$1.00 Summer 1981

Bikecology™

WATTS LINE Toll Free
Outside Calif.
(800) 421-7153
California Residents
(213) 306-4731

Telephone Ordering Hours
Mon.-Fri. 8 a.m.-6 p.m.
Sat. 9 a.m.-5 p.m.

INDEX PG 9



When Campy just isn't good enough...

Modolo of Italy

Best finish, lever, hood, center bolt, and stiffness on the market. See page 25 for full details.

Special introductory price
only $119.00

Supergo™ helmet

Now the finest quality/safety/value helmet on the market. Check these outstanding features:

- Fiberglass shell for top strength
- Molded polystyrene interior lining for safety
- Functional ventilation ducts, sides and rear
- Adjustable 4-way suspension with quick release Fastex® buckle.
- 3-M reflective tape and snap-on visor included.
- One universal size fits all via adjustable 360° headband. **See pg. 11**

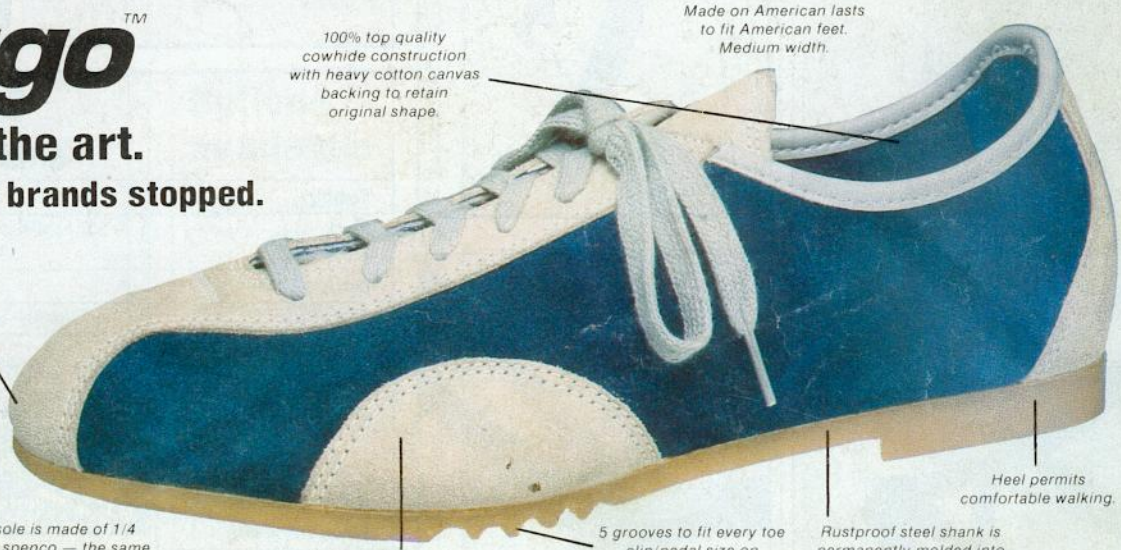


Special low introductory price
50-200-5 $29.90

Supergo™

The new state of the art.

Starts where the other brands stopped.



Men		Women	
6	*03-767-1*	4	*03-760-6*
7	*03-768-9*	5	*03-761-4*
8	*03-769-7*	6	*03-762-2*
9	*03-776-2*	7	*03-763-0*
10	*03-777-0*	8	*03-764-8*
11	*03-786-1*	9	*03-765-5*
12	*03-787-9*	10	*03-766-3*

Surprisingly low price for such quality
Only $27.95
Shipping wt. 2 lbs.
Men's 6-12 Women's 4-10

BOB JACKSON

With over 40 years of trend setting design and quality building, Bob Jackson is one of the world's most famous names in custom frames and enjoys considerable popularity in many countries. Mr. Jackson takes great pride in being 100% flexible — ready and willing to tackle any custom design the customer desires. With 2 tandems, mixte, racing trike, tracks, touring and racing models Mr. Jackson is also one of the most versatile builders in the business. Every frame is made under the close and careful personal supervision of Bob Jackson himself. The Jackson painting, which has been copied by many, is his most famous trademark. Each frame is sprayed in several separate, time consuming stages then baked. The end result is one of the most durable and beautiful finishes in the industry. For 1981, we continue our two all-time best sellers, one for racing, the other for touring. Both are recognized everywhere; as finely made

Gran Prix — Rake 17 Racing

This is a very light, short wheelbase, stiff design with highly responsive steering and maneuverability. It is ideally suited to the many criteriums, time trials, and short road races which are so popular in America. For the serious racer who desires a famous brand and great looks with superior performance.

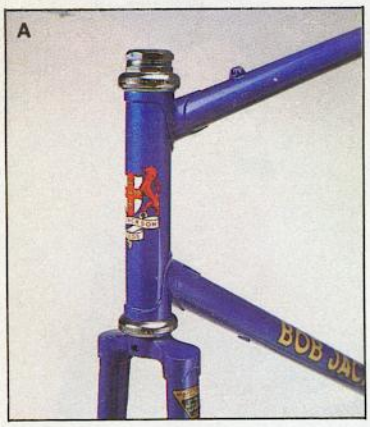
Grand Prix special features

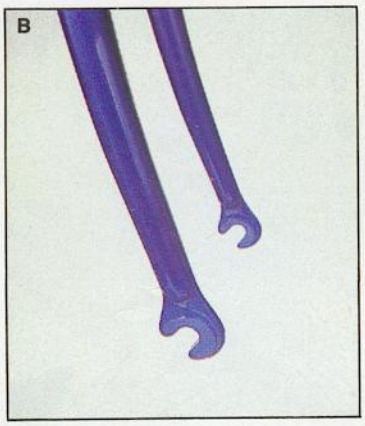
- New semi-sloping streamlined crown.
- Campy Super Record dropouts without eyelets
- Jackson Rake 17 fork of 531 SL
- Indented round-oval-round stays for maximum stiffness.
- 700C wheel size. Brake hole to axle distance 360mm Rr, 362 Fr.
- Fits 500 side pull brakes

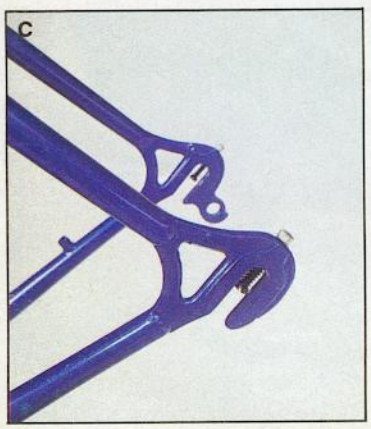
Frame & fork - headset

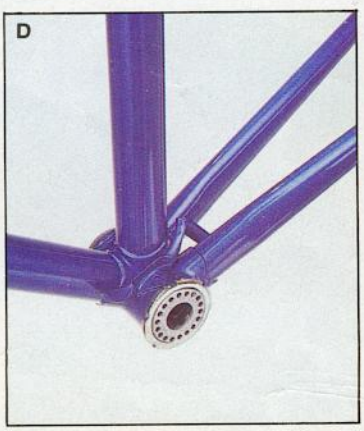
$370.00











A. Top quality Vagner crown.
B. Brazed Tips.
C. Sup Rec tips. Stay flat-filed for chain clearance.
D. Campy guides. Round-oval-round stays.
E. Hand-form stay tips. Top tube cable guides.



Specifications for Bob Gran Prix — Rake 17

Tubing	Reynolds 531 double butted
Fork	531 continental-style big oval blade 27.4 x 20.4mm Ø
Bottom bracket	Closed,
Dropouts	Campy Super Record w/o eyes
Headset	Tange New Levin
Seat lug bolt	KKT Chromolly double allen head
Braze-ons	bottle bosses on downtube,
Seat tube I.D.	27.2
BB	
Dropout width	120
Brake fit	Standard reach
Wheel size	700C
Sizes	19,20,21,22,23,

GUARANTEED BUILT WITH REYNOLDS BUTTED TUBES FORKS & STAYS manufactured by REYNOLDS TUBE CO. LTD Birmingham, England

HANDMADE FRAMES

thoroughbreds with important features for its particular design purpose.

We stock Super Tourists in burgundy and blue with champagne contrasting seat and head panels as pictured. Other color combinations are randomly in stock so you should call for stock information before ordering. Any color can be specially ordered with delivery in two to four months depending on time ordered.



Super Tourist

Never conceived as a hybrid or general bike, the Super Tourist is designed for all touring from a day to a summer. Its long wheelbase and comfortable angles make prolonged riding as painless as it is pleasurable. The classic Jackson.

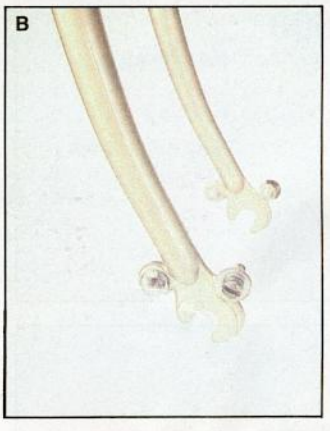
Super Tourist special features

- Modern Italian style sharp edged crown.
- Fluted/indented chainstays for any crankset clearance and large tires.
- 72/72 degree angles
- 531 18/21 taper gauge fork with crescent shaped 50mm rake and double eyelets.
- 27 inch wheel — 500 brake clearance with fenders. Brake hole to axle distance: Fr 370mm/Rr 368mm.

Frame & fork - headset
$370.00



A Bottle cage bosses
B Forged fork tips with double eyes for rack and fender.
C New extra thin, tapered lugs. Italian style crown. Color coordinated head tube and decals.
D Shimano Dura Ace cable guides
E Shimano Dura Ace forged vertical dropouts for touring.





Jackson framesets

Super Tourist
tubes, stays, steerer tubes.
531 18/21 standard blade 28.7 x 16.6mm Ø
Pressed steel 68mm BSC thread
Fr Tange forged double eye Rr Shimano vertical
ground races
bolt, chrome plated, incl wrench
Ground steel BB cable guides, chain stay cable stop by Campy or Shimano
mm
BSC threads
mm *126mm available by special order*
"500" side pull
27 inch
24,25,26 inches

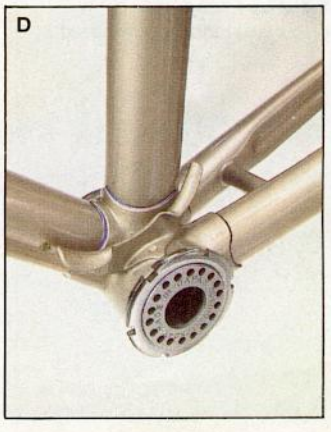
Options available:

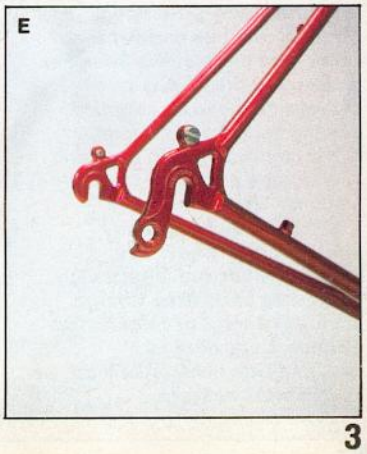
Campy downtube lever bosses ***$13.00*** each side

Mafac bridge over seat stays for center pull ***$13.00***

Mafac criterium cantilever bosses. Brake not incl. ***$26.00*** each

Reynolds 531 special light tubing, silver solder ***$90.00***





BOB JACKSON SPECIAL ORDER MODELS

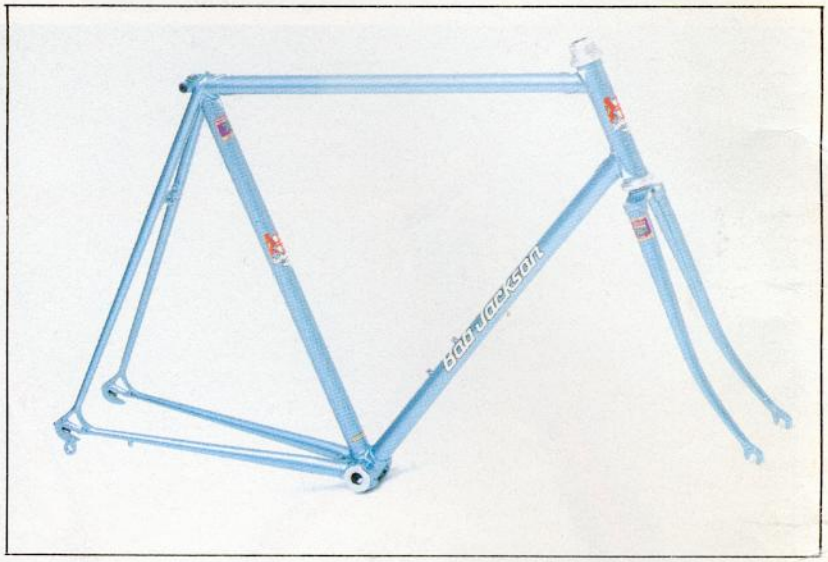
We only stock a few of these more exotic Jackson frames. You may order these in any color and with any specifications you choose. Please allow 2-4 months delivery for solos and 4-8 months for tandems.

753 Road Racing

Bob Jackson has the distinction of being the first independent builder in the world to receive Reynold's coveted license to use its very special 753 tubing. Such great skill is required with 753 that only a handful of artisans world-wide are certified to braze it. Reynolds 753 is a special manganese molybdenum steel which is 50% stronger than 531 and has considerably better torsional rigidity than frames in titanium, carbon fibre, or aluminum alloy. The fork rake is pre-bent at 40mm. The special characteristics of 753 prevent the use of brazed-on cable guides, bottle or lever bosses. However, derailleur cable guides can be welded to the BB shell. Entirely silver soldered. Available in sizes 20-24 inches in half steps only. Lugs and BB shell are investment cast.

$750

incl. OMAS headset
Deposit of 50% required with order.



Nuovo Olympus Road 531SL

A very deluxe version of the Gran Prix on page 2. All materials are of the highest quality and strength resulting in a very lightweight machine which tolerates racing punishment easily. Identical specifications as Gran Prix.

- Prugnat long point window lugs of hi-tensile steel, 1mm thick.
- Hi-tensile steel reinforcing tangs *welded* to the BB shell in positions that strengthen the seat and down tubes. This is genuine reinforcement, not decoration brazing. Haden's finest investment cast crown.
- Braze-on cable guides, Super Record dropouts flat filed. No top tube guides or bottle bosses due to very thin tubing.
- "Hall cluster" type English seat lug with internal bolt.
- Exclusively silver soldered.

$600

including OMAS headset

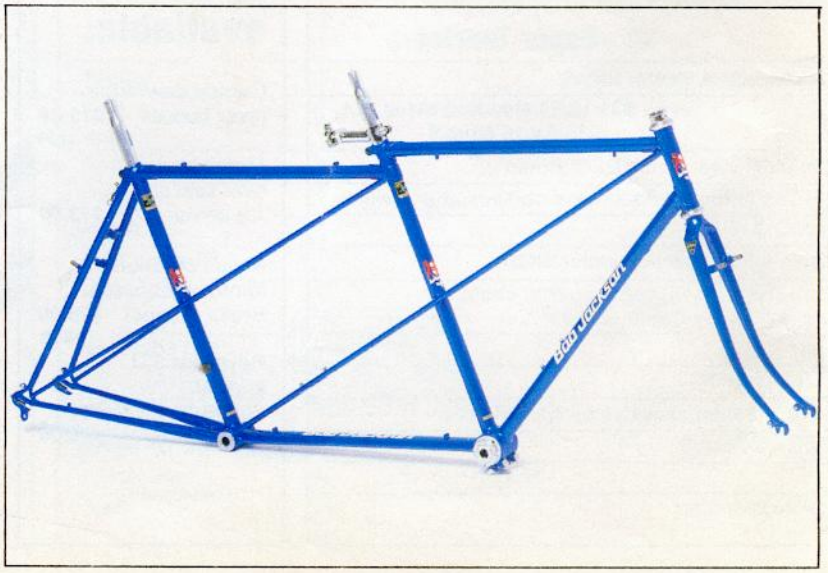


Tourist Tandem 531DB

Jackson is quite well known for his lightweight 531 tandem frame. It features parallel seat tubes, and double twin lateral reinforcing tubes. Any size arrangement can be supplied so long as there is a minimum of 1½ inches between front and rear. Frame geometry is strictly up to Mr. Jackson but the customer may specify any cable routing, wheel size, dropout width, braze-ons, etc., he desires at no extra charge. Also, any choice of color combinations. Deposit of 50% required with order. Allow up to 8 months delivery.

$1150

incl. Special tandem headset



Shimano Dura Ace EX

During 1980, Shimano shot past every other competitor to become the top technical innovator in the worldwide bicycle industry. The new line of Dura Ace AX Aero components has lead the industry into a completely new realm of high performance design. However, we are not cataloging the Aerodynamic items in this edition for two reasons: the product will not be available on the spare parts market until 1982; and there are still very few aerodynamic frames available to accept these parts. What we do stock and enthusiastically endorse is the Dura Ace EX. This is of the same quality but designed to fit conventional frames now on the market. This page doesn't offer the space to elaborate on the great design in every Dura Ace product. So we urge you to follow the Shimano advertisements or write to Shimano direct for a consumer brochure: 9259 San Fernando Rd., Sun Valley, CA 91352.

Dura Ace EX headset

Light alloy with bearing steel ball race polished for full precision. Special labyrinth seal system. AW 106gm/SW 6oz. ***24-022-6*** **$49**



Dura Ace EX rear

Capacity: Fr 13T/Rr 26T. All aluminum body & cage with heat treated stainless steel top pulley. Servo pantograph mechanism; hatch plate chain removal AW 175gm/SW 10oz.

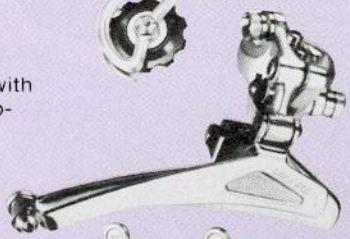
38-174-9 **$45**



Dura Ace EX Front

Capacity 14T or less. Aluminum body with heat treated steel chain guide with Trap-ease mechanism. AW 102gm/SW 6oz.

39-183-9 **$24**



Dura Ace EX levers

Aluminum levers with steel attaching band. Levers are friction plate type with non-slip feature. AW 57gm/SW 2oz.

40-082-0 **$20**



Dura Ace EX (DD) crankset

Shimano #FC-7200. This is same as AX series with full aerodynamic design; W-cut chainring teeth; offset crank arm; One-key release. Accepts EX-DD pedal only. Ring capacity: 39-53. Supplied with: 42/52T 170mm Engl. or Ital. Do not order without matching pedal.

43-561-0 (Crankset, Engl. & Pedals)
43-562-8 (Crankset, Ital. & Pedals)
SW 4 lbs. 4 oz.



Dura Ace EX DD Pedal

Only 173gm including clip and strap. Aluminum body, chromolly axle, cup, & cone. Also fits 600AX and Deore cranks. SW 10 oz.

45-030-4 (Pedal only)
Crankset & pedal **$209**



Dura Ace EX Brakeset

Very light weight (318gm total) SW 2 lbs.

Short reach A39 B49 ***35-005-8***
Normal reach A47 B57 ***35-006-6***
$109





Dura Ace EX stem

There are no externally exposed bolts. Handlebar bolt and steerer tube bolt are both tightened through the single opening atop the stem. AW (7cm) 252gm/SW 1 lb.

70	***22-170-5***	110	***22-174-7***
80	***22-171-3***	120	***22-175-4***
90	***22-172-1***	130	***22-176-2***
100	***22-173-9***		

$29



Dura Ace EX Seat Post

In addition to normal underside one bolt adjustment, there is a fine angle microadjustment bolt. SW 11 oz.

26.8 ***47-100-3***
27.0 ***47-101-1***
27.2 ***47-102-9***
$29

Dura Ace Uniglide chain

Except for titanium chains, this chain is made of better materials with closer tolerances than any other chain on the market, nickel plated. Requires Uniglide chain rivet extractor. 116 links. SW 16 oz.

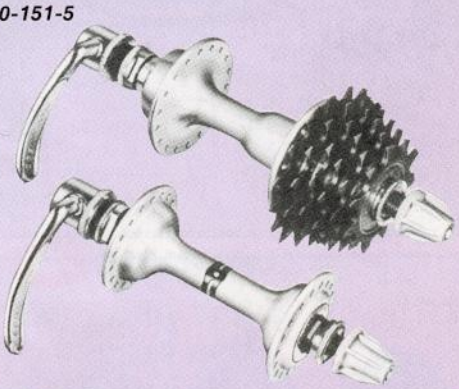
42-032-3 **$35**



Dura Ace EX Freehub

Can be used only with EX rear derailleur. New design with wide bearing spacing for balanced weight load. Quick release cassette sprocket system (not incld). Small flange 36 spoke, Eng.-Ital. only. Unibalanced system permits "front wheel" type dishing.

Fr & 5-spd rear ***30-150-7***
Fr & 6-spd rear ***30-151-5***
$99 SW 2 lbs.



