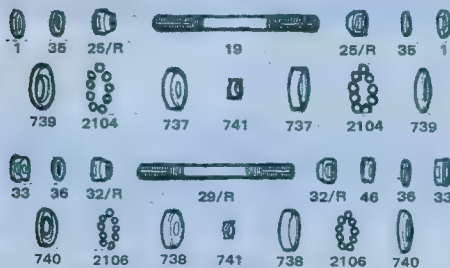
- CA-1030/2 Metal Pump Head (Silica) w/blue rubber tip legs, Presta \$8.50
- CA-3346 Superlight pump head (Silica) \$5.50
- CA-632 Umbrella pump clip \$6.75
- CA-645 Superlight peg pump clip \$3.51



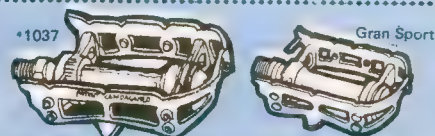
All Hubs are 36H. QR w/skewers, English threads. Pair. 24, 28, 32 or 40H-Add \$4.00 Pair

- CA-1253 Nuovo Tipo Lg. Flange, 567.1G, \$51.95
- CA-1251 Nuovo Tipo Sm. Flange, 508.4G, \$50.95
- CA-1035 Nuovo Record Lg. Flange, 595.6G, \$86.97
- CA-1034 Nuovo Record Sm. Flange, 519.2G, \$79.97
- CA-1034/35 Special Hi-Lc. Flange, 541.9G, \$87.95
- CA-1036/2 Record Sm. Flange Track, \$77.95
- CA-1036 Record Lg. Flange Track, \$77.95

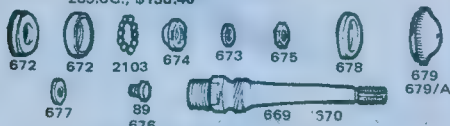
Hubs may be purchased individually at 1/2 the Pair price +\$4.00 Add \$7.00 for 6-spd. Rear Axle and Spacer.



- CA-1310 Nuovo Tipo Front QR Skewer, \$9.86
- CA-1311 Nuovo Tipo Rear QR Skewer, \$10.19
- CA-1001/3 QR Skewer for Front Record Hub, \$13.95
- CA-1006/8 QR Skewer for Rear Record Hub, \$14.51
- CA-1 Front Lock Nut 744
- CA-19 Front Hollow Axle, \$4.52
- CA-28 Nuovo Tipo Front Cone, \$1.42 ea
- CA-25/R Front Cone, \$2.70 ea.
- CA-29/R Rear Hollow Axle 5 Speed, \$4.93
- CA-29/R6 Rear Axle 6 Speed, \$4.93
- CA-32 Nuovo Tipo Rear Cone, \$2.30 ea.
- CA-32/R Rear Cone, \$2.70 ea.
- CA-33 Rear Lock Nut, \$1.28
- CA-35 Front Hub Lock Washer, 34¢
- CA-36 Rear Hub Lock Washer, 34¢
- CA-46 Rear Spacing Collar, 68¢
- CA-737 Front Ball Cup, \$3.98
- CA-738 Rear Ball Cup, \$4.05
- CA-739 Front Dust Cover, \$1.28
- CA-740 Rear Dust Cover, \$1.55
- CA-741 Spring Clip, 47¢
- CA-2104 Set 7/32" Front Bearings, \$2.16
- CA-2105 Set Nuovo Tipo Front Bearings, \$2.16
- CA-2106 Set 1/4" Rear Bearings, \$2.16



- CA-1037 Nuovo Record Road, Chrome, 415.7G, \$59.97
- CA-1037/A Nuovo Record Road SL, Black, 332.8G, \$74.50
- CA-1038/A Nuovo Record SL Track, Black, 322.4G, \$80.95
- CA-3700 Gran Sport Pedals, Silver, 498.8G, \$46.46
- CA-4021 Super Record Road Pedals, titanium axles, 269.8G, \$158.40



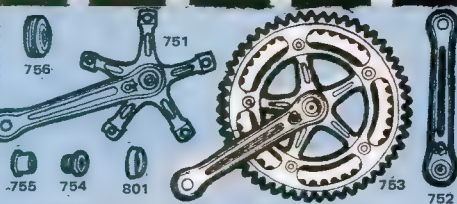
- CA-89 Locking Screw for Superlight 66¢
- CA-669 Left Hand Pedal Axle, \$10.13
- CA-670 Right Hand Pedal Axle, \$10.13
- CA-672 Inserted Race, \$2.84
- CA-673 Pedal Axle Washer, 20¢
- CA-674 Pedal Axle Cone, \$2.36 ea.
- CA-675 Pedal Axle Lock Nut, 81¢
- CA-676 Toe Clip Bolt, 81¢
- CA-677 Toe Clip Washer, 20¢
- CA-678 Inner Dust Cap, \$1.28
- CA-679 Record Pedal Dust Cap, \$4.46 each
- CA-679/A Superlight Pedal Dust Cap, \$4.46
- CA-2103 Set Pedal Bearings, \$2.16

- CA-1044-S Nuovo Record Seatpost, 180mm length, Specify Diameter: 25.0, 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2, 27.4mm, \$33.89

- CA-4051-Z Super Record Seatpost, fluted, wide cradle, 25 to 27.4mm, 204G, \$49.95

- CA-1072 Allen Seatpost Bolt, 8mm, 8.9G, \$5.00
- CA-1070 Superlight Bolt, Drilled, 10mm, 9.7G, (Drill out frame hole to fit), \$5.00

seatpost bolt



- 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, \$135.00
- CA-1049 Nuovo Record Crankset w/out BB - \$119.00
- CA-753-T Nuovo Record Chainrings, 41 to 57T, \$36.90
- CA-1050-J Super Record Track Crankset, with B.B., \$193.95
- CA-1049-A/J Super Record Road Chainwheel, w/ultralight chainrings, 42/52T, 170mm crank, 954.7G, \$144.95
- CA-753-A/T Super Record Chainrings, fit Nuovo Record cranks, 42 - 57T, 63.2G., \$37.80

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

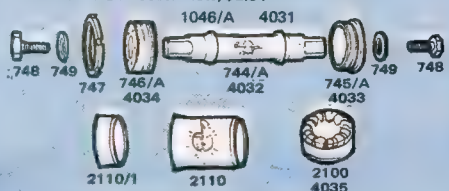


MORE TANDEM INFORMATION
See Tandem Section

- CA-1048/3 Triple Crankset, 36T bottom, any other 2 chainrings. Choice of B.B. \$199.95 (Record B.B.)

- CA-1048/T Triple Tandem Crankset w/ crossover drive, 42T Bottom, any other 2 chainrings, choice of B.B. \$482.95

- CA-751 Right hand Road Crank, with cover 756, 170mm, \$63.30
- CA-752 Left hand Road Crank, with cover 756, 170mm, \$33.00
- CA-753-T NR Chainrings, 42T to 57T, \$33.90
- CA-754 Road Chainwheel Fastening Screw, (5) \$6.75
- CA-755 Road Chainwheel Fastening Nut, (5) \$6.75
- CA-756 Crank Cover Plate, \$3.04



Specify: English, French or Italian

- CA-1046-A-T Nuovo Record Bottom Bracket Set, complete, Specify: English, French or Italian; 68mm or 70mm width, \$42.80

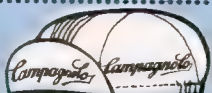
- CA-744/A Nuovo Record Cotterless Road Spindle, Specify: English, French or Italian, \$24.98
- CA-745/A Fixed Cup, Specify Thread, \$15.53
- CA-746/A Adjustable Cup, Specify Thread, \$14.45
- CA-747 Lockring, Specify Thread, \$6.35
- CA-748 Fixing Screw, \$1.42
- CA-749 Fixing Washer, 74¢
- CA-2100 Set Bearings, \$2.03
- CA-2110/1 Cone for Sleeve, \$1.28
- CA-2110 Record Sleeve, \$3.51

- CA-4031-T Super Record Bottom Bracket Road Set, with Titanium Spindle, 68 or 70mm. Specify: English, French or Italian, \$148.90

- CA-4032 Super Record Cotterless Titanium Road Spindle, 68 or 70mm, \$129.00
- CA-4033 Fixed Cup, Specify Thread, \$35.03
- CA-4034 Adjustable Cup, Specify Thread, \$28.06
- CA-4035 Set Bearings, \$2.45



NEW CAMPAGNOLO BELT BUCKLES, an Official Limited Edition. Will be a Collectors' Item. Brass or Pewter. CA-BB Brass, \$9.85 CA-PB Pewter, \$9.85



- Campagnolo Cap, 100% cotton. Orange with Black CA-CAP \$3.45

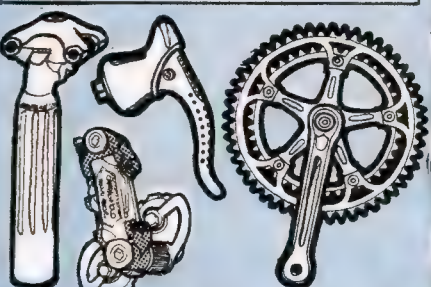
groupos

- CA-1032/F-Z Campagnolo Nuovo Record Road Group: Specify normal or close reach brakes, hub flange, threads, post diameter, etc. \$574.90

- 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 or 1034 Record Lg. or Sm. Fl. QR Hubs, Eng.
- 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-1052/1 Record Front Derailleur
- CA-2040 Nuovo Record Brake Set

- CA-4000/F-Z Campagnolo Super Record Road Group: Includes Nuovo Record Items: 606, 608, 622, 626/A, 636, 649, 1014, 1052/1 plus Super Record components. \$954.00



- CA-1049-A/J Super Record Road Chainwheel, w/ultralight No BB, chainrings, 42/52T, 170mm crank, 954.7G, \$144.95
- CA-753-A-T Super Record Chainrings, fit Nuovo Record cranks, 42 - 57T, 63.2G, \$37.80
- CA-1020/18 Super Record Rear Derailleur, black parts, w/out hanger, 187.6G, \$80.78
- CA-1035-H Nuovo Record Lg. Fl. Hubs, 595.6G, \$87.95
- CA-1034-H Nuovo Record Sm. Fl. Hubs, 519.2G, \$80.95
- CA-4021 Super Record Road Pedals, Titanium axles, 269.8G, \$162.60
- CA-4031-T Super Record Road B.B. Set, titanium axle, 217.2G, \$148.90
- CA-4041-T Super Record Road Headset, ultralight, English, French or Italian, 151.3G, \$47.95
- CA-4051-Z Super Record Seatpost, fluted, wide cradle, 25 to 27.4mm, 204G, \$49.95
- CA-4061-Z Super Record Brake Set, complete, drilled levers, 781.7G, \$167.95

tools

- CA-338b Special Grease, 100G. (3.5oz.), \$4.73
- CA-3388 Special Grease, 500G. (17.5oz.), \$16.20
- CA-Q Cone Wrench 13/14 or 15/16, \$9.45
- CA-143/2 T Wrench, for brakes derailleurs, bar end shifters, \$10.13
- CA-769 Bottom Bracket Axle Spanner, \$7.76
- CA-768 Peg Spanner, for chainring bolts, \$1.08
- CA-770 Cotterless Crank Extractor, \$10.53
- CA-712 Bottom Bracket Lock Ring Tool, \$13.90
- CA-771 Seatpost Wrench, \$11.75
- CA-713 Bottom Bracket Stationary Cup Tool, \$15.94
- CA-710 Pedal Dust Cap Wrench, \$2.23
- CA-712/1 Bottom Bracket Adjusting Cup Tool, \$13.98
- Pins, \$2.84 Pair



Campagnolo Decal for downtube, CA-D 50¢ each

care



Product 1900 Clear Corrosion Preventive Compound
Preventive Compound, outstanding moisture displacing properties, including sea water. Provides maximum resistance to corrosion in the severest environments. Dries to a clear, tough, flexible film—won't collect dust or dirt. Meets the most stringent specifications. Not intended for use on moving parts which require a lubricated surface.
PC-CC \$6.75

300 Synthetic Lubricant, contains no petroleum, petroleum distillates, wax, silicones, graphite or molybdenum disulfide. Will not draw dust, dirt or moisture. Penetrates metal pores. Lasts need be used. Stops rust. Makes an excellent chain lube. Moving parts become highly polished.
Rated non-flammable.
5 1/2oz. Can
PC-SL \$3.75

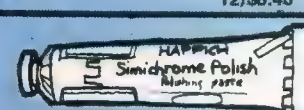
Motion Fluid 60, multi-purpose lubricant. Penetrates better. Also cleans, displaces moisture, and prevents corrosion. Effective on all moving parts of a bicycle. Never becomes dry, brittle or hard. Eliminates squeaks, frees up locks & cables. Rated non-flammable.
10oz. can
PC-M60 \$3.75



Gold seal grease, high-grade waterproof bicycle grease especially prepared for: head bearings, hubs, forks, cranks, & pedals. Protects against wear and corrosion.
2 oz. tube only PA-GS 75¢ ea., 12/\$8.10



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.
PA-P51 85¢ ea. 3/\$2.25
12/\$8.40



Simichrome polishing paste great for buffing aluminum and chrome. Also can be used to polish bearing races, 2oz.
CP-SCP \$2.75

nadax®

Made in Switzerland



Sealed Bearing Bottom Bracket, for all sporting and racing bicycle frames. Ready for installation. Equipped with FAG precision ball bearings and special frictionless seals. Protected against dirt & water. Minimum friction. Increased bearing life due to stainless parts. Adjustment without clearance by manufacturer. Filled with special grease lasting for full bearing life. 244G. English or Italian. 113mm. Works w/double cranks only—Campy, Sugino, Shimano, Dura-Ace, NA-BB-T \$56.50



SR-A5-T Super Apex-5 Touring Crankset, one piece forged Super Duralumin cotterless crank and arms. Anodized finish. Super Duralumin cold rolled chainrings. 170mm crankarms, English.
Weight: Approx. 600G.
Specify: 30 x 52T 32 x 50T 36 x 52T
\$48.80 Diff. BB-Add \$6.00

SR-A5-T-T Super Apex-5 Triple Touring Crankset, 170mm, English.
Specify: 34/42/52T 28/40/50T 28/36/48T
\$56.90 Diff. BB-Add \$6.00

SR-A5-C Super Apex-5 Chainrings, cold-rolled Super Duralumin. Specify: 28,32,34,38,40,42,44,46,48,54T **\$10.50 ea.**

SR-CE Cotterless Crank Fixer and Extractor. 99G.
\$5.25



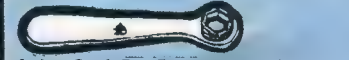
SR-ABD-Z Super Apex Bottom Bracket Set, Double, Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian **\$12.80**

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian **\$13.80**

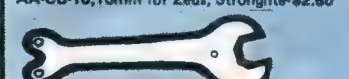
tools



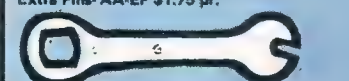
Universal Adjustable cup Spanner, AA-UCS **\$5.50**



Artisan Crank Bolt Socket Wrench, Specify: AA-CB-14, 14mm for DA, SR, Nerva, Maxy, Apex—**\$2.80**
AA-CB-15, 15mm for Campy, Sugino, Mighty, TA—**\$2.80**
AA-CB-16, 16mm for Zeus, Stronglight—**\$2.80**



Adjustable Cup Spanner, fits Campy, DA, Sugino and 30mm Headset. AA-ACS **\$7.80**
Extra Pins—AA-EP **\$1.75 pr.**



Fixed Cup Remover on one end and fits Campy, DA, Sugino, etc. 15mm Pedal Wrench on other end. AA-FCR **\$6.80**



Lock Ring Spanner, fits all notched lock rings and 30mm Headset. AA-LR **\$6.50**
Campy 3-Prong, AA-3LR **\$6.60**

bike builder's blueprint crankset installation

THREADING INFORMATION	
B. B. ASSEMBLY	FIXED CUP
English (1.370 x 24 TPI) - Left-hand thread (Counter-clockwise)	
French (35 mm x 1.0 mm) - Right-hand thread (clockwise)	



IMPORTANT NOTE:
Apply liberal amounts of grease to all threads and bearings before assembly.

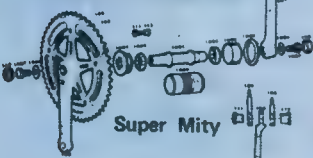
1. Thoroughly clean bottom bracket shell threads with a fine brush before assembly. Using a fixed cup spanner, carefully thread the fixed cup (with flange) in the right bottom bracket shell. Be sure to tighten very snugly.
2. Place one bearing retainer (well packed with bearing grease) on longer spindle 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.

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 overtighten covers).
- Your new crankset is now installed and ready to accept chain hookup and pedals.

crank removal

1. First unthread the protective cap covering the crank arm bolt.
2. 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.
3. 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.

Sugino CHAINWHEEL



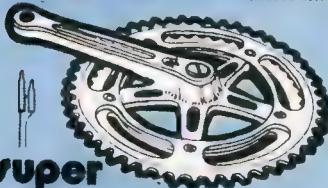
Super Mity

Our Sugino cranksets 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. And keep in mind that every part included in these cranksets 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. PAGE 21

Mity Arm Lengths of 165 & 168mm available SPECIAL ORDER-\$10.00 extra



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 \$74.50

Chainwheel Changes, up to 54T - \$3.00 extra Chainwheel Changes, 55-64T - \$6.00 extra

MC Silver Chainwheels, Specify: SU-MCD-T 42-52T \$10.81 53-66T \$12.40; 57-64T \$15.90



super mighty custom compe

Mighty Custom Compe, with drilled silver anodized chainwheels, relieved spider. 170mm arms. Specify: 42/52T (standard) or your choice, Eng., Ital., or Fr. Ni-CR Steel Ball Cups, 68 Hollow or 70mm Axle, BB Protective Sleeve and Chainwheel Tools included. SU-MCC-J \$78.40

Chainwheel Changes, up to 54T - \$3.00 extra Chainwheel Changes, 55-64T - \$6.00 extra

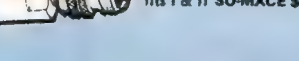
MCC Silver Chainwheels, also Inner Chainwheel for MVC. Specify: SU-MCC-T 43-52T \$14.30; 53-56T \$17.80; 57-60T \$19.80; 61-64T \$21.70



Sugino BB Tool Set, also fits campy & dura ace, tools for stationary & adj. cups and locking, allen wrench and two extra pins. SU-BBTs \$10.50



Mighty crank extractor, also fits campy & dura ace. SU-MCE \$4.60



Maxy Crank Extractor, fits I & II SU-MXCE \$4.40



mighty tour

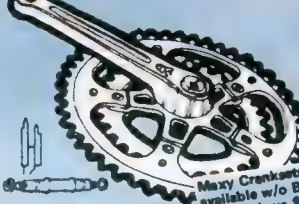
Mighty Tour, top quality touring crankset. 34/52T, 171mm crank arms, relieved spider. Specify: Eng., Fr. or Ital. Cups; 68 or 70mm Axle, BB Protective Sleeve and Chainwheel Tools included. SU-MT-J \$74.50

Chainwheel Changes-\$3.00 extra

MT Silver Chainwheels, specify: SU-MTC-T 34,36,38,40T \$10.25; 42,44-54T \$12.40

Mighty Tour Triple, now get 15 touring speeds out of your bicycle. 34/42/52T. SU-MT-3T \$91.70

Chainwheel Changes-\$5.00 extra

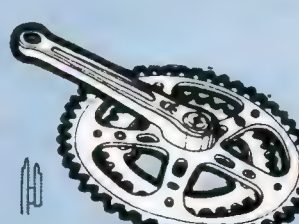


maxy II/5

Maxy Type II, uses Mighty Tour rings inner & outer, both interchangeable. A low cost cotterless alloy crankset. Crank arm is welded onto 5 arm spider. 42/52T. Specify: Eng., Fr. or Ital. Cups; 68 or 70mm Axle, BB Protective Sleeve included. SU-M2-J \$41.10

Chainwheel Changes-\$3.00 extra

Silver Chainwheels, Specify: SU-M2C-T 34,36,38,40T \$10.25; 42,44-53T \$12.40



maxy I/5

Maxy I, same as Maxy II but only the inner chainwheel is interchangeable. SU-M1-J \$36.57

Chainwheel Changes-\$2.00 extra

Silver Chainwheels, Specify: SU-M1C-T 34,36,40T \$10.25; 42, 44-48T \$12.40



bottom bracket	
TYPE	AXLE SIZE
DOUBLE	68
DOUBLE	70
TRIPLE	68
TRIPLE	70

Sugino Mighty Custom and Bottom Bracket assemblies consist of highest quality Sugino parts, totally suited for racing, touring or occasional riding. Each set is complete. Hollow steel axle for 68 (Eng., Fr.) or 70mm (Ital.) axle. Chrome steel bearings encased in hassle-free retainers, weight saving ridged fixed cup and multi-drilled adjustable cup, with alloy lock ring, steel crank bolts and washers, and plastic protector sleeve. Specify axle size and Eng., Fr., or Ital. threads. SU-MSD-Z Single: Eng., Fr., Ital. \$24.70 Double: Eng., Fr., Ital. \$24.70 Triple: Eng., Fr., Ital. \$25.80

Sugino Mighty Compe and Mighty Tour Bottom Bracket assemblies include: NI-CR steel 68 (Eng., Fr.) or 70mm (Ital.) axle, chrome steel bearings w/retainers, NI-CR steel fixed cup and adjustable cup, lock ring (Eng., Fr., or Ital.), crank bolts and washers, plastic protector sleeve. Specify axle size and Eng., Fr., or Ital. threads. Complete B. B. assembly-SU-MDX-Z Single: Eng., Fr. \$21.80 Double: Eng., Fr. \$15.95; Fr., Ital. \$21.80 Triple: Eng., Fr. \$22.90

Sugino Maxy I & II bottom bracket assemblies: Chrome steel 68 (Eng., Fr.) or 70mm (Ital.) axle, chrome steel bearings with retainers, chrome steel fixed cup and adjustable cup, lock ring, (Eng., Fr., Ital.), 2 fixing nuts w/integral washers, plastic protector sleeve. Specify axle size, and Eng., Fr., or Ital. Complete B. B. assembly SU-MBB-Z \$9.75

BOTTOM BRACKET PARTS. Specify: English, French or Italian.