Dura Ace EX Cassette sprockets for Freehub

5 speeds **$17** SW 14 oz.
13-14-15-16-17T ***41-300-5***
13-15-17-20-24 ***41-301-3***

6 speeds **$19** SW 1 lb.
13-14-15-16-17-18T ***41-310-4***
13-14-15-17-19-21T ***41-311-2***
12-14-16-18-21-24 ***41-312-0***

Individual sprockets **$5.00**/each

13 threaded	***41-350-0***
14 threaded	***41-351-8***
14 splined	***41-360-9***
15	***41-361-7***
16	***41-362-5***
17	***41-363-3***
18	***41-364-1***
19	***41-365-8***
20	***41-366-6***
21	***41-367-4***
22	***41-368-2***
23	***41-369-0***
24	***41-370-8***

COLNAGO FRAMES

America's biggest Colnago dealer... huge assortment for immediate delivery!

New 1981 style with full chrome forks!

Referred to by many as the "Ferrari of bicycles," Signor Ernesto Colnago is the internationally famous designer and builder of winning racing bicycles.

Racing giants like 1980 victors Guiseppe Saronni, Roger De Vlaeminck, and the Soviet team trust Ernesto to design and build them the best frames obtainable for every race. Cost simply does not count at this level of racing. This is Colnago's only passion . . . and he does it better than anyone else in Italy.

Like the Ferrari, a Colnago looks as good as it performs. There is no corner-cutting. Painstaking hand operations are combined with high technology machine tool operations to produce not only a bicycle, but an Italian work of art. All tubes are mitered and pre-fitted with holding pins before silver soldering. Every mark of quality — filing, alignment, fit — is flawless. You are guaranteed that Ernesto personally supervises every stage of production, all of which is done under one roof, in the factory adjacent to his home.

As an additional quality control measure, master Bikecology mechanics inspect all threads, install headset, and check other important details.







Colnago's Accessories

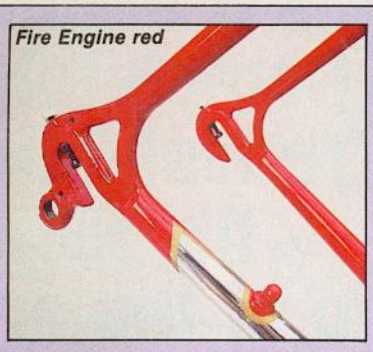
Finest quality . . . features Colnago trademark, made in Italy

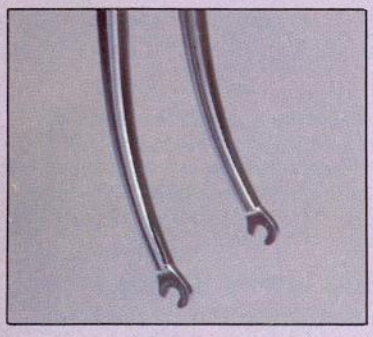
A. Lusso shoe
Build-up sole, long shank, fixed nylon cleat, unusually wide for Italian shoe. Fits D great. Sizes: 40-48. SW 2¼ lbs. **$50**

B. Wool/acrylic shorts
70/30% blend with extra fine chamois. Sizes: 2,3,4,5 SW 10 oz. **$50**

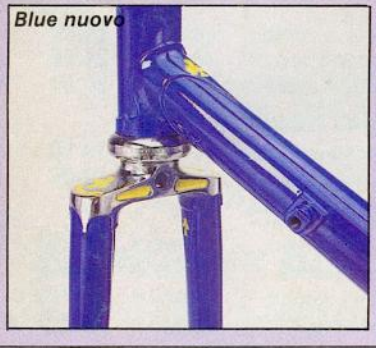
C. Wool/acrylic jersey
70/30 blend with 3 rear pockets, official markings. Sizes: 2,3,4,5,6 SW 12 oz. **$50**

COLNAGO


Fire Engine red




Gloss black


Blue nuovo

Chainstay ends are diagonally filed. Campy Super Record dropouts. Stays indented on wheel and chainring sides is standard on all Italian racers.

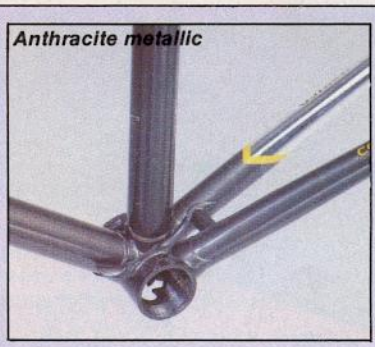
Investment cast BB shell, cut-out with Colnago clover logo, Campy cable guides, massive Columbus chain stay, both models with wheel indention.

Famous Colnago clover cut-out in BB shell of both models. Fine finish is result of costly casting method.

Famous fluted seat stay: a delicate, hollow end with razor fine edges, brake bridge reinforcements. Note fine-edged lug.

Famous Colnago lugs. Top tube cable guides.

Chromed investment cast crown with fancy panta. 2-point fork rake with blade reinforcements, braze-on Campy lever bosses.


Anthracite metallic


SCIC blue


Silver metallic


Saronni red

Models, specifications

We stock the two road racing models, Super and Mexico. They are identical in every respect except tubing (see chart). Both are supplied with the following gear:

Campy BB cable tunnels, chain stay stop, lever bosses, Super Record dropouts that accept chain holder (not supplied) Campy dropout screws. Cinelli investment cast BB. Colnago engraved investment cast fork crown lugs and fork tips.

Measurements:

Fork: Ital thread 22.2mm I.D. 26.4mm crown race
BB: Ital thread 70mm width
Seat tube: 27.2mm I.D.
Dropout width: Fr 100mm; Rr 126mm (for 6 spd)

Prices: frame & fork only

Super 49 - 65cm **$425.00**

Mexico 54 - 63cm **$475.00**

Prices include surface freight anywhere within continental U.S. Call for special Hawaiian & Alaskan rates.

Optional fittings:

Record levers, standard type, installed **$15**

Headset: See pg. 10 . . . we'll install any one purchased from us free when you buy our framesets.

Colors available for 1981:

High gloss black enamel
Fire engine red enamel
Dark anthracite metallic
Light silver metallic
New SCIC blue metallic
Blue nuovo enamel (classic Colnago blue)
Saronni red (candy apple lacquer)

Genuine Colnago Super spare fork

SW 3 lbs. **$150.00**

Steerer tube	Fits frame size	Cat #
180mm	49-54	***23-501-0***
200mm	55-56	***23-502-8***
220mm	57-59	***23-503-6***
250mm	60-65	***23-504-4***

D. Cotton T-shirt
Best quality, body fit. White, Sm, med, lrg.
SW 12 oz. **$10**

E. TTT Record stem
Engraved and painted.
One of the classiest details you can add. Sizes: 7,8,9,10, 11,12,13,14
SW 12 oz. **$30**

F. Campagnolo Super Record seat post 27.2mm
Engraved and painted . . . another "must" for the Colnago purist!
SW 10 oz. **$60**

G. Black alloy toe clip with clover cut-out
Sizes: sm, med, lrg.
SW 2 oz. **$10**

H. Lusso toe strap
Leather/nylon laminated. Guaranteed not to break. White only.
S.W. 4 oz. **$10**

I. Silca-type pump
Bright chrome finish on plastic pump adds elegance to any frame. All sizes to fit our frames.
SW 19 oz. **$10**

K. Campagnolo Super Record chainring
Engraved and painted.
Sizes: 51-55 only (outer)
SW 4 oz. **$40**

COLUMBUS

Chromolly tubing used in Colnago Frames

Tubing	SL Super 49 - 57	SP Super 58 - 65	Record* All Mexico
Double butted top & down	0.6/0.9	0.7/1.0	0.5
Single butted seat	0.6/0.9	0.7/1.0	0.5
Fork blades	0.9	1.05	0.9
Chain & seat stay	0.7	1.0	0.5
Head & steerer tubes	1.0	1.0	0.8
Weight of tube set: grams	2065	2370	1650
Weight: complete frame & fork without headset:	57 cm 5 lb 15 oz	58cm wt: 5 lb 15½ oz.	5 lb. 9½ oz.

*RECORD tubes are single gauge



ship wt.

Steel 1 lb.
Alum 12 oz.

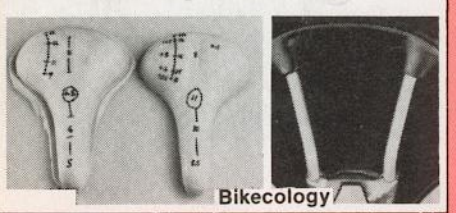
Introducing the Bikecology Series B Seats. Completely redesigned for 1981!

Now the state of the art in both comfort and price!

A shell design that works for you. Not against you.

Our seat shell is constructed to take the shock out of the places of your anatomy that feel it most during riding. For example, we use a high grade pliable nylon to form the shell. It's thin and supple where your body contacts it but thick and hard around the perimeter. This maintains the original shape without sacrificing resiliance. As part of the ongoing improvement program, we've added molded seat pack loops to our 1981 touring seats, eliminating the need to purchase costly and unsightly extra hardware for this purpose. Another improvement in all of our 1981 shells is a unique channel that runs along the seat butt. The leather cover is force-fitted into this channel, then neatly trimmed off. This provides an extra measure of protection against glue separation.

Anatomy of the seat



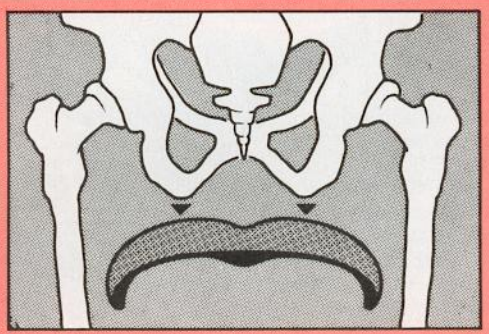
All bumps are not the same.

The most noticeable feature is the bumps on our touring seats. Our molded foam pads are thickest under the pelvic bone and gradually taper down along the side skirts and over the nose. But this is where the similarity between our pads and those of our competitor ends. Our pads are injection molded very slowly and carefully to create maximum material consistency without air bubbles. Notice the difference in thickness in the various areas between our pads and those of our main competitor.

Quality under the seat as well as over it.

We offer heat-treated chrome-plated steel for maximum strength. For those requiring minimum weight, we have introduced a special new aluminum alloy for 1981 that is more reliable than magnesium. However, steel rails are recommended for riders weighing over 150 lbs.

Over the top of our seats we stretch the very



finest glove quality Italian calf leather of guaranteed uniform thickness. This smooth leather is elegantly soft, grainy and supple.

Our suede leather is velvety and extra-fine, never coarse like "cowhide." Besides black, we offer a rich copper brown smooth in our touring models. The seat nose is seamless and the entire cover is tightly molded to the shell and padding for a sleek appearance that will enhance the beauty of any bike.

The racing model: Users write... "incredible"

We went all-out to win over the racers in 1980 by designing a completely new mold. However, we patterned it on the most popular racing seat of all time, the Cinelli. New for 1981 is a full range of models. Tourists who are content without the bump design will also appreciate this seat.

The tourist models: a large selection.

Recognizing the difference in the male and female anatomies, we've made our Tourist seats in men's and women's models. The women's is shorter and wider with different nose, butt, and bump configurations. Both men's and women's Tourist models are designed especially for prolonged periods of riding, and are so comfortable that they need almost no breaking in. This is because the pad measures a full 16mm thick directly under the pelvis. The delicate tissues around the rectum and the internal organs are relieved of considerable pressure and chafing as a result of being slightly elevated over the normal point of contact.

Even our warranty will comfort you.

Bikecology seats are warranted against defects in manufacture for a period of one year from date of purchase. In addition, they are sold on a satisfaction guaranteed basis. If you are not satisfied with the seat, for any reason, you may return it within 10 days for a full refund.

Our new lower prices.

The only thing wrong with our seats is the price. Low price, that is. With our prices so far below those of other fine Italian seats — especially "anatomic" ones — some customers actually feel suspicious. The reasons are simple. Unlike the other brands which are sold through distributors, then dealers, our seats move from factory to us, to you. And our huge sales volume and mail order system permits us to operate on a much lower unit profit than other retailers.

Man's Tourist Models

Steel: black smooth	46-015-4	$19.90
Steel: brown smooth	46-025-3	19.90
Alloy: black smooth	46-045-1	24.90
Alloy: brown smooth	46-065-9	24.90
Alloy: black suede	46-085-7	24.90

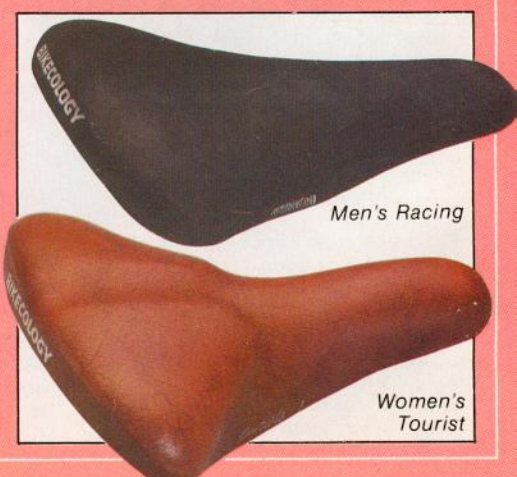
Women's Tourist Models

Steel: black smooth	46-105-3	$19.90
Steel: brown smooth	46-095-6	19.90

Racing Models*

Steel: black smooth	46-086-5	$19.90
Steel: black suede	46-087-3	19.90
Alloy: black smooth	46-075-8	24.90
Alloy: black suede	46-085-7	24.90

Seat pack loops not included



INDEX

Annual Warehouse Clearance Sale
Sat. Sept. 12, 1981 12509 Beatrice St.
10 am - 6 pm Los Angeles, Calif. 90066

FORKS

INDEX

Bike packs, panniers 42-43,54-5
Bike travel bag 38
Bikes, frames 2-4,6-7,48-51
Books 40
Bottle & cage 41
Brakes 24-26,5
Cable & housing 20
Chain 45
Clothing 52-53,56
Cranksets & parts 5,16,17,18-19
Derailleurs & levers 5,22-23
Fenders 40
Forks 9
Freewheels, tools 21
Handlebars 13
Handlebar tape & acces. 45
Headsets 10
Helmets 11
Hubs 33
Knives 47
Lights 46
Locks 39
Lubricants & polishes 39
Odometer 41,5,27
Pedals 27
Pumps 31
Racks 44
Repair stands, wheel jig 35
Rims 34
Seats 8,15
Seat posts 5,14
Shoes, cleats 47
Spokes 32
Stems 5,12
Superlight parts 43
Tires 28-29
Tubes 30
Toe clips, straps 34
Tools 36-37
Touring aids misc. 38
Wheels 26

Toll free outside Calif.
800-421-7153
In California
(213) 306-4731

America's biggest bike shop...

See over 300 custom framesets, tandems, tracks, every imaginable pro class component and many other exotic items on display in our main showroom store:

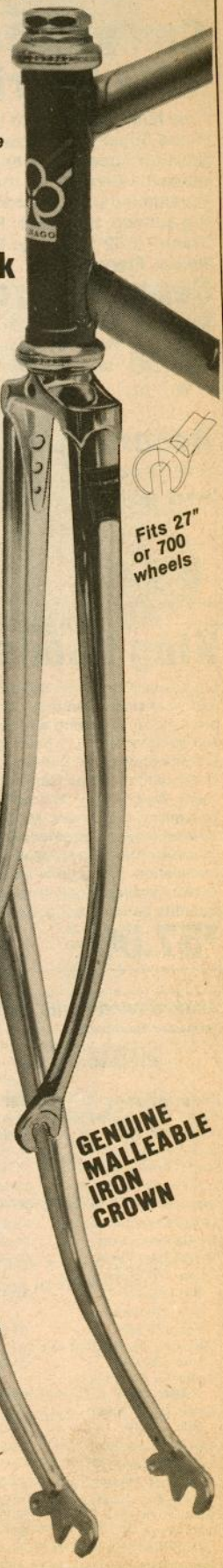
1515 Wilshire Blvd.
Santa Monica, California 90403
(Corner 15th & Wilshire Blvd)
(213) 451-9977

Other fine Bikecology shops in the Los Angeles area:

Beverly Hills • 9101 Olympic Blvd. • 278-0915
Marina del Rey • 4210 Lincoln Blvd. • 821-0766
Culver City • 5179 Overland Ave. • 559-8800
Hours: M-F 10 to 7, Sa 9 to 5:30, Su 10 to 5

FOR AMAZING, IMPROVED PERFORMANCE!

You'll get instant and amazing performance improvement on any bike with our specially designed chromolloy forks. Many riders are so carried away with cranks, derailleurs, etc. that they overlook this easy and safe way to better handling. Our two best models are beautifully polished and chrome-plated. They are factory-milled to accept Campy, Dura Ace, OMAS and other professional headsets which use 22.2 mm stems. All models, extremely well-made in Japan, are taper gauge. You'll find the brazing, filing and overall workmanship are equal to that on the finest bicycles. We strongly recommend a new headset if you have any doubt about the interchangeability of your present one.



Tange Italian-style Cro-Mo racing fork

At last we have our own dream fork! A top quality taper gauge chromolly fork exactly patterned after the most successful Italian bikes including elegant crescent-shaped 2-point bending. Compare the crown to Colnago's. Even more important is the excellent and responsive handling provided by the 45mm (1-¾") rake. Tange forged dropout without eyelet - fancy diagonal-cut blade ends too.

Brake clearance: 500 standard reach side pull.
Hole to axle distance: 362mm.
Crown racing milling: 26.4mm.
A/W 27 oz - S/W 3 lbs

Cat. #	Frame size	Thread	Steer tube I.D.
23-100-1	19-22	English	22.2
23-105-0	23-25	English	22.2

$49.90

Tange Cinelli-style Cro-Mo tour fork

Copy of famous Cinelli forged integral crown which fits inside top opening of fork blade. Brazed-on stiffeners on wheel side of blades. Blade is taper gauge chrome molybdenum. Tange forged tips and fancy end filing. 2 point bend. 55mm rake Crown race milled for 26.4mm (Tange, Campy, DuraAce, etc.) Excellent quality and beauty — Good riding! Fancy gift boxed.
AW 28 oz/SW 3 lbs.
Brake clearance: "500"
Hole to axle: 367mm

$49.90 19-22 ***23-120-9***
23-25 ***23-125-8***



Tange standard type fork

Hi-tensile steel with eyelet & brazed-on tip. Model used on most $175.00-type Japan bikes like Nishiki, Schwinn, Ral, Fuji Centurion, 2" rake. Long reach brake clear. One-point bend. AW 34 oz/SW 3 lbs.

Hole to axle distance 375mm
Other specs same

$16.90

Cat. #	Frame size	Thread	Steer tube I.D.
23-150-6	19-22	English	22.2
23-155-5	23-25	English	22.2
23-160-5	19-22	English	.833"
23-165-4	23-25	English	.833"



To insure a correct fork

A) ***Check the information on Headsets page.***

B) Italian bikes: We don't stock Italian (55 degree thread angle) **threaded** fork. English thread is so close to Italian that you can use it.

C) Every order must include this info:
1. Frame size.
2. Steer tube inside diameter:
22.2mm - Engl, Ital, most Japan.
22.0mm (21.85) - French, Swiss. .833" - U.S., some Japan.
3. Steer tube thread: French, English.



HEADSETS

INCREASED SAFETY & MANEUVERABILITY!

Campagnolo

Campy headsets with bearings

This headset has been our biggest seller in the Super Record series because its superior appearance and lighter weight make it a bargain for the price. Made of duraluminum with hardened steel bearing surface. Ball sizes: Road - 3/16"; Track - 5/32". Specify: English, Italian, French.



Super Record

Road Engl. *24-151-3*
Fr. *24-155-4*
$59.90 Ital. *24-153-9*
S.W. 9 oz.

Record Road

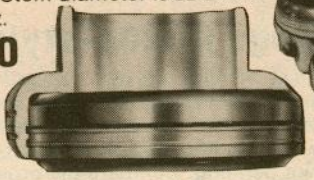
S.W. 12 oz. Engl. *24-141-4*
Fr. *24-145-5*
$39.90 Ital. *24-143-0*

Shimano 600EX



Completely new and original design. Features double-jointed precision bearings for perfect permanent adjustment and water-dust protection. Made of aluminum with a beautiful high polished anodized finish. Lock nut has a unique hexagonal shape. Fits fork crown race of 26.4mm which is same as Campy, Dura Ace, etc. Stem diameter is 22.2mm. S.W. 9 oz.

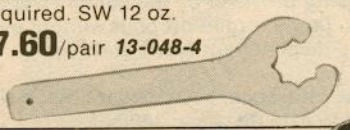
$19.90 *24-021-8*



Shimano EX headset tools

2 required. SW 12 oz.

$17.60/pair *13-048-4*



O.M.A.S. headset



Used on more and more top Italian racing bikes. Top quality in every respect. Made of super-light anodized aluminum. Ball races are forged, heat treated and precision ground. Large number of ⅛" balls of 2 micron tolerance provide more contact points than fewer larger balls and thereby spread the load better. Large, gracefully rounded ball cups create an unusually distinctive appearance.

Take advantage of our factory direct price on this fine headset. Definitely equal to Campy Super Record. Now available in beautiful anodized colors as well as silver.
S.W. 9 oz.

Type	Silver	Black	Blue
Italian	*24-051-5*	*24-053-1*	*24-055-1*
English	*24-061-4*	*24-063-0*	*24-065-5*
French	*24-071-3*	*N/A*	*N/A*
	Gold	Red	$33.00
Italian	*24-059-8*	*24-057-2*	
English	*24-069-7*	*24-067-1*	
French	*N/A*	*N/A*	

BEST BUY!

King headset



Hand-machined from solid 7075-T651 bar stock aluminum. Precision grade, threading and sealed, full complement U.S. bearings. Choice of Engl, Fr, and Ital sizes, designed to replace Campy Record equipment. Weighs only 96 grams total. Polished to a mirror brightness. Made for us locally by a bike-loving engineer. Hundreds already in use with excellent results. Includes complete installation instructions and special tool required. Quality available only through small quantity hand working. SW 6 oz.

$57.00 Engl. *24-011-9*
Fr. *24-015-0*
Ital. *24-013-5*

Tange "NEW" Levin headset



Improved design!

Our #1 seller restyled with name engraved on bearing covers like Campy bearing and larger oscillating angle of 43 30'. Can't distinguish from Campy at 2 feet distance. Precision ground, forged heat-treated races. 8 pieces. Micro adjusting, deep chrome plating. English thread only.
Locknut inside diameter: 22.4mm
Crown race diameter: 26.4mm
Head tube races diameter: 30.0mm
A/W 8 oz - S/W 11 oz *24-031-7* $12.90

Discontinued items Inventory Liquidation Sale

Fantastic bargains . . . hurry ***All sales final! Absolutely no refunds or exchanges.***

Terms and conditions

All merchandise is new and free of defects. Most are fresh but some are dusty or slightly shopworn. Quantities are limited so hurry. Prices are well below current dealer's cost. Order by item's number. Any mail order prepayments will be refunded if the stock is out at the time the order is received. Please don't ask our telephone operators to bargain or provide extra information about these items.

Description	DP #	Retail Value	Sale Price
OMAS Steel Eng. 68 BB	43-610-5	49.95	20.00
Barelli Heel Plate	03-989-1	2.95/pr.	.50/pr.
Barelli Alum. Pedal	45-200-3	59.75/pr.	20.00/pr.
Strum.-Archer AW 36H Hub	33-041-5	31.50	15.00
CLB Pro Brakeset 500	35-615-4	109.00/set	50.00/set
Gran Compe 400 Brakes	35-097-5	65.00/set	39.00/set
TA #36 Criterium Cleat	03-935-4	2.50/pr.	1.00/pr.
TA #38 Road Cleat	03-936-2	3.50/pr.	1.00/pr.
TA #39 Track Cleat	03-937-0	2.50/pr.	1.00/pr.
Camp. TRK Hubset 36H Eng. S.F.	30-421-2	80.00	35.00/pr.
Camp. TRK Hub Front SF 36H	31-080-5	45.00	20.00
Camp. Lg. Fl. Track Hub - 36H Ft.	31-090-4	40.00	20.00
Camp. Lg. Fl. Track Hubset - 28H	30-424-6	88.00	45.00
Camp. Lg. Fl. Road Hub - 24° Rr.	32-269-3	45.00	10.00
Ideale/Brooks Seat Tool	13-278-7	2.95	1.00
Artisan Crank Bolt Spanner - 16mm	13-020-3	3.90	1.00
Gant Glove - Sz 6½	50-556-0	19.50/pr.	5.00/pr.
Gant Glove - Sz 7	50-559-4	19.50/pr.	5.00/pr.
Gant Glove - Sz 10	50-579-2	19.50/pr.	5.00/pr.
Camp. 1044 Seat Post 25.0	47-171-4	39.50	15.00
Camp. 1044 Seat Post 26.6	47-176-3	39.50	19.00
Camp. 1044 Seat Post 26.8	47-177-1	39.50	19.00
Camp. 1044 Seat Post 27.0	47-178-9	39.50	19.00
Camp. 1044 Seat Post 27.2	47-179-7	39.50	25.00
Camp. 1044/a Seat Post 27.4	47-170-6	45.00	25.00
Colnago Headset Gld. - Ital.	24-100-0	35.00	25.00
Colnago Headset Blu. - Ital.	24-101-8	35.00	25.00
Colnago Headset Blk. - Ital.	24-102-6	35.00	25.00
Colnago Headset Sil. - Ital.	24-103-4	35.00	25.00
Alum. Tube Seat Post 26.0	47-250-6	3.99	1.50
Alum. Tube Seat Post 26.6	47-253-0	3.99	1.50
Alum. Tube Seat Post 26.8	47-254-8	3.99	1.50
Alum. Tube Seat Post 27.0	47-255-5	3.99	1.50
Alum. Tube Seat Post 27.2	47-256-3	3.99	1.50
SR Royal Seat Post 26.6	47-070-8	13.90	5.00
SR Royal Seat Post 27.0	47-072-4	13.90	5.00
Arnold Alum. H'Bar Binder 32mm	22-462-6	4.70	2.35
Dura Ace Gum Hoods Old Style	36-250-9	6.50/pr.	3.00/pr.
Dia-Compe White Hoods	36-100-6	3.20/pr.	.75/pr.
Mafac White Lever Top Hood	36-450-5	1.95 ea.	75/pr.
Universal 68 Brake Shoe/Pad	36-495-0	1.00 ea.	$1.00/4
Rear Axle Wing Nut	32-685-0	2.00/pr	.50/pr.
27" Cyclometer	08-016-8	2.95	1.00
Bikecology Helmet '80 Model XS	50-300-3	21.90	13.90
Bikecology Helmet '80 Model S	50-305-2	21.90	13.90
Bikecology Helmet '80 Model M	50-310-2	21.90	13.90
Bikecology Helmet '80 Model L	50-315-1	21.90	13.90
Bikecology Helmet '80 Model XL	50-320-1	21.90	13.90
Universal CX Brake Lever Hndl.	36-497-6	14.95/pr.	2.00 ea.
Pavarin Nail On Alum Cleat	03-999-0	3.95/pr.	1.00/pr.
Swiss Army Knife Pouch, Lrg.	08-252-9	6.00	2.00
Transverse Cbl. 110mm for C.P.	36-148-5	1.25	.40
Rhode Gear Rack, '80	54-305-8	16.90	10.00
Plastic H'Bar Plugs - Wht.	21-460-1	.65/pr.	.10/pr.
Plastic H'Bar Plugs - Lt. Blu.	21-461-9	.65/pr.	.10/pr.
Dura Ace Axleset, Front	31-420-3	12.50	4.00
Dura Ace Axleset, Rr. 5-spd	32-510-1	13.00	4.00
Universal Brake Lev. Adj. Rub. Cvr.	36-496-8	1.00 ea.	.50/pr.

Continued pg. 13

The state-of-the-art cycling helmet . . . by Supergo

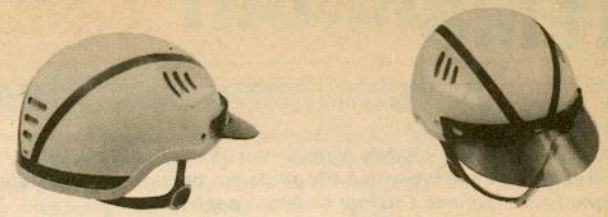
For several years, riders demanding top safety have also had to accept Bell's awkward styling and tricky velcro fitting pads, not to mention the $39.95 1981 suggested retail price. Now you can have beautiful styling and a reasonable price as well as the highest level of safety obtainable in a ventilated helmet design.

After several years of development, Supergo has introduced its outstanding new fiberglass cycling helmet featuring expanded polystyrene foam lining. The outstanding success of Bell's Biker helmet is most commonly associated with its molded "styrofoam" lining. The safety qualities of this approach are no longer in doubt as the Helmet Safety Council continues deliberations on the subject of an official recommendation of styrofoam lining on all cycling helmets.

Supergo is not new to helmet making. It was the maker of our highly successful Bikecology fiberglass helmet. We sold thousands to satisfied customers at a very reasonable $21.90. Considering the very high tooling cost involved in a molded styrofoam design, our special low introductory price is quite a bargain. We urge you to take advantage of the low price soon as it surely can't continue in our next edition. We're confident you'll recommend this outstanding helmet to all you cycling friends.

SW 1½ lbs. ***50-200-5***

Universal size





Special low introductory price

$29.90

Bell Biker helmet

Bell has a tradition dating back 20 years for uncompromised excellence in head protection. The cycling helmet endured months of testing and evaluation in the laboratory and in the field. It's been proven under every possible type of cycling use. It's light, provides outstanding shock absorption, is well ventilated, and protects against intrusion of foreign objects. Its red nylon retention system is fully adjustable and keeps the helmet squarely centered with no annoying slip. The system features an improved positive-locking D Ring with an integral quick-pull tab for fast removal.
Sizing is achieved by means of quick-attaching Velcro fasteners on each pad. Various lengths are available to enable us to give you a perfect fit.

Construction

The outer shell is high impact Lexan, chosen for its high strength-to-weight characteristic. Beaded polyester polystyrene forms the shock absorbing inner liner and is soft and washable. Wide angle, uninterrupted vision and red reflective racing stripes add to the safety.

Comfort

Wide-tunnel tested air scoops induce a constant flow of fresh air through the helmet, keeping rider cool even on the hottest days.

Guarantee

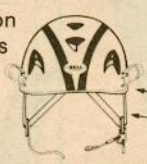
Any Bell cycling helmet found to be defective by the Bell factory within one year from date of sale to the original purchaser for use will be repaired or replaced at the option of Bell and returned to you without charge.

SW 2 lbs.

$35.00



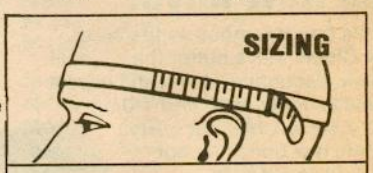
Cross section shows Lexan outer shell, poly styrene beaded liner, sizing/comfort pads.





Arrows show air-cooling flow through helmet.

Size	Cat #
6⅞	***50-005-8***
7	***50-010-8***
7⅛	***50-015-7***
7¼	***50-020-7***
7⅜	***50-025-6***
7½	***50-030-6***
7⅝	***50-035-5***
7¾	***50-040-5***



How to determine your correct helmet size

Use fabric tailor's tape. Give us circumference in inches. Not hat size.

If the Bell Helmet we ship you does not fit...

1. Check to see if we shipped what *you* ordered. If not, return the helmet.
2. If you ordered incorrectly, send us $3.00, all the velcro sizing pads, and an explanation of the problem. We'll send you the appropriate sized velcro pads to correct the fit. Do not return the helmet.

STEMS

SR stems

We offer you three new models from SR for 1981. The impressive Four-Sir pro aerodynamic which fits all Italian bars, the completely redesigned aerodynamic Custom and the special long new SAS.

Four-Sir Pro

Cold forged from SR's finest aluminum, highly polished and anodized. Rugged enough for the strongest racers. Both bolts are stainless steel with 5mm hex heads. Length: 135mm. Five extensions. Steerer tube Ø 22.2mm; bar Ø 26.4mm.

Extension	Weight	Cat. No.
120	250	*22-164-8*
110	240	*22-163-0*
100	230	*22-162-2*
90	220	*22-161-4*
80	210	*22-160-6*

only **$19.90**
SW 1 lb.



New Custom Aerodynamic

Made of melt forged aluminum, anodized. Fits all Japan bars (except F-S). Surprising quality and performance for such a low price. Requires 6mm hex wrench. 150mm length. Steerer tube Ø 22.2mm

Extension	Weight	Cat. No.
100	330	*22-060-8*
80	300	*22-061-6*
60	280	*22-062-4*

SW 12 oz.
$11.90



SAS Swan Stem

Amazing 210mm long. For riders who prefer an almost vertical position. Longest stem on the market. 22.2mm Ø x 50mm extension only.
AW 370 gm/SW 1 lb. **$11.90**
22-151-5.

SR New Royal

This one is famous as the copy of Cinelli that's better than Cinelli. Now discontinued. We still have a small supply of 70 and 110mm x 22.2 Ø available, but hurry. 5mm hex bolts, fits our World series bars.

Extension	Weight	Cat. No.
70	235	*22-051-7*
110	285	*22-053-3*

$20.00
Factory discontinued.
SW 12 oz.



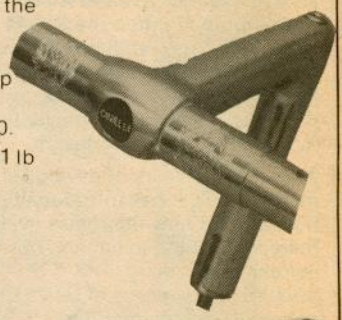
Cinelli stems

Cinelli art. 1/Record

Six millimeter hex bolt is hidden under the extension giving the binder a more streamlined appearance. This binder bolt actuates an internal grooved clamp which grasps the handlebar grooves. Dia. 22.2, Extensions: 100, 110, 120, 130.

Cinelli 1/Record **$39.90** SW 1 lb

Extension	Cat #
95	*22-271-1*
100	*22-266-1*
105	*22-272-9*
110	*22-267-9*
115	*22-273-7*
120	*22-268-7*
125	*22-274-5*
130	*22-269-5*
135	*22-275-2*
140	*22-270-3*



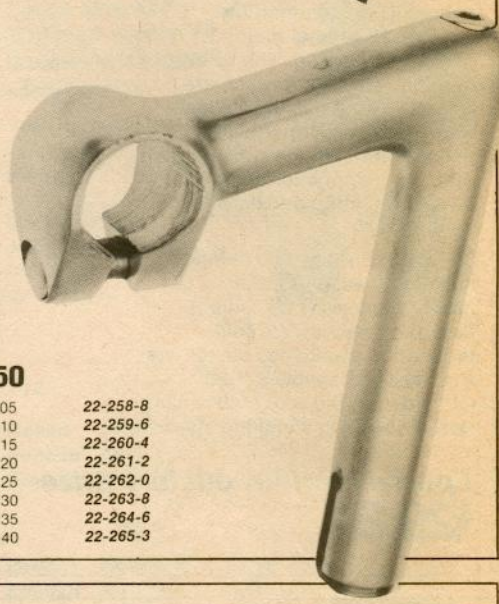
Cinelli art. 1/A

Please specify a second size choice in case your first is out of stock.

Available in: 22.2 Eng, It, Jap.
SW 1 lb

Cinelli 1/A **$26.50**

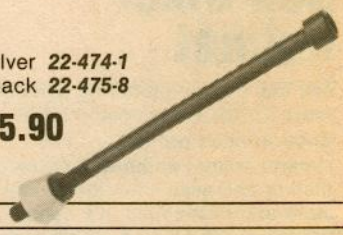
Extension	Cat #	Extension	Cat #
70	*22-251-3*	105	*22-258-8*
75	*22-252-1*	110	*22-259-6*
80	*22-253-9*	115	*22-260-4*
85	*22-254-7*	120	*22-261-2*
90	*22-255-4*	125	*22-262-0*
95	*22-256-2*	130	*22-263-8*
100	*22-257-0*	135	*22-264-6*
		140	*22-265-3*



OMAS Alum expander bolt (6mm)

Superlight heat treated aluminum bolt and cone weighing only 25 grams replaces Cinelli, TTT and other pro original equipment of 63 Grams or more. SW 3 oz.

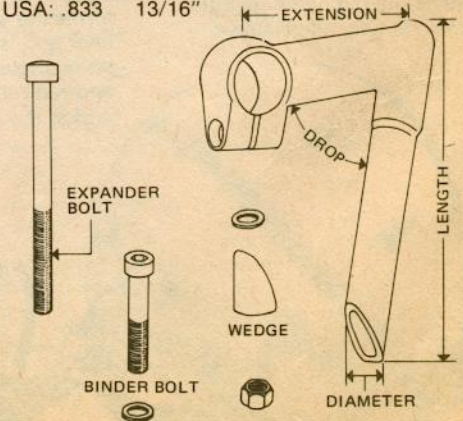
Silver *22-474-1*
Black *22-475-8*
$5.90



Handlebar Stem: Measured from center of stem bolt to center of handlebar at clamp.

Inches	*cm*
1-37/64	4
2	5
2-25/64	6
2-19/32	6.5
2-3/4	7
2-61/64	7.5
3-5/32	8
3-11/32	8.5
3-35/64	9
3-3/4	9.5
3-15/16	10
4-1/8	10.5
4-21/64	11
4-23/32	12
5-1/8	13
5-33/64	14

Common Stem Diameters:
Italian, English, Japanese: 22.2 7/8"
French 21/85 less than 7/8"
Japanese (some), and USA: .833 13/16"



SR handlebars

Cinelli's reputation for good design, performance, and appearance is definitely well deserved. But don't infer that SR handlebars are inferior on the basis of the price difference. Cinelli products are quite overpriced as a result of U.S. marketing arrangments beyond our control. If you want the finest quality and performance for a fair price, try SR handlebars and stems at our extremely low factory-direct prices.

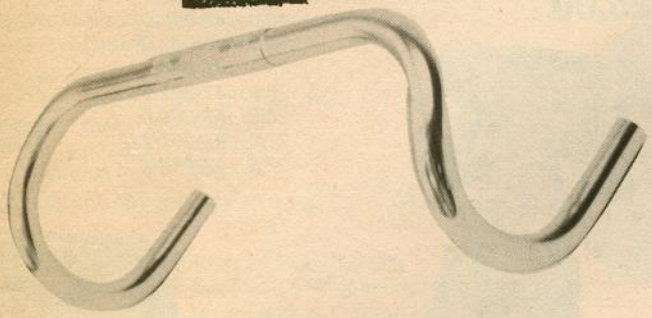
SR Four-Sir

The new top-of-the-line model is shaped identically to Cinelli's best selling model 64. The double tube center section is elegantly engraved, and the entire bar is anodized. And in answer to popular demand, the Four-Sir's stem diameter is Italian 26.4mm to fit every Cinelli and TTT stem. Four-Sir is the only Japanese stem that fits this bar.

Special introductory price **$19.90**
AW 310 gm/SW 1 lb 10 oz.

2 widths:
40 cm ***20-042-8***
42 cm ***20-043-6***

BEST BUY!



SR "World Series"

Also top quality aluminum bars with double tube center section, anodized and engraved. Fits all Japan stems except Four-Sir. Two popular styles:



Randonneur
Reach 97mm, Width 42cm.
AW 305 gm/SW 1 lb 10 oz.
20-055-0
$11.90

Custom
Same bend as Four-Sir (Cinelli 64).
Reach 97mm; drop 130mm AW 300 gm/SW 1 lb 10 oz.
2 widths:
39cm ***20-035-2***
42cm ***20-040-2***
$12.90



SR All Rounder

Very efficient aluminum bar with palm facing forward. Promotes forward lean, better weight distribution than other upright types. Bulged center section fits all Japan stems except F-S.
AW 108 gm/SW 1 lb.
20-045-1
$8.90



Cinelli #64 handlebar

Proven reliable on more pro racing bikes than any other brand . . . the brand all the others copy. In 1981, we are stocking only model 64 because it's the one ordered by 95% of our customers. Excellent racing or touring design. 26.4mm Ø.
38cm ***20-005-5***
40cm ***20-010-5***

$24.90
AW 310 gm/SW 1 lb 10 oz.



Inventory Liquidation Sale

Continued from pg. 10

Shipping - handling charges
Mail Orders Paid with check: See shipping rates in our 1980 catalogs.
Telephone and mail orders with Credit Card: We'll charge you the correct amount.