Axle: NI-CR steel 68(Eng.,Fr.) or 70mm (Ital.) SU-MX52-Z Maxy Double-\$2.90 SU-MX53-Z Maxy Triple-\$6.50; SU-MYS2-Z Mighty Double-\$11.40; SU-MYS3-Z Mighty Triple-\$12.92; SU-MYS1-Z Track(68mm only) \$12.90

Fixed Right Cup: SU-SRC Mighty Custom, Victory-ridged, alloy \$4.10; SU-DRC Mighty Compe, Tour, NI-CR steel-\$2.90; SU-MRC Maxy I,II, steel-\$1.55

Adjustable Left Cup: SU-SLC Mighty Custom, Victory-drilled, alloy-\$3.90; SU-DLC Mighty Compe, Tour, NI-CR steel-\$2.90; SU-MLC Maxy I,II, steel-\$1.60

Left Lock Ring: SU-SLR Mighty Custom, Victory, alloy-\$1.77; SU-DLR Mighty Compe, Tour, NI-CR steel-\$1.15; SU-MLR Maxy I,II, 65¢

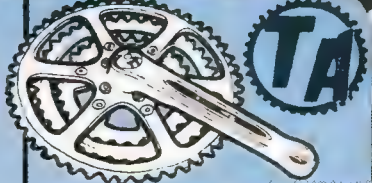
Bearings: NI-CR steel w/retainers SU-B \$1.40 pr Crank Arm Bolts and Washers: SU-15 Mighty, 15mm, 2 bolts, 2 washers 88¢ SU-14 Maxy, 14mm, 2 fix nuts w/washers 88¢

Dust Caps: SU-AC Mighty, alloy, silver-\$1.40 pr. SU-DC Maxy, plastic-90¢ pr.

Chaining Bolts, Nuts and Spacers: SU-DB Double Set-\$4.13; SU-TB Triple Set-\$6.50; SU-SB Single Set, \$4.10

Plastic Protector Sleeve, fit all- SU-PPS 75¢

Bolt Peg Spanner SU-PS-75¢ Bolt Allen Key, 6mm FE-5 60¢



TA Cyclotourist Triple Crankset, 165 or 170mm crankarms. Specify: English or French, Average Weight: 940G.

TA-TC-Z 26 to 54T - \$88.98 26 to 58T - \$90.70 26 to 60T - \$96.40 26 to 62T - \$99.90 26 to 68T - \$102.30 26 to 70T - \$109.40

TA-CR-Z CHAINRINGS- 26-35, \$7.90 36-48, \$14.90 49-54, \$17.20 56T, \$18.40 58T, \$21.80 60T, \$24.73 62T, \$26.90 65, 66, 68, \$42.50 70T, \$90.00

Specify: Inner or Outer Chainrings



TA Crank Arm Tool for use on TA or Stronglight. TA-CT \$4.60

TA Triple Tandem Crankset, with crossover drive, 165 or 170mm crankarms, any combination from TA-TC-V 26 to 54T - \$169.50 26 to 58T - \$173.50 26 to 60T - \$177.50 26 to 62T - \$181.50 26 to 68T - \$185.50 26 to 70T - \$199.50

Specify: Inner (Middle) or Outer Chainrings

small parts TA

SPINDLES

TA-SD Double for tandem front, 68mm, 114.5mm length, \$13.50

TA-ST Standard Triple, 118mm length, 68mm, \$13.50

TA-TT Rear Tandem Triple, 123.5mm length, 68mm, \$13.50

CUPS

TA-EC English, includes Fixed Cup/Adjustable Cup/Lock Ring, \$13.90 set

TA-FC French, includes Fixed Cup/Adjustable Cup/Lock Ring, \$13.90 set

TA-CDC Crank Bolt Dust Cover (2), \$2.50

TA-CAB Crank Arm Bolts & Washers (2 bolts, 2 washers), \$3.30

RT-B Bearings, 1/4", 70¢ per bag

ARMS

TA-SAR-L Standard Right Arm, 165 or 170mm, \$24.90

TA-SAL-L Standard Left Arm, 165 or 170mm, \$28.90

TA-TLF-L Tandem Front Left Arm, 165 or 170mm, \$28.90

TA-TRF-L Tandem Front Right Arm, 165 or 170mm, \$24.90

TA-TLR-L Tandem Left Rear Arm, 165 or 170mm, \$28.90

TA-TRR-L Tandem Right Rear Arm, 165 or 170mm, \$28.90

TA-ORB Outer Ring Bolts, \$2.50

TA-TCB Triple Bolts, \$5.00

WATCH for QUANTITY DISCOUNTS throughout this catalog. Great for CLUB AND TEAM PURCHASES.

***** DEALERS—Send proof of dealership for our Wholesale Price Sheet.

threads

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

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

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	26MMx1MM

Hubs

English	1.370"x24TPI *
Italian	36MMx24TPI *
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	49	44
Dura-Ace EX Long	49	57	53
Shimano 800	43	57	50
Gran Compe Sidepull*	44.5	55.5	49.5
Gran Compe 480 CP	45	57	51
Die-Compe 500G*	43	57	50
Die-Compe 730G*	52	72	62

*With Drop Bolt - Add 6mm

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
□□-□□□□-□□

When Ordering, you must provide all the information indicated by the last letter in the Stock Number. Explanations of the Info Code Letters are shown here.

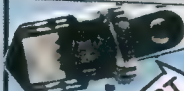
C Color
E Extension & Diameter (stems)
F Fast & Color (housing)
H Holes (wheels and hubs)
J Threads, Teeth, B.B. Width, Arm Length (cranks)
K Size & Color (clothes, frames)
L Length (spokes)
M Model
T Threads (headset, B.B.) or Teeth (chainrings, sprockets)
V Threads & Teeth (freewheel)
Z Size (seatpost,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

bike warehouse



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. 40.7G.
Colors: White, Black, Blue, Red

bike warehouse



BW-TS-C
\$1.90 PAIR

christophe

toe clips



Toe Clips, top quality spring steel. 63.4G.

per pair.
Size: S/4-S
M/8-10
L/10-12%

CH-TC-Z
\$2.90 pr.



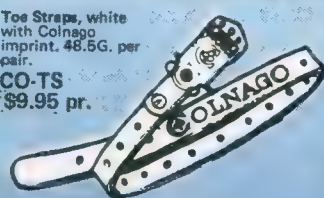
Christophe toe straps. Pro straps are supple leather with Christophe stamped in fine outlined silver letters. Quick-release buckle has Binda-style release with ferruled roller. 48.1G.
Specify: White, Red, Blue or Black

CH-TS-C \$3.25 pr.

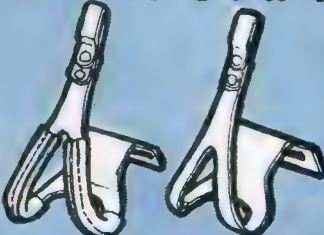
COLNAGO

Toe Straps, white with Colnago imprint. 48.5G. per pair.

CO-TS
\$9.95 pr.



MINOURA



Stainless Steel Toe Clips, high quality steel with sewn natural leather toe guards. Natural finish. Weight: 68G. Size: S,M,L,L,L MN-STC-Z \$4.95

Aluminum Toe Clips, made of new springy aluminum alloy. Weight: 40G. Silver finish. Size: S,M,L,L,L MN-ATC-Z \$6.95

KKT

pro ace

Silver comes in Eng. or French

Pro Ace Road Pedals, Campy copy, alloy body. Chromomoly shaft. Clip and strap attachable. 353G. Silver, KK-PAS-T \$36.80
Black, KK-PAK \$37.80

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 or French

Silver KK-PVS-T \$20.50

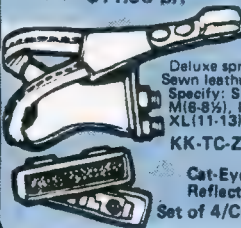
top run

Top Run Alloy Cage Pedal, lightweight, well-built, steel-bodied pedal. Eng. 460G.

KK-TRS \$10.75 pr.

Black Top Run Pedal, same as above but with black alloy cage. Eng. Pair.

KK-TRK \$11.90 pr.



toe clips

Deluxe spring steel. Sewn leatherette. 81.5G. Specify: S(4-5%), M(6-8%), L(9-10%), XL(11-13%).

KK-TC-Z \$6.95

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

SunTour



VX Road Pedals, forged light alloy body, steel spindle. Quill type. English. Weight: 390G. pr. Silver. ST-VXP \$18.80 pr.

SUPERBE



Superbe Pro Pedals, hollow chromomoly spindles, sealed roller bearings, forged aluminum "H" design bodies. Black cage. 300G. pair.

ST-SPP \$68.60pr.

SAKAE

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

\$14.80

SR-100BL Sistar, Alloy, Black, \$14.80



9/16" English.

Campagnolo



CA-1037 Nuovo Record Road, chrome, 415.7G., \$59.97
CA-1037/A Nuovo Record Road SL, black, 332.8G., \$74.50
CA-1038/A Nuovo Record SL Track, black, 322.4G., \$80.95
CA-3700 Gran Sport, silver, 498.8G., \$46.46
CA-4021 Super Record Road, titanium axles, 269.8G., \$158.40

ALFREDO BINDA toe straps



Super quality, soft leather. Quick-release buckles. Specify: Black, White, Blue, Red. CA-AB-C \$7.45 pr.

BINDA extra

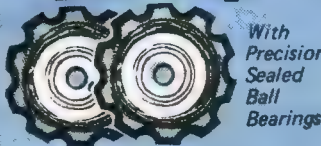
The best strap available. Two leather straps are bonded with nylon permitting almost no stretch. OFF-White. CA-BE \$12.95 pr.

RELIANT bearings

Reliant Ball Bearings, the finest chrome steel balls, polybagged. Specify Size or Use. Size: 1/8", 5/32", 3/16", 1/4"

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

bullseye pulleys



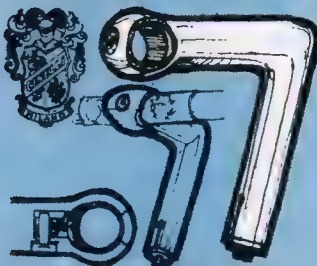
A 76-foot hillclimb is saved every 100 miles, on the average, by replacing sleeve-bearing types with BULLSEYE PULLEYS... enough work to raise a 100-pound weight 122 feet. On the level, you'll be about 1685 feet ahead... almost 1/3-mile.

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 and maintenance, but are removable for inspection. Easy installation on any derailleur; no cones to adjust.

DU-BP \$15.70 pr.

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 \$35.88



CI-1A-Z \$24.89

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 on list, they will not fit in a French or low price American frame.

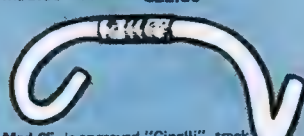


The finest satin anodized alloy bars with double thick engraved center section.



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.

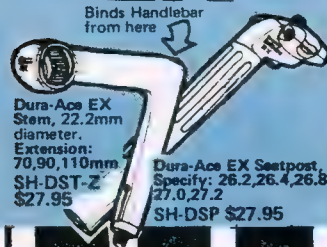
Mod. 63 - CI-63-Z \$22.80
Mod. 64 - CI-64-Z \$22.80
Mod. 66 - CI-66-Z \$22.80



Mod. 65, is engraved "Cinelli", track style with narrow center section and immediate forward reach. Width: 38, 40cm. Mod. 65 - CI-65-Z \$21.80

DURA-ACE EX

Binds Handlebar from here



Dura-Ace EX Stem, 22.2mm diameter. Extension: 70, 90, 110mm SH-DST-Z \$27.95

Dura-Ace EX Seatpost. Specify: 26.2, 26.4, 26.6, 27.0, 27.2 SH-DSP \$27.95

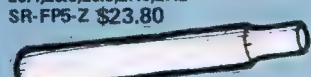
SR SAKAE



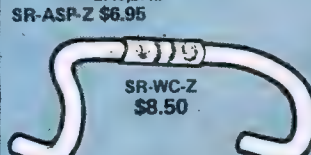
Custom P5 "Laprade" Seatpost, melt-forged high-strength light alloy pillar, bracket & supporter. Adjustment by a single bolt from below. Pillar Length: 220mm. Weight: 270G. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-P5-Z \$11.25



Foursir P5 "Laprade" Seatpost, forged Super Duralumin pillar, bracket & supporter. Anodized finish. Top class racing model. Pillar Length: 190mm. Weight: 200G. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-FP5-Z \$23.80



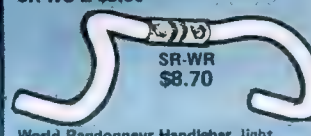
ASP Seat Pillar, melt-forged high-strength rustless light alloy. Length: 235mm. Diameters: 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2 SR-ASP-Z \$6.95



SR-WC-Z \$8.50

World Custom Handlebar, light alloy, anodized finish. Double tube center section. Diameter: 23.8mm. Reach: 96mm. Specify Width: 370mm/145mm drop/Weight: 305G. 390mm/145mm drop/Weight: 305G. 420mm/160mm drop/Weight: 310G.

SR-WC-Z \$8.50



SR-WR \$8.70

World Randonneur Handlebar, light alloy, satin finish. Double tube center section. Engraved. Diameter: 23.8mm. Drop: 120mm. Width: 420mm. Reach: 37mm. Weight: 305G.

SR-WR \$8.70



FITS CINELLI, TTT & FIAMMI

Foursir-C Handlebar, high-strength light alloy, anodized finish. CRITERIUM type. Diameter: 26.4mm. Reach: 80mm. Specify Width: 380mm/150mm drop/Weight: 310G. 400mm/150mm drop/Weight: 320G. 420mm/150mm drop/Weight: 335G.

SR-FC-Z \$18.90



FITS CINELLI

Foursir-G Handlebar, high-strength light alloy, anodized finish. GIRO D'ITALIA type. Diameter: 26.4mm. Reach: 105mm. Specify Width: 380mm/160mm drop/Weight: 310G. 400mm/160mm drop/Weight: 320G. 420mm/160mm drop/Weight: 335G.

SR-FG-Z \$18.90



All-Rounder Handlebar, light alloy. Often used as rear tandem bars. 32mm center. Diameter: 22.2mm. Raised: 45mm. Width: 505mm. Weight: 180G.

SR-AR \$7.50

Foursir Stem, forged Super Duralumin, anodized finish. Stainless steel 6mm expander bolt & binder bolt. Diameter: 22.2mm. Specify Extension: 80mm/135mm/210G. 100mm/135mm/230G. 120mm/135mm/250G. SR-FS-Z \$19.25

Swan Stem, for those who prefer a shorter reach. Melt-forged light alloy. Extension: 50mm. Diameter: 22.2mm. Length: 230mm SR-SS \$9.90

Royal II Stem, forged Super Duralumin. Anodized finish. Allen head expander and binder bolts. Cr-Mo steel 6mm bolts. Specify Diameter: 22.0mm, 22.2mm, 0.833"

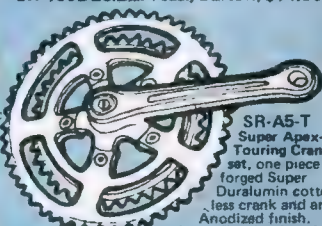
Specify Extension: 70mm/135mm length/250G. 90mm/135mm length/240G. 130mm/135mm length/310G.

SR-RY-Z \$11.80

Apex Stem, forged Super Duralumin. Anodized finish. Diameter: 22.2mm (Some sizes also available in 0.833" - Please Specify). Specify Extension: 60mm/135mm length/330G. 80mm/150mm length/320G. 100mm/150mm length/340G.

SR-AX-Z \$9.50

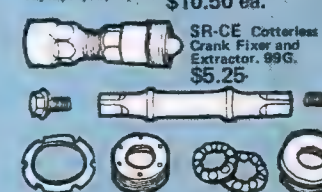
Silstar 100AL Pedal, quill-type. Melt-forged light alloy body. Alloy plates. Screw dust cap. Width: 61mm. Weight: 345G. 9/16" English SR-100AL \$14.80 SR-100BL Silstar Pedal, BLACK, \$14.80



rolled chainrings. 170mm crankarms, English. Weight: Approx. 600G. Specify: 30 x 52T 32 x 50T 36 x 52T \$48.80 Diff. BB-Add \$6.00

SR-A5-T Super Apex-5 Triple Touring Crankset, 170mm, English. Specify: 34/42/52T 28/40/50T \$56.90 Diff. BB-Add \$6.00 28/36/48T

SR-A5C-T Super Apex-5 Chainrings, cold-rolled Super Duralumin. Specify: 28, 32, 34, 36, 40, 42, 44, 46, 48, 54T \$10.50 ea.



SR-ABD-Z Super Apex Bottom Bracket Set, Double. Chrome Molybdenum steel. 119.0mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$12.80

SR-ABT-Z Super Apex Bottom Bracket Set, Triple. 121.5mm length. Specify: 68mm/English 68mm/French 70mm/Italian \$13.80

seatpost length

(Allow 2" inside seat tube)

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

All Columbus Tubing Frames take a 27.2 Seatpost.

Seat Post size to use-by seat tube opening

MM / Decimal / Fraction	MM / Decimal / Fraction
25.0 .9843 63/64	26.8 1.0651 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.

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.

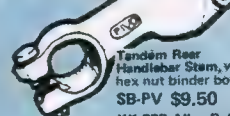
Saddle Position: (Forward to rearward) Again sitting on the saddle with one foot in the toe clip - this time with one pedal in the forward 9-00 position. A line perpendicular to the road should run through the pedal axle and the joint in your knee. Move your saddle forward or back till this is so.

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 center to center	MM (cm-remove 0)
2 3/8	80
2 3/4	70
2 1/2	60
2 1/4	50
2 1/8	40
2 1/4	100
2 3/8	110
2 1/2	120
2 3/4	130
2 3/8	140

PIVO



Tandem Rear Handlebar Stem, w/ hex nut binder bolt. \$8-PV \$9.50

KK-SPB Allen Bolts, 27mm, \$2.35 each (extra)



Seat Post Bolt, chrome, allen head, 8mm hole, 22 or 27 mm Width. KK-SPB-\$3.25

INCLUDES TOOL

SAVE YOUR GAS... let your mail do the shopping

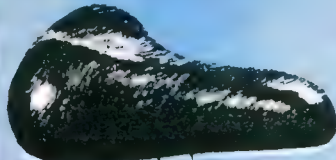


The Avocet Saddle Design System, now, every aspect of the cyclist's pelvic structure gets the support it needs. Varying thicknesses of the molded nylon shell disperse the pressure of the rider's bodyweight over a greater area than with conventional saddles. As the pelvic bones contact the saddle, the padded bumps are displaced and the pressure points (arrows) are relieved. The thinned nylon shell regions below the padded bumps give in a downward direction, thus, distributing support around the pelvic contact points. The padded bumps and thinned nylon shell combine to provide maximum comfort. The lowered area between the bumps prevents irritation in the crotch area.



Mens Model I Saddle, features a softer nylon shell and a thicker, softer (less-dense) polyurethane padding. This is an ideal design for the beginner & intermediate cyclists. Smooth Black.
AV-M1 Mens Model 1, \$21.75

Mens Model II Saddle, designed for the more experienced racer or tourist who desires a firmer nylon shell and pad for optimum efficiency during extended riding. Smooth Black.
AV-M2 Mens Model 2, \$28.75



Avocet has taken into account the differences in width and construction between the mens pelvic structure and the womens, by designing Model I & Model II Saddles specifically for women. They feature a broader nylon shell and a repositioning of the saddles' molded anatomic pads. Both models are Smooth Black.

AV-W1 Womens Model 1, \$21.75
AV-W2 Womens Model 2, \$28.75

BROOKS



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 \$36.88



Model 872, wider for extra comfort, plus coil springs for added resilience.
BR-72 \$28.80

Brooks Proofide Leather Dressing, for use on smooth leather (not for suede or cowhide). Conditions, preserves, waterproofs, restores. 2 oz. can BR-P \$2.60



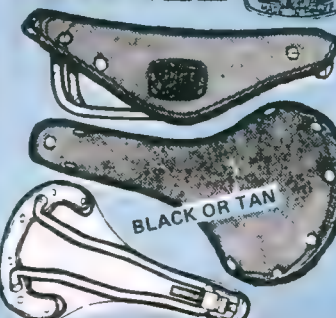
Cyclepro
TOURING SADDLE



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 - CP-TSM \$17.50
Women's Black Smooth - CP-TSW \$17.50
Men's Black Suede - BW- CP-TSS \$17.50

IDÉALE



New "Ideal 90 A" saddle, Brooks pro type fits Campy type posts. Solid leather top "pre-softened". Tapered edges on the leather prevent chafing, narrow forward section, tension adjustable. Beautiful embossed logo and large copper rivets. \$31.80
Tan - ID-90N
Black - ID-90K

B6 woman's model. Tan leather, not for use with Campy type seat posts.
ID-B6 \$13.50



Sheepskin Seat Cover, over 1" thick fur fleece. Allows air circulation and helps prevent chaffing and sticking. Finished edge and drawstring keeps it in place. Color: Natural
2 Sizes: SC fits Pro-type saddles
LSC fits Wide & Ladies saddles
SL-SC Pro-type, \$8.50
SL-LSC Ladies/Wide, \$9.25

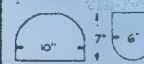


bike warehouse

Seat Cover, K-Koted nylon cover with elastic closure. Protect your saddle from the elements and keep your rear end dry. Universal sizing. Yellow. BW-SC \$2.50

BIKEWARE BLUE Now Available

BIKEWARE BAGS- All bags are made of durable waterproof Oxford Pack Nylon. Colors: our exclusive Special Burnt Orange (brownier than International Orange) or Blue. 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 bags.