Description	DP #	Retail Value	Sale Price
Sun Tour Pro-Comp. 14/30 6-spd.	41-057-1	15.00	7.00
Sun Tour Pro Comp. 14/24 6-spd.	41-055-5	15.00	7.00
SR Apex Stem 90 x 22.2 Blk.	22-110-1	9.50	4.90
Ideale Seat Clamp	47-501-2	2.75	1.50
Bike Travel Bag	51-621-1	75.00	38.00
Rhode Gear H'Bar Hide Black	21-091-4	12.90	5.00
Rhode Gear H'Bar Hide Tan	21-092-2	12.90	5.00
Sun Tour Pro-Comp. 14-24 Fren.	41-050-6	12.50	4.99
Silca Frame Pump 440 Dk. Blu.	55-010-3	9.50	3.00
Silca Frame Pump 440 Red	55-009-5	9.50	3.00
Silca Frame Pump 540 Org.	55-060-8	9.50	1.00
Schraeder Pump Hose for Frame Pump	55-606-8	.95	.10
Pump Clips, Zefal Peg Type	55-607-6	1.25/pr.	.50/pr.
Colnago Stl. Toe Clips Small	45-624-4	7.50/pr.	3.75/pr.
Colnago Stl. Toe Clips Med.	45-625-1	7.50/pr.	3.75/pr.
Clement 24" Sew Up Latex	28-003-2	20.00	10.00
Clement 24" Sew Up Butyl	28-004-0	20.00	10.00
27 x 1-1/16 Skinwall	27-225-2	5.00	1.00
SR Cust. Stem. .833 x 100mm	22-103-6	9.50	3.00
24" Whl. Fork, .833 Eng.	23-276-9	16.90	9.00
27" Whl. Fork, .833 19-22	23-160-5	16.90	5.00
27" Whl. Fork, .833 23-25	23-165-4	16.90	5.00
Shimano Link Lock 1/8"	42-035-6	4.00	2.00
Sturm.-Arch. 3-spd. Cbl./Hsng.	33-165-2	2.95	1.50
Shimano 3-spd. Cbl./Hsng.	33-119-9	3.50	1.50
"Food for Fitness"	08-464-0	3.95	2.50
Taihei Alum. Seat Post 26.8	46-011-3	8.90	2.00
Taihei Alum. Seat Post 27.0	46-012-1	8.90	2.00
Taihei Alum. Seat Post 27.2	46-013-9	8.90	2.00
Bullseye BB - Eng.	43-399-5	50.00	28.00
Shim. 600 Brake Lever with Hood	36-250-9	13.50/pr.	4.00 ea.
Clement TRK Glue	08-153-9	2.00	.50
Shimano Radiax Brakeset	35-620-4	12.95	5.00
1980 Catalog Style Ladies Tour Short 6 Stl. Bl.	03-192-2	19.90	9.90
Ladies Tour Short 8 Nvy. Bl.	03-204-5	19.90	9.90
Ladies Tour Short 8 Stl. Bl.	03-202-9	19.90	9.90
Ladies Tour Short 10 Nvy. Bl	03-224-3	19.90	9.90
Ladies Tour Short 10 Stl. Bl.	03-222-7	19.90	9.90
Ladies Tour Short 12 Nvy. Bl	03-244-1	19.90	9.90
Ladies Tour Short 12 Stl. Bl.	03-242-5	19.90	9.90
Ladies Tour Short 14 Nvy. Bl	03-264-9	19.90	9.90

Campagnolo

New Super Record*

Due to popular demand, this is the only model we stock. Typical fine Campy precision and quality. Adjustment is by hex head bolt from underside.
Length: 210mm.
AW 215 gr/SW 10 oz.
26.8 ***47-187-0***
27.0 ***47-188-8***
27.2 ***47-189-6***
$54.90



**Available with Colnago engraving. See page 2-3.*

Order correct size!

Typical — but not definite — seat post sizes

Reprinted from Sutherland's Handbook for Bicycle Mechanics. 2nd Edition.

Note: We measure all seat post lengths in effective lengths only: i.e., the widest area only and *not* the clamp section. The effective length is generally about 25mm shorter than the actual length to the top of the clamp.

	Common Tubing	Quality Tubing Plain Gauge	Quality Tubing Butted
English	(25.4) (25.8) (26.2)	26.4 26.6	27.0 27.2
French	25.0 25.5 25.8 26.0	26.2	26.4 26.6
Italian	25.0 25.8 26	26.0 26.2	26.8 27 27.2
Japan	25.8 26.2	26.2	26.4 26.6 26.8 27.0

We cannot be responsible for customer errors in seat post orders. But we're sympathetic so we'll exchange an incorrectly ordered post if:
1) it is unblemished and bears no evidence of deep insertion; and
2) it is accompanied by correct return postage to your address plus $1.00 handling.

Easy Way for Correct Size Post
1) Cut off last ¼" from old post and send it to us with order.
2) State make, model and tubing of bike.

Remember — grease before insertion!



Cro mo seat tube binder bolt and wrench

A top quality chromolly bolt made by KKT of Japan. 8mm diameter. Hex size: 5mm. Three sizes. AW 10 gm/SW 2 oz.

Lengths	Cat. No.
22mm	***47-581-4***
25mm	***47-582-2***
27mm	***47-583-0***

only **$4.95**



To determine the correct length for your bike:
1. Make sure the hole is large enough to accept an 8mm diameter bolt.
2. Measure the outside distance between the two holes in your seat tube. When in doubt, order the next larger size.

Campy seat lug binder bolts

Special tempered steel, chrome plated. Requires 5mm hex wrench (not included).
AW 8 gr/SW 2 oz.

8mm diameter ***47-587-5***
(fits 90% of bikes)

10mm diameter ***47-588-3***

$4.95



O.M.A.S. aluminum seat lug bolt

Strong, heat treated, best quality obtainable. Incredibly light 2½ grams yet withstands the most powerful racers. Maximum opening 27mm. Closed length: 23½mm. Hex size: 5mm. Dia: 8mm. Silver. SW 1 oz.
47-620-0

Only **$4.90**



SR Laprade

The "Laprade" design is the only one you should consider. Simple one bolt adjustment allows fast, complete fine tuning compared to the slow, difficult experience with old fashioned 2 bolt top adjusting posts. This design is now used by every major manufacturer. SR offers two excellent aluminum Laprade posts, the economical Custom and the professional FS. They are equally reliable and functional. Adjustment is by 6mm allen wrench (not included).

FS Professional

Cold forged of the finest aluminum, machine turned, hand polished and anodized. Same precision appearance as Campy at half the price!
AW 200 gr/SW 10 oz.
Length: 190mm
26.8mm ***47-096-3***
27.0mm ***47-097-1***
27.2mm ***47-098-9***
$25.00

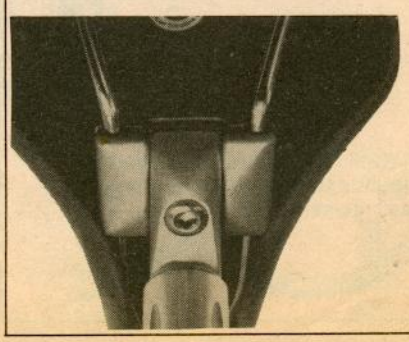
Custom CT-P5

Lightweight and functional... outstanding value at our special low factory direct price. SR is the world's largest forger of aluminum bike components and this results in such a surprising price. We stock the popular extra long 220mm length in all popular sizes. AW 270 gr/SW 11 oz.
25.4 ***47-060-9***
25.8 ***47-061-7***
26.0 ***47-062-5***
26.2 ***47-063-3***
26.4 ***47-064-1***
26.6 ***47-065-8***
26.8 ***47-066-6***
27.0 ***47-067-4***
27.2 ***47-068-2***

$13.90



BEST BUY!



SW 2 oz.
13-042-7
6mm allen wrench for above
85c

SEATS

Ideale Seats

IDÉALE

For those clients who prefer the classic feel, beauty, and value of genuine leather seats, we recommend Ideale of France. These seats are one of the most labor intensive, traditionally made products in our catalog. All of our models are made from Ideale's finest grade cowhide of 5mm uniform thickness. And, unlike some firms, we stock the special "hand treated" version exclusively. The name "Rebour" engraved on each hide means a seat which is comfortable the first time you use it. All models feature rich copper rivets and excellent chrome plating. We offer 5 popular models to cover the full range of cycling. None are fitted with seat pack loops but they are available separately.

"rodée main" selon Rebour



Model 90

The classic general-purpose model. It measures 156 x 252 mm and is fitted with normal diameter copper rivets. There are two versions: steel and aluminum.

90/Steel

Chromed steel rails. No clamp. The butt plate below the rear rivets is steel.

Natural tan leather ***46-171-5***
Black leather ***46-181-4***

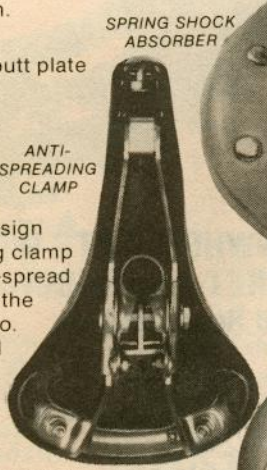
$35.00 AW 563 gr/SW 2 lb 6 oz.

90/Aluminum

Completely unique undercarriage design consisting of built-in micro-adjusting clamp with shock absorber spring and anti-spread device to eliminate excess flexing of the aluminum. But plate is aluminum also. NOTE: This model must be mounted on plain tube seat posts exclusively. AW 500 gr/SW 2 lb 2 oz.

Natural tan leather ***46-201-0***
Black leather ***46-191-3***

$39.00



Model 88 Racing - low profile

Completely new, low profile design. Narrower in mid section, and butt leather is flared away to eliminate weight. Rides lower over rails than 90. Aluminum butt plate and double diameter copper rivets. Steel rails. Sold without clamp. Black only. AW 475gm/SW 2 lb.

46-221-8
$50.00



Model 92 Touriste Man

This is basically an oversized Model 90 designed for larger people. It measures 270 x 168mm and is fitted with steel rails, steel butt plate, and normal rivets. Natural tan only SW 2½ lbs.

46-211-9
$40.00



Model 92 Touriste Lady

New this year to answer the demand of many women who want a female anatomy design in a classic leather seat for touring. Same construction as above. Natural tan only.

46-215-0
SW 2½ lbs.
$40.00



Brooks Seats

So many riders are familiar with Brooks of England that we decided to expand the selection this year. These models are considerably firmer and narrower than the comparable Ideale 88 and 90 models. They have practically zero flex! Both feature copper rivets, steel butt plates, treated leather. Two popular models:

Professional

Normal diameter rivets and chromed rails. AW 532 gr/SW 2½ lbs. Dark brown leather only.

$40.00 ***46-135-0***

Professional Select

Same as above but fitted with extra large diameter copper rivets and black rails. Mounted in beautiful gift box. Tin of Proofhide included. AW 540 gr/SW 2½ lbs.

$50.00 ***46-125-1***



Brooks proofide leather dressing

Restores, conditions, and preserves leather seats (not intended for suede & cowhide). Use on any smooth leather! SW 3 oz.

46-811-6
$3.50

FOR FAST BREAK-IN!



Seat pack loops

Attach to seat rails. Chrome plated. Free freight.

08-051-5
$3.50



Genuine Ideale seat cover

Waterproof. SW 2 oz.

46-801-7
$2.50



Concor by San Marco of Italy

The revolutionary seat that's taking over the European racing circuit.

The Concor was used by giants Hinault and Saronni and is standard on several top Italian racing bikes, including Colnago. Its radical design is actually very comfortable and efficient despite its light weight and minimal bulk. Made of molded nylon with very rich genuine leather covers. SW 19 oz.



Concor Models

Steel rails			Magnesium alloy rails		
Black smooth	***46-151-7***	**$33.00**	Black smooth	***46-156-6***	**39.00**
Black suede	***46-152-5***	**33.00**	Black suede	***46-157-4***	**39.00**

46-158-2
35.00

Special Concor Maxi model

Recommended for 6'2"— 210 lb range. Steel rails and black suede only.

Sakae SR Super Apex Tourist -28T LOW



SW 2½ lbs.

We were the first to introduce this model to the American public last year. SR is the world's largest manufacturer of forged aluminum cycle parts and as such is able to offer tremendous value for the dollar. The Super Apex is an exact copy of the French Stronglight 99 tourist crankset which was so popular due to the breadth of gear choices: 28 to 54 teeth! It's also a cheap source of spare parts for the French product because it is interchangeable.

We recommend this set for every tourist who wants all the features of costlier sets at a bargain price which you won't find elsewhere.

Important features not found on other brands in its price range:

- ***One-piece forged arm/spider rather than pressed type.***
- ***Female type axle ends rather than male (bolt) type.***
- ***Chrome plated allen chainring fixing bolts instead of hex head type.***
- ***Anodized finish.***
- ***Available in double and triple.***

Stock double crankset

32/52T Engl 68mm BB w/ 170mm arms

$49.90 *43-413-4*

Changes-choice of any below:
BB thread: French w/ 68mm; or Italian w/ 70mm
Chainrings: 28, 32, 34, 36, 42, 48, 50, 54

$54.90

Stock triple crankset

28/40/52T Engl 68mm BB w/ 170mm arms

$56.90 *43-422-5*

Changes - same choices listed under double.

$61.90

***NOTE:** 30-tooth ring and other crank arm lengths are not avail.*

Campagnolo



CHAINWHEEL SETS WITHOUT BOTTOM BRACKET ASSEMBLY

Record Road double #1049

42/52TX170mm.
Add **$5.00** for other rings, **$10.00** for other arms. SW 2 lbs.
43-731-9 **$120.00**

Super Record Road double #1049/A

42/52TX170mm.
Add **$5.00** for other rings, **$10.00** for other arms. SW 2 lbs.
43-756-6 **$149.00**

COMPLETE CRANKSETS

Nuovo Record Road double #1048

Contains: Record arms and chainrings as pictured. The bottom bracket assembly is the latest version with special alloy steel axle and cups. Includes plastic sleeve. Tools not included.
SW 2½ lbs.

Stock size:
42/52T Engl 68mm, 170mm arm *43-721-0*
42/52T Ital 70mm, 170mm arm *43-722-8*

$149.00

#1048 with other chainrings:
Chainring sizes:
43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57
Add **$3.00** for each change

#1048 with other crankarms:
Arm lengths:
165, 167.5, 172.5, 175mm. Please allow extra time for special orders.
Add **$5.00**

#1048 with French BB assembly:
Add **$5.00**

Super Record Road double #4030

Same arms as #1048 but lightened chainrings and the best quality BB assembly with titanium axle. Your choice of any rings 42 - 57 and any arms 165 - 180mm. Please allow extra time for special orders.
SW 2½ lbs. *43-755-8*

$275.00

Sugino

ship wt. 2½ lbs.

CRANKSETS

The Sugino cranksets offered here are the finest obtainable from Japan. Every part, except the tour arms and chainrings are interchangeable with counterpart elements of Campagnolo Nuovo record cranksets. All alloy parts are cold-forged from the finest aircraft grade aluminum then alemite-treated and anodized for lifetime brilliance. Steel parts are precision machined from ultra-hard Ni-Cr (nickel-chromium) alloy steel. For ultimate weight reduction, even the axle is hollow. The sets we sell are complete with bearings, plastic BB liner, and every other part needed for installation. There are two models for racing; Compe and Custom, and one for touring; Tour.

Super Mighty Compe

- Standard Ni-Cr cups
- Standard chainrings
- Aluminum crank bolt cover

Stock sizes:

42/52 Engl 68, 170mm	*43-021-5*
42/52 Engl 68, 175mm	*43-022-3*
42/52 Engl 68, 172.5mm	*43-023-1*

$79.00 SW 2½ lbs.

Super Mighty Custom

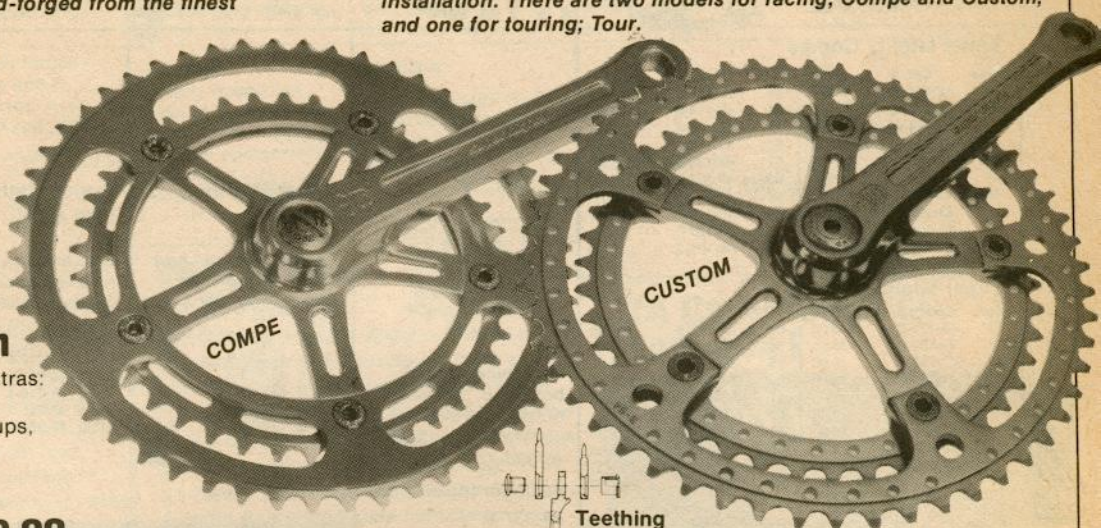
Same as Compe but featuring these extras:

- Lightened chainrings
- Special drilled & fluted lightweight cups, alloy lock ring
- Steel crank bolt cover w/hex hole

Stock sizes:

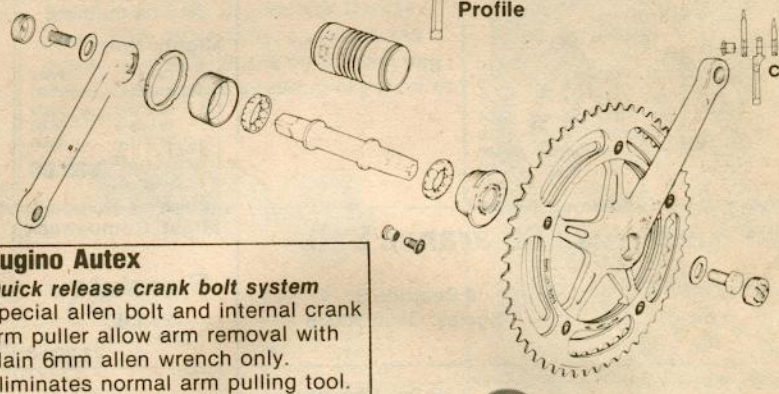
42/52 Engl 68, 175mm	*43-048-8*
44/52 Engl 68, 175mm	*43-042-1*
42/52 Engl 68, 170mm	*43-041-3*
42/53 Ital 70, 170mm	*43-044-7*

$89.00 SW 2½ lbs.



Teething Profile

Custom Teething Profile



Extra charges for any changes below in stock models Compe & Custom

A. Bottom bracket threads: Italian or French
B. Axle length: 68 or 70 mm
C. Chainrings: 42 through 55, any size

Compe with above changes: $80.00
Custom with above changes: $90.00

Additional changes, not included above:
Chainring size over 55 tooth, add **$4.00** to total above

Sugino Autex

Quick release crank bolt system
Special allen bolt and internal crank arm puller allow arm removal with plain 6mm allen wrench only. Eliminates normal arm pulling tool. Makes on-the-road repair easy. Fits all Japan, Ital. cranks. AW 48gm/SW 3 oz. *43-346-6* **$5.00**

Mighty Tour Doubles and Triples

Here's one of the finest, most versatile touring cranksets on the market. Fully interchangeable with the other Mighty and Campy bottom brackets but not arms and rings. 34-tooth lowest gear.

Stock double models:

34/52 Engl 68, 171mm	*43-061-1*
38/52 Engl 68, 171mm	*43-063-7*
36/52 Engl 68, 171mm	*43-062-9*

$79.00 SW 2½ lbs.

Stock triple models:

34/42/52 Engl 68, 171mm *43-081-9*

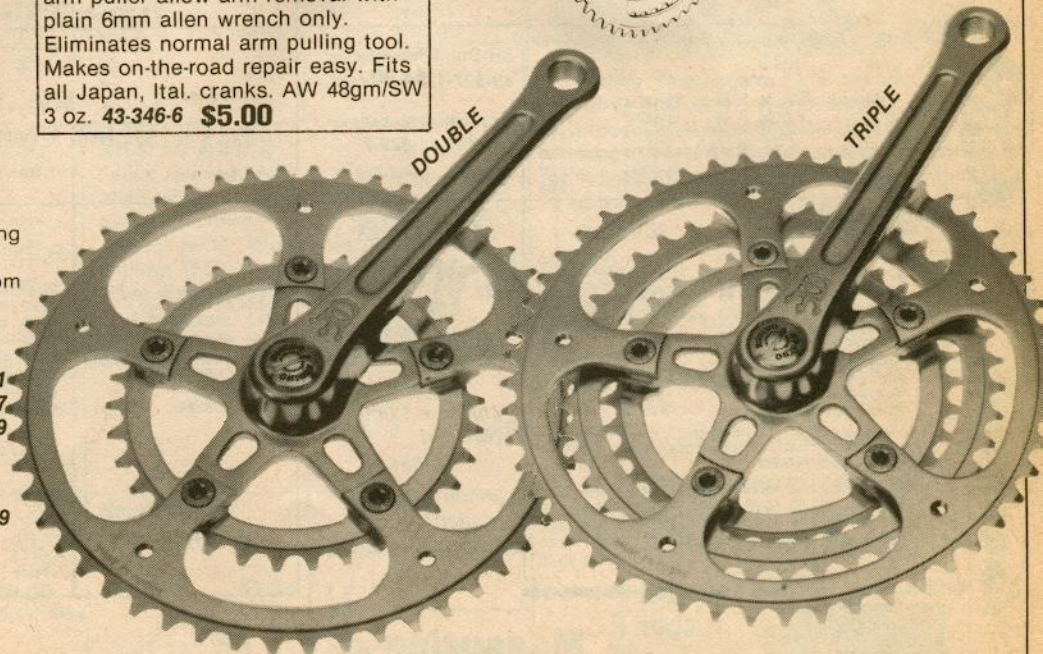
$89.00 SW 2½ lbs.

Same as above but with any changes below:

Axle: 70mm
Thread: French, Italian
Sprockets: 36, 38, 40, 42, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54

Add **$3.00** for any or all of above

Additional changes:
165, 168, or 175mm crank arms...
Add **$5.00** to above price



To order Sugino crankset without Bottom Bracket assembly...

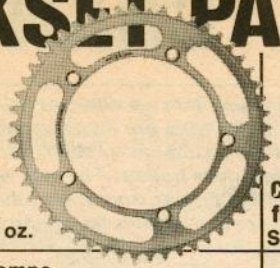
Select any model above using the pricing information for stock models plus changes, then deduct following amount.

If ordering Mighty Compe or Tour, deduct **$10.00**

If ordering Mighty Custom, deduct **$12.00**

Be sure to explain what you want to operator or write clear instructions on your order form.

CRANKSET PARTS



S.W. 4 oz.



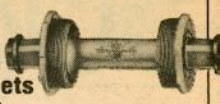
Chainring fixing bolt
S.W. 2 oz. set of 5



Right hand crank arm
S.W. 10 oz.
All arms: Eng/Jap/Ital, 9/16" x 20



Left hand crank arm
S.W. 7 oz.
All arms: Eng/Jap/Ital, 9/16" x 20



Bottom bracket sets
S.W. 14 oz.
All bottom bracket sets include spindle, bearing, cups, crank arm fixing bolts and washers, and protective sleeve unless indicated otherwise. Specify Eng., Fr., Ital., 68 or 70

Sugino

Super Mighty Compe

Size	Cat. #	Price			
42	43-101-5	$12.50	53	43-112-2	$14.50
43	43-102-3	12.50	54	43-113-0	14.50
44	43-103-1	12.50	55	43-114-8	18.00
45	43-104-9	12.50	56	43-115-5	18.00
46	43-105-6	13.50	57	43-116-3	18.00
47	43-106-4	13.50	58	43-117-1	20.00
48	43-107-2	13.50	59	43-118-9	20.00
49	43-108-0	13.50	60	43-119-7	20.00
50	43-109-8	13.50	61	43-120-5	20.00
51	43-110-6	13.50	62	43-121-3	20.00
52	43-111-4	14.50			

Super Mighty Custom

Size	Cat#	Price			
42	43-131-2	$16.00	53	43-142-9	$19.50
43	43-132-0	16.00	54	43-143-7	19.50
44	43-133-8	16.00	55	43-144-5	19.50
45	43-134-6	16.00	56	43-145-2	19.50
46	43-135-3	16.00	57	43-146-0	19.50
47	43-136-1	18.00	58	43-147-8	19.50
48	43-137-9	18.00	59	43-149-4	22.00
49	43-138-7	18.00	60	43-150-2	22.00
50	43-139-5	18.00	61	43-151-0	22.00
51	43-140-3	18.00	62	43-152-8	22.00
52	43-141-1	18.00			

Mighty Tour Maxy 5-arm

Size	Cat #	Price			
34	43-161-9	12.00	47	43-171-8	13.00
36	43-162-7	12.00	48	43-172-6	13.00
38	43-163-5	12.00	49	43-173-4	14.00
40	43-166-8	12.00	50	43-174-2	14.00
42	43-167-6	12.00	51	43-175-9	14.00
44	43-168-4	13.00	52	43-176-7	14.00
45	43-169-2	13.00	53	43-177-5	14.00
46	43-170-0	13.00	54	43-178-3	14.00

Chainwheel fixing bolts and "sleeved" nuts for all Mighty double sets. **$5.00**
43-336-7

Same for triple **$5.00**
43-337-5

Super Mighty new style

One arm fits old and new Compe, Cust, Campy 165, 167.5, 170, 172.5 175

Size	Cat#	Price
165.0	43-211-2	35.00
167.5	43-213-8	35.00
170.0	43-215-3	35.00
172.5	43-217-9	35.00
175.0	43-219-5	35.00

$35.00

Super Mighty new style

One arm fits old and new Compe, Custom, Track,

Size	Cat #	Price
165.0	43-212-0	20.00
167.5	43-214-6	20.00
170.0	43-216-1	20.00
172.5	43-218-7	20.00
175.0	43-220-3	20.00

$20.00

Mighty Tour

Size	Cat #	Price
165	43-231-0	35.00
168	43-233-6	35.00
171	43-239-3	35.00
175	43-241-9	35.00

$35.00

Size	Cat #	Price
165	43-232-8	20.00
168	43-236-9	20.00
171	43-240-1	20.00
175	43-242-7	20.00

$20.00

Might Competrack

Special
$14.00
170.0 *43-208-8*

Compe & Tour

W/nickel-Chromium spindle and DX cups.

Size	Cat#
	Eng. Ital. French
DX 68 Dbl ENG	43-248-4
DX 68 Dbl FR	43-249-2
DX 70 Dbl Ital	43-250-0
DX 68 TPL ENG	43-243-5
DX 68 TPL FR	43-244-3
DX 70 TPL ITAL	43-260-9

$23.00

Custom - also fits Compe & Tour.

Like Mighty Compe but with SDX cups, hollow Cr-Mo axle.

SDX 68 Dbl ENG	43-270-8
SDX 68 Dbl FR	43-271-6
SDX 70 Dbl Ital	43-272-4
SDX 68 Tpl ENG	43-273-2
SDX 68 Tpl Fr	43-274-0
SDX 70 Tpl Ital	43-275-7

$26.00

Annual Warehouse Clearance Sale

Sat. Sept. 12, 1981
10 am - 6 pm

12509 Beatrice St.
Los Angeles, Calif. 90066

SR

SR Super Apex *(size 32,50 special sale price $5.00)*

Size	Cat #	Price			
28	43-441-5	10.00			
32	43-445-6	10.00	44	43-457-1	11.00
34	43-447-2	10.00	46	43-459-7	11.00
36	43-449-8	10.00	48	43-461-3	11.00
38	43-451-4	10.00	50	43-463-9	11.00
40	40-453-0	10.00	52	43-465-4	12.00
42	43-455-5	10.00	54	43-467-0	12.00

SR Dbl. Chnwhl.
43-527-1 **$4.00** /set

Tpl. Chnwhl. Bolt & Spacer *43-529-7*
$4.00 /set

43-471-2
170mm only **$23.00**

43-472-0
170mm only **$10.00**

Size	Cat #	Price
68 Dbl ENG	43-501-6	13.00
68 Dbl FREN	43-502-4	13.00
70 Dbl Ital	43-503-2	13.00
68 Tpl ENG	43-504-0	14.00
68 Tpl FR	43-505-7	14.00
70 Tpl Ital	43-506-5	14.00

Record Road

Size	Cat #	Price			
42	43-771-5	$35.00	52	43-781-4	$35.00
43	43-772-3	35.00	53	43-782-2	36.00
44	43-773-1	35.00	54	43-783-0	36.00
45	43-774-9	35.00	55	43-784-8	36.00
46	43-775-6	35.00	56	43-785-5	36.00
47	43-776-4	35.00	57	43-786-3	36.00
48	43-777-2	35.00			
49	43-778-0	35.00			
50	43-779-8	35.00			
51	43-780-6	35.00			

Super Record Road

Size	Cat#	Price						
42	43-791-3	40.00	47	43-796-2	40.00	53	43-802-8	43.00
43	43-792-1	40.00	48	43-797-0	40.00	54	43-803-6	43.00
44	43-793-9	40.00	49	43-798-8	40.00	55	43-804-4	43.00
45	43-794-7	40.00	50	43-799-6	40.00	56	43-805-1	43.00
46	43-795-4	40.00	51	43-800-2	40.00	57	43-806-9	43.00
			52	43-801-0	40.00			

Thread information

English
1.370 x 24 TPI
(Brit. Std. Coarse)
French
35mm x 1.0mm
(Metric)
Italian
36mm x 24 TPI
(Italian)

Size	DP #	Price
165.0	43-841-6	
167.5	43-843-2	
170.0	43-845-7	
172.5	43-847-3	**$65.00**
175.0	43-848-9	
177.5	43-837-4	
180.0	43-839-0	

Size	Cat #	Price
165.0	43-842-4	
167.5	43-844-0	
170.0	43-846-5	
172.5	43-848-1	**$33.00**
175.0	43-850-7	
177.5	43-879-6	
180.0	43-880-4	

Eng: 43-911-7 **Nuovo Record**
Fr: 43-912-5 Double only. **$50.00**
Ital: 43-913-3 S.W. 14 oz.

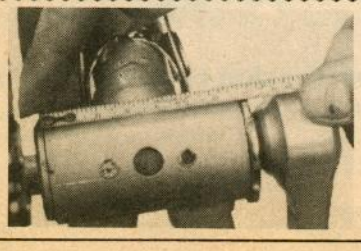
Record

Size	Cat #	Price
Sing 68 ENG	43-921-6	42.00
Sing 68 FR	43-922-4	42.00
Sing 70 Ital	43-923-2	42.00
Triple 68 ENG	43-916-6	45.00
Triple 68 FR	43-917-4	45.00
Triple 70 Ital	43-918-2	45.00

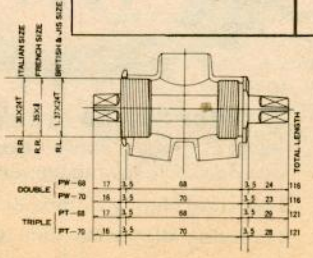
Super Record

Size	Cat #	Price
68 ENG	43-926-5	150.00
68 FR	43-928-1	150.00
70 Ital	43-927-3	150.00

$150.00

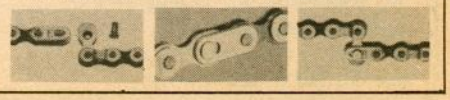


Measuring BB shell width:



Shimano Link Lock **$3.90** *42-033-1*

One touch chain coupling without tools! Superior to anything else on the market. Works with every make of chain except Ultra 6, Sedisport. Free freight in USA



CRANKSET PARTS

S.W. 5 oz.



Fixed cup (right), adjustable cup (left), lock ring
S.W. 5 oz.
All below available in English, French, Italian

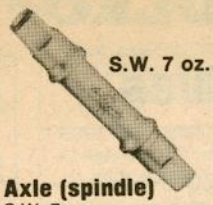
DX-type ball cup set — made of Sugino's finest Ni-Cr steel — Mighty Compe, Tour

Desc.	Cat. #	Price
Fixed Eng.	43-251-8	$5.00
Fixed Fr.	43-257-5	5.00
Fixed It.	43-254-2	5.00
Adj. Eng.	43-252-6	5.00
Adj. Fr.	43-258-3	5.00
Adj. It.	43-255-9	5.00
Lock Ring Eng.	43-253-4	1.50
Lock Ring Fr.	43-259-1	1.50
Lock Ring It.	43-256-7	1.50

SDX-type ball cup set, made of light alloy, drilled and fluted, ultralight — Mighty Custom, Victory.

Desc.	Cat. #	Price
Fixed Eng.	43-261-7	$6.00
Fixed Fr.	43-267-4	6.00
Fixed It.	43-264-1	6.00
Adj. Eng.	43-262-5	6.00
Adj. Fr.	43-268-2	6.00
Lock Ring Eng.	43-263-3	2.00
Lock Ring Fr.	43-269-0	2.00
Lock Ring It.	43-266-6	2.00

S.W. 7 oz.



Axle (spindle)
S.W. 7 oz.

Ni-Cr steel forged - for racing and all abusive uses. Available in 68 and 70mm.

68 70	Double	43-281-5 43-282-3	$13.
68 70	Triple	43-285-6 43-286-4	13.

You can be one of those enviable few who make a living in your hobby. Be a part of the booming bicycle industry. We need managers, mechanics, and others to expand our network of retail stores, and we have the training program which makes rapid job advancement possible.

A career in bicycles

Send photograph and resume

attention Personnel Dept.

S.W. 1 oz.



Protective sleeve
S.W. 1 oz.

43-331-8
Plastic, accordian type, to fit all frames, all crankset brands. Original equipment on Sugino Series. **$1.00**

S.W. 2 oz.



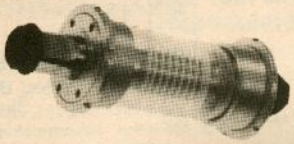
Ball bearings
S.W. 2 oz., set of 2

43-332-6
Highest quality Ni-Cr steel for use w/all Sugino BB assemblies. **$2.00** /pr.

OMAS Titanium BB assembly

BEST BUY!

Completely original design. This is a titanium axle with aluminum cups and shielded ball bearing cartridges. When the bearing cartridges snap into position in the specially machined cups, they are perfectly adjusted, thus requiring no "feel". Each cup has a lock ring. The spindle is meticulously machined titanium and fits Sugino and Campy arms. With this quality, and only 185 grams complete, this is an outstanding value compared to anything like it on the market.



$79.95

S.W. 12 oz.

Desc.	Cat. #
68 Eng.	43-611-3
68 Fr.	43-612-1
70 It.	43-613-9

Use Sugino *43-332-6*

S.W. 2 oz.



Crank arm fixing bolt and washer
S.W. 2 oz., set of 2 bolts, 2 washers

43-340-9
15mm. **$2.00**/pr.

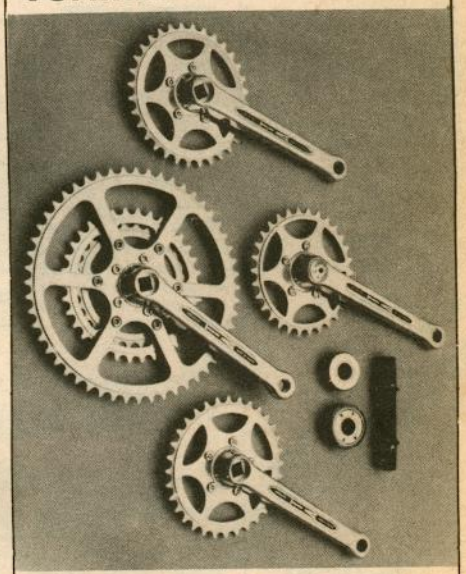
S.W. 1 oz.



Crank arm dust cap
S.W. 1 oz.,

Silver aluminum *43-341-7*
Black aluminum *43-342-5*
$2.50/pr.

TA Cycletouriste Formula I



France. Always popular among tourists for its low, 28-tooth capability. Triple crossover type with these specifications stock: 34-44-54T, 170mm Engl 68. The following chainrings are available for change . SW 6 lbs. **Inner**: 28, 30, and 32 **Outer**: 52, 56 **Middle**: 42, 46

Desc.	Cat. #	Price
34/42/54 Eng.-170	43-671-7	$200.00
32/40/52 Eng.-170	43-673-3	200.00
28/40/52 Eng.-170	43-675-8	200.00

SR Apex
Cup Sets Complete

Desc.	Cat. #	Price
Eng.	43-481-1	$8.00
Fr.	43-485-2	8.00
It.	43-483-7	8.00

Complete Sets only, No spindle.

Available in 68mm only. *43-287-2* **$13.00**

68 Dbl. 43-491-0	68 Trpl. 43-492-8	**$5.00**
70 Dbl. 43-495-1	70 Trpl. 43-496-9	**6.00**

Other Apex parts

Bearings 43-531	$2.00/pr.
Axle Bolts 43-533-9	1.00/pr.
Dust Caps 43-535-4	1.50/pr.

Nuovo Record
Fits NR spindle only.

Desc.	Cat. #	Price
Fixed Eng.	43-851-5	$20.00
Fixed Fr.	43-854-9	20.00
Fixed It.	43-857-2	20.00
Adj. Eng.	43-852-3	16.00
Adj. Fr.	43-855-6	16.00
Adj. It.	43-858-0	16.00
Lockring Eng.	43-853-1	7.00
Lockring Fr.	43-856-4	7.00
Lockring It.	43-859-8	7.00

Double only. Specify 68 or 70mm.
68 43-881-2
70 43-882-0
$28.00

Fits Record Spindle only

Desc.	Cat. #	Price
Fixed Eng.	43-861-4	$15.00
Fixed Fr.	43-863-0	15.00
Fixed It.	43-865-5	15.00
Adj. Eng.	43-862-2	12.00

Record

Desc.	Cat. #	Price
Adj. Fr	43-864-8	$12.00
Adj. It.	43-866-3	12.00
L ring Eng	43-853-1	5.00
L ring Fr.	43-856-4	5.00
L ring It.	43-859-8	5.00

Desc.	Cat. #
68 Triple	43-886-1
70 Triple	43-888-7

$25.50

Fits SR only - double

Desc.	Cat. #	Price
Fixed Eng.	43-867-1	$40.00
Fixed Fr.	43-869-7	40.00
Fixed It.	43-871-3	40.00
Adj. Eng.	43-868-9	$35.00
Adj. Fr.	43-870-5	35.00
Adj. It.	43-872-1	35.00

Lockring - See Nuovo Record

Double only

Desc.	Cat. #
68	43-890-3
70	43-891-1

$150.00

Sugino Autex
Quick release crank bolt system Special allen bolt and internal crank arm puller allow arm removal with plain 6mm allen wrench only. Eliminates normal arm pulling tool. Makes on-the-road repair easy. Fits all Japan, Ital cranks. AW 48gm SW 3 oz.
43-346-6 **$5.00** /set

Record & Nuovo Record same
43-980-2 **$5.50**

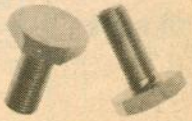
Record & Nuovo Record same
2 ea. 748, 749
43-976-0 **$6.50**/pr.

43-981-0 **$3.00**

43-982-8 **$4.00**

Record & Nuovo Record same
43-978-6
For all models **$3.50**/pr.

Aluminum superlight crank arm fixing bolts *from O.M.A.S.*
To fit Campy, Sugino. 15mm.
43-631-1
$5.95/pr.
SW 2 oz.



Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-390-9531

Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

means not interchangeable

CABLES

Genuine Campagnolo

Brake cables

Cables SW 2 oz.

Racing
Recommended for racing or high-performance use. Fits every popular racing-type lever.
C2028 Front - 73cm **$3.00** *36-861-3*
C2029 Rear - 131cm **$4.00** *36-863-9*

Housings SW 3 oz.

Campagnolo

Grey with 2 ferrules
C2026 Front - 63cm **$4.00** *36-881-1*
C2027 Rear - 119cm **$4.50** *36-883-7*

Gear cables

Downtube control
Fits Suntour and Dura Ace
C608 Front - 72cm *40-351-9* **$2.00**
C606 Rear - 118cm *40-353-5* **$2.00**

Rear derailleur stainless steel housing and ferrules
For use with stop #636 and most braze-on chain stay cable stops.
622 21cm *40-501-9* **$4.00**

Rear derailleur stainless steel housing and ferrules
Like 622 but with ferrule #620 to fit braze-on 621.
617 21cm *40-502-7* **$4.00**

Standard

Brake cables

Cables SW 2 oz.

"Pear End" Universal
65" (extra long). Fits every "racing" style lever, e.g., Dia Compe, Weinmann, Mafac, Universal, Campy, Shimano. Silicone treated.
B5R **$1.00** *36-771-4*

65"
Same cable as above but with barrel end for "touring" level.
B5T **$1.00** *36-773-0*

Gear cables

65" original equipment replacement. Top quality and reliability.
40-233-9 Shimano, Suntour **$1.00**
40-235-4 Simplex-Campy/Huret **$1.00**

Barcon cables

Suntour braided Barcon cable
Extra thick, braided, treated cable for all Barcon and stem shift. Recommended for every use. 79" for both front and rear.
40-231-3 **$2.50**

Housings SW 2 oz./ft.

Sun Tour stainless steel housing
Best for handlebar end shifters and small section between chain stay and rear derailleur. No vinyl coating. 3 ft. length includes special ferrule required.
36-891-0
$4.00

Easy Glide housing only
Top quality housing illustrated below, including teflon inner tube. Variety of colors. Packaged in 6 ft. length — enough for any size bike.

Black	*36-901-7*	Red	*36-903-3*
White	*36-902-5*	Blue	*36-904-1*
Gray	*36-907-4*		

$2.50

ATTENTION LIGHTNESS NUTS!

Aluminum brake cable housing — only 85 grams complete.

CLB of France has created the world's lightest brake cable housing. It's the only one made of aluminum and coated with semi-transparent polyester for weatherproofing. Special heavy-duty braided steel cable moves inside a teflon tube core which fits snugly against the aluminum. Pear end fits every major brake lever. Cable is permanently lubricated. Compare it to conventional set weighing 170 grams (6 oz).

Since the housing is so light, it does flex a bit more than steel during lever actuation. But this won't impair braking. Sold complete set front and rear of cable, housing, ferrules. Cut to desired length. Silver.

SW 6 oz.
36-893-6
$11.90

Cable/housing sets SW 4 oz.

Easy Glide set **$3.50**
36-911-6 Long fits Fr or Rr.

Best quality & value

INNER WIRE — TEFLON CASING — STEEL HOUSING

Replace cable and/or housing when:

1. *There is an opening in the housing and the steel casing is unwound or broken.*
2. *Cable housing exhibits violent movement when control is actuated.*
3. *Rust is present inside housing.*
4. *Housing is bent.*
5. *Even though all seems in order, the control is sticky, stiff or sluggish.*
6. *Cable and housing usually wear at the same rate so it is wise to replace both at the same time!*

Definitely needs replacement.