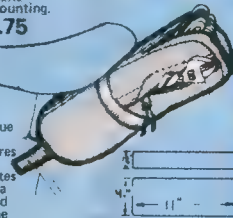
"Annie" Seat Bag, has quick-release adjustable buckle fasteners swivel so bag can be used on saddles with or without accessory clips. Wrap-around double pull zipper. Zipper rain flap. Nylon reinforcement strap. Red safety reflector. Instructions are included for mounting.



Weight: 7oz.
Capacity: 300 cu.in.
Colors: Orange or Blue

BW-A-C \$12.75

"Holly" Tire Sock and Utility Bag, superb stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction the top tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't hit the bag even on narrow racing saddles. Holds two tires, tools or other gear.



Weight: 3 oz. Colors: Orange or Blue
BW-H-C \$8.80



CD-B021-C Seat Bag, lightweight materials, QR latches, Poly-lined interior & carry handle. 3lb. limit. Capacity: 232 cu.in. Weight: 5 oz. Colors: Red or Blue \$7.90



Gatorade
THIRST QUENCHER

Powdered. 5% glucose mixture containing sodium, potassium chloride, and phosphate. 8 oz. per package makes 1 gallon. Use 3 tsp. per 8 oz. cup/3 tbs. per waterbottle.

GA-O Orange or GA-L Lemon-Lime
1 Pack/\$1.25, 5/\$5.00, 10/\$9.50



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 be 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 powdered gatorade. Mix gatorade by the waterbottle full as desired.

WHY USE 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 and Stamina.

**bike
warehouse**



Rollers

Manufactured by



5 Year Manufacturer
Guarantee

GOLD ANODIZED

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

Dual Belt Drive. quieter
with a more even pull.

MT-EB Extra Belts, \$6.25 ea.

OPTIONAL Stewart Warner
Speedometer w/Resettable
Odometer, MT-S \$16.50

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

Adjustable to 6 Wheelbases
from 38" to 43". Fits track
to touring bikes

Oak Platform
Steps, for
safety & easy
mount/dismount.
Attaches easily to side rails.
Self-leveling legs. MT-P

**NOW ONLY
\$29.50 set**

PLASTIC DRUMS

\$89.90

MT-PR

UPPER
SPECIAL

w/Steps MT-PRP \$109.90

ALUMINUM DRUMS

\$139.90

MT-AR

SUPER
SPECIAL

w/Steps MT-ARP \$159.90

CHOICE OF 2 DRUMS

Plastic with Nylon End Caps

OR

Aluminum w/Nylon End Caps



1 YEAR
WARRANTY
SUPPLY
LIMITED

TO-FR

\$74.80

FOLDING

Rollers

Molded (not extruded)
Smooth Nylon Rollers

16" Wide

Tubular Steel Frame
Construction

Rubber
Base Pads

Precision Bearings

ORANGE Rollers and BLACK Frame

Infinite
Wheelbase
w/Allen
Adjustment

Recessed Single Belt Drive

TO-B Replacement Belts, \$6.50 each

No high side rails so there's no risk of trapping
your wheel between roller and rail.

we try to ship same day

Call Before 3:00pm - SPECIFY RUSH

rims

NOW MADE BY WOLBER

SUPER COMPETITION CHAMPION

clinchier rim



Super Champion Clincher Rim, 16mm inside width. Use with wide tires. Schrader valve hole. 36 Hole. Specify: 27" (530G) or 700c (560G).

WO-SCC-Z \$13.25 ea., \$24.90 pr.



New Super Champion "Gentlemen" Clincher Rims, 20mm wide, 27" (485.2G) or 700C (482.2G), silver, 36H. Presta Valve Hole

WO-SCG-Z \$12.80 ea., \$24.10 pr.



Record du Monde Tubular Rim, for light road and Criterium. Silver, 36H. Width: 19.5 Weight: 310G. 700C.

WO-SCR \$13.25 ea., \$24.10 pr.



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

WO-SCA-Z \$13.25 ea., \$24.10 pr.

LIMITED SUPPLY

RIGIDA



Rigida 13mm 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", Stan TS, and Roadlite Z. Only 13 mm inside width, double width, double wall construction for strength and the tube support.

Specify: 700c (430G) (Same as tubulars) or 27" (430G). Great when used with Wolber W'20' 700c.

RI-1320-Z \$12.50 ea., \$22.55 pr.



clinchier

RIGI-ALU Clincher Rim an alloy clincher with eyelets. Now with Presta valve holes. 36H.

Specify: 27" (520G) or 700c (540G)

RI-RA-Z \$11.50 ea., \$21.95 pr.

FIAMME red label

Fiamme Red Label Tubular Rim, 360G., 21mm wide, 36H, highly polished.

FI-R-H \$13.50 ea., \$25.25 pr.

Fiamme Gold Label Ergal Tubular Rim, super strong, superright "Ergal" composition, 290G., 20.4mm wide, satin finish, 28, 32, 36H.

FI-E-H \$20.20 ea., \$38.75 pr.

AMBROSIO



Tubular Rims, special alloy. Unusual dull grey finish due to heat treatment. 36H standard.

CA-AM-H Montreal (350G.) \$65.00pr.

CA-AS-H Synthesis (310G.) \$85.00 pr.

28Hole or 32Hole are SPECIAL ORDERED

NEW AMBROSIO CLINCHER RIMS, heat-treated. 410G. 36 Hole. Dull Grey finish. Specify: 27 x 1 or 700 x 25. CA-AC-Z 65.00pr.

ARAYA

AERODYNAMIC RIMS, Tubular and Clincher. Due to arrive in July. Call for availability. ABOUT \$40 pr. AY-ACT Tubular AY-ADC-Z Clincher

rim grommets

BW-RG 50¢ pr. 5 pr./\$2.00

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.



TUBULAR

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. \$1.80 roll (enough to do 1 pr.) 10 rolls/\$14.50

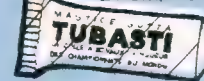


CLINCHER rim strip

For all rims

CP-RS 45¢ each

TUBULAR rim cement



Top quality Tubasti Sew-up Glue. TO-RC \$1.40 10/\$12.90

care



Tubular Rim Glue Remover, most cements are removed from rims in less than 10 minutes. Lower in toxicity. Removes decals in seconds. Removes tar from bicycle frames-harmless to most paints. Cleans rims and spokes-harmless to tires. Use paper towels for cleaning. Rated non-flammable. Comes with brush in the cap.

PC-GR \$3.75

tubulars

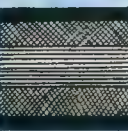
hutchinson

hutchinson - gommitalia spa



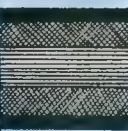
Sprint Articevaion, for touring. Self-sealing, heavy duty butyl tube. Pure cotton body, replaceable valve. 23mm. 330G. 85/100 P.S.I.

HT-SA \$15.50 ea. \$29.90 pr. \$144.50/5 prs.



Supersprint 280, touring & training. Butylite tube. Pure cotton body, 23mm. 280G. 85/100 P.S.I.

HT-SB \$13.50 ea. \$24.90 pr. \$119.50/5 prs.



GTX 80 Corsa, semi-pro racing. Latex tube is lighter & holds air longer than butyl. Fine cotton body. Replaceable valve. 23mm. 260G. 85/100 P.S.I.

HT-GL \$17.50 ea. \$33.90 pr. \$166.50/5 prs.

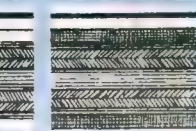


Cross TR, cross-country training and racing. Butylite tube. Pure cotton body. Replaceable valve. 26mm. 350G. 85/100 P.S.I.

HT-TR \$13.50 ea. \$24.80 pr. \$119.50/5 prs.

Valve Replacements-HT-VR 90¢ ea

NATIONAL



230G

270G, 300G

National Tubular Tires, butyl tube, nylon carcass.

Specify: 230, 270, 300G

CP-NT-Z \$16.20 ea. \$29.90 pr.

SPECIALIZED

Specialized Tubulars, 100% finest cotton. Two part Presta valve. Inner tube of Latex or Butyl. Highest quality natural rubber. Mixed tread pattern for optimum performance. All tubulars inflation tested.

Specialized 300/Butyl, SB-30B \$14.60 ea.

Specialized 270/Butyl, SB-27B \$16.25 ea.

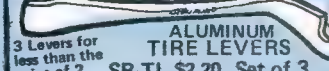
Specialized 240/Latex, SB-24L \$18.80 ea.

Specialized 220/Latex, SB-22L \$21.60 ea.

Valves are replaceable-HT-VR 90¢ ea.

All SBI Tubulars are inflation tested

SPECIALIZED



ALUMINUM TIRE LEVERS

SB-TL \$2.20 Set of 3

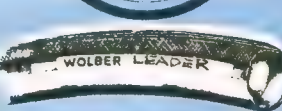
AFA Tire Levers, steel, set of 3

TO-TL 80¢



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 rubber tread is supported by an elastic rubber strip. Fitted with extra light pure gum tube. (270G) Small 24 mm section, translucent sidewalls. \$14.50 ea., \$27.90 pr., 5 pr./\$124.30



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. \$11.90 ea., \$21.50 pr., 5 pr./\$97.60



WO-TR "Toureiste Renforce" Great for years round hard use. Mixed tread (370G) butyl tube \$11.60 ea., \$20.90 pr., 5 pr./\$95.30



WO-NP "Neo Pro" vulcanized tubular with the advantages (weight, responsiveness) of a high-priced handmade tubular. (252 G), 22 mm section. \$16.40 ea., \$30.90 pr. 5 pr./\$142.80



THE MOST FLAT RESISTANT TIRE WE HAVE EVER SEEN

"INVULNERABLE" TUBULAR 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 la fine file tread. 280G.

WO-IT \$22.45 ea., \$44.20 pr. 5pr/\$198.50



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



CP-TGP Presta, \$3.90 ea.

CP-TGS Schrader, \$3.90 ea.



PRESSOGRAPHE Tire Pressure Gauge, for Presta tires only. Sturdy plastic construction with easy-to-read gauge. Record pressure in both lbs. per sq. in. (PSI) and in atmospheres (Barometric). Comes with a convenient carrying case. TO-PTP \$6.50

BIKE WARE

"Holly" Tire Sock and Utility Bag, superb stability due to a mounting system which secures the bag under the saddle and eliminates sway by wrapping a Velcro strap around the junction of the top tube and downtube. 3 zippered compartments keep your gear sorted and within easy access. Wrap-around zipper on the main compartment. Legs won't let the bag even on narrow racing saddles. Holds two tires, tools or other gear. Weight: 3 oz. Colors: Orange or Blue
BW-HC \$8.90

REG
 Spare Tubular Holder, clamps to the saddle rails & snaps together.
RG-STH \$2.50

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code
 □□-□□□□□□-□

When Ordering, you must provide all the information indicated by the last letter in the Stock Number. Explanations of the Info Code Letters are shown here.

C Color
 E Extension & Diameter (stems)
 F Fast & 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)
 V Threads & Teeth (freewheel)
 Z Size (seatpost, clothes, rims, tires, toe clips, bearings and width of handlebars)

SAVE YOUR GAS... let your mail do the shopping

VELOX

Tresse Fond Clincher Rim Strip, for narrow rims, adhesive backed for easy installation.
VE-TF \$2.00 set 10 sets/\$16.50

*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. **\$1.50 10/\$13.00**

floc kit

VE-FK Complete kit to repair the inner tubes of your clinchers. **\$1.60 5 PATCHES 10/\$15.00**

clincher & tubes

WOLBER

W"20" - The smallest and finest cotton cord clincher. Cotton is softer which is needed in such a high pressure tire (100lb psi). Only 1/4" (20 mm. section). Special Tube sold below. Both weigh only 340G. Works great with 13mm rims.
27" or 700C.
WO-2 Wolber "20" Tube only - Presta \$3.25 ea. \$5.90 pr.

WO-W2-Z \$7.90 ea., \$15.25 pr. (TIRE ONLY)

W"23" INVULNERABLE CLINCHER, A STEEL RADIAL FOR YOUR BIKE. All the technology used in the Invulnerable Tubular. Combined with the responsiveness of the W"20" Clincher. 465G. Cotton-Cord construction—We highly recommend this tire for flat free touring. 100PSI. Specify: 27 x 1 1/8 or 700c x 1 1/8

WO-23-Z \$17.95 ea. \$34.50 pr.
WO-23T Tube, designed for W"23" tires for a perfect fit. Presta. \$3.50 ea., \$5.95 pr.

NATIONAL

Touring Tire. a clincher tire designed for long life-perfect for the serious tourist. The special "S" groove provides better traction. Made of the finest materials, this gumwall lasts longer, has low rolling resistance, and offers improved cornering and braking. Sizes: 27x1-310G/100PSI, 27x1 1/8-450G/100PSI, 27x1 1/4-470G/90PSI, 700x28c-406G/90PSI, 700x25c-305G/100PSI

INNER TUBES

27x 1 or 700c x 1 (interchangeable). Specify: IN-SP Presta or IN-SS Schrader **\$3.25 ea., \$5.95 pr.**

27x 1 1/8 or 700c x 1 1/8 (interchangeable). Specify: IN-MP Presta or IN-MS Schrader **\$2.85 ea., \$5.15 pr.**

27x 1 1/4 or 700c x 1 (interchangeable). Specify: IN-LP Presta or IN-LS Schrader **\$2.75 ea., \$5.10 pr.**

26x 1 3/8, IN-T26 Schrader only **\$2.60 ea., \$4.90 pr.**

SPECIALIZED



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 or 700 x 28C. **\$15.60 pr.**

SB-TU-Z Specialized TURBO/S 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. **\$14.80 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. **\$14.25 ea.**

SB-UL-Z Specialized ULTRA LIGHT Tire, for General use, Sport riding to Racing. Steel bead. 95PSI. 225G. 27 x 1 or 700 x 25C. **\$10.25 ea.**



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.
CP-TS \$1.25 pr. 10 pr./\$11.50

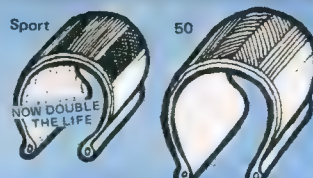
REMA



Clincher Patch Kit, with super thin patches with tapered star edges, glue, and plastic case.
SB-RM \$1.25 10/\$11.00



MICHELIN



MI-BS Bib Sport, 27 x 1 1/8, narrow ribbed tread, 300G, 90PSI. **\$6.20 ea., \$11.50 pr.**

MI-50 Michelin Fifty, 27 x 1 1/4, Chevron tread 480G/85PSI. **\$5.50 ea., \$10.25 pr.**

MI-T Translucent Clincher, 26 x 1 3/8. 22 tread. **\$4.85 ea., \$8.75 pr.**

MI-TS7 Elan Foldable Clincher, extra-narrow, Fiberglass bead, 90PSI, 185G., 700C only. **\$4.95 ea., \$8.90 pr.**

(Use the Sport Tube w/the Elan TS)

folding a clincher

- 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 TIRE/RIM COMPATABILITY

A: Recommended
B: Will Work
C: Dangerous

Specify 27" or 700C

		Super Champion Mavic Modular E Rigid 13x20	Gentlemen 13mm	Super Champion Mavic Modular 3 Rigid 16mm	(std. clincher)
Wolber W20	3/4" - 20C	A	C		
Specialized Turbo S IRC Roadlite Z IRC Handy Tour National RRE	1" - 25C	A	C		
Specialized Touring Specialized Touring Turbo IRC Super HP Gumwall Specialized Ultra Light Michelin Elan	1 1/8" - 28C	A	B		
Specialized Touring IRC HP Gumwall Michelin Fifty	1 1/4"	C	A		

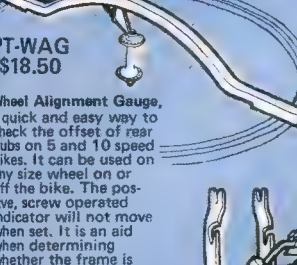
ALL TUBULAR TIRES FIT ALL TUBULAR RIMS

Park



Wheel Truing Stand, chrome-plated steel construction. Self-centering wheel dishing is automatic. Comes assembled.

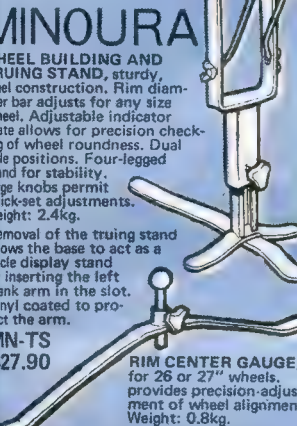
PT-TS \$139.50



Wheel Alignment Gauge, a quick and easy way to check the offset of rear hubs on 5 and 10 speed bikes. It can be used on any size wheel on or off the bike. The positive, screw operated indicator will not move when set. It is an aid when determining whether the frame is properly aligned.

PT-WAG \$18.50

MINOURA



WHEEL BUILDING AND TRUING STAND, sturdy steel construction. Rim diameter bar adjusts for any size wheel. Adjustable indicator plate allows for precision checking of wheel roundness. Dual axle positions. Four-legged stand for stability. Large knobs permit quick-set adjustments. Weight: 2.4kg.

Removal of the truing stand allows the base to act as a cycle display stand by inserting the left crank arm in the slot. Vinyl coated to protect the arm.

MM-TS \$27.90

RIM CENTER GAUGE, for 26 or 27" wheels, provides precision adjustment of wheel alignment. Weight: 0.8kg.

MN-RC \$13.80

U-Tru-It

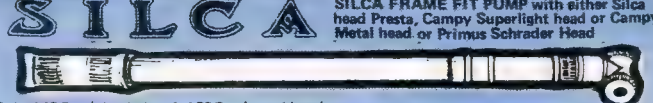


WHEEL TRUING KIT

Enables cyclists to true wheels simply and accurately without removing the tires or wheels. Clamp the unit to your fork for its truing reference. Adjust the caliper to accurately gauge rim drift. Adjust the spokes accordingly with the included spoke wrench. You're now ready to roll. Constructed of tough zinc-plated steel with a plastisol coating to protect your bike's finish. The kit is complete, lightweight, compact and portable. Comes complete w/ instructions.

UT-WT \$7.90

SILCA



SILCA FRAME FIT PUMP with either Silca head Presta, Campy Superlight head or Campy Metal head or Primus Schrader Head

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





Silca head
Chrome plastic

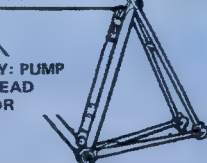
Campy SL
Chrome plastic

Campy Metal
Note: Metal pump heads fit 1/2" larger frames

Presta or Schrader (Primus Head)



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
42	16 1/2-17 1/2	19-20
44	17 1/2-18 1/2	20-21
46	18 1/2-19 1/2	21-22
48	19 1/2-20 1/2	22-23
50	20 1/2-21 1/2	23-24
52	21 1/2-22 1/2	24-25
54	22 1/2-23 1/2	25-26

Colors: Blue, Black, Silver, White, Red

SI-PS-K \$9.80 w/Silca Head

SI-PSL-K \$12.20 w/Campy SL

SI-PCM-K \$14.70 w/Campy Metal

SI-P-K \$8.50 without head

SI-SCH-K \$12.20 w/Primus Schrader

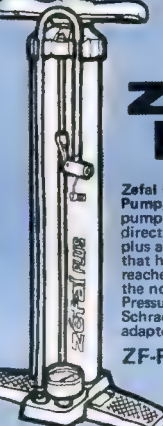
zéfal hp



FITS SCHRADER AND PRESTA

"High Pressure" The only pump with a thumb lock—no leaks or difficult holding. Satin anodized aluminum body, black plastic grip, fits frame and incl. clip for handle. Fits all down tubes, top tubes on frames 20" and over and seat tubes on frames 21" and over. 203.5G. **ZF-HP \$11.90**

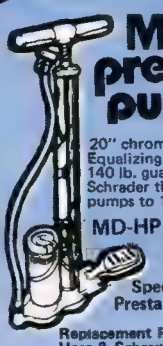
zéfal PLUS



Zéfal Plus High Pressure Pump, two chambers, each pump in the opposite direction. This feature, plus a large capacity means that high pressure is reached in less than half the normal strokes. Pressure gauge. Comes Schrader with a Presta adaptor included. 4.4 lbs.

ZF-P \$36.70

MDI high pressure pump



Made in Japan by Meidai

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

MD-HP \$15.00

Special Rubber-Sealed Presta Adaptor- MD-PA \$2.25

Replacement Fitting Hose & Schrader head (hose can also be used with Presta Head). MD-RH \$2.25



Schrader Presta

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 adapter may be used on a presta valve to fit a schrader pump.

STOCK NUMBERS

Supplier (2) Product (0-5) Info Code

□□-□□□□□□

WHEN ORDERING, you must provide all the information indicated by the last letter in the STOCK NUMBER. Explanations of the Info Code Letters are shown here.

- C Color
- 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 (searpost, clothes, rims, tires, toe clips, bearings and width of handlebars)

Pange Levin



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

TN-LH \$9.90

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

TN-CF-Z \$39.80

AVOCET



Cutaway of the Model III shows how each cylindrical roller-bearing provides a full line of support.

Cutaway of a standard headset with ball bearings providing only one contact point on any given race.

Model III Sealed Headset, a new design in sealed bearings allows the bearing to simultaneously withstand the heavy radial and lateral loads which headsets receive. The Model III's sealed, cylindrical roller-bearings are an advantage over standard ball bearings through increased area contact. This feature makes the Model III Headset much stronger than any other. Installation of this lightweight aluminum headset is simple and maintenance is a thing of the past. Anodized silver finish. 145G. Guaranteed for the life of the bike if properly installed. Specify: English, French or Italian.