Always "thread" cable into aperture to avoid snagged strands.

RIGHT

Don't cut new cable to size until after it's installed or it will jam when moving through housing.

WRONG

End caps SW 1 oz.

Lead end caps
Crimp on — for all brake and gear cables.
B7L **$1.50**/5 *36-555-5*

Tandem cable SW 3 oz.

110" thick heavy duty cable
Designed for tandem use, pear end for racing lever only, galvanized.
BEJ-100 **$3.00** *36-791-2*

110" Tandem Cable
105" fits frame-mounted and handlebar end shifters, heavy duty.
HBC8 Galvanized **$3.00** *40-261-0*

MIRRYCLE™

Best mirror concept we've seen. Hi strength lexan, low vibration 3" dia. convex lens. Completely adjustable. Mounts in brake lever body leaving handlebar free of obstruction. Easy installation in 10 minutes. All parts included but we recommend purchasing a new cable. Fits all Weinmann-Dia Compe types and Shimano but no pro types like Campy.

Only 50 grams. Free freight.

48-301-6
$8.50

Sun Tour cable cutters

Professional tool of heat treated steel. Vinyl coated handles.
SW 4 oz. *13-272-0* **$12.50**

E.R.G. by Gookinaid

Electrolyte replacement with glucose. The original formula as advertised in cycling publications. Athletes in every sport are discovering that E.R.G. helps do away with the muscle cramps that are early symptoms of heat exhaustion and the muscular aches that follow a day of hard exertion. Both are due to the electrolyte imbalance that Gookinaid E.R.G. is designed to ward off. This product should not be confused with others on the market which may be hypertonic . . . resulting in temporary systemic dehydration, stomach cramps, etc. The tart flavor of many thirst quenchers gives the sensation of relieving thirst without really doing anything about the problem. Gookinaid E.R.G. has no after-taste. Sold in powder form only!

3 Delicious Flavors: No flavor, Lemonade, Fruit Punch.

Makes	*Price*	*Shpg. Wt.*
½ Gallon Pack	**$1.25**	5 oz.
1 Gallon Pack	**2.00**	9 oz.
5 Gallon Pack	**5.00**	34 oz.

SUN TOUR FREEWHEELS

Over the years we've sold almost every make of freewheel. We have discovered that no others equal the quality and value of Japanese freewheels, and Sun Tour in particular. For those who prefer to keep their racing bikes 100% Italian, we have added Regina Oro in the most popular 6 speed sizes. These give outstanding performance with Regina chains and Italian hubs due to the coordination of specifications among Italian manufacturers.

Sun Tour NEW WINNER Freewheel System:

- ***One body makes all of these . . .***
  Regular 5 speed, 13 through 32
  Regular 6 speed, 13 through 32
  Ultra 6 speed, 13 through 32
  Ultra 7 speed, 12 through 32
- ***Most existing "Old Winner" and Pro Compe cogs are interchangeable, keeping conversion cost minimal.***
- ***New fully adjustable bearing cones.***
- ***2 sets of 1/8" ball bearings relocated in body for best stress.***

Explanation of Ultra 6 and 7 design:

Prior to Sun Tour's invention of the Ultra 6, all 6-speed clusters were approximately 32.4mm wide, requiring a bike with 126mm rear dropout width. Since most bikes are factory made with 120mm dropout width (also the width of most hubs) for 5-speed clusters of 26.5mm width, conversions from 5 to 6-speed was fraught with the dangers of damaging frame alignment by stretching. Another costly and bothersome problem was changing to a 125mm 6-speed hub (or axle) instead of the standard 120mm 5-speed type. All this plus the cost of relacing and readjusting every spoke made 6-speeds something to dream about but not attempt for most riders.

Sun Tour made it cheap, easy and instant to get 6-speed benefits on a 5-speed type hub and frame by changing only the freewheel and chain instead of the more costly and complicated hub and frame. That was stage one in 1978 but it still left us with four different bodies, no 7-speed, and a mind-boggling array of cogs, spacers and parts. Nevertheless, the consumer demand was one of the greatest we ever encountered — for any product. Now this mess has been reduced to the simple, understandable, and serviceable system.

You have a choice of ordering complete, ready-to-use freewheels of the Regular 5 & 6, or the Ultra 6 & 7 types in a large variety of combinations.

Remember frame measure info below when ordering:

Model	Rear dropout inside width
Standard 6 & U7	125mm
Standard 5 & U6	120mm

Due to rare factory changes, we reserve the right to deviate by one tooth from the "inside" cog teeth listed. This does not apply to the high & low cogs. Example: Sun Tour may switch a 20T middle to a 21T in a particular production line.

Shipping weights

Freewheels

Size	Weight		
13-20T	14 oz.	13-32T	21 oz.
13-24T	16 oz.	13-34T	24 oz.
13-26T	18 oz.	***Body***	
13-28T	21 oz.	5 speed	8 oz.

Ready-made New Winner freewheels available

Silver finish, BSC thread only

Standard 5-speed •

13-14-15-16-17	***41-071-2***	**$19.00**
13-14-15-17-19	***41-072-0***	**$19.00**
13-15-17-19-21	***41-073-8***	**$19.00**
13-15-18-21-24	***41-074-6***	**$20.00**
13-16-19-23-26	***41-075-3***	**$20.00**
13-16-19-23-28	***41-076-1***	**$20.00**
13-17-20-26-32	***41-077-9***	**$23.00**

Standard 6-speed • •

13-14-15-16-17-19	***41-091-0***	**$24.00**
13-14-17-19-21-24	***41-093-6***	**$25.00**
13-14-16-19-23-28	***41-095-1***	**$27.00**
13-14-17-20-26-32	***41-096-9***	**$29.00**

Ultra 6-speed •

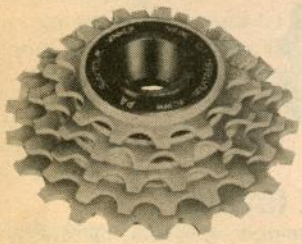
13-14-15-16-17-18	***41-111-6***	**$24.00**
13-14-15-17-19-21	***41-112-4***	**$25.00**
13-14-16-19-21-24	***41-113-2***	**$27.00**
13-15-17-20-23-26	***41-114-0***	**$28.00**
13-15-17-20-24-28	***41-115-7***	**$28.00**
13-15-18-21-26-32	***41-116-5***	**$29.00**

Ultra 7-speed • •

12-13-14-15-16-17-19	***41-151-2***	**$30.00**
12-13-14-15-17-19-22	***41-152-0***	**$30.00**
12-13-14-15-17-20-24	***41-153-8***	**$30.00**
12-13-15-17-20-23-26	***41-154-6***	**$32.00**
12-13-15-17-20-24-28	***41-155-3***	**$32.00**

Body ***41-436-7*** **$12.00**

Sorry, no custom builts.



***Requires 120mm hub**
****Requires 125mm hub**

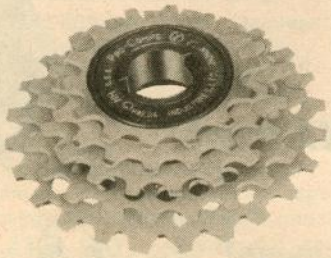
Pro Compe Gold freewheels

Very popular due to low cost, good quality and appearance, ease of assembly (only 2 stages), and plentiful spare parts. All parts interchange with the brown-colored Perfect model. Available in 5-speed only. Cog sizes 28-34 feature patented zig-zag pattern for smooth chain pickup.

Tandem Body
Available in Engl only — Add $5.00

STOCK SIZES — ENGLISH THREAD

Cog Sizes	Act. Wt. (Gram)	Cat. No.	Price
14-15-16-17-18T	354	***41-041-5***	$12.00
14-15-17-19-21T	383	***41-042-3***	$12.00
14-16-18-20-22T	411	***41-043-1***	$12.00
14-16-18-21-24T	425	***41-044-9***	$12.00
14-16-19-22-26T	454	***41-045-6***	$12.50
14-17-20-24-28T	482	***41-046-4***	$12.50
14-17-21-26-32T	511	***41-047-2***	$13.50
14-18-22-27-34T	553	***41-048-0***	$13.50



Genuine Sun Tour tools

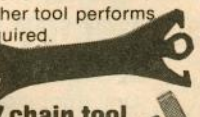
Freewheel holder for bench vise

Fits into common bench vise. Special studs hold high or low cog safely and securely in position to permit freewheel disassembly.
13-104-5
S.W. 1 lb. **$16.00**



Sun Tour New Winner freewheel bearing tool

For adjusting bearing cone and lock nut, removing bearings. No other tool performs this work. Only one required.
$8.00 S.W. 8 oz. ***13-103-7***



Special Ultra-6/7 chain tool

Designed for unique miniature chain link and pin design. Also fits standard chain. Pin of a standard tool fits small hole in link plate poorly. S.W. 5 oz. **$11.00** ***13-263-9***



Sun Tour cog wrench

Finest tool of its kind. Long life makes it well worth the initial investment. Don't settle for other no-name brands. We now stock the universal model fitted with Ultra 6 chain which fits every model & brand cog. SW 12 oz.

13-102-9

$8.50



Freewheel removers

Shipping weight 7 ounces

Sun Tour

All multiples (K) **$2.00** ***13-081-5***
Combination single multiple (K) **$4.00** ***13-082-3***

Normandy

Multiple (S) ***13-091-4*** **$6.50**

Shimano

Standard multiples only (S) ***13-086-4*** **$6.00**
Dura Ace only (K) ***13-087-2*** **$6.00**

Regina

Multiple (K) Kingsbridge ***13-095-5*** **$6.00**
Multiple (S) ***13-090-6*** **$6.00**



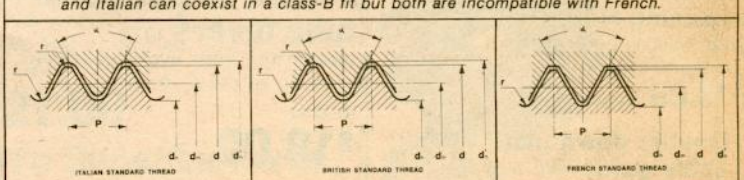
Key type (K)



Spline type (S)

Great European thread mystery explained!

Hard to believe but true—these systems actually created by human minds! British and Italian can coexist in a class-B fit but both are incompatible with French.



Type	P mm	P inches	n n.	d_2 ▲ mm	d_m ▲ mm	d ▲ mm	d'_1 ✻ mm	α °	r mm
Italian	1,058	1/24,0	24,0	33,646	34,323	35,000	35,000	55	0,14
British	1,058	1/24,0	24,0	33,670	34,234	34,798	34,798	60	0,17
French	1,000	1/25,4	25,4	33,400	34,050	34,700	34,700	60	0,11

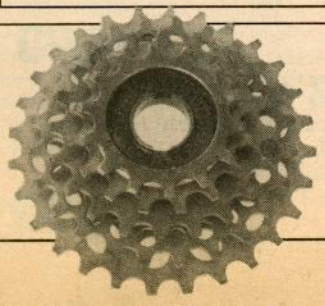
P = thread pitch
n = number of threads per inch
d_2 = hub thread root diameter
d_m = mean hub diameter
d = outer hub diameter
d'_1 = freewheel thread root diameter
α = thread angle
r = fillet radius
▲ All tolerances are − minus −.
✻ All tolerances are + plus +.

Regina Oro 6 speed

Splined body, Engl thread

13-14-15-16-17-18	***41-282-5***
13-14-15-17-19-21	***41-283-3***
13-15-17-19-21-23	***41-284-1***

$21.90

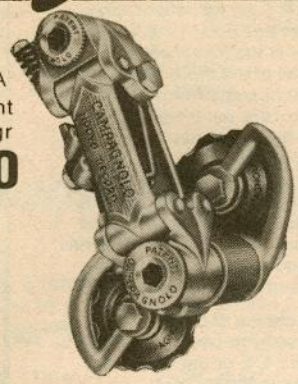


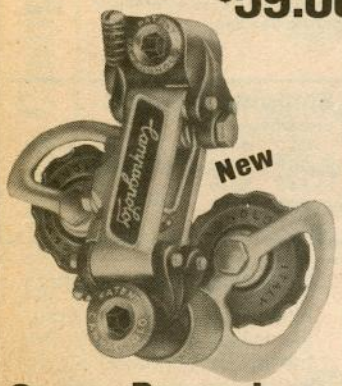
DERAILLEURS

Campagnolo

Campy rear Nuovo Record 1020/A

Fixing plate for frame attachment not included. Cap. 28T A/W 230 gr S.W. 14 oz 38-281-2 **$59.00**





Super Record 1020/18

Finally available. Redesigned cage for improved shifting with 6-7 speed freewheels and 28 tooth cogs. Sleek new styling. Sold w/o fixing plate. SW 12 oz.

38-341-4

$85.00



Campy front Record 104007

One front model now made. New improved cage for 6-7 speed free wheels, improved clamp protects frame better, and lightened cage.

39-273-8 SW 8 oz.

$31.00

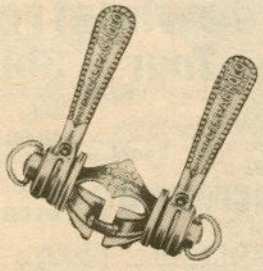


Rally 3450

The Rally is an ultra wide ratio (Cap. 36T) adaptation of the Record and shows the same quality and workmanship. Fixing plate not included. AW 310gr / SW 14oz

38-311-7

$59.00



Campy shift levers

Record double down tube levers 1014

Works fine with every derailleur A/W 82 gr S.W. 9 oz

40-151-3

$18.00

Braze-on lever kit

(downtube) Incl. braze-on studs, consists of: 601, 602, 174(2), 603 (2), 604/1(2), 660(2), 600/2, 611/2, 661(2) S.W. 4 oz. **$16.50**

40-153-9

Campy spares

Chain stay cable housing stop 636



For use on bikes without integral stop. S.W. 3 oz.

$3.00 39-463-5

Double downtube cable guide 626/a



For use with Campy controls. S.W. 4 oz.

$7.00 39-465-0

SunTour VX series

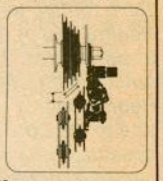
Famous Sun Tour performance and quality at a popular price. All light alloy.

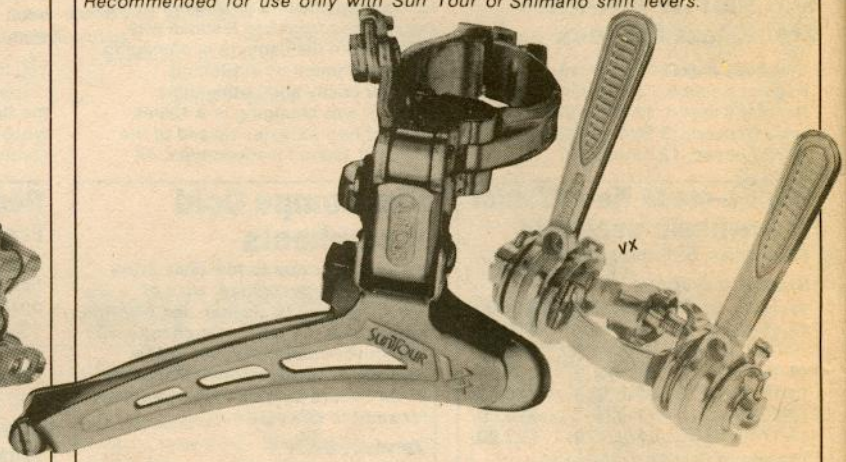


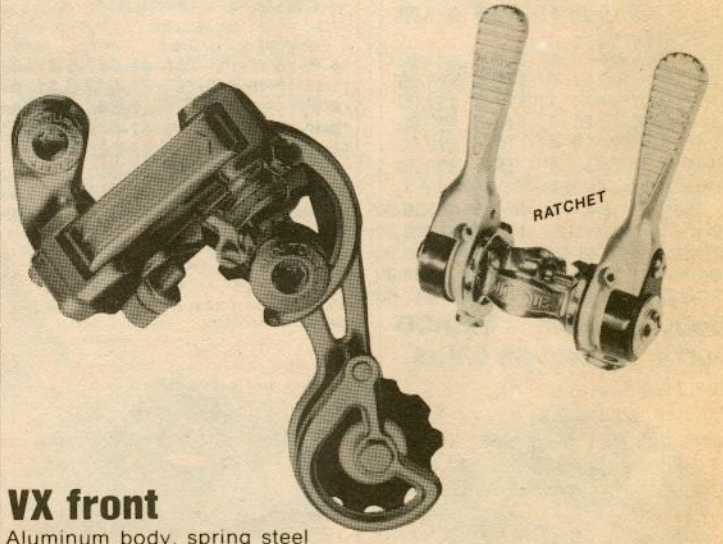
"Quick change cage" *featured on Sun Tour VX series. Permits chain removal from derailleur without chain or derailleur disassembly.*

Pantograph mechanism:

1. The distance between the sprocket teeth and the derailleur guide pulley remains practically identical no matter how the sprockets are assembled or their size, and 2. the pulley moves in a diagonal plane corresponding to that formed by the teeth on the cluster. Result: smooth shifts through all gears. Recommended for use only with Sun Tour or Shimano shift levers.







VX front

Aluminum body, spring steel cage. Parallelogram, Low normal. Clamp Ø 28.6mm. Cap. 15T or less. A/W 105 gr. SW 8 oz. 39-043-5 **$8.90**

VX rear

Cap. 24T. A/W 200 gr. Fr. 52T - 40T = 12T. Rr. 14T - 30T = 16T SW 1 lb. *38-043-6 **$14.90**

VX-GT rear

Cap. 34T. A/W 210 gr. Fr. 52T - 36T = 16T. Rr. 14T - 34T = 20T. Quick change cage. SW 1 lb. 38-045-1 **$15.90**

VX levers

Aluminum levers, stainless steel clamp. Same wing nut friction plate tension adjustment. A/W 80 gr. SW 8 oz.

40-035-8 **$8.90**

Ratchet levers

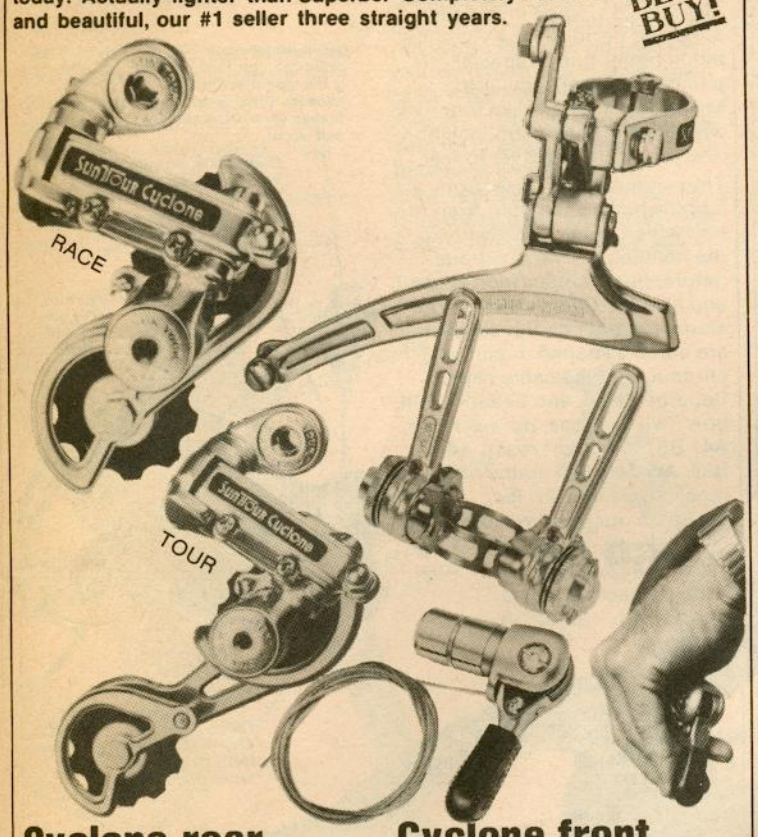
Aluminum levers, steel clamp. Popular ratchet mechanism main tains correct lever position. A/W 125 gr. SW 8 oz. 40-039-0 **$9.90**

WE ARE THE NATION'S NUMBER ONE SUN TOUR DEALER DERAILLEURS

Sun Tour CYCLONE SERIES

Best all-around forged lite alloy derailleurs on the market today. Actually lighter than Superbe. Completely reliable and beautiful, our #1 seller three straight years.

BEST BUY!



Cyclone rear

Includes Hex wrench and frame mounting plate. Slant parallelogram. 31mm stroke. Top normal.

Short reach
Cap. 24T 175 gr S/W 12 oz
38-051-9
$29.00

GT-Touring
Cap. 34T with a Sun Tour forged dropout or mounting plate. Cap. 32T with other makes of forged dropout. 185gr S/W 12 oz
38-056-8
$31.00

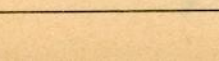
Cyclone front ultra-low adapter

Ultra-low gear adapter for 36T and below. S.W. 2 oz.
39-371-0
$2.50



6mm hex wrench

For all Barcons S.W. 2 oz.
13-042-7
85¢



Cyclone front

95 gr, pantograph with low normal, light tempered steel cage for solid shift, hinge type frame mount, non-fouling covered main spring.
S/W 10 oz.
$19.00 *39-045-0*

Frame shift levers

World's lightest—60 gr. Stainless steel integral clamp. Includes special thick braided cables, SS housing and ferrules. S/W 8 oz.