AV-SH-T \$59.85

BIKE WARE 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 \$8.95

valve adapt



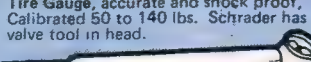
Adapts Presta to Schrader. BRASS TO-VA 35¢

CP-TGP Presta

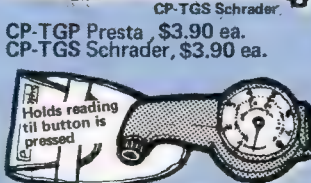


Tire Gauge, accurate and shock proof, Calibrated 50 to 140 lbs. Schrader has valve tool in head.

CP-TGS Schrader



CP-TGP Presta, \$3.90 ea. CP-TGS Schrader, \$3.90 ea.



Holds reading til button is pressed

PRESSOGRAPHE Tire Pressure Gauge, for Presta tires only. Sturdy plastic construction with easy-to-read gauge. Records pressure in both lbs. per sq. in. (PSI) and in atmospheres (Barometric). Comes with a convenient carrying case.

TO-PTP \$6.50

BIKE WARE SPROCKET TOOL

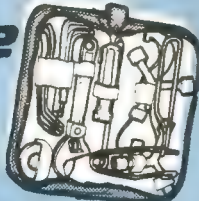


Change or assemble your own sprockets with our all-new sprocket tool. Now factory-machined, the sprocket tool comes complete with easy-to-follow instructions; cut-away illustrations showing the different types of design and assembly; and a really helpful sprocket tooth-counting chart that lets you determine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

BW-ST \$3.75 ea. BW-2ST \$6.95 pr.

Cycle pro



CP-DTK
\$19.90

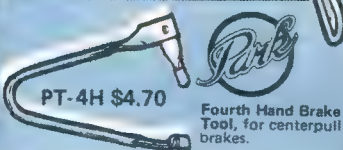
Cycle Pro Deluxe Tool Kit. Includes: Third Hand brake tool; Open-end Spanner; 8-way Spoke Wrench; 3 Allen Keys 5.6, 7mm; Tire Irons(2); Screwdriver; Crescent Wrench; 2 Hand-size Wrenches-8.9, 10mm/11, 13, 14mm; Everything comes in a black vinyl zippered case.

3rd hand brake tool

3rd Hand Brake Adjusting Tool, places tension on brake arms, holding pads to rims while you adjust cable slack. Essential for proper brake work.



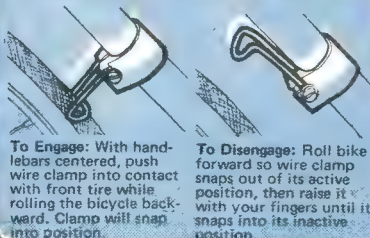
DC-3H \$1.10



Fourth Hand Brake Tool, for centerpull brakes.

Flickstand

Keeps it leaning. Prevents damaging falls.



To Engage: With handlebars 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.

Cone wrench set



2-Piece Cone Wrench Set,
13/14mm and 15/16mm
FE-CWS \$2.50



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.

BI-C-Z \$2.10 ea. 13/14mm 15/16mm 14/17mm

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

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

FE-AW
\$1.25

50¢
EACH

ALLEN HEX WRENCHES, (mm)

Specify: FE-2, FE-2.5, FE-3, FE-4, FE-5, FE-6, FE-7

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



Simple in itself, once engaged it turns a bicycle into a rigid panel so it can be leaned against any stationary object. No more turning front tire to make the bike unstable and possibly fall causing dents & scratches. The plastic mount is moulded in super-tough Dupont ZytelST, a non-abrasive, non-corrosive material. The hardware is stainless steel and nickel-plated brass. Weight: 26G.

- Fingertip operation
- Easy screwdriver installation
- Supports heavily loaded bicycles
- Use with or w/out kickstand

RH-FS \$4.24 ea.

tools



Universal Adjustable cup Spanner, AA-UCS \$5.50

Extra Pins-
AA-EP
\$1.75 pr.



Artisan Crank Bolt Socket Wrench, Specify: AA-CB-14, 14mm for DA, SR, Nerve, Maxy, Apex- \$2.80
AA-CB-15, 15mm for Campy, Sugino, Mighty, TA- \$2.80
AA-CB-16, 16mm for Zeus, Stronglites- \$2.80



Adjustable Cup Spanner, fits Campy, DA, Sugino and 30mm Headset. AA-ACS \$7.80
Extra Pins- AA-EP \$1.75 pr.



Fixed Cup Remover on one end fits Campy, DA, Sugino, etc. 15mm Pedal Wrench on other end. AA-FCR \$6.80



Lock Ring Spanner, fits all notched lock rings and 30mm Headset. AA-1LR \$6.50
Campy 3-Prong, AA-3LR \$6.60

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

RELIANT bearings

RT-B-Z
80¢
per bag

Reliant Ball Bearings, the finest chrome steel balls, polybagged. Specify Size or Use. Sizes: 1/8", 5/32", 3/16", 1/4"

Bearing Use

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

PERSONS NO. 8 Display/Tuning Stand

Nothing to adjust, slips under bike. Plastic cover protects downtube. Chrome plated with rubber tipped legs.

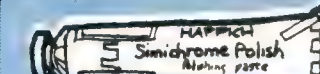
PM-NB \$4.50 ea.
3/\$11.00
B/\$20.00



Gold seal grease, high-grade waterproof bicycle grease especially prepared for: head bearings, hubs, forks, cranks, & pedals. Protects against wear and corrosion. 2 oz. tube only PA-GS 75¢ ea., 12/\$8.



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. PA-P51 85¢ ea. 3/\$2.40
No water needed. 12/\$8.40



Simichrome polishing paste great for buffing aluminum and chrome. Also can be used to polish bearing races, 2oz.

CP-SCP \$2.75



Product 1900 Clear Corrosion Preventive Compound, outstanding moisture displacing properties including sea water. Provides maximum resistance to corrosion in the severest environments. Dries to a clear, tough, flexible film-won't collect dust or dirt. Meets the most stringent specifications. Not intended for use on moving parts which require a lubricated surface.

PC-CC \$6.75 5 1/2 oz. Can

300 Synthetic Lubricant, contains no petroleum, petroleum distillates, wax, silicones, graphite or molybdenum disulfide. Will not draw dust, dirt or moisture. Penetrates metal pores. Less need be used. Stops rust. Makes an excellent chain lube. Moving parts become highly polished. Rated non-flammable. PC-SL \$3.75

Motion Fluid 60, multi-purpose lubricant. Penetrates better. Also cleans, displaces moisture, and prevents corrosion. Effective on all moving parts of a bicycle. Never becomes dry, brittle or hard. Eliminates squeaks, frees up locked cables. Rated non-flammable. PC-M60 \$3.75

Tubular Rim Glue Remover, most cements are removed from rims in less than 10 minutes. Lower in toxicity. Removes decals in seconds. Removes tar from bicycle frames-harmless to most paints. Cleans rims and spokes-harmless to tires. Use paper towels for cleaning. Rated non-flammable. Comes with brush in the cap. PC-GR \$3.75

Petrochem SPCK, Spark Plug Contact & Chain Clean, Effectively cleans all metals fast and easy. Great for cleaning those grimy bicycle chains. Rapid evaporation. No after deposits. Non-conductive. Non-flammable. Also cleans plugs, distributors, contact point, etc. PC-SPC \$3.70

Convert-A-Porter

2 BIKE
MODEL

AG-1001
\$58.95

ARMS NOW
FOLD DOWN

new

AG-4B
\$95.95

4 BIKE
(with Add-on Kit)

Convert-A-Porter, the redesigned Bike Porter is today's finest and most versatile carrier. Easy loading and unloading. Vinyl-coated quick Clamps secure bike to uprights and are removable to prevent theft.

Fold-Down Upright Arms facilitate carrying luggage, etc., and for entering garages.

New Mounting System installs on roofs or rear trunks. No-stretch all-steel tie-downs hold carrier secure. The New Leg Support System gives a choice of width-spacing in order to place the large rubber padded legs over the stronger support section of the car. The legs can also be length-adjusted to fit shorter trunks. (4 Bike Model has 4 extra Padded Legs).

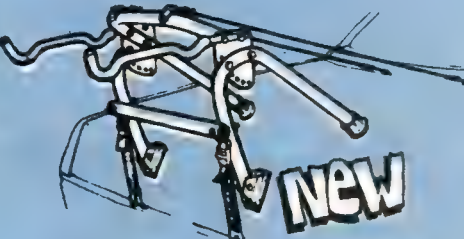
Bikes ride cushioned by their own tires in the New Wheel Channels with their slip-down design to grip both narrow and wide tires. The channels also have adjustable Slide Wheel Securing Straps permanently mounted to the tracks to accommodate any size wheelbase.

AG-1001 Two-Bike Model, 22lbs., \$58.95
AG-1002 Four-Bike Add-on Kit, 10lbs., \$38.95
AG-4B Both the above, \$95.95.
AG-ET Extra Track Sections, \$12.95 ea.

BIKE-PORTER



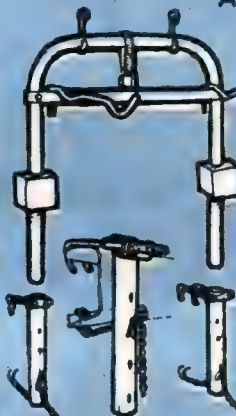
Meets National Highway Traffic Safety Admin. Standards
AMERICA'S BEST "NO-SCRATCH" "EASY-LOAD" RACKS



new

Adjust-A-Porter III, the best of the trunk-mounted carriers is now improved. The solid steel vinyl-coated arms are formed to protect & nest each bike in one confined spot. Exclusive adjusting plate allows quick leveling of support arms. Arms can be adjusted to a level position on any type car trunk. Newly designed "Big-Foot" adjustable rubber feet spread the carrier load over 20 times more car surface to resist surface denting. Components are pre-assemble for easy installation.

AG-AP3 \$24.90

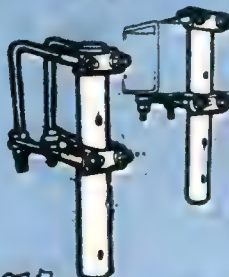


new

Bac-Rac-Plus III Bumper Carrier, comes with flush-mounted universal bumper brackets which can be left on the car even when not being used. Flush design allows clearance for opening trunk lid. Carrier is quickly removed from brackets. Comes complete with 2 Protect-O-Pads and 2 wall storage hooks on which to hang carrier when not in use.

Carrier can double as a wall hanger for 2 bikes. Plastic-coated arms fold away when bikes are not loaded. Made of 1 1/8" plated tubular steel. Comes pre-assembled.

AG-BR3 \$19.25



new

R.V. Flush Mount Bumper Bracket Kit, use with Bac-Rac-Plus III Carrier. For use on recreational vehicles & other unusually shaped bumpers.

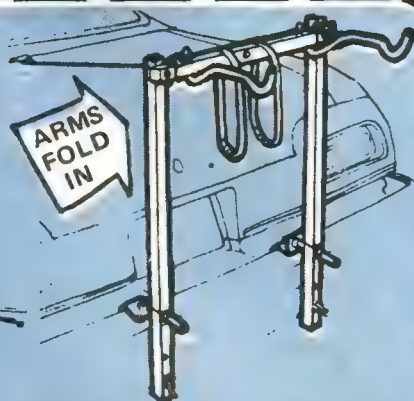
AG-RV \$10.25

new



NEW Ski Rack Kit, is easily added to the "Convert-A-Porter" carrier and is capable of carrying 2 pairs of skis. 2 Ski Kits can be added to the 4-Bike model for a carrying capacity of 4 pairs of skis. 5 lbs.

AG-2001 Ski Rack Kit, \$29.95 pr.



ARMS
FOLD
IN

"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-1074 \$12.95



Protect-o-Pads, made of a square protective pad of thick, resilient, spongy urethane. A built-in "snap-on-slot" locks onto handlebars, frames, pedals, etc. to keep it from contacting other surfaces. Can also be used on car roof as carrier pads for hauling ladder, poles etc. Eliminates need for blanket padding. Comes 4 to a package.

AG-PP \$3.50 set



"WALL HUGGER" BIKE HANGER

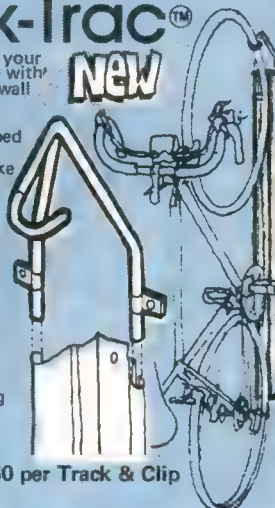
Bike Storage Hooks for wall installation

AG-WH \$2.90 pr.

Bik-Trac™

new

Bik-Trac, "Trac your bike—save space with this permanent wall mount. Black polyester "Bik-Tracs" are stepped to receive any size tire. The bike rests slightly on its rear tire on the floor, while the front tire is secured to the trac with the exclusive Adjustable Wheel Hooks w/protective plastic sleeve. Adjust hooks to size of bike then lock hooks w/locking clip. Mounting hardware is not included.



AG-BT \$17.50 per Track & Clip



Belt Beacon M38 Touring.
Offers the biker a distinct safety advantage. Beacon has been upgraded with carefully selected transistors, special signal lamp and an optimized solid state oscillator which conserves battery up to 100 times longer than a continuous 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 framel-type lens which magnifies the flash. Flash is also visible from the sides. Approx. weight: 3 1/2 oz. w/battery, 3 1/4" dia. x 2 1/4" U.S.A. Either 40 or 60 Flashes per minute (Specify). Comes with an extra bulb. \$11.95 Value

AM-B40 40 flash, \$9.95 No Battery Incl.
AM-EB Eveready Battery Twin-Pak, \$1.25

AM-B60 60 flash, \$9.95 Battery Below
AM-AB Alkaline Battery, \$1.75 ea.

headlight or taillight

White weather and impact proof plastic, no corrosion, no rust. Lightweight, easily removable. Meets all safety requirements. Battery incl. Taillight is same as above but w/red plastic case & red lens. Specify.

Head WL-HL \$5.25
Taillight WL-TL \$5.25

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

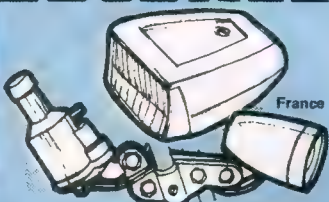


leg & arm light

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 Taiwan

CP-LL \$1.85

SOUBITEZ



HEADLIGHT MOUNTS TO BRAKE BOLT

Featherweight Generator Light Set, 312G, black headlamp with black taillight and generator.

SO-G \$10.90



BEREC
HEADLIGHT, durable, impact-resistant plastic case. 3" Lens/Reflector. Mounts on handlebars or front fork. Mounting hardware included. Uses 2 'D' batteries. (Re-chargeable 'D' cells available locally). Made in England.

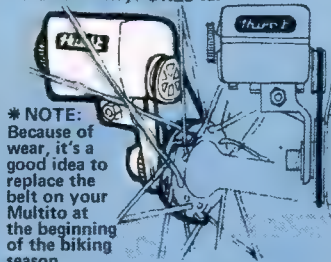
CP-BHL \$8.95

Huret Multito CYCLOMETER

Silent-Running Belt Drive with 2 Odometers - zeroing re-set button trip meter & cumulative total dial. Fits almost all hubs mounts on QR hubs, 26", 27" or 700c wheels. Remains affixed to wheel when the wheel is removed from fork. 65.6G.

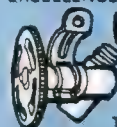
HU-M \$9.40, 10/\$85.00

* HU-MB Belts - \$1.25 ea., 10/\$9.50
HU-MP Pulleys - \$1.25 ea.



* NOTE: Because of wear, it's a good idea to replace the belt on your Multito at the beginning of the biking season.

SW EXCELLENCE

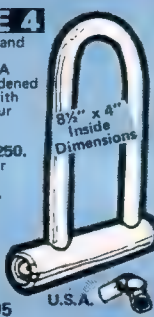


Stewart Warner Touring Speedometer with reset trip odometer. Fits all sizes of bikes including those with quick-release wheels. Wheel drives off the tire sidewall. To 50 mph, 99.9 mi. U.S.A. SW-SP \$10.95

KRYPTONITE 4

K4, Kryptonite's newest and toughest lock, combines simplicity with security. A double-locking, fully hardened shackle and bar coated with thick vinyl to protect your bikes' finish. Kryptonite guarantees your bike against theft for up to \$250. Black, includes 2 cylinder type keys. All for less than an insurance policy. KR-4 \$27.95

Lock Carrying Bracket - durable, holds lock securely in place when not in use. KR-CB \$1.95



cablecraft

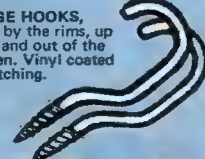
Security Cable and Lock, multi-purpose self-coiling 6ft. cable, 5/16" diameter, 44mm key lock with hardened shackles and brass cylinders. Cable Model 30450

CF-S \$5.50



BIKE STORAGE HOOKS, hang your bike by the rims, up out of the way and out of the reach of children. Vinyl coated to prevent scratching. 1/4" thick.

AG-SH 2 for \$1.35



HALT!

Just the thing to curb dogs. Works up to 10 feet away. Clips on belt or fob bag.

Large Size, AR-H \$2.60 ea. U.S.A. 5/\$9.00

CANNOT BE SHIPPED OUT OF THE COUNTRY



AR-C \$1.40

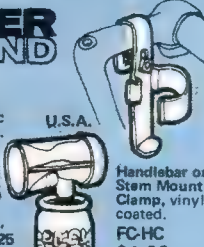
Halt Clip, of lightweight plastic attaches to handlebars. Holds Halt secure within quick and easy reach.

SUPER SOUND

Bike Air Horn, extremely loud. For use in traffic and against dogs. Lightweight plastic. Up to 200 blasts.

FC-SS \$4.25

Refills, pack of 2, FC-R \$4.25

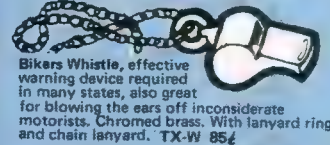


U.S.A.

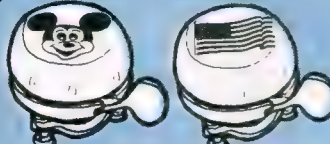
FC-HC \$1.90

Handlebar or Stem Mount Clamp, vinyl coated.

Also works with HALT



Bikers Whistle, effective warning device required in many states, also great for blowing the ears off inconsiderate motorists. Chromed brass. With lanyard ring and chain lanyard. TX-W 85¢



Bicycle Handlebar Bells, a relatively polite method of warning others of your approach. CP-MMB Mickey Mouse Bell, \$1.49 CP-FB American Flag Bell, \$1.49

Citadel BIKE SECURITY LOCKS

Hand-polished solid brass. 3 1/2" x 2 1/8" A SUPER 1/4" THICK BUCKLE



BT-B \$4.95 \$7.95 Value U.S.A.

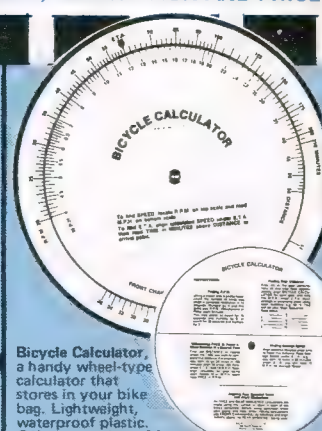


WL-V 80¢ 10/\$6.90

velcro trouser BANDS Rainbow-colored. Velcro closure holds secure. Bands match suspenders. U.S.A.

CP-CC 59¢ pr.

cuff clips For most comfortable fit, clips should be worn with the opening at the front of the ankle. A common mistake is to have the opening in the back, which can cause uncomfortable pressure on the front of the ankle bone.

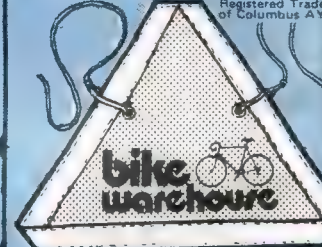


Bicycle Calculator, a handy wheel-type calculator that stores in your bike bag. Lightweight, waterproof plastic. Offers a number of functions useful to both the avid and occasional cyclist: Figures time & distance problems. Determines PACE (to travel a given distance in a desired time). Finds average speed as well as speed from R.P.M.'s. Calculates your estimated time of arrival. Determines gear sequences. 6 1/4" diameter. Instructions printed on back. U.S.A. \$6.50 Value BC-BC \$4.95

Cycle pro

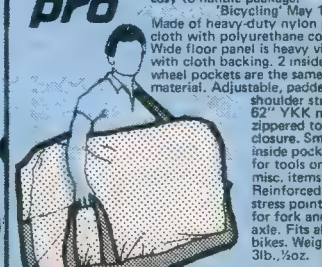
Portable AM Bike Radio, solid state, high sensitivity. Separate controls for volume and tuning. Sturdy plastic case. With the carrying handle it also makes a great away-from-the-bike portable radio. Radio slides off handlebar mount. Includes 2 AA batteries. Silver. CP-AM \$11.95 \$13.95 Value

Fanny Bumper



Fanny Bumper, lets motorists behind you know you're there. High visibility fluorescent orange nylon is perforated for ventilation. Reflective triangle border is stitched around the edges. Side stiffeners sewn in between the nylon and border keeps the fanny bumper flat. 2 metal grommets hold the tie string, which is included, and keep the nylon material from stretching or tearing. Bike Warehouse logo is printed on the front. BW-FB \$3.95

Cycle pro



Bicycle Travel Bag, "The Cycle Pro bag rewards the cyclist who wants to pack a bike more easily with a more compact & easy-to-handle package." "Bicycling" May 1981 Made of heavy-duty nylon, poly cloth with polyurethane coat. Wide floor panel is heavy vinyl with cloth backing. 2 inside cloth pockets are the same material. Adjustable, padded shoulder strap. 62" YKK nylon zipper top closure. Small inside pocket for tools or misc. items. Reinforced at stress points for fork and axle. Fits all bikes. Weight 3lb., 1/2 oz.

CP-BTB \$47.95 \$55.00 Value



PRO COMPE TANDEM FREEWHEELS

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

SB-PT-T
\$11.50

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



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

Specify:
Gear (not required if 14T is used)
Low Gear, Lowgear (2 required)

SR
SR-ARH
\$7.50



SR-ARH All-Rounder Handlebars, light alloy, for use as the tandem rear handlebars. 22mm center bulge. Diameter: 22.2mm. Bore: 48mm. Width: 508mm. Weight: 180G

WESCON
ULTRA-GLIDE HOUSING

*Standard diameter for universal fit.
*Attractive color vinyl cover.
*Smooth, efficient Polyethylene Liner.
*Flexible for easy routing. 25' lengths.

TANDEM CABLES

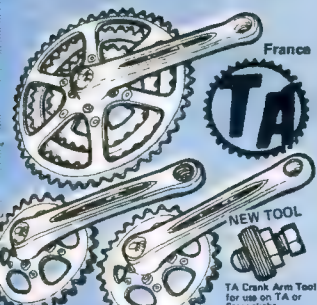
SB-TC-D Derailleur, 110" \$2.50
SB-TC-B Brake, 110" \$2.50

PIVO

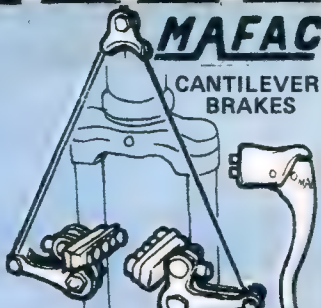


Tandem Rear Handlebar Stem, w/hex nut binder bolt.
SB-PV \$9.50

Allen Bolts, 27mm
KK-SPB \$2.35 ea. (extra)



TA-CR-T Chainrings: 26-35, \$7.90
36-48, \$14.90
49-54, \$17.20
56T, \$18.40
58T, \$21.80
60T, \$24.73
62T, \$26.60
65, 66, 68, \$42.50
70T, \$80.00
Specify: Inner (Middle) or Outer Chainrings



MAFAC
CANTILEVER
BRAKES

Mafac Cantilever Brake Set, with Dual Cable Lever (no rubber hood on lever).

MF-CB \$19.00

Mafac Dual Cable Levers, MF-DL \$9.25 ea.

SHIMANO



Includes Steel 36H Hub.

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-Energizing 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. SH-DB \$39.95

600 Cantilever Brakes, 338G., light alloy brake with steel braze-on mounting shaft. All Allen bolts.
SH-CB



DC-DL Gran Compe Levers, \$10.80 ea.



Campagnolo Triple Tandem Crankset, with crossover drive, 42T bottom, any other 2 chainrings, 170mm crankarms. Choice of 8.8.

CA-TTC-V \$482.95

Metz Chainring, 32T, can be used for Campy 36T. SB-MC32 \$32.31



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 the recipient's name and address and how much you want to send (include your Credit Card Number and Expiration Date). We will send a catalog and the Certificate to the recipient on your behalf.

SAVE YOUR GAS... let YOUR mail do the shopping

GUARANTEED LOWEST PRICES

If any IN-STOCK ITEM is sold for less in any current national catalog or publication, we will sell that item for 5¢ under their price. IDENTIFY ITEM AND PUBLICATION.

BIKE CAMPING

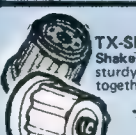


Silva Polaris Type 7 Compass - the most popular model for biking. Transparent plastic housing & base for easy map reading. Jeweled needle bearing, liquid filled needle housing for extreme accuracy. Base features inch and millimeter scale. SK-T7 \$8.70

Silva Type 23 Compass, a super compact model for convenient multipurpose use. Pin-on design allows biker 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 balac degree ring. Liquid filled & transparent for map use. Base plate folds over for use as a sun watch. 3/4oz., 2" x 1 1/2" closed. SK-23 \$13.80

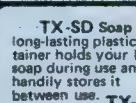


Cooking on the Road, a complete guide to one-burner cooking. Covers the specially prepackaged foods as well as unconventional places to find foodstuffs. Ten chapters of recipes cover breakfast, lunch, dinner, snacks and vegetarian cooking. By John Rakowski. 1980. 202 pg. BO-CR \$4.85



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

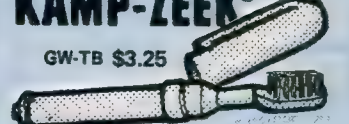
TX-SP 45¢



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

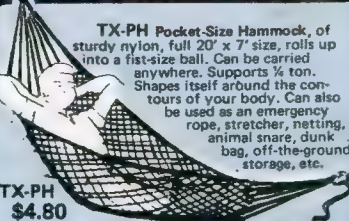
TX-SD 35¢

KAMP-ZEEK®



GW-TB \$3.25

GW-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.



TX-PH \$4.80

TX-PH Pocket-Size Hammock, of sturdy nylon, full 20" x 7" size, rolls up into a fist-size ball. Can be carried anywhere. Supports 1/2 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.

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.

\$1.90 ea., any 2/\$3.70

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.



Paket Pocket Soap, a pure white, biodegradable soap. Mild for hands and face, also for shaving. No-leak, reclosable, floating tube. 50 to 60 washings. 21.3G. PA-PS 2 for 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.

GW-MS 70¢

GW-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.

GW-WS \$4.25

BIKE
RAKEponcho
BW-P \$17.75

Complete with Stuff Sack

LARGER One Size Fits All

Wide 1" Elastic Collar with 7 Hood Snaps

Wrap-around Front with Velcro Closure to protect neck

Open on the sides for arm use and ventilation

Double-Snap Closures for Riding

Double-stitch French Seams

Reinforced Elastic Thumb Loops hold the poncho forward over handlebars keeping hands dry

Poncho comes with matching Urethane-coated Stuff Sack - Fits in any bottle cage

NEW



Booties, keep your feet dry on wet days-warm on chilly days. Yellow Urethane-coated nylon. Elasticized ankle. Full-length rear C&C zipper w/rain flap. Reinforced stitching throughout. Nylon reinforced vinyl sole. Sizes: XS,S,M,L BW-BO \$8.95

rain
chaps

Yellow Urethane-coated Nylon. These chaps are cool because there is no material above the thighs. Elastic Belt or Leg Loops enable chaps to be used even if you have no belt loops. Cuff Snaps. One Size Fits All. Matches the Bikeware Poncho. BW-CH \$6.75

CAN BE CUT FOR CLEATS

Pak Foam Products



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 \$8.50

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 \$10.75



Silver lining, sleeping bag liner. This unusual non-woven nylon fabric only 3 ounces, light as air. Compact, can't mildew. Gossamer smooth and pleasant to tie in. It can be machine washed, machine dried. 36 x 80 inches. Breathable non-flammable. PF-SL \$3.95

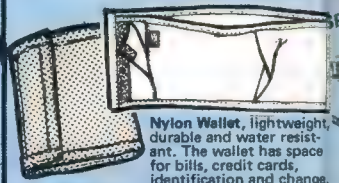
Quality Stuff Saks, carry and store, stuff saks keep your things dry. Or they keep wet things (towels, bathing suits, etc.) away from what should not get wet. Stuff Sak is made of tough urethane coated nylon. Its one-piece construction is water-proof. At the opening a large cover flap and strong square-braided nylon tie cord are sewn-in. A built-in bottom grip makes handling easy. 6 sizes. PF-SS-Z

8x5" \$1.65
11x6" \$1.88
15x7" \$2.20
18x8" \$2.90
21x10" \$3.75
24x12" \$4.20

SAVE YOUR
CAS...let your
mail do
the shopping

Space Blanket, 50" x 82" w/ grommets, brand developed for U.S. space program, reflects heat. Use for tent, ground cover, blanket, 12oz. multi layer

TX-SB \$8.25



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 \$6.25

Outdoor
Products

ENSOLITE, economy-minded, superlight close cell polyethylene foam that offers excellent heat and insulating qualities. Non-moisture absorbant. Flexible at low temperatures. 12 oz. 21" x 56" x 3/8"

OP-ES \$7.75



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. Comes loaded with candle GW-CL \$10.85

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

S.S. Messware, knife, fork & spoon in case LJ-SSM \$1.60

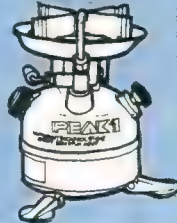
G.I. Folding Can Opener, fits key chain, LJ-GI 33¢



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 used. 2.5 oz. TX-SC \$1.80

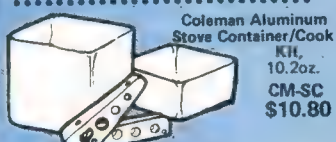
Waterproof Matchbox, rustproof metal, airtight rubber seal keeps matches dry and safe. Convenient striking surface. TX-WP 59¢

PEAK 1

NEW LIGHTER
DESIGN

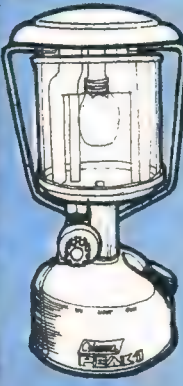
Bike Packing Stove, fold out legs, no priming, quiet, wind resistant, fully adjustable. White gas boils 1 qt. of water in 3 min. 45 sec. Wide open burn time of 1 hr. 15 min., simmer time of 3 hrs. 30 min. Fuel capacity: 10 fl. oz. Weight w/full fuel: 39.5 oz. Dry weight: 28.5 oz. 6 1/16" x 4 5/8" BTU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

CM-S \$33.80



Coleman Aluminum Stove Container/Cook Kit, 10.2oz. CM-SC \$10.80

Nylon Ditty Bags, rubberized interior. TX-ND \$1.30



CM-L \$34.80

NEW

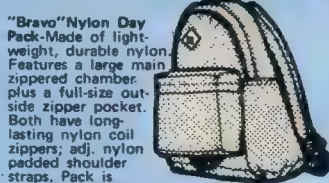
Coleman Peak 1 Lantern, compact, full 360° of steady, brilliant light, for up to 3 hours per fuel filling. Wind and weather resistant, won't flicker or blow out. The "Easy-Lite" Control is the easiest on a gasoline lantern - just turn to "light" then "on". There's a control position that automatically cleans the fuel tip to prevent clogging.

Specifications: Weight w/full fuel: 38.0 oz.; Fuel Capacity: 8 fl. oz. Size: 9 1/2" H x 4 3/16" Input Rating: 125 Candle Power; Burning Time (full open): 3 Hours

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



"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

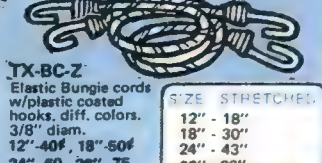
nylon ditty
bags

10" x 12" waterproof nylon. Flat bottom, self-securing drawstring top. Convenient for isolating different items and creating more useful space. TX-ND \$1.30

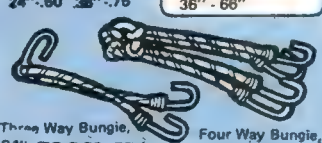


Fuel Flask, sturdy, durable aluminum fuel bottle. Designed to store and transport in the outdoors fuel for stoves, lanterns, heaters, etc. Informative plastic wrap surrounds the flask. 22 fl. oz. Made in USA. MS-FF \$3.99

bungee cords



TX-BC-Z Elastic Bungee cords w/plastic coated hooks, diff. colors. 3/8" diam. 12"-40", 18"-60", 24"-60 26"-76

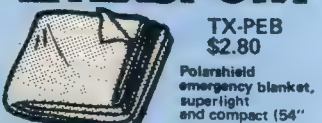


Three Way Bungee, 24" TO-BC3 75¢ Four Way Bungee, 2/20" TO-BC4 95¢



5-Pc Mess Kit-Aluminum, includes a pot w/ lid, plate, cup and frypan. All fit together into one compact unit. MR-MK \$5.20

TEXSPORT



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. TX-PEB \$2.80

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

bike warehouse



Sleeping
Bags by
COLD
RIVER

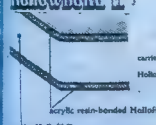


Transamerican II, triple-layer construction (B) in its top and foot sections and double-layer offset quilting (A) on the bottom. Differentially cut shells allow maximum loft. Integral zipper draft baffle. Nylon coil YKK zipper. The sandwich layer in the top and foot is an extra-thick layer of Hollibond 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

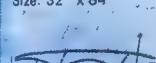
SPECIFY LEFT OR RIGHT

Hollibond II



rigid Hollibond II

Bluegrass II, ideal moderate temperature (400F and above) bag. Top and bottom is a quilted layer of Hollifil II covered with an additional layer of nylon. Nylon coil YKK zipper. Zips completely around the foot and opens to become a comforter. The mummy hood is Velcro fastened and is drawn up with a drawcord and cordlock. Sewn-through weather baffle keeps drafts from entering through zipper. Weight: 3 1/2 lbs. Size: 32" x 84"



current fabric Hollifil II nylon



CR-BG \$47.95 ea.



Blue Spruce, both the outershell and inside liner are made of nylon. Continuity full length aluminum zipper. Filled with 3lbs. of Solar Lock Polyester. Finished Size: 33" x 75" **WASHABLE.**

CR-BSB \$29.95



Eureka!

NOW 1 YEAR FULL WARRANTY.

Eureka Quality Tents - 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, steel stakes and guylines.

All but the Mt. Marcy & Nu-Lite include flys.



BEST BUY

NO COLOR CHOICE

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"

EU-6DM \$135.00



BEST BUY

NO COLOR CHOICE

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"

EU-DM \$104.00

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

NEW Lower Prices BEST BUY

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 42", 7lb. 14oz. \$99.50
4-Man, 7'2" x 8'9" x 58", 9lb. 14oz. \$139.50
Base Camp, 8'6" x 10'3" x 75" H, 17lb. 10oz., \$242.00

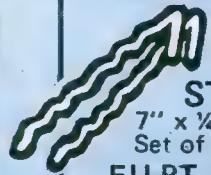
COLORS: 2 & 4 Man - Green/Sandstone or Caramel/Sandstone
Base Camp - Sandstone/Brown/Tan

EU-TLV-Z 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.

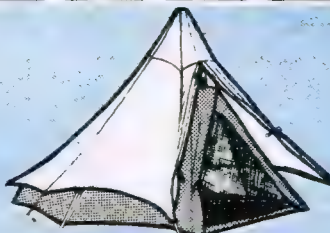
2-Man, 10 1/2 sq. ft., 1 lb., \$27.00
4-Man, 14 sq. ft., 1 lb. 5 oz., \$35.00



NYLON ROPE
50 ft., 500lb. test
TX-NR 88¢



TENT STAKES
7" x 1/4", steel
Set of 6
EU-PT 80¢ set



EU-BC Back Country, the ideal choice for one who demands a light tent with plenty of shoulder and head room. The large netted door is now in the front for easy access. The new fly attaches directly to the tent by 2 web and snap assemblies; then a single web and buckle assembly on each corner of the fly guys out both the tent and fly together. Larger roof vent for better ventilation. Wrap-around floor and the fly are made of 1.9oz. K-Kote FR ripstop. Roof cloth is 1.9oz. breathable ripstop. Height: 54" (front) Weight: 5lbs. 12oz.

COLOR: Caramel/Sandstone/Tan with Caramel fly \$116.80



NO COLOR CHOICE

Nu-Lite - Eureka's most economical 2-man tent. Lightweight with storm door, 3-way zippered mosquito-net door and side pullouts for added space. Made of flame retardant taffete nylon in assorted colors (no color choice). No fly. Fold size: 6" dia., 17" long. 5' x 7'4", 4lb. 10 oz **EU-NL \$48.00**

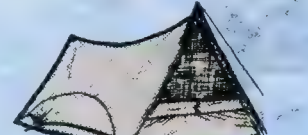


EU-SA COLOR: Green/Sandstone
Sarane, accommodates two with room for gear in the front vestibule. A-frame door. 5' x 10' x 42" (front). 6lb. 4oz. \$98.00



EU-CS-Z COLOR: Green/Sandstone
Catskill, Eureka's answer for the price-conscious biker.
2-Man, 5' x 7' x 42", 6lbs. \$83.00
3-Man, 6' x 8' x 57", 8lbs. 9oz. \$118.00
4-Man, 7' x 8' x 72", 10lbs. 6oz. \$138.00

Mojave, 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**



EU-MM COLOR: Green.
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.
4'9"W x 7'6"L x 42"H. 4lb. 2oz. \$71.00

Specification-FOLD SIZE
6th Dimension - 7" x 30"
Donation - 6" x 30"
Timberline 2-person - 6" x 24"
Timberline 4-person - 7" x 24"
Timberline Base Camp - 8" x 26"
Nu-Lite - 6" x 17"
Back Country - 6" x 20"
Caddis (2-man) - 6" x 22"
Catskill 2-person - 6" x 20"
Catskill 3-person - 6" x 24"
Catskill 4-person - 6" x 28"
Mojave - 6" x 20"
Mt. Marcy - 7" x 24"
Mushroom - 8" x 20"
Sentinel - 6" x 20"

Mountaineering and Expedition Tents, The Mushroom, Sentinel and Caddis. Custom tailored for the discriminating and winter camping enthusiast. A blending of the finest materials and craftsmanship in designs to withstand extremes in weather conditions. Floors and sidewalls are "Super K-Kote" taffeta. Flys are K-Kote ripstop nylon. Roofcloth is breathable ripstop nylon for circulation. Anodized frames. Catenary cut increases stability and reduces wind flapping. Oxford nylon reinforcements at all stress points. Twin Track doors/windows and doors work independently of each other. Lock-stitching throughout. Freeze-resistant self-healing zippers. Interior clothesline rings. Net storage pockets to hold small items. No-see-um netting keeps out the tiniest pests.

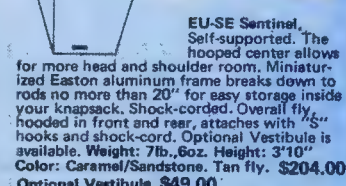


EU-MU-Z Mushroom, A unique umbrella frame-work results in this self-supporting, easy-to-pitch tent with nearly vertical walls. Completely supported

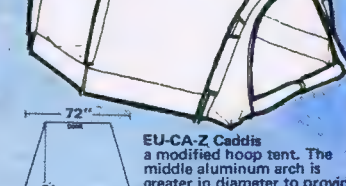
ed by the heavy-duty shock-corded frame. All the fittings are securely attached to prevent loss. Quonset style door in front and quonset style window in rear-both netted. "S" hooks hold the zippered entrance of the fly open during good weather. Color: Caramel/Sandstone. Tan/Caramel fly. 2 Sizes:
2 Man - 7' x 7' x 4'8"H. 8lb. 4oz. \$230.00
4 Man - 8' x 8' x 5'6"H. 11lb. 2oz. \$260.00



EU-SE Sentinel, Self-supported. The hooped center allows for more head and shoulder room. Miniaturized Easton aluminum frame breaks down to rods no more than 20" for easy storage inside your knapsack. Shock-corded. Overall fly, hooded in front and rear, attaches with "S" hooks and shock-cord. Optional Vestibule is available. Weight: 7lb. 6oz. Height: 3'10" Color: Caramel/Sandstone. Tan fly. \$204.00
Optional Vestibule, \$49.00

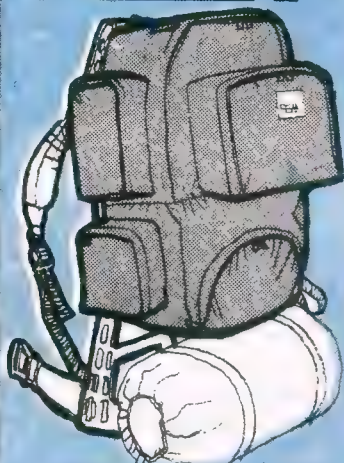


EU-CA-Z Caddis is a modified hoop tent. The middle aluminum arch is greater in diameter to provide more maneuverability. The 2 Quonset style doors are zippered & treated with a water repellent finish. The canted design fly can be adjusted with a web and buckle assembly to insure a taut profile and stability. Color: Caramel/Sandstone. Tan fly. 3 Sizes Available:
1 Man - 4'4" x 7'6" x 2'4"H. 4lb. 12oz. \$139.00
2 Man - 6' x 8' x 3'7"H. 7lb. \$168.00
4 Man - 8' x 8' x 4'3"H. 8lb., 13oz. \$215.00



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4 Man - 8' x 8' x 4'3"H. 8lb., 13oz. \$215.00

Coleman® PEAK 1™



Model 765 Front-Load Backpack, of urethane-coated Cordura nylon. The large upper compartment features a full drop-down double-zipped opening for easy access top to bottom. The lower compartment is also front-loading with a curved drop-down opening. Compressor 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 lash patches (2 are extra-large), and an axe loop. Load control straps and padded waist belt with quick-release buckle. Royal Blue. Weight: 71 oz. Total Capacity: 3360 cu.in. 22 1/2" L x 15 1/2" W x 8" D. Frame: External RAM-FLX. CM-765 \$76.80 Sugg. Retail \$83.95



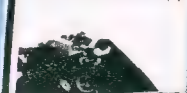
Model 705 Day Pack, great for day hikers, cycling, photography, skiing or school. There's plenty of room with a 809cu.in. inside compartment. Access is through a double-nylon zipper. One outside compartment has a 131 cu.in. capacity. The pack is made of 500 Denier Cordura nylon. Features a haul strap and padded shoulder straps. The tapered design positions the pack between the shoulder blades and low on the back for the most stable 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



TEXSPORT

"Bravo" Nylon Day Pack, lightweight, durable nylon. Large main zippered compartment, plus zippered outside pocket. Adjustable padded shoulder straps. Assorted colors. 18" x 12" x 8" TX-DP \$6.95

BICYCLING AND PHOTOGRAPHY



BASIC RIDING TECHNIQUES



GET FIT WITH BICYCLING



RECONDITIONING THE BICYCLE



BEST BICYCLE TOURS



BASIC BICYCLE REPAIR



Best Bicycle Tours, made to order for the many cyclists who want specific recommendations about where to go touring or bicycling recreation in general. These road-tested tours contain pointed information on how to get to the touring spot, where to go, what to take, where to stay, and special attractions along the route. Each tour is rated for level of difficulty and traffic conditions. Tours include: Across Newfoundland Tour; Maine's Lake Region; Green Mt. Tour; Merrimack Valley; Touring the Pennsylvania Loop; Mid-Atlantic Tour; Fishing the C & O Canal; Touring the North Florida Coast; On the Road to Montreal; The Great Lake Ride; Touring Texas Country Roads; Texas Head Winds; Texas Hill Country; Riding through the Mining Towns; California Back Country Loop; Chasing the California Wind; Touring the Sierra Nevadas; Around the Island of Kauai, Hawaii; Cycling the Mosel River Valley in West Germany. By the Editors of 'Bicycling' Magazine.