$18.00 *40-031-7*

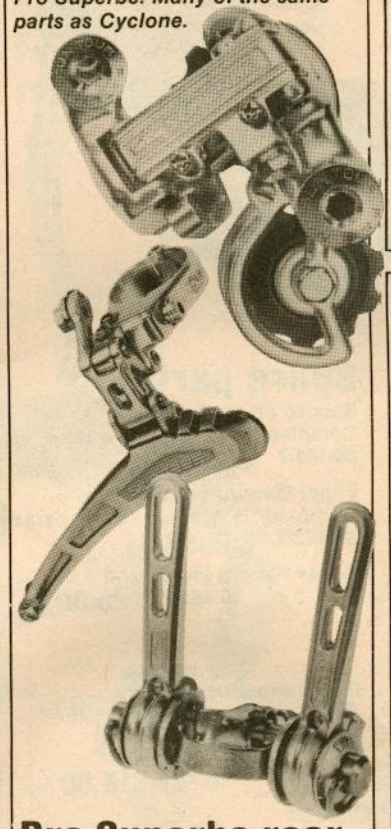
Barcon ratcheted handlebar end "finger tips" shift lever kit

Includes: Shifters, special heavy duty braided inner wires, all necessary stainless steel cable housing, upper downtube double cable housing stops. Our best selling shifter—easy to install it. Priced well below other brands. A.W. 91gr/S.W. 1 lb

$22.00 *40-033-3*

ProSuperbe

Newest version of Sun Tour's state-of-the-art derailleurs. All allen nut fittings, bronze bushings, and special heat treated alloy. There are a lot of derailleurs on the market but really, none shifts better than the Pro Superbe. Many of the same parts as Cyclone.



Pro Superbe rear

Fr: 54T - 42T = 12T
Rr: 13T - 23T = 10T
Silver only Cap. 22T
Fits forged dropouts only
A/W 198 gr (7 oz) SW 12 oz.
38-061-8
$31.00

Pro Superbe front

Parallelogram/Low Normal
Clamp Ø 28.6mm (1⅛")
Alloy body/Spring steel cage
Silver only Cap. 18T or less
A/W 100 gr (3½ oz) SW 10 oz.
39-048-4
$21.00

Pro Superbe lever

Universal type—works with any derailleurs. Alloy levers, Stainless Steel clamp Ø 28.6mm. Incl. cables, near housing A/W 65 gr (2¼ oz) SW 8 oz.
40-029-1
$20.00

Sun Tour spare parts

Rear derailleur pulley assembly
Includes pulleys (2), bushings (2), side plates (4). Fits all models.
S.W. 2 oz *39-471-8* **$4.00**



Sun Tour double downtube cable stop
For use with BARCON or stem shift. S.W. 3 oz
40-553-0 **$1.50**



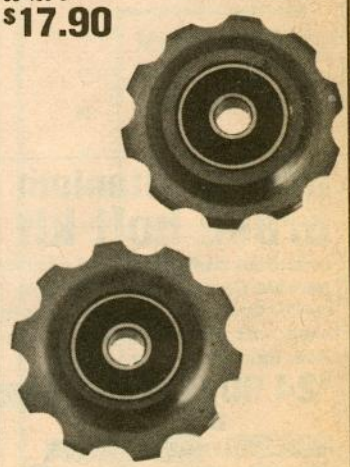
Downtube cable stop/guide
S.W. 3 oz.
40-551-4 **$1.50**



Bullseye pulley

The only precision sealed ball-bearing derailleur pulleys made. They are red anodized light aluminum and lubricated to eliminate frequent cleaning and lubing commonly associated with ordinary pulleys. Easily installed, using existing pins. They replace any pulley, fit 5 or 6mm pins, and can be moved from one derailleur to another, using extra spacers supplied. The manufacturer claims that they have only 1/6 the friction and far longer life than ordinary types. In its own testing, the manufacturer documents a drag saving equal to a "free" 17 feet per mile of riding. Report available on request. A.W. 14 gr. S.W. 3 oz.

38-450-3
$17.90



See Cable Section for other related parts.

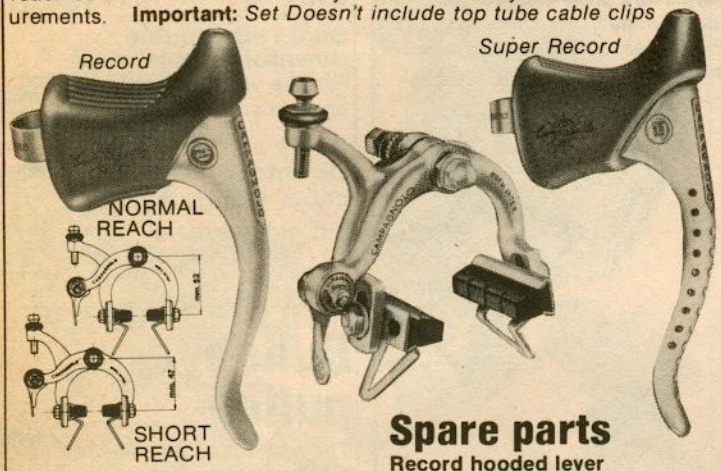
Order Toll Free
(800) 421-7153
Outside California

BRAKES

Campagnolo

The most copied. Everything in it is brilliantly designed and made of the finest materials. There are two models, record and super record and two versions; normal (A48-B56) and short reach (A43-B51).

The normal rear can be lowered with a drop (offset bolt) to fit most frames designed for long reach brakes. It's rare to need extra short reach so do not order it unless you have carefully checked the meas urements. **Important:** *Set Doesn't include top tube cable clips*



Record brake set

Normal reach
S.W. 2 lb. ***35-401-9***

Short reach
S.W. 2 lb. ***35-402-7***

$139.00

Super Record brake set

Identical except for drilled handles

Normal reach
S.W. 2 lb. ***35-411-8***

Short reach
S.W. 2 lb. ***35-412-6***

$159.00

Spare parts

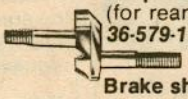
Record hooded lever
Complete S.W. 6 oz. ea. 14 oz/pr.
36-581-7 **$40.00** */ea.*

Super Record hooded lever
Complete S.W. 6 oz. ea. 14 oz/pr.
36-583-3 **$50.00** */ea.*

Super Record lever handle
S.W. 3 oz. ***36-585-8*** **$25.00** */ea.*

Gum rubber hood
36-571-8 S.W. 2 oz. **$7.50**/ea.

Drop center bolt
(for rear) S.W. 1 oz.
36-579-1 **$16.00** */ea.*



Brake shoe and pad assembly complete consists of 2 ea: 2014, 2010, 2003, 2022
Pair (right and left)
S.W. 4 oz/pr ***36-575-9*** **$25.00** */pr.*



Brake pad
(rubber) only
S. W. 2 oz
36-573-4
$2.70/ea.



Top tube cable clips (3)
S.W. 1 oz.
36-577-5 **$7.50**/3



OMAS Titanium brake bolt kit

Less than half the weight of comparable Campy parts! Titanium center bolts and light alloy brake shoe nuts. Fits Campy and Dura Ace. Italy. S.W. 2 oz.

$24.90



2 types: (1) Acorn nut; ***36-501-5***
(2) internal sleeve allennut for specially milled frame and fork.
35-502-3

O.M.A.S. recessed nut set

Special tubular 5mm allen head nut for short center bolt for frames with recessed crown and brake bridge. Center bolt not included with this set. Does include aluminum acorn nuts for other end of center bolts and four aluminum brake shoe nuts. AW 12½ grams /SW 2 oz. Silver.

36-503-1
$5.95



Sun Tour Pro Superbe

Absolutely the finest brake ever produced in Japan. The new Superbe is so advanced we even discontinued the Gran Compe from our catalog. Virtually identical to Campy in appearance and performance yet stops much better due to special rim pad composition similar to Mathauser's. The brake functions with the QR cam in any position. The levers are a marvel to feel.

They mount to the lever body via a bolt which is separate from the bolt which mounts the body to the handlebar. The luxurious natural gum rubber hood is ideal and also fits Campy levers. The aluminum nuts on the center bolt are conical shaped. Includes 3 chrome top tube cable clips, Superbe decal, and beautiful gift box. Two versions: normal reach A47 B57 and short reach A40 B50. AW 346, 330 grams, respectively. SW 2½ lbs. Compare our amazing low price!

Only **$69.90**
Normal reach **35-021-5**
Short reach **35-022-3**

Don't be confused by others' misleading catalogs. Superbe is by Sun Tour, not Dia Compe.

Cable Attachment: The cable-through-hole method is the surest and safest because there is no way human error in placement can occur.

Cable: Stainless steel cable within a cable. Outer has 12 stands and inner, 7. Each set is wound in opposite direction eliminating unwinding and stretch. Soldered ends won't fray.

Calipers: Cold forged from the finest alloy. Highly polished and anodized. Front and rear together weight 1½ oz. less than Campag. Record.



Quick Release: A cam lever allows any degree of release. Not just open and close. Won't flop open.



Pro Superbe hooded levers

AW 11 oz/SW 14 oz **$25.00**/pr. ***36-011-5***

Pro Superbe gum hoods

SW 2 oz **$8.00**/pr. ***36-012-3***

Pro Superbe rim pads

SW 2 oz **$6.00**/4 ***36-013-1***

Dia Compe G

DIA-COMPE

A middle-level pro-type set with very highly polished, anodized calipers made of normal aluminum. Very comfortable lever has drill holes and natural gum hood but hand rest shape is flat rather than curved like Gran Compe. Excellent stopping power and quality for the price. Sensible model for those who don't require the ultimate types. A.W. 1 lb 6 oz/S.W. 2 lbs.

500 G A43 B57
35-092-9
730 G A52 B72
35-091-8

$33.00



Modolo professional model brakeset

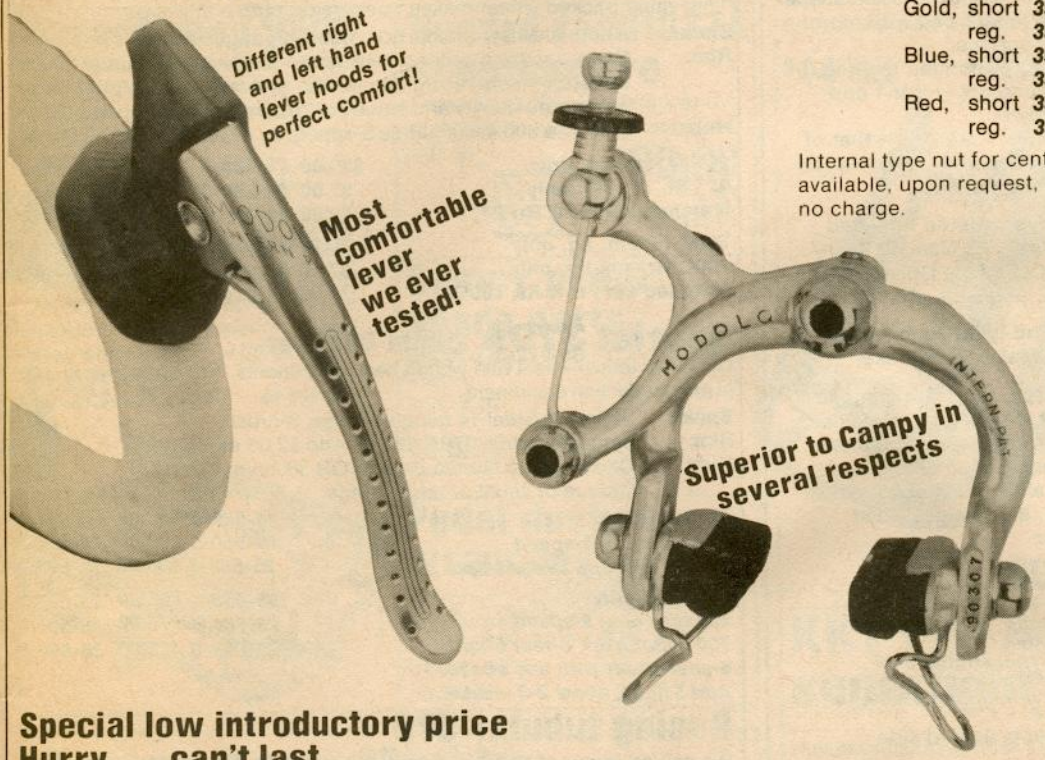
Finally available . . . a brake that's better than Campy. If you've followed our catalogs over the years you know that we never use that description carelessly. Here's why.

The professional model is made from batch serial numbered (stamped on front caliper) aircraft wing aluminum. It's the stiffest brake we've tested. The polishing and finish is unsurpassed. The self-lubricated 21 strand cable operates in a special molybdenum bisulphide tube which insures permanent freedom of movement. The center bolt features a collar with hex set screw for perfect centering adjustment. Another original concept is the brake shoe which is machined to lock into exact position on the facing caliper. The quick release cam design permits the brake to operate in any position with the cam lever open. All steel hardware is very brightly chromed and polished. The unusual dome-styled allen bolts and beautiful lever really add to the class image. The handle pivot bolt is separate from the handlebar attaching bolt. The handle itself is drilled out and grooved for a very comfortable feel. We offer only the top Professional Stratos model which should not be confused with the similar but lower Speedy model. Available in regular and short reach. Silver, black, blue, red, gold. Note: An offset center bolt is not available. SW 2½ lbs. Italy.

$119.00

Silver,	short	***35-311-0***
	reg.	***35-301-1***
Gold,	short	***35-312-8***
	reg.	***35-302-9***
Blue,	short	***35-314-4***
	reg.	***35-304-5***
Red,	short	***35-313-6***
	reg.	***35-303-7***

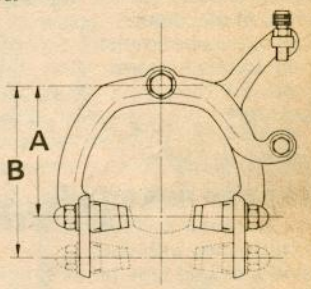
Internal type nut for center bolt available, upon request, no charge.



Special low introductory price
Hurry . . . can't last

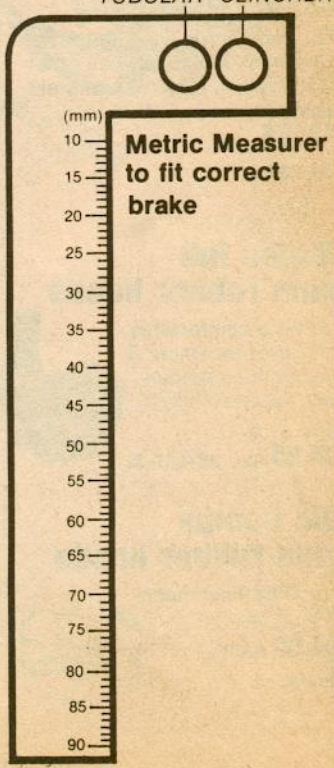
To determine which brake fits your bike:

Most pro type frames will accept most pro brakes such as Campy, Dura Ace, and Gran Compe. But since each frame builder's design results in a slightly different distance between rim and brake mounting hole, the only way to insure the correct brake application is by measuring this distance. Therefore, each brake description in our catalog states a minimum (A) and maximum (B) distance in millimeters which the brake pads reach to contact the rim. Example: A47 B61. If you do not have a metric rule, we'll be glad to convert your inch measurements. Or, use our handy cut-out measurer on the opposite page, making sure to place the correct hole (clincher or tubular) over the brake mounting hole.



CAUTION: USE THE DISTANCE TO THE CENTER -- NOT TOP OR BOTTOM, OF RIM.

NOTE: Clinchers are either 27" or 700C but all tubulars are 700C. Keep this in mind if you plan to change wheels after installing new brakes.

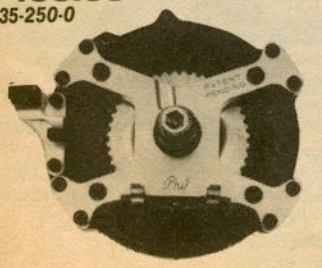


Phil Wood disc brake TANDEM

Requires special Phil hub which is threaded on both sides. The hub can be custom made in widths from 100-140mm to fit any frame, front or rear. Weighs only 15½ oz. and has quick release cable for easy wheel removal. S.W. 22 oz.

$150.00 ***35-250-0***

Allow Up To 6 Month Wait



Mafac Cyclo Touriste tandem cantilever brakeset

MAFAC

This is the best-stopping rim brake available due to the special configuration of the angle arms and the inherent superiority of the cantilever design. Generally, a tandem with two of these plus one caliper rim brake, will stop adequately under most conditions. Supplied with improved 5-stud rubber pads, braze-on studs, and special lever set. One lever holds one cable. The other lever holds two cables and housings so that two separate brakes can be actuated from the same lever. No rubber hood is available for the two-cable lever. Supplied with transverse (straddle) cables but not lever cables. Handlebar strap on lever is for 23.5mm (Jap, Ital, Engl).

Compl w/ 1 dual, 1 standard lever SW 2 lbs. ***35-201-3*** **$29.90**

Brakes only, no levers SW 1 lb ***36-452-1*** **$25.00**

Standard lever (1) only ***36-455-4*** **$4.00** SW 10 oz.

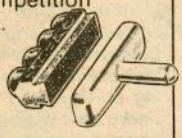
Dual cable lever only **6.90** ***36-457-0*** SW 10 oz.



Miscellaneous brake spare parts

Mafac brake shoe & pad assembly

Fits racer and Competition models S.W. 2 oz.



$4.00 /4 *36-453-9*

Dia Compe

Black rubber/alum shoe Fits everything except Mafac S.W. 2 oz.



$4.00 /4 *36-101-4*

Front cable hanger assembly

W/QR & cable tension adjuster to fit all center pull brakes on frames with notched steerer tube. S.W. 3 oz.



$3.00 *36-137-8*

Rear cable hanger assembly

For all center pull brakes to fit frames with conventional seat tube binder bolt. S.W. 2 oz.



$3.00 *36-141-0*

Chrome cable clips

For top tube S.W. 1 oz.



$2.50 /3 *36-491-9*

Transverse cable saddle assembly

For Weinmann, Dia Compe, Universal, Mafac, and all other C.P. brakes. Sold in complete assembly only. S.W. 2 oz.



$1.95 /ea. *36-133-7*

Mafac full gum rubber hoods

At last a comfortable, full cover for Racer & Competition models. Incl. cable adjuster.



S.W. 2 oz.
$5.95 /pr. *36-451-3*

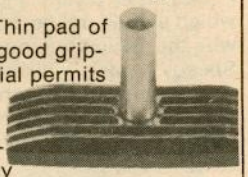
Dia Compe gum rubber hoods

also Fits Weinmann S.W. 2 oz.



$4.50 /pair *36-191-5*

Mathauser brake shoe & pad



Features: Thin pad of extremely good gripping material permits fast heat dissipation and eliminates spongy feeling with other pads.

Curved to conform to rim shape. Permits longer pad with more contact surface.
Pad is 100% bonded to shoe for perfect contact — can't pop out of shoe.
Superlight — weighs ½ that of Campy shoe and pad assembly.
4 different models:

Screw type: Metric threaded 6mm stud. Fits Campy, Weinmann, Dura Ace, Universal, Dia Compe, Shimano, etc.

Mafac rod type: 7mm smooth rod for Mafac type brakes.

Rim shape: Rims are made in straight sided and angle sided styles. All tubulars plus these clinchers: Super Champion, Rigida alloy, Mavic Elan, and Mod III, are straight sided. SW 6 oz.

$14.90

36-433-1
Screw type, straight side
36-434-9
Screw type, angled side
36-435-6
Mafac type, straight side
36-436-4
Mafac type, angled side

Mathauser brake pads

(only) SW 4 oz. Same material. Fits these brands of shoes:
Campy, Zeus, CLB *36-438-0*

Mafac, Dura Ace *36-439-8*

Weinmann, Universal, Gran Compe, Dia Compe *36-437-2*

$7.50 /set of 4

Mathauser regular type

Same famous material in conventional black aluminum shoe. Fits all but Mafac.
SW 4 oz.
$9.00 /set of 4
36-431-5



Tourist 179A Standard Clincher

Full size heavy duty touring design utilizing all premium components fully tested for cross-country touring. Handmade in our shop. For 1⅛ 1¼ inch tires only.

Spoke: Hi-tensile strength carbon steel 14 gauge, 3 cross.
Rim: 27 x 1¼" (or 700C) normal width 2-tube construction aluminum by Super Champion (Model 58) Add $2.00 ea. for tape.
Hub: Shimano 600 small flange QR 5-speed.