BO-BBT \$2.90

Basic Bicycle Repair, for those people who want to know enough about repair to keep a bike on the road. It explains simply and clearly all major repair problems and provides easy-to-understand, sensible advice on correcting these problems. Chapters are devoted to basic bicycle tools; troubleshooting gears and brakes, chain & cable; basic bike lubrication; tire repair and how to repair a broken spoke. 55 photos and illustrations. This book won't make you a bicycle mechanic, but it will keep your bike on the road. By the Editors of 'Bicycling' Magazine.

BO-BBR \$2.90



The Custom Bicycle, buying, setting up and ordering a quality bike. A comprehensive guide to frames, master frame builders. Detailed information 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. 278 pg. 100 photographs and illustrations. By Michael J. Kolin and Denise M. de la Rosa. BO-TCB \$8.95

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-BP \$2.90

Get Fit With Bicycling, by two Doctors/medical 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.

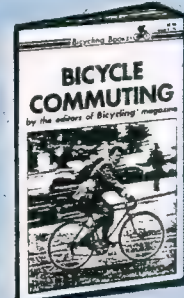
BO-GFB \$2.90

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 \$2.90

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 \$2.90



Bicycle Commuting, for those who want to use a bike for work, school, around town. This is a collection of successful strategies used to overcome hazards and handle oneself in traffic. Much attention is given to pre-commuting—preparing yourself to enter traffic for the first time. This is also a consumer guide to commuting bikes, accessories and equipment. By the editors of 'Bicycling' magazine.

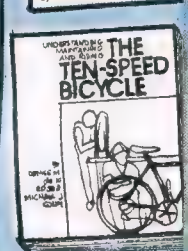
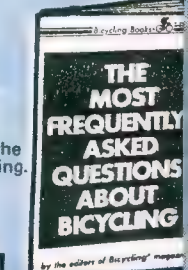
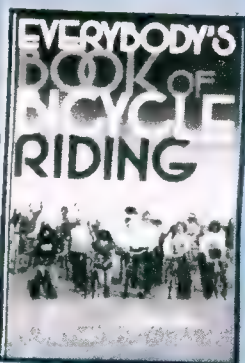
BO-BC \$2.90

The Most Frequently Asked Questions About Bicycling, in one volume for easy referral—all the questions cyclists ask about bicycles & bicycling. By the editors of 'Bicycling' magazine.

BO-QAB \$2.90

Everybody's Book of Bicycle Riding, takes the novice cyclist successfully through all the natural stages of bicycling. Shows how to get the most out of cycling by emphasizing Riding and Using a bike rather than repairing it. In nontechnical terms the author tells how to choose a bike; set up; ride efficiently & correctly; cope with traffic & road hazards; take the first ride; ride in a group; enjoy a long tour; ride in all seasons; use the bike as a fitness tool; anticipate problems; break into racing; build a custom bike and choose biking clothing. Also covered is how to fix flats & adjust gears and brakes. 336 pg. By Thom Lieb.

BO-EBBR \$9.75



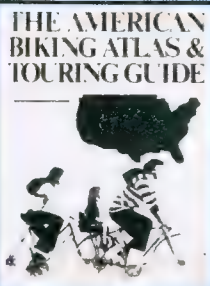
Understanding, Maintaining and Riding THE TEN-SPEED BICYCLE, by Michael J. Kolin and Denise M. de la Rosa. The first work to exclusively devote itself to understanding, adjusting, repairing and riding the ten-speed bicycle. 1978. 296

BO-TSB \$9.80



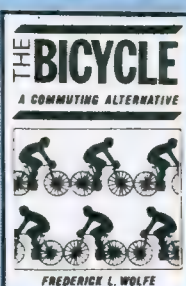
The Bicycle Touring Book, the most complete and comprehensive ever published. You'll learn how to pick the right touring bike and components; how to handle the loaded bike on the road; how to maintain and make emergency repairs; how to prepare for a short or long tour—what food and equipment to take, where to stay, what roads to use. Learn to read maps and anticipate weather conditions. Detailed conditioning programs will prepare you physically. This guide helps you campers to select campsites and equipment; advice on cooking and how to bed-down comfortably in all climates. By Tim & Glenda Wilhelm.

BO-BTB \$9.90



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 2-color maps, detail the main tour and side excursions with points of interest, campsites, distances, country stores and bike shops. 320 perforated pages. 1974 by Sue Browder. 8"x 11"

BO-ABA \$5.65



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 and techniques to obtain better bicycle facilities. By Fred L. Wolfe

BO-BCA \$7.60



Complete Bicycle Time Trialing Book, in a sport where the rider is pitted against one adversary—the clock, this book gives key advice on equipment, training and promotion. From the Editors of "Bike World" Magazine. 85 pg.

BO-TTB \$3.90



American Bicycle Racing, examines bicycle racing's illustrious past, exciting present and promising future. Interviews, discussions and 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



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. 144 pg.

BO-FF \$3.35



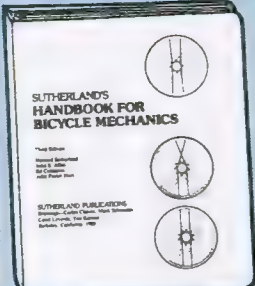
Cooking on the Road, a complete guide to one-burner cooking. Covers the specially prepackaged foods as well as unconventional places to find foodstuffs. Ten chapters of recipes covering breakfast, lunch, dinner, snacks and vegetarian cooking. 1980. 202 pg. By John Rakowski.

BO-CR \$4.85



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 Jim McNeely; Passport to Freedom by Lloyd Summer; and Exploring Europe by the President of the International Bicycle Touring Society—Dr. Clifford Graves. 1976. 92 pg.

BO-IBT \$2.80



Sutherland's Handbook, loose-bound notebook, here is the 3rd edition of the handbook that has long been recognized by bicycle mechanics across the country as the encyclopedia of bicycle information. Indispensable to any workshop, it is sensibly organized with large index tabs, and includes tables of information and specifications concerning virtually every conceivable bicycle part. Eliminate guesswork and develop a professional insight to bike work. Over 250 pg.

BO-SH \$29.95



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 complications. Learn all about the signs of a frame's quality - tubes, lugs, 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 pg. By Joe Kossak—"Bike World" technical editor.

BO-BFC \$1.85



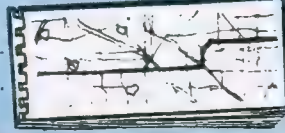
Proteus Framebuilding Handbook, NEW Edition, a guide for the novice bicycle framebuilder, now up to 127 pages and over 100 illustrations. Still includes a discussion of design and selection of framebuilding materials. Instructions on framebuilding, which includes mitering tubes, brazing and finishing blade and stay ends as well as complete information on the preparation and painting of the frame. Now also includes chapters on tools, lugless 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. Author Robert Wright explains how to build your own wheels with or without the aid of a truing stand. From radial to cross-four, anyone can understand this easy method. Karen Lusebrink illustrates every spoke so you can see which spoke is over or under. They also cover components, theories, modifications, troubleshooting and repairs. 1977. 48 pg.

BO-BBW \$1.85



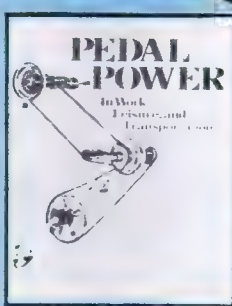
CARDINAL TRAIL Map Booklet, detailed maps of the Cross-Ohio Bikeway extending from Richmond, Ind. to Youngstown, Ohio. Spiral bound, 4"x 8 1/2" to easily fit in a map case.

BO-CT \$2.50



Richard's Bicycle Book, everything necessary for zesty riding and painless maintenance. Complete and simple repairs on every part of your bicycle. Fitting a bicycle to you, Riding Position, Stroke & Cadence, Accessories you do and don't need. 1978. 364 pages. By Richard Ballantine.

BO-RBB \$4.80



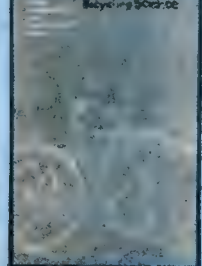
Pedal Power, explores the human potential inherent in the use of the bicycle for work. It also suggests many tasks which can effectively be done with pedal devices. One chapter gives a detailed account of the "Rodale Energy Cycle" not only a description, but also a complete set of building instructions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

BO-PP \$4.80



BICYCLES & TRICYCLES-An Elementary Treatise on Their Design and Construction, first published in 1896, it was the first serious, scientifically based study of the bicycle. Beginning with mechanical principles, then successive experiments at design are covered. Various designs are examined for their stability, steering, gearing and resistance properties. Finally a discussion of individual components in detail. A definitive work in its own time - a collectors item for history buffs as well as bicycle enthusiasts. 536 pg. By Archibald Sharp.

BO-BT \$8.85



Bicycling Science, for all mechanically inquisitive bicyclists as well as teachers of elementary mechanics and physiology, & those interested in lessening our dependence on high-energy-consumption transportation. Describes measurements and experiments in regards to basic "motion" principles & some resulting designs. Also-energy requirements for transportation, studies of human-produced power, a review of natural forces opposing motion & the applied braking forces & cooling effects on the rider & steering & stability. A look at people-power applications and new developments complete this book. 1979. 247 pg. By Frank Rowland Whitt and David Gordon Wilson.

BO-BS \$6.85



DeLong's Guide to Bicycles & Bicycling, Paperback Edition, the most complete, most accurate, most up-to-date cycling book available. This guide contains virtually everything you might ever want to know about the sport and the equipment. It covers from buying to riding to repairing to storing. The book begins w/ a discussion of the sport, with hints on where to cycle, touring, racing & commuting. Buying information is provided in choosing the right model for you. Comparisons of tubings & frame constructions help you select a model, also. You'll learn how to fit you bike to your dimensions, plus, there's coverage on custom built frames. You're told how to perform your own inspections and minor repairs. Learn all the parts of a bicycle & how they function. Wheel building is given special coverage. All you need to know of the medical aspects, written by an M.D. in the chapter "The Human Engine". Learn to improve your skills, study the weather, clothing to wear, packing for a tour, cycling with children, how to tandem & much, much more. Fred DeLong is Technical Editor of "American Cycling", "American Bicyclist" & "Bicycling" magazines, & Vice-Pres. of the L.A.W.

BO-D \$9.75



Bike Buckets, high-impact polyethylene for strength & flexibility in hot or cold weather. Snap on or off most carriers in seconds. Solid construction keeps contents in, moisture out. Large enough to carry 2 full shopping bags. Reflective red safety stripe warns motorists. Includes snap-on lids. Color: White with Blue & Red accents.

BB-B \$25.80

Ultra-high Security Lock, made of 1/2" through-hardened alloy. Tested to stop large boltcutters and other tools used by bike thieves. Carries a 1 Year \$250 Theft Guarantee. Vinyl coated to protect bike finish. With cylinder-type keys.

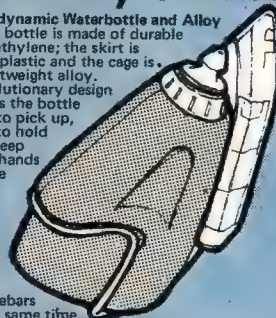
CP-CL
\$27.80



TECH-LOCK by Citadel, offers the same high quality in theft protection as the above Citadel Lock but has a couple of differences: Uses a flat-type key; and carries **\$150 in Theft Insurance.**

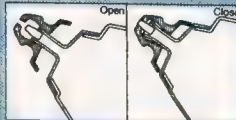
CP-CTL
\$19.85

Aerodynamic Waterbottle and Alloy Cage, bottle is made of durable Polyethylene; the skirt is clear plastic and the cage is a lightweight alloy. Revolutionary design makes the bottle easy to pick up, easy to hold and keep your hands on the



at the same time. The cage is designed to fit round frame tube. **Weights: Bottle-72G. Skirt/Cage-60G. Bottle Color: Pearl Blue**

CP-ADB
\$8.90

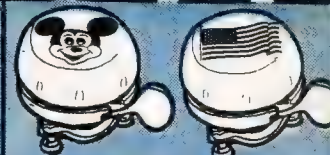


Cap opens easily with the mouth



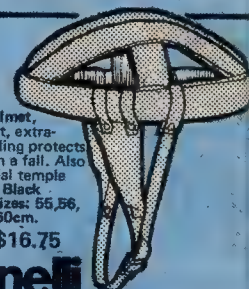
SUNTOUR

Spoke Protector,
light alloy w/anodized
finish. Diameter: 7½",
for 27 - 34T low gear.
Weight: 48G.
ST-ASP \$1.75



Bicycle Handlebar Bells, a relatively polite method of warning others of your approach
CP-MMB Mickey Mouse Bell, \$1.49
CP-FB American Flag Bell, \$1.49

Chainstay Guard, highly-polished stainless-steel. Contoured to perfectly fit chainstay. Adhesive-backed to stay secure.
SB-SCG \$1.80



Racing Helmet, lightweight, extra-thick padding protects the head in a fall. Also has a special temple protector. **Black Leather.** Sizes: 55, 56, 57, 58, 59, 60cm.

CI-RH \$16.75



Payment by	☐ Personal Check (Up to \$50 Only).	☐ M.O.	☐ Visa ☐ Mastercharge	Fill Out Above Form	Date / /
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FILL OUT AND KEEP AS A RECORD OF WHAT YOU ORDERED

TOLL FREE
1-800-321-2474

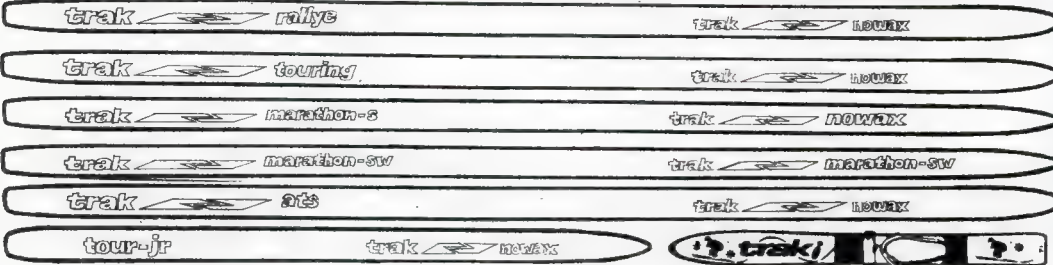
Merchandise Total			
Tax 5½%(Ohio only)			
Shipping			
Credit Slip (Subtract)			
total			

"No Wait" Calling (216) 542-3671

TOLL FREE
1-800-321-2474

X-COUNTRY SKI CLOSEOUTS

Prices Good til JULY 31—QUANTITIES LIMITED



trak

XTR-R-L Rallye Nowax Skis, Sizes: 180, 190, 200, 205, 210. Reg. \$78.80. NOW \$49.90
 XTR-T-L Touring Nowax Skis, Sizes: 190 or 200. Reg. \$93.80. NOW \$68.00
 XTR-ATS-L ATS Skis, metal edges, Sizes: 190, 200, 210. Reg. \$146.80. NOW \$104.00
 XTR-MS-L Marathon S Nowax Skis, Sizes: 190, 200. Reg. \$102.80. NOW \$73.00
 XTR-MSW-L Marathon SW Waxable Skis, Sizes: 200, 205, 210, 215. Reg. \$96.80. NOW \$68.00
 XTE-R-J-L Rallye Jr. Nowax Skis, Sizes: 160, 170. Reg. \$53.80. NOW \$42.50
 XTR-K KIDSKI, Size: 70mm. Reg. \$19.40. NOW \$13.90

ROSSIGNOL

XRO-CAR-L Carabou AR Waxless Skis, Sizes: 183, 193, 198, 203, 208. Reg. \$89.80. NOW \$65.50
 XRO-HOR-L Horizon AR Waxless Skis, Sizes: 193, 198, 203, 208. Reg. \$109.80. NOW \$75.00
 XRO-R-L Randonnee Skis, Sizes: 190, 205, 210. Reg. \$119.80. NOW \$72.00

TRUCKER

XTU-MT-L Mountain Touring Waxable Skis, Sizes: 180, 190, 200, 205, 210, 217. Reg. \$108.90. NOW \$44.50
 XTU-S-L Strider Waxable or Nowax Skis, Sizes: 180, 190, 200, 210, 217. Reg. \$108.90. NOW \$67.00
 XTU-MER-L Mountain Edge Racing Skis, Sizes: 190, 215. Reg. \$148.80. NOW \$91.00
 XTU-MES-L Mountain Edge S Skis, Sizes: 190. Reg. \$144.00. NOW \$91.00

XSI-HW-L Huski GT Waxable Skis, Sizes: 180, 190, 200, 205, 210, 215. Reg. \$66.80. NOW \$42.50
 XSI-HN-L Huski GT Nowax Skis, Sizes: 180, 190, 200, 205, 210, 215. Reg. \$66.80. NOW \$43.50



BINDINGS MOUNTED \$3.00 Pair (Indicate Boot Size)



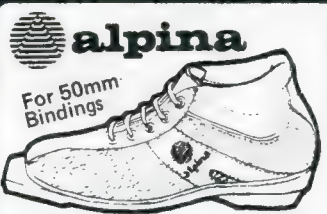
Tyrol "Surton", fine chrome tanned full-grain leather. Padded bellows tongue w/speed lacing and a padded collar that comfortably hugs the ankle. Fleece-lined with a fleece sock lining. The injection-molded sole makes the boot very lightweight and a wooden shank allows maximum lateral rigidity. Color: Brown with White trim. Sizes: (in half sizes) Womens 5 - 10, Mens 7 - 10



Tyrol "Krista", full grain leather with full bellows tongue and speed lacing. Fleece-lined in the quarter and sock and cotton drill lined in the vamp to facilitate drying. Rubber sole is cemented and stitched and a steel shank gives good lateral rigidity. Color: Blue with White trim. Sizes: (in half sizes) Womens 5 - 10, Mens 7 - 13, except 12 1/2



TY-S-Z NOW \$28.50
 TY-K-Z NOW \$17.40



Alpina "Knut", unusual design with special piping. Constructed for comfort and performance. Purko 5" upper. Fleece lined. Eyelet lacing and bellows tongue. 2-roll cuff with special piping. Heel cushion. Injection molded Norm 50mm sole construction. Colors: Black and White with Red Piping. Sizes: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48cm. Reg. \$44.80. LIMITED SUPPLY. XAL-K-Z NOW \$25.00



Alpina "Olaf", colorful new design made from waterproof "Purko" material (polyurethane covered leather). 4" high Purko upper. Fleece lined throughout. Speed lacing and bellows tongue. 2-roll cuff, felt insole. Color: White with Red. Sizes: 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50cm. Reg. \$33.80. XAL-O-Z NOW \$21.00

Dovre CP-24, deluxe Tonkin pole with sanded joints. Leather adjustable strap and grip. Plastic basket. Lengths: 120, 125, 130, 135, 140, 145, 150, 155cm. XDO-CP-L NOW \$5.50



Dovre Sport "50", a 50/12mm light touring leather boot. Sole & upper are bonded by injection moulding. Fibre box toe and heel counter. Steel shank. Vulcanized fibre midsole. Full bellows tongue. Padded scree. Combination pile and cotton drill lining. Color: Navy w/Red & White trim. Sizes: (in half-sizes) Womens 5 - 10, Mens 7 - 13 (except 12 1/2). Reg. \$33.80. XDO-S50-Z NOW \$22.00



Dovre 202 Binding - 3-pin, Nordic Norm, gold anodized aluminum. Bail is coated with black nylon. Easy release with pole tip. 2-pc. "heel cross" has metal teeth for firm heel positioning and sloped sides for less snow build-up. L & R indicator hole. 75mm. Reg. \$7.90. XDO-202 NOW \$6.60



Rottefella Tour Binding, 3-pin, rugged all-around touring model with step-in, quick-pole lock and release. Wire bale. Made with enough lateral stability to replace cable binding. Sole and heel plates included. 75mm. Reg. \$11.80. XRT-T NOW \$10.50



Tyrol Binding, made from high quality aluminum. The binding features both step-in and step-out mechanisms for easy operation. 3 steel pins are locked in position. Bail is coated spring steel for durability & function. Binding is gold anodized. 75mm. Reg. \$5.90. XTY-B NOW \$4.40



Dovre 312, gold anodized aluminum base with hardened steel pins. Hardened spring steel flat bale is coated with black nylon. Spring-loaded hook allows easy pole tip release. 50mm. No difference in L or R. Reg. \$8.20. XDO-312 NOW \$7.70

we try to ship same day Call Before 3:00pm - SPECIFY RUSH

ski warehouse X-COUNTRY SKI CLOSEOUTS

Prices Good til JULY 31—QUANTITIES LIMITED



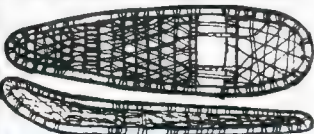
Buffalo Shirt, 85% wool/15% nylon. Two patch breast pockets w/flaps. Extra-long tail. Placket front. Matching coolers. Weight: 14oz.
Colors: **Mens:** Red/Black Check; Tan ground-Rust/Brown overplaid; Tan ground-Green/Blue overplaid; **Wid Rice** ground-Grey/Brown overplaid; **Womens:** Tan ground-Green/Blue overplaid; **Wid Rice** ground-Grey/Brown overplaid.
Sizes: Mens S,M,L,XL; Womens M,14,16
XWO-BS-K \$36 Value
NOW \$15.60

Heavyweight Chamois Shirt, the original Woolrich 100% cotton Chamois cloth with the appearance and texture of chamois leather. Shirt is heavyweight, warm, highly absorbent, mosquito-proof and very comfortable with a soft, sheared-nap finish. Two breast pockets with button flaps, long tail.
Colors: Sage, Red, Camel, Alta Blue
Sizes: Mens S,M,L,XL; Womens 6,8,10,12,14
XWO-CS-K \$26.50 Value
NOW \$12.70



Buffer Reversible Vest, 60/40 Ramar cloth reversing to 85% wool/15% nylon plaid. Polyester insulation. Snap closure. Inside pockets. Dual-entry pockets with Velcro closure flaps.
Colors: Tan reverses to tan/rust/brown; Slate Blue reverses to camel/blue/green; Redwood reverses to tan/rust/brown
Sizes: Mens S,M,L,XL; Womens M,L (Tan & Blue only)
XWO-BV-K \$47.50 Value
NOW \$22.50
MATCHES THE BUFFALO SHIRT

Snowshoes



Green Mountain Bear Paw Snowshoes, encompasses a unique design making it ideal for beginners makes it the most versatile shoe around. Outdoorsmen like it for its maneuverability in brush and ability to support heavy weights. 10"x36" Rawhide or Neoprene Laced

XLJ-LS Leather, Reg. \$55.60 NOW \$35.20
XLJ-NS Neoprene, Reg. \$51.60 NOW \$33.00



Type H Binding, type used by the military is well suited to recreational use. The instep strap combines with the solid, laced toe-piece to provide excellent support.

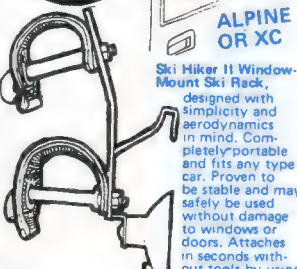
XLJ-B Reg. \$7.20
NOW \$5.20



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: M,L,XL Reg. \$10.75
XKO-CCG-K NOW \$8.50



Terrebone Vest, two vests for the price of one. Fully reversible vest is insulated with 150G/sg. meter Thinsulate offers the warmth and protection of down and polyester insulators with half the bulk & thickness! 65% polyester/35% cotton reverses to plaid 80% wool/20% nylon blend. Poplin side features 2 two-way cargo pockets, wool lined. Wool side features set-in, poplin lined slash pockets. Extra high collar and kidney flap.
Reg. \$46.80
XCO-TV-K NOW \$34.50



Ski Hiker II Window-Mount Ski Rack, designed with simplicity and aerodynamics in mind. Completely portable and fits any type car. Proven to be stable and may safely be used without damage to windows or doors. Attaches in seconds without tools by using suction cups and to those used on mounting brackets similar to those used on XC skis or 2 pairs of Alpine. Comes with locking cables. Reg. \$20.80
XRU-SH NOW \$12.50



Sno-Fire Cap, 100% Worsted wool. Jacquard pattern sno-flake design. Cathedral top with pom. Matches Sno-Fire Knicker Sock. Colors: Lt. Oxford/Spruce Green, Navy/Cardinal, Neutral/Chocola
XWW-SFC-K Reg. \$8.50 NOW \$4.50

Sno-Fire Knicker Sock, 90% wool, 10% nylon. Jacquard pattern sno-flake design. Wear over the knee or cuffed below. Sizes: M(9-11), L(11-13). Colors: Lt. Oxford/Spruce Green, Navy/Cardinal, Neutral/Chocola
XWW-SFK-K Reg. \$9.75 NOW \$5.70



Norway Cap, 85% wool, 15% nylon. Extra-heavyweight double fabric Rag pattern with matching pom. Matches Ruck-Sack Knicker Sock. Colors: Grey Twist, Blue Twist, Red Twist
XWW-NC Reg. \$4.95 NOW \$2.95

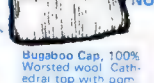
Ruck-Sack Knicker Sock, 85% wool, 13% nylon, 2% Lycra spandex for stretch. 3x1 true rib leg and 1x1 true rib top. Colors: Red Twist, Grey Twist, Blue Twist. Sizes: M(9-11), L(11-12).
XWW-RSK-K Reg. \$9.25 NOW \$6.10

Norway Scarf, 85% wool, 15% nylon. Five foot long, extra-heavyweight double fabric Rag pattern knit. Grey Twist.
XWW-NS Reg. \$7.60 NOW \$5.25

Yodel Cap, 100% Creslan acrylic, 6-color Jacquard pattern knit with large 6-color pom. Assorted Colors. **XWW-YC Reg. \$4.10 NOW \$2.40**



Spectrum Cap, 100% Creslan acrylic. Multi-colored 4 color ribbed cap w/4-color layered pom. Assorted Colors.
XWW-SC Reg. \$2.85 NOW \$1.65



Rugby Cap, 100% Creslan acrylic. Rugby striped toque w/solid turnup. Denim Heather colors w/ contrasting stripes. Assorted Colors.
XWW-RC Reg. \$2.85 NOW \$1.65



Bugaboo Cap, 100% Worsted wool. Cathedral top with pom. 2-color stripe design. Matches Bugaboo Knicker Sock. Colors: Bt. Blue/Silver, Chocola/Buff, Navy/Kelly, Scarlet/Bt. Blue
XWW-BC-K Reg. \$7.95 NOW \$4.25



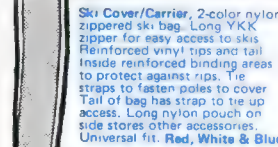
Bugaboo Sock, 75% wool, 25% nylon. Light-weight 16" over the calf, thermal cushioned stretch sock. 2-color stripe design. Sizes: M(9-11), L(11-13). Colors: Bt. Blue/Silver, Chocola/Buff, Navy/Kelly, Scarlet/Bt. Blue
XWW-BS-K Reg. \$5.75 NOW \$3.65

SWIX

Heat-On Impregator for use with a ski wax blow torch. Considered to be the most effective method of keeping moisture out of the wood and of gaining good wax adhesion.
XSI-QI Reg. \$2.50 NOW \$1.70

GLIDER WAXES
XSI-GV Violet
XSI-GR Red
XSI-GG Green
XSI-GB Blue
Reg. \$1.15
NOW 90¢ each

TourPak Contains 3 waxes: red, blue, speckle green, plus a combined cork scraper.
XSI-TP Reg. \$5.25 NOW \$3.90

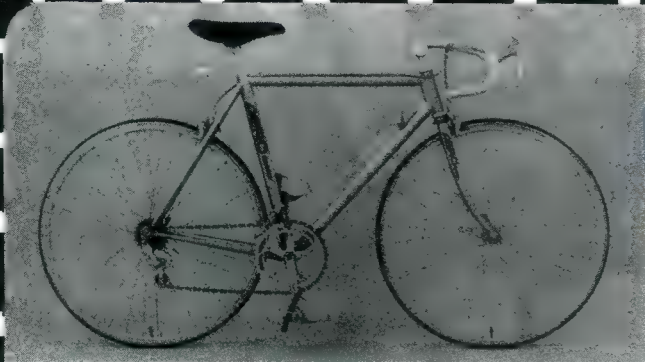


Ski Cover/Carrier, 2-color nylon, zippered ski bag. Long YKK zipper for easy access to skis. Reinforced vinyl tips and tail. Inside reinforced binding areas to protect against rips. Tie straps to fasten poles to cover. Tail of bag has strap to tie up access. Long nylon pouch on side stores other accessories. Universal fit. Red, White & Blue
XII-SC Reg. \$13.50 NOW \$8.75

duofold

Denim-Look Long Underwear, Outer layer. 25% wool/65% cotton/10% nylon. Inner layer. 100% cotton. Color: Popular "Jean-look" Blue.
Sizes: Longsleeve Top - S,M,L,XL
Bottoms - 30,32,34,36,38,40,42
XDF-DUT-Z Tops, Reg. \$11.50 NOW \$7.60
XDF-DUB-Z Bottoms, Reg. \$11.75 NOW \$7.80





AERO

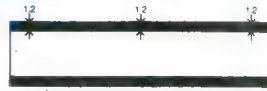
AERODYNAMICS RACING from Tsunoda

Identical in wind cheating abilities as the DA AX*. Uses the heavier 600AX Components resulting in a bike with the same quality craftsmanship but a lower price. Paint: Med. Silver-Blue Metallic.

TS-A600A-Z
\$590.00

Sugg. Retail over \$900

STANDARD SHIPPING RATES
APPLY ON BOTH BICYCLES.



*Double Plain Gauge Tube

COMPOSITION									
C	Si	Mn	Mo	S	P	Cr			
0.33%	0.35%	0.85%	0.25%	0.03%	Max.	0.03%	Max.	1.2%	

Model: Aero 600AX

Frame & Lugs.....	Main tube CR-MO & Back Mangaloy (full Aero Oval Tubing)
Fork.....	Mangaloy
Head Parts.....	Shimano 600
BB Sets.....	Shimano 600EX
Handlebar.....	SR CTD
Handlebar Stem.....	Shimano 600AX
Bar Tape.....	OGK Pearl
Brakes.....	Shimano 600AX
Lever Cable.....	Shimano 600AX
Gear & Cranks.....	Shimano 600AX
Chain.....	UG
Pedals.....	Shimano 600AX
Rear Derailleur.....	Shimano 600AX
Front Derailleur.....	Shimano 600AX
Shift Levers.....	Shimano 600AX Brazed-on
Freewheel.....	Shimano 600AX Cassette 6spd.
Saddle.....	Kashime Super-AX Aero
Seatpost.....	Shimano 600AX Oval
Front Hub.....	Shimano 600AX w/Quick Release
Rear Hub.....	Shimano 600AX w/Quick Release
Spokes.....	Stainless
Tires.....	National Pana Racer Tubular
Rims.....	Araya Red Label Tubular

July Delivery
VERY
LIMITED



AERO

AERODYNAMICS RACING from Tsunoda

Reduced wind resistance by an amazing 20.6%*. This decreased resistance means a reduction in rider fatigue & improved acceleration (or a rider can go farther & faster on the same amount of expended energy).

Constructed w/ jewel-like craftsmanship. Paint: Platinum Silver

Sizes: 21, 23, 25
TS-ADA-Z
\$990.00

Sugg. Retail over \$1400



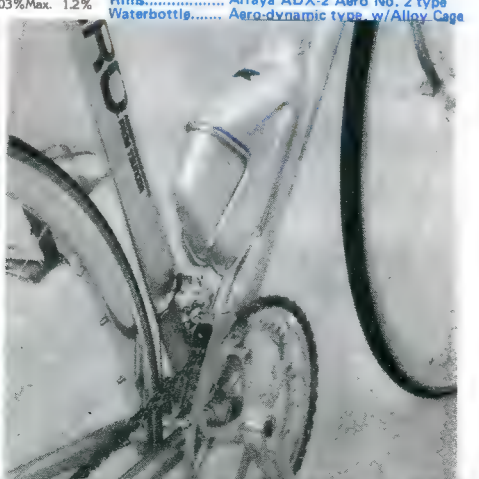
Aero Seamless DB Tube

COMPOSITION									
C	Si	Mn	Mo	S	P	Cr			
0.33%	0.35%	0.85%	0.25%	0.03%	Max.	0.03%	Max.	1.2%	

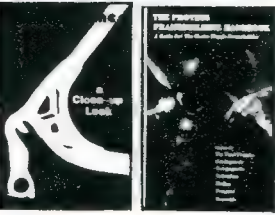
Model: Aero Dura AX

Frame & Lugs.....	All CR-MO Aero Oval Tubing
Fork.....	CR-MO Aero
Head Parts.....	Shimano DA-AX
BB Sets.....	Shimano DA-AX
Handlebar.....	Nitto ADBX
Handlebar Stem.....	Nitto Crystal Blue
Bar Tape.....	OGK Pearl Aero
Brakes.....	Shimano DA-AX
Lever Cable.....	Shimano DA-AX
Gear & Cranks.....	Shimano DA-AX
Chain.....	Shimano DA-EX Gold
Pedals.....	Shimano DA-AX
Rear Derailleur.....	Shimano DA-AX
Front Derailleur.....	Shimano DA-AX
Shift Levers.....	Shimano DA-AX Brazed-on
Freewheel.....	Shimano DA-EX 7spd. Gold
Saddle.....	Kashime Aero-Super Pro
Seatpost.....	Shimano DA-AX Oval
Front Hub.....	Shimano DA-AX w/Quick Release
Rear Hub.....	Shimano DA-AX w/Quick Release
Spokes.....	Oval 15/16 Stainless
Tires.....	National Pana Racer Tubular
Rims.....	Araya ADX-2 Aero No. 2 type
Waterbottle.....	Aero-dynamic type w/Alloy Cage

July Delivery
VERY
LIMITED



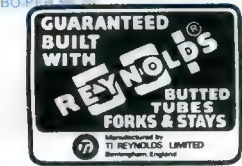
FRAMES ON DISPLAY IN OUR SHOWROOM



Bicycle Frames & Components

BO BFC \$1.95

Frame Components



REYNOLDS 531 TUBING KIT
Complete with Draw
Includes: Top Tube, Seat Tube,
Downtube, Chainstay, Fork
Blades, Seatstays, Head Tube,
2" Rake, Steering Column, &
Bottom Tube.

SPECIFICATIONS
Top Tube: 25.00 x 21.00 x .685
Downtube: 25.00 x .685
Seat Tube: 25.00 x .685
Head Tube: 31.00 x .685
Continental: 25.00 x .685

Chainstay: 22.00 x 21.00 x .685
Steering Column: 25.00 x .685

RO-RT Reynolds Tube Kit \$96.00



RO-TT Top Tube, RO-OT Downtube,
RO-ST Seat Tube, \$14.00 ea.
RO-CS Chainstay, RO-SS Seatstay, \$12.00 ea.
RO-FB Fork Blade, \$10.00 ea.
RO-HT Head Tube, \$12.00 ea.
RO-SC Steering Column, \$12.00 ea.

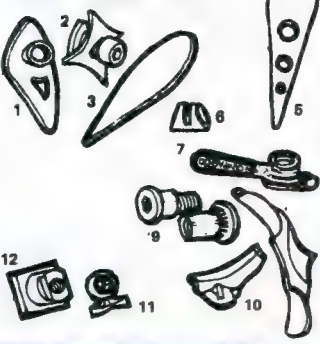
RO-B1 Reynolds Bridge Tube, \$8.00

COLUMBUS

SP TUBING LIMITED SUPPLY

RO-CSC Steering Column, \$8.00
RO-CHT Head Tube, \$14.00
RO-CFB Fork Blade, \$10.00
RO-CSS Seat Stay, \$12.00
RO-CCS Chainstay, \$12.00
RO-CTT Top Tube, \$12.00
RO-CST Seat Tube, \$12.00
RO-GDT Down Tube, \$12.00

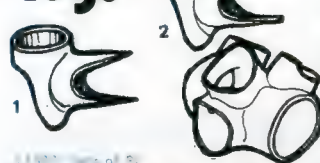
braze-ons



CINELLI BRAZE-ONS



lugs



crowns



drop-outs

RO-CT Campy Track \$16.80
RO-CT Campy \$11.00
RO-CT Campy \$11.00



Colnago is the most famous and
most successful brand name in the
world of bicycles. It is the only
brand name that is a registered
trademark in the world.

Colnago "Super" Frame,
21" and 24" sizes, and
Colnago "Super" Fork,
21" and 24" sizes, are
the only frames &
forks in the world that
are perfect.

SPECIAL ORDER - Quantities Limited
Colnago "Super" Frame, 21" & 24" sizes
Colnago "Super" Fork, 21" & 24" sizes



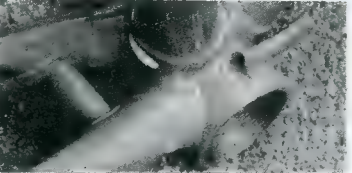
Clover Cut-out in BB Shell



Fluted Seat stay



Brake Bridge Reinforcement



Investment cast BB Shell, Campy Cable Guides

TOP TUBE IN INCHES	20.00	20.50	21.00	21.50	22.00	22.75	22.87
CHAIN STAY LENGTH	16.00	16.12	16.12	16.12	16.25	16.37	16.37
WHEEL BASE	38.25	38.25	38.50	38.50	39.00	39.50	39.50
SEAT TUBE IN CM.	50	52	54	56	58	60	62
FRAME SIZE IN IN.	19.75	20.50	21.75	22.00	22.87	23.62	24.37

FRAME SIZING CONVERSION CHART

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



Campy Super Record Dropouts

TYPE OF FORK ENDS 1010B or Colnago
TUBING COLUMBUS SL
FORK RAKE 1.75"
HEAD TUBE ANGLE 75
SEAT TUBE ANGLE 74-75
COUNTRY BUILT ITALY
SEAT POST I.D. 27.2
FORK TUBE I.D. 22.2
BOTTOM BRACKET THREAD ITAL.
WHEEL SIZE TO USE 700C
COLORS AVAILABLE: RED, GREEN,
DK BLUE, LT BLUE, BLACK, YELLOW



COLNAGO ACCESSORIES



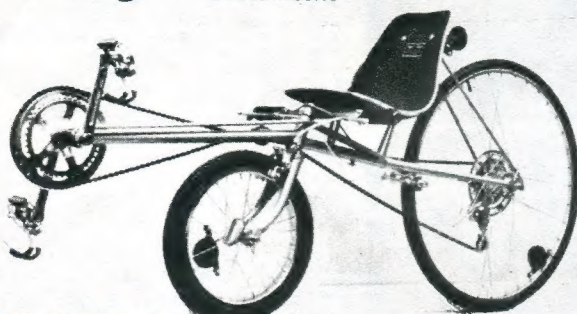
Top Straps, with or without
Colnago logo
CO-TS \$12.00 pr.



Cap, 100% cotton.
Blue/White/Yellow.
CO-CAP \$3.45

Hyper-Cycle™

a recumbent



Ease of Handling—Aerodynamic design greatly reduces wind resistance. Shorter wheelbase and lower center of gravity enhance cornering and maneuverability.

Better Use of Energy—With firm back support, the rider can push harder with his legs and therefore it can outrun a regular 10-speed, on hills or level ground.

Riding Comfort—There is no better riding posture than reclining in a bucket seat with both hands at the sides to control steering, braking & gear shifting.

Compact and Lightweight—it is shorter & lighter than a regular 10 speed bike.

Parts interchangeability—It accepts most 10-speed components and accessories (450G Sidepull Brakes).

Arc-welded, Carbon Steel Frame.

FRAME KIT Includes: Frame, Seat, Fork and Handlebar.

Colors: Candy Red or Silver

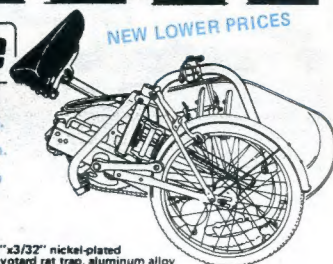


HC-RS-C Small up to 5'6", \$199.95
HC-RM-C Regular 5'6"- 6'4", \$199.95
HC-RL-C Large over 6'4", \$199.95

HC-SC Padded Seat Cover, \$9.95

BICKERTON portable

NEW LOWER PRICES



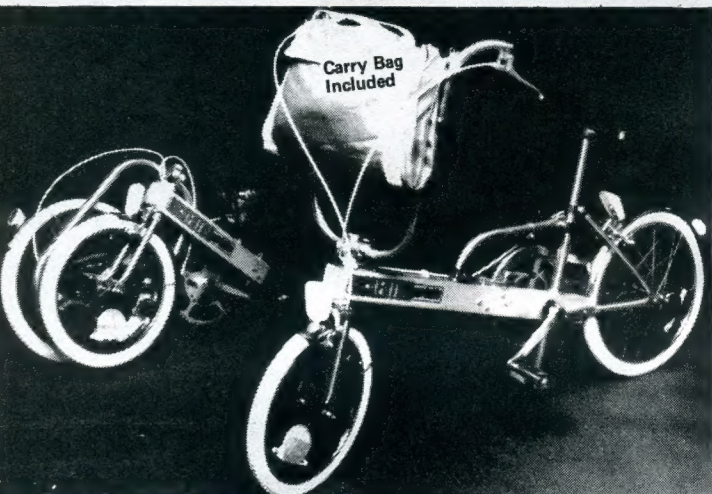
A truly portable bicycle. Folds and unfolds in about 45 seconds. Easily fits into a dual-purpose carrying/handlebar bag and stows on any form of transport. Weighs only 25 lbs. The design permits a wide range of adjustments to achieve the proper riding position. Racing-type 3-speed transmission. Aluminum alloy construction means low maintenance—no rusting or chipped paint, easy to keep clean. Each Bickerton is individually tested and adjusted and an owners manual is provided. **BK-FB \$350.00 Sugg. Retail \$415.00**

SPECIFICATIONS:

3-Speed

Wheelbase: 38" approx.
Saddle height from crank center: adjusts from 17 1/2" to 40"
Height of handgrip from ground: adjusts from 35" to 41"
Height of crank center from ground: 10 1/2"
Folded dimensions: 30" x 20" x 10" in carrier bag
Weight: 25 lb.
Front wheel: Endrick type 14" x 1 3/8", 20 spokes
Rear wheel: Endrick type 16" x 1 3/8", 28 spokes, 13T sprocket 3-spd hub gear & handlebar trigger control.
Tires and tubes: Michelin black
Chainwheel: 57T aluminum alloy
Crank: aluminum alloy, cotterless, 6 1/2" throw

Chain: 1/2" x 3/32" nickel-plated
Pedals: Lyotard rat trap, aluminum alloy
Saddle: Lightweight, mattress type
Brakes: Weinmann 730 sidepull
Fenders: Polished aluminum alloy (rear has reflector)
Main frame member: Aluminum alloy 2 1/2" x 1 5/8" rectangular action, hinged for folding w/clamps at fold point.
Handlebar tubes and seat tubes: Telescopic action aluminum alloy drawn tubes w/hand clamps. 7/8" dia. at saddle attachment and handgrips.
Headstock: Combined pivoting and swivelling w/double quick action clamps and position locating pins.



GIOS TORINO



Frame & Fork
GT-RF-Z \$570

TYPE OF FORK ENDS	1010B	SEAT POST I.D.	27.2
TUBING	COLUMBUS SL	FORK TUBE I.D.	22.2
FORK RAKE	1.87"	BOTTOM BRACKET THREAD	ITAL.
HEAD TUBE ANGLE	74	WHEEL SIZE TO USE	700C
SEAT TUBE ANGLE	74	COLORS AVAILABLE:	BLUE
COUNTRY BUILT	ITALY		
TOP TUBE IN INCHES	20.00	20.50	21.00
CHAIN STAY LENGTH	15.75	15.87	16.00
WHEEL BASE	38.50	38.62	38.75
SEAT TUBE IN CM.	50	52	54
FRAME SIZE IN IN.	19.75	20.50	21.25
		22.00	22.87
		23.62	24.37

Holdsworth

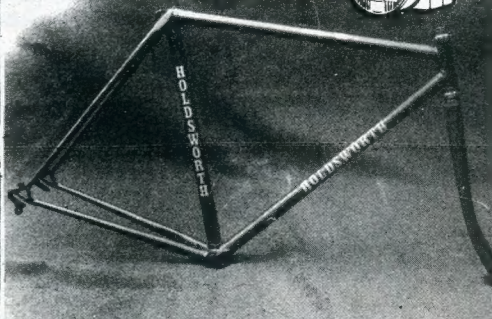
"Mistral" Model Frame, Reynolds 531 DB, Campy Record Dropouts w/ eyelets, Long Point Lugs, Braze-ons, Chainstay Eye, BB Tunnel Guides, Bottle Cage Mounts, Top Tube Brake Tunnel Guides, Headlight Mount on fork, Brake Bridge Reinforcement, Tange Headset, Seatpost Bolt, English Wrapover Stays, Semi-floping Crown. 27" clearance for wheels & guard. Eng., 68mm, 27.2 Seatpost. **"HW-TF-K \$325.00**



Wheelbase 40 3/8"- 41 7/8"
Fork Rake 2 1/4"-Frame Angles 72/72
Sizes: 21, 21 1/2, 22, 23, 24, 25 1/2"

BEREC Headlight
to fit fork.
CP-BHL \$8.95

NOTE: 730 Reach Brakes must be used on the Holdsworth Mistral



FRAMES ON DISPLAY IN OUR SHOWROOM

Designed by
Ernie Clements

Falcon

San Remo Touring Frame, Reynolds 531 Double-Butted Tubing, Long-Point Prugnat-type Cutout Lugs, Campy Front and Rear Dropouts with Eyelets, 2 Tunnel Guides, Stop for levers, Eyelets on chainstay, Semi-Sloping Crown, Semi-Wrap Seatstay, 27" Clearance for wheels with guards, 27.2 Seatpost Size, English B.B. Wheelbase 40"-40 3/4", Fork Rake 2", Frame Angles 73/73. Made in England.



10 to 12 Week Delivery



Model 25 Sport Tourer, Reynolds 531 DB Main Tube, Champion Chrome-moly Rear Triangle and Front Fork, Campy Dropouts w/ Fender and Adjusting Screws, Nervex Lugs & Crown, English Flat Plate Seat Cluster, Plain Binder Bolt, Haden English BB Shell, Braze-on RH & LH Tunnel Guides, Rear Derailleur Chainstay Stop, Tange Falcon Headset installed. Sizes: 19", 21", 22", 23", 24", 25", 26", 27". Enamel Paint Colors: Black, Red, Yellow, Dark Blue, Sky Blue

RO-ST-K \$325.00 Deviation Fee for Sizes over 24 1/2"

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 1/2
26 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	35-7/8	42 1/2
25 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	34-7/8	42 1/2
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 1/2
22 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	32-1/8	39 1/2
21 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	31-1/8	39 1/2
19	73"	73"	21 1/2	2 1/4	17 1/4	2 1/4	29-5/8	39 1/2

Model 50 Touring Frame Set, Champion 2 Chrome-moly DB Tubing, Cinelli Long-Point Lugs, Haden Europa Investment cast Semi-sloping Crown, Italian Fluted Seat Cluster, Allen key Binder Bolt installed, Haden English BB, Campy 1010 Dropouts, with Fender and adjusting Screws. Braze-on RH & LH BB Tunnel Guides, Rear Derailleur Chainstay Stop, Waterbottle Bosses on downtube, Tange Falcon Headset installed. Sizes: 19", 20", 21", 22", 23", 24", 25", Enamel Paint Colors: Red, Black, Yellow, Sky Blue, Dark Blue

RO-TF-K \$315.00

NO OPTIONS AVAILABLE

A	C	D	B	I	E	D	K	H
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 1/2	41
23	72"	72"	22 1/2	2-11/16	17 1/4	2 1/4	32-5/8	41
22	72"	72"	22 1/2	2-11/16	17 1/4	2 1/4	31 1/2	41
21	72"	72"	21 1/2	2-11/16	17 1/4	2 1/4	30-7/8	40
20	72"	72"	21 1/2	2-11/16	17 1/4	2 1/4	30	40
19	72"	72"	20-3/8	2 1/4	17 1/4	2 1/4	29-5/8	39 1/2

Reynolds frames larger than 25 1/2" are made with 18/20 gauge seat mast 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

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 - 19" in standard frames.

Track and road frames available for 24" wheels.

OPTIONS LIST
 Deviations from stock, \$15.00
 Cinelli Full-Sloping Crown, \$22.00
 Cinelli Semi-sloping Crown, \$18.00
 Fast Back Rear Stays, \$32.00
 Semi-wraparound Rear Stays, \$19.00
 Shimano Vertical Dropouts, \$16.00
 Extra Eyelets on Dropouts (pr), \$10.00
 Campy B.B. Cable Guides R.H., \$9.00
 Campy B.B. Cable Guides L.H., \$9.00
 Rear Derailleur Cable Stop, \$5.00
 Brake Cable Stops (2), \$10.00
 Brake Cable Guides (3), \$15.00
 Campy Shift Lever Bosses, \$10.00
 Campy Shift Lever Bosses complete with levers, \$20.00
 Dura-Ace EX Shift Lever Bosses Complete with Levers, \$28.00
 Fork Tab Reinforcements, \$9.00
 Brake Bridge Reinforcements (pr), \$9.00
 Centerville Brake Support, \$15.00
 Cantilever Brake Braze-on complete with Brakes, \$21.00
 Rear Carrier Mounts, \$12.00
 Water Bottle Bosses, \$10.00
 Pump Peg, \$10.00
 Cr-Mo Fork, painted, \$50.00
 Reynolds 531 Fork, painted, with Cinelli Semi-sloping Crown, \$64.00
 Reynolds 531 Fork, Full-sloping Crown, painted, \$68.00
 Frame Painted in IMRON, \$45.00 ALL FRAMES

Model X-100 Custom Touring/Racing Frame Set, standard are Reynolds 531 DB Tubing, Haden "Royal Sovereign" Cut-out Lugs, Haden Europe Crown, Cinelli Cast BB Shell, Semi-wrap around Seat Cluster, Reinforced Chainstays & Seatstay Brake Bridges, Campy Dropouts (nickel-plated), Campy Record Headset, Braze-on Rear Chainstay Stop, BB Guides, Waterbottle Bosses, Brake Cable Guides on top tube. Bridges set for either semi-ups or clinchers using normal reach brakes. Allen key Binder Bolt installed. Other options available on Option List. Frame also available in Columbus SP Tubing. Sizes: 19" 21" 22 1/2" 23 1/2" 24 1/2" 25 1/2" 26 1/2" 27". Imron Paint Colors: Burgundy, Black Met., Lt. Continental Blue, Med. Blue, Lt. Rose, Green Ivy, Med. Taupe, Brite Blue, Dk. Persimmon.

RO-CT-K \$485.00

TOURING								
A	C	D	B	I	E	F	K	H
27	73"	73"	24	2-11/16	17	2 1/4	36-3/8	42 1/2
26 1/2	73"	73"	24	2-11/16	17	2 1/4	35-7/8	42 1/2
25 1/2	73"	73"	24	2-11/16	17	2 1/4	34-7/8	42 1/2
24 1/2	73"	73"	23 1/2	2-11/16	17	2 1/4	33-7/8	41 1/2
23 1/2	73"	73"	22-3/8	2-11/16	17	2 1/4	33	40 1/2
22 1/2	73"	73"	21 1/2	2-11/16	17	2 1/4	32-1/8	39 1/2
21 1/2	73"	73"	21 1/2	2-11/16	17	2 1/4	31-1/8	39 1/2
19	73"	73"	21 1/2	2 1/4	17	2 1/4	29-5/8	39 1/2

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 1/2	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
19	74"	73"	21 1/2	2 1/4	16 1/4	2	29 1/4	38 1/4

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 1/4
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
19	75"	75"	20 1/4	2 1/4	16	1 1/2	29 3/4	37-1/8

Model 100 Pro-Tour Frame Set, full Reynolds 531 DB, Haden "Royal Sovereign" Long-point Cut-out Lugs, Haden Europa Investment cast Semi-sloping Crown, Italian Fluted Seatstay Cluster, Allen key Binder Bolt installed, Campy Dropouts (nickel-plated) with fender Eyelets and adjusting Screws, Braze-on Rear Derailleur Stop, RH & LH BB Tunnel Guides, Rear Brake Bridge Bushing, Campy Headset installed. Sizes: 19", 21", 22 1/2", 23 1/2", 24 1/2", 25 1/2", 26 1/2", 27". Imron Paint Colors: Burgundy, Black Met., Lt. Continental Blue, Med. Blue, Lt. Rose, Green Ivy, Med. Taupe, Brite Blue, Dark Persimmon.

RO-PT-K \$415.00

Options available subject to Deviation Fee

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 1/2
26 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	35-7/8	42 1/2
25 1/2	73"	73"	24	2-11/16	17 1/4	2 1/4	34-7/8	42 1/2
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 1/2
22 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	32-1/8	39 1/2
21 1/2	73"	73"	21 1/2	2-11/16	17 1/4	2 1/4	31-1/8	39 1/2
19	73"	73"	21 1/2	2 1/4	17 1/4	2 1/4	29-5/8	39 1/2

Model 75 Racing Frame-Track or Road, Champion 2 Chrome-moly DB Tubing, Cinelli Long-point Lugs, Haden Europa Wide Oval Investment cast Semi-sloping Crown, English Flat Plate Seat Cluster, Allen key Binder Bolt installed, Campy Dropouts without eyelets, Shimano 600 EX Headset installed, Braze-on RH & LH BB Tunnel Guides, Rear Derailleur Chainstay Stop, Waterbottle Bosses on downtube, Brake Cable Guides on top tube. On Track Frame - Cinelli Cast Crown with Columbus Round Fork Blades, Campy Track Dropouts, No Braze-ons. Fork and Bridge drilled for brakes. Sizes: 19" 21" 22 1/2" 23 1/2" 24 1/2". Enamel Paint Colors: Red, Black, Yellow, Sky Blue, Dark Blue

ROAD RACING

A	C	D	B	I	E	F	K	H
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 1/4	2-11/16	17	2	32-1/8	39
21 1/2	73"	73"	21 1/4	2-11/16	17	2	31-1/8	39
19 1/2	73"	73"	21 1/4	2 1/4	17	2	29-5/8	39

TRACK RACING

A	C	D	B	I	E	F	K	H
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 1/4
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
19 1/2	75"	75"	20 1/4	2 1/4	16	1 1/2	29 3/4	37-1/8

Colors: Fluorescent Red or Blue
 Sizes: 22, 23, 24, 25"
 Reg, \$325.00
WHILE THEY LAST
 FA-TF-K
\$295.00
 TOURING MODEL

NOTE: 730 Reach Brakes must be used with the Falcon Touring Frame.

HEADSET INSTALLATION AVAILABLE ON MOST FRAMES-\$10.00

STANDARD SHIPPING ON ALL FRAMES

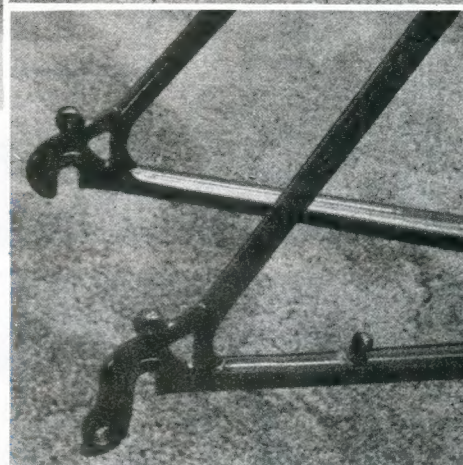
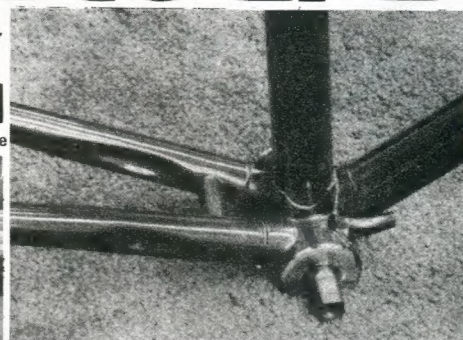
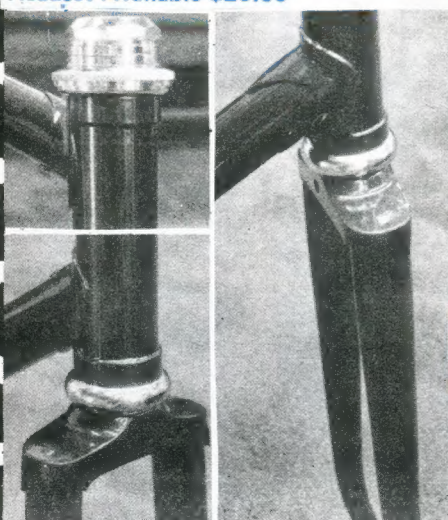
FRAMES ON DISPLAY IN OUR SHOWROOM

Sierrantoure Series 4

A Quality-Built, Lightweight SPORT TOURING Frame



Large Chrome-Molybdenum Double-Butted Steel Tubing. Hi-tensile Steel Fork. Shimano Vertical Dropouts with Eyelets. S-Lugs. Italian Fluted Seatstay Attachment. Semi-sloping Crown. Seat Post Bolt Included. Braze-ons include: Waterbottle Braze-on Mounts, Bottom Bracket Tunnel Guides, Chainstay Eye, Brake Bridge Reinforcement. English 68mm threaded Bottom Bracket. 26.8 Seatpost Size. Recommended for use with 600EX Freehub, 600EX Headset and 500 Reach Brakes. Installed 600EX Headset Available-\$20.00



Angles 73°
Fork Rake 2 1/4"
Wheelbase 39 1/2"
Chainstay 16 1/2"

Weight: 6 1/2 lb. (23")

Colors: Red or Blue
Candy Metallic

Sizes: 21", 23", 25"

BW-ST4-K \$170.00

AVAILABLE FOR
IMMEDIATE
DELIVERY



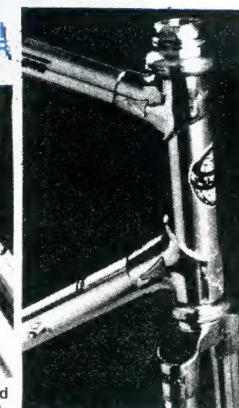
Alan Super Record, engineered with thicker walled tubing for stiffness, improved stay connections at the seat cluster and a stronger fork. Detailed with bottle cage fittings, shift lever bosses, bottom bracket cable guides and cut-out lugs and crown. Beautiful deep satin-pearl anodized finish.

AL-SRF-K \$490.00

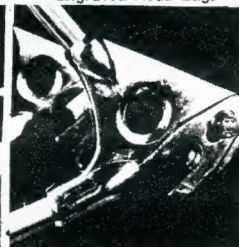
BEAUTIFUL PEARL
ANODIZED SILVER
OR BLUE FINISH



Lugs: Duraluminum-threaded and all joinings are sealed in epoxy.



Engraved Head Lugs



TYPE OF FORK ENDS	ALAN	SEAT POST I.D.				25.0
TUBING	LIGHT ALLOY	FORK TUBE I.D.				22.2
FORK RAKE	1.50"	BOTTOM BRACKET				ITAL.
HEAD TUBE ANGLE	75	WHEEL SIZE TO USE				700C
SEAT TUBE ANGLE	75	COLORS AVAILABLE:				Silver or Blue
COUNTRY BUILT	ITALY					
TOP TUBE IN INCHES	19.34	20.50	21.25	21.62	21.87	22.37 23.25
CHAIN STAY LENGTH	16.12	16.12	16.12	16.25	16.25	16.25 16.25
WHEEL BASE	38.50	38.37	38.87	39.00	39.25	39.37 39.50
SEAT TUBE IN CM.	50	52	54	56	58	60 62
FRAME SIZE IN IN.	19.75	20.50	21.25	22.00	22.87	23.62 24.37

Avatar 2000 Specifications:
FRAME: Seat & chain stays, fork & steerer-Reynolds 531. Head, top, seat tubes & BB tubes-4130 Chrome-molybdenum. Dropouts-Vertical, SunTour EF130. Seat tracks-Stainless steel. Finish-Epoxy primer w/black DuPont IMERON top coat. Wheelbase-63". BB Height-12 1/2".
SEAT: Tubular frame-6061-T6 & 2024-T3 anodized alloy. Covering: stitched leather w/nylon mesh insert. Adjusting straps. Height-24" off ground.
HANDLEBAR: 6061-T6 anodized alloy.
STEERING ROD: 2024-T3 anodized alloy.
HEADSET: SunTour Superbe black.
WHEELS: Front-Weinmann 101A alloy clincher 16 x 1 3/8" rim, Avocet Model II Q.R. 1.1 ft. hub & DT stainless steel spokes. Rear-Weinmann 124A alloy clincher 27 x 1 1/2" rim, Avocet Model II Q.R. 1.1 ft. hub & DT stainless steel spokes.
TIRES: Front-16 x 1 3/8" IRC, Rear-27 x 1 1/8" IRC.
BRAKES: Mafac H5 Cyclo-Tandem cantilever calipers w/flat stud blocks & Weinmann 91-W flat alloy levers.
DRIVE: (21-SPEED) Front Derailleur-SunTour Cyclone black, Rear Derailleur-SunTour Cyclone GT black. Controls-SunTour Bar-Con. Chain-SunTour Ultra. Freewheel-SunTour Ultra-7 (13,15,17,20,23,26,30). Cranks-TA Cyclotouriste triple chainwheels (34,49,53) 170mm. Pedals-SunTour Superbe black, Avocet Model III alloy clip & black straps.
WEIGHT: 29 lbs.
OTHER: Chainguard-frame clip-on, Kickstand-ESGE alloy. Full Fenders-ESGE chromoplastic. Safety Flag-8" long fiber-glass pole w/9" x 12" orange flag. Reflectors-CAT-EYE, in spokes as well as on front and rear. Season Flashing Unit-AMPEC M3B60, 90 amber flashes per minute.

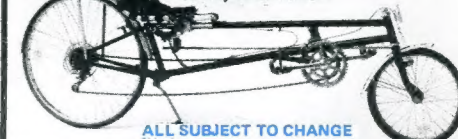
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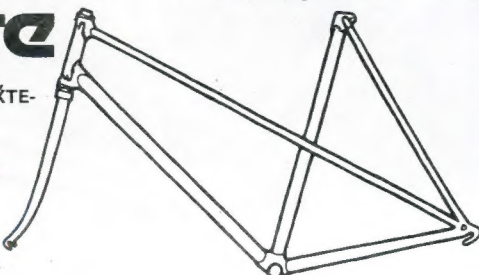
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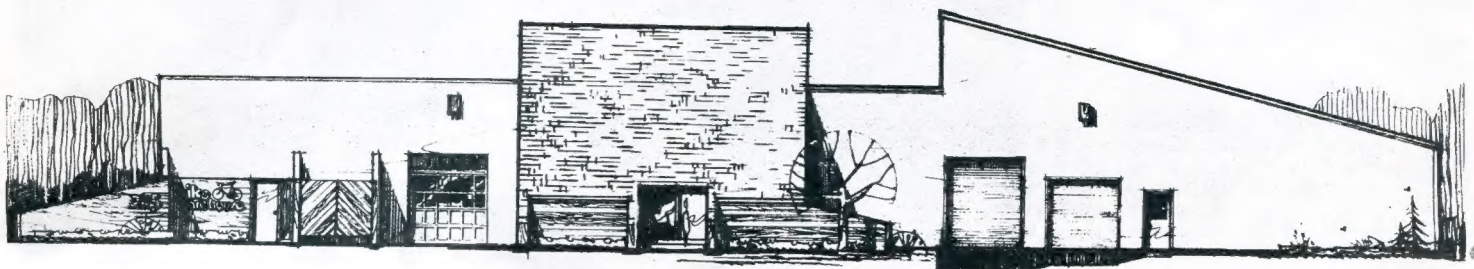




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