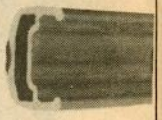


27" Fr. sm. flg. only	**$35.00**	***25-520-8***
27" Rr. sm. flg. only	**37.00**	***25-518-8***
Matched set 27" Fr. & Rr.	**70.00**	***25-522-4***
700C Fr. sm. flg. only	**35.00**	***25-510-9***
700C Rr. sm. flg. only	**37.00**	***25-505-9***
Matched set 700C Fr. & Rr.	**70.00**	***25-512-5***

Tourist 279A 25mm Clincher

The extra narrow rim designed for 25mm tires is now most popular due to fantastic performance like sew ups without maintenance problems. This value packed wheel makes conversion cheap and easy.

Spoke: Hi-tensile strength carbon steel 14 gauge, 3 cross.
Rim: Extra-narrow tubular construction aluminum by Super Champion (Gentleman) Rigida (13-20), or Araya (20A). All of these are superb quality and equal performance. Based on availability
Hub: Shimano 600 small flange 5-speed, as available Add $2.00 ea. for tape.



27" Fr. sm. flg. only	**$35.00**	***25-525-7***
27" Rr. sm. flg. only	**37.00**	***25-530-7***
Matched set Fr. & Rr. 27"	**70.00**	***25-532-3***
700C Fr. sm. flg. only	**35.00**	***25-535-6***
700C Rr. sm. flg. only	**37.00**	***25-540-6***
Matched set Fr. & Rr. 700C	**70.00**	***25-542-2***

Tourist 379A 25mm Clincher

Our finest tourist wheel with world's best components. Far surpasses quality of any production equipment.

Spoke: Stainless Steel 14 gauge spokes, 3-cross.
Rim: Same as model 279A above. Add $2.00 ea. for tape.
Hub: Campagnolo Nuovo Record QR 36-hole. Choice of small or large flange.



	Sm. Flange		Lg. Flange
27" front only	***25-545-5***	**$65.00**	***25-565-3***
27" rear only 5-speed	***25-550-5***	**70.00**	***25-570-3***
27" set of front & rear 5-spd	***25-552-1***	**135.00**	***25-572-9***
700 front only	***25-555-4***	**65.00**	***25-575-2***
700 rear only 5-speed	***25-560-4***	**70.00**	***25-580-2***
700 set of front & rear 5-spd	***25-562-0***	**135.00**	***25-582-8***

6-speed rear with any above:
Add $10.00, allow 2-3 weeks.

Racing tubular 579

We sell so many of this combination for racing that we decided to build a bunch and offer it as a stock model for immediate delivery. This is our most popular assortment of ingredients for racing.

Spoke: Stainless steel 14-15-14 gauge, 3-cross.
Rim: Super Champion Arc n' Ciel 330 gram or equivalent
Hub: Campy Nuovo Record small flange.



Front only	***25-600-8***	**$65.00**
Rear 5-speed only	***25-605-7***	**70.00**
Rear 6-speed only	***25-606-5***	**80.00**

Matched set Fr. & Rr. discount: Deduct $2.00 ***25-592-7***

IMPORTANT: SHIPPING WEIGHTS FOR WHEELS
1 wheel = 6 lbs. 2 wheels = 12 lbs.
No C.O.D. for wheel orders.

1) Wheels do not include rubber.
2) Wheels are sold and priced EACH not PAIR- specify Front or Rear.
3) Prices and shipping weight reflect rugged, specially made wheel box which assures wheel arrives in perfect condition.
4) All wheels include skewers.
All stock custom wheels are supplied with English threaded hub. If you have a French bike, we recommend changing to English with purchase of quality wheels.

Important: If wheel box arrives damaged, follow this procedure:
Crushed box:
reject particular box and note reason.
Partial damaged box:
write description of condition on UPS form and accept box for inspection. If wheel damaged, write to us.
Superficial blemish:
No problem

PEDALS

Campagnolo

Ship. wt. 1 lb.

Campagnolo Record pedals



Record road 1037

Forged aluminum body with chrome steel side plates. 9/16" × 20 thread only. W/o reflectors. 436 gr.

$60.00 /pair *45-135-1*

Record road1037A superleggero

Same as #1037 with black anodized aluminum side plates. 337 gr.

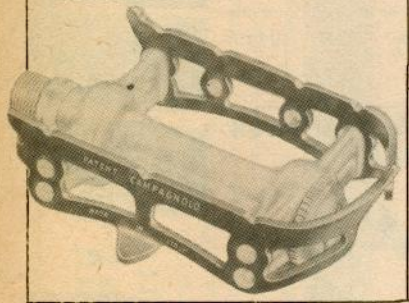
BEST BUY!

$80.00 /pair *45-145-0*

Super Record 4021

Exterior resembles record models but spindle is titanium and other components are superior. Black alloy plates. 9/16" × 20 only.

$159.00 /pair *45-155-9*



Campy pedal spare parts



Record Dust Cap
Plastic
S.W. 2 oz.

$4.50 ea. *45-450-4*

Pedal dust cap wrenches



S.W. 1 oz. **$2.25**
Campy #710 Pro Ace
13-271-2

Sugino Aero-Mighty

New aerodynamic design featuring forged aluminum body, sealed needle bearings, chromolly axle, and replaceable plate and clip. AW 425 gm/SW 1 lb. Two models. Silver only.
medium clip *45-120-3*
long clip *45-121-1*



Special Low Introductory Price

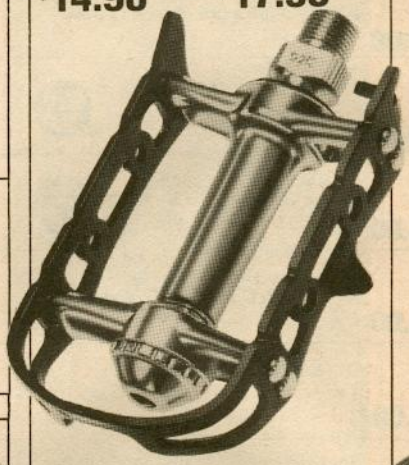
$77

SR SilStar

What a shock when we discovered this new pedal by famous SR of Japan! The entire body is a one piece lightweight aluminum forging just like Campy and other fine pedals. The wraparound aluminum plates are exact copies of Campy in every detail. In fact, from a distance of two feet, it's impossible to tell the difference between it and Campy. Precision bearings and heat treated carbon steel axle. Includes lightweight Cats Eye reflectors. Nothing else like it on the market at our special low price.

BSA thread. S.W. 1 lb.
Silver *45-065-0* Black *45-055-1*

$14.90 **$17.90**

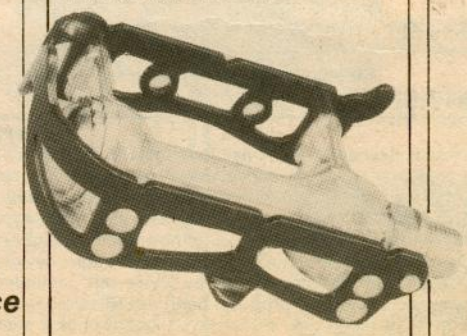


KKT Pro Ace superlight

Indistinguishable from Campy. Check these top features:

- Forged aluminum body
- Chrome Molybdenum axle, precision milled and knurled to deflect water
- Stainless steel hardware
- All-aluminum w/black side plates

A.W. 370 gr/S.W. 1 lb.



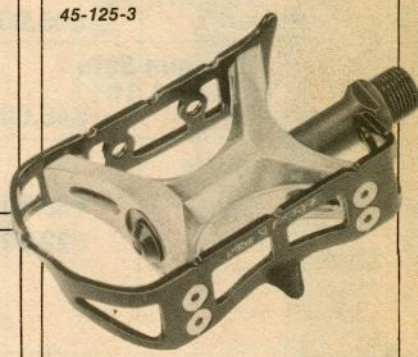
$39.90 *45-075-9*

Sun Tour Superbe pedals

We rate this all-new design as the most advanced pedal on the market going into 1980. The center "X"-shaped body portion is machined from solid aluminum bar. This makes it extremely hard and precise. The replaceable aluminum outer cage plates are heat-treated aluminum attached with four large, secure allen bolts. But the most important new development is the hollow axle. It is completely machined — not forged — from solid chromolly steel. The pedal is supported by two large permanently sealed needle bearings. An other small but intelligent feature is the tapered cage plates. The outer end, which would hit the ground in radical turns, is narrower than the crank arm end. It's not too noticeable in the picture, but this taper could mean the difference in an extreme bank. Whether racer or tourist, you should enjoy a lifetime of trouble-free, lightweight performance from this pedal. Weighs only 278 grams. Relfectors not included. SW 12 oz.

$69.00

45-125-3



TUBULAR TIRES

CLEMENT

Still favored by racers the world over. Nothing comparable to the performance of Clement silks and handmade (HM) cotton models. All of the old models have been re-designed for 1981 production. The two new Condor models offer famous Clement performance at competitive prices.

Name and Cat #	Model	Gram Wt.	Casing Fabric	Width	Tread	Tube Material	Mold	Shpg Wt Ea
Condor Art. 25 *28-100-6* **$17.90** BEST BUY!	New low priced, polyester casing design. Replaces old cotton models	300	Poly-ester	27mm	File	Butyl	Vulc.	1 lb
Super Condor L.B. *28-102-2* **$18.90**	Popular racing weight. New process tube reduces leakage. XLNT value.	270	Poly-ester	26mm	File	Butyl-ized latex	Vulc.	1 lb
Gran Sport 65 Art. 22 *28-104-8* **$15.90**	The classic heavy duty touring model.	360	No. 2 cotton	29mm	File/ ribs	Butyl	Vulc.	1 lb
Model 50 Latex Art. 19 *28-108-3* **$17.90**	New racing weight in this popular model.	260	No. 2 cotton	27mm	Ribs	Latex	Vulc.	12 oz
Criterium Art. 12b *28-114-7* **$35.00**	New lower weight. XLNT road racer, best cotton "red label".	250	No. 1 cotton	25mm	Chevron	Latex	C.P.	12 oz
Campionato del Mondo Art. 13 *28-120-4* **$40.00**	New lower weight. World's best selling silk tire. Well worth the extra cost.	280	Standard silk	27mm	Ribs	Latex	C.P.	1 lb
Paris-Roubaix Art. 13b *28-116-2* **$40.00**	Popular road racing model. WORLD'S NO. 2 RACING TIRE!	270	Standard silk	25mm	Chevron	Latex	C.P.	1 lb
Criterium Seta Art. 6 *28-124-6* **$40.00**	New weight. Best selling criterium model. WORLD'S NO. 1 RACING TIRE!	240	Standard silk	25mm	Chevron	Latex	C.P.	1 lb
Criterium Seta Extra Art. 1b *28-126-1* **$45.00**	Also 10 grams lighter. Amazingly strong & light silk. Unmatched handling.	220	Extra-light silk	24mm	Ribs	Latex	C.P.	12 oz
Criterium Seta Extra Art. 1b *28-128-7* **$45.00**	Criterium, time trial, track.	195	Extra-light silk	24mm	Bees-nest	Latex	C.P.	10 oz.

WOLBER

Watch this French maker for the latest technical innovation. Two revolutionary models here answer important rider needs.

Liberty *28-202-0* **$22.50** *28-204-6* **$22.50**	For riders who like tubulars, but not repairs! World's first tubeless-type tubular. Can't be called a "sew-up" because it contains no inner tube or stitching. Simple instructions included with purchase, showing how repair can be done on the road in 2 minutes. Resemsembles any other tubular in appearance	270 300	Egyptian cotton, 24 strands/ cm	22mm 24mm				1 lb
Invulnerable *28-212-9* **$22.50**	New steel mesh tread reinforcement yields a major increase in mileage and freedom from flats. Gum sidewall.	285	Cotton	22mm	Chevron	Butyl		1 lb.

Special Liberty patch kit *28-300-2* **$2.95**



CYCLE PRO

Excellent Japanese quality, design and materials practically eliminated competition from low priced Euro models. Always our best buy. Tires folded flat and have replaceable air valve. Gum side walls.

28-005-7 **230GM** **$17.90**	For criterium, time trial, and other high performance on good road surfaces. Excellent wear for such a light model. 105 psi.	230	Nylon		Rib/ chevron	Butyl	Vulc.	12 oz
28-015-6 **270GM** **$17.90**	Most popular model for all racing, sport use. 105 psi.	270	Nylon		Rib/ chevron	Butyl	Vulc.	12 oz
28-010-7 **300GM** **$17.90**	Racing, sport, commuting. A wise compromise model. 105 psi.	300	Nylon	BEST BUY!	Rib/ chevron	Butyl	Vulc.	1 lb
28-020-6 **350GM** **$17.90**	For maximum wear and safety. 105 psi	350	Nylon		Rib/ chevron	Butyl	Vulc.	1 lb



Terms of Sale

Defects: All merchandise is new and free of visible defects. If your order contains a defect, please return it at once for repair, replacement or refund (at our option). If our inspection proves it to be defective, we will reimburse your return postage and ship you a replacement at no additional charge. Tubular tires which have been glued and mounted are not guaranteed therefore please inflate and inspect prior to mounting. These factories give us no return privilege.

Customer Ordering Errors: If YOU ordered the wrong item, you must pay a $3.00 restocking fee per package. If you wish us to reship the "correct" item, please include the correct shipping and handling fee using the shipping weight (SW) listed in the product description and the rate in the chart on page 29.

Sale Merchandise: Items purchased "on sale" from one of our magazine advertisements cannot be returned without our prior written permission. Please write, do not phone us for this permission. Items advertised as "close-out" including those listed on page 10, are not eligible for return, under any circumstances.

Bikecology Brand Guarantee: Only those products bearing a Bikecology brand label are offered on a "satisfaction, no questions asked, money back guarantee."

Substitutions: If the item you order is out of stock and will not be back in stock for more than 30 days, we occasionally substitute an item of equal or greater value. These substitutions are flagged on your order form. If you are not satisfied with this action, please return the item with a copy of your invoice for a refund.

Refunds: All refunds are made within a two week cycle. If you paid by credit card, we will issue a credit memorandum to your account. Please allow up to 45 days for this to appear on your bank statement. Please refer any problems with returns and refunds directly to us and not your bank as that can result in a bureaucratic foul-up which neither of us would like.

Backordered Items: Nearly all items are shipped within two days of receiving your order. Any item not in stock at that time will be shipped automatically within 30 days. If you are unable to wait, just follow the easy procedure explained in the invoice which accompanies the rest of your order.

To receive another catalog: A fresh one is included with every order. In addition, each time you order, your name is kept on our mailing list for another year.

CLINCHER TIRES

How to understand tire & rim specifications

The designation 27 x 1¼ means that the outer diameter is 27" and that the height and width are both 1¼". A tire mark like 27 x 1 x 1¼ means that the width and height are both 1" and that it fits a 1¼" rim.

Metric Designation	*Conventional (U.S.)*	*Best rim fit (refer to info below)*
25-630	27 x 1¼ x 1 or 27" x 25	A only
25-622	28 x 1⅝ x 1 or 700 x 25	A only
28-630	27 x 1⅛ x 1¼ or 27 x 28	A or B
28-622	28 x 1⅝ x 1 or 700 x 28	A or B
32-630	27 x 1¼ or 27 x 32	B only
32-622	700 x 1¼ or 700 x 32	B only

This is misleading because such a tire doesn't actually fit properly on 1¼" wide rims. Instead it requires an ultra narrow (20mm) rim. The modern nomenclature, used throughout the rest of the world, is shown on the chart.

Most popular rims referred to above

A	Weinman 124	Araya 20A
	Super Champ Gentleman	Ukai 20A
	Rigida 13-20	Mavic Module E
B	Weinman 129	Mavic Module 3
	Super Champ #58	Araya 16A(2) and (5)
	Rigida Alu	Fiamme Yellow

We consider these one of the best tire values obtainable. Quality, performance and price are unbeatable. The model line has been continuously improved resulting in twelve outstanding selections covering the entire range of cycling. All feature proven reliable nylon casing, and workmanship superior to any other brand from Japan.

ship wt.

SW 1 lb.

Cycle Pro Clinchers

Mfgd by National Tire Co. Ltd. of Japan

Hi Extra 220 gram Skinwall, 22mm

For flat out performance. Special nylon, bead, and bare side walls produce feel and sound of silk tubulars. Road Racing Extra series (RRE). 100 psi.

22-630 ***27-005-8***
22-622 ***27-010-8*** **$8.90**

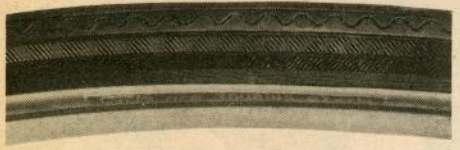
The touring models

The thick raised center ridge with "S" groove gives extra wear and excellent traction. Really the best overall performance and value on the market. Three models for different uses. All rated 90-100 psi.

25mm Ultra Narrow

For racing, training, sport. Not recommended for heavy duty use.

25-630 skin 270 gr ***27-050-4*** **$8.25**



25-622 skin 270 gr ***27-070-2***
25-630 gum 320 gr ***27-055-3***
25-622 gum 320 gr ***27-075-1*** **$8.25**

28mm Mid-Size

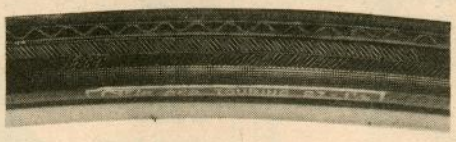
Most popular model. Lightweight yet strong enough for touring and rough conditions. Available in both skinwall (315 gr) and gumwall (400 gr).

28-630 skin ***27-060-3***
28-622 skin ***27-085-0***
28-630 gum ***27-065-2***
28-622 gum ***27-090-0*** **$8.25**

32mm Full Size Gumwall

A must for heavy duty loads, rough roads, tandems, and others requiring long wear and optimum freedom from flats. A fine handling, excellent stopping model. Weight 500 grams.

32-630 ***27-080-1***
32-622 ***27-095-9*** **$8.25**



Shipping Weight

STATE	WGHT. NOT TO EXCEED	SURFACE										AIR										
		AZ NH CA OR CO UT ID WA NV WY	AR LA NE IL MI ND IN MN OK IA MS SD KS MO TX KY MT WI	AL MD PA CT MA RI DE NH SC DC NJ TN FL NY VT GA NC VA ME OH WV	AK HI PR			AZ NH CA OR CO UT ID WA NV WY	AR LA NE IL MI ND IN MN OK IA MS SD KS MO TX KY MT WI	AL MD PA CT MA RI DE NH SC DC NJ TN FL NY VT GA NC VA ME OH WV	AK HI PR		
	1 lb.	$1.83	$1.90	$1.97	NO SURFACE TO THESE POINTS			$2.34	$2.44	$2.65	$3.81		
	2 lbs.	2.10	2.23	2.39				3.13	3.28	3.70	4.86		
	3 lbs.	2.37	2.58	2.80				3.90	4.12	4.74	5.90		
	4 lbs.	2.65	2.91	3.20				4.69	4.97	5.80	6.86		
	5 lbs.	2.92	3.24	3.61				5.45	5.80	6.86	8.02		
	6 lbs.	3.19	3.58	4.03				6.23	7.82	7.91	9.07		
	7 lbs.	3.47	3.93	4.44				7.01	7.51	8.97	10.13		
	8 lbs.	3.74	4.28	4.85				7.77	8.34	10.03	11.19		
	9 lbs.	4.00	4.59	5.26				8.55	9.42	11.07	12.33		
	10 lbs.	4.30	4.92	5.66				9.31	10.88	12.12	13.28		
	11 lbs.	4.56	5.27	6.09				10.09	11.18	13.17	14.33		
	12 lbs.	4.83	5.67	6.50				10.86	11.79	14.23	15.39		
	13 lbs.	5.09	5.94	6.90				11.29	12.56	15.29	16.45		
	14 lbs.	5.37	6.28	7.31				12.41	13.41	16.34	17.50		
	15 lbs.	5.64	6.61	7.71				12.41	13.41	16.34	17.50		
	EA. ADD. POUND	.30	.37	.44				.82	.89	1.09	*		

* Figure amount from column directly to left and add $1.16 to total amount. This includes shipping and handling.

CANADA: $4.00 for first 2 pounds, and $1.20 for each additional fraction.

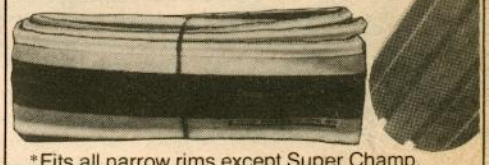
"Specialized" Turbo/S and Touring Turbo

Folding clincher tires

This is the finest quality folding tire on the market. Du Pont Kevlar bead permits compact folding and storage on bike until ready for use. Fits better than any previous folding tire. Features Specialized's new flat center section tread. Two versions: 25mm and 28mm.

25-630 195 gm Turbo/S* ***27-105-6***
28-630 220 gm Tour Turbo** ***27-115-5***
25-622 195 gm Turbo/S* ***27-100-7***
28-622 220 gm Tour Turbo** ***27-110-6***

$14.50/each SW 1 lb. each



*Fits all narrow rims except Super Champ. mod. 58, Araya 16A, and Rigida 13-19. Does fit 13-20.

**Fits all narrow rims except Rigida 13-19.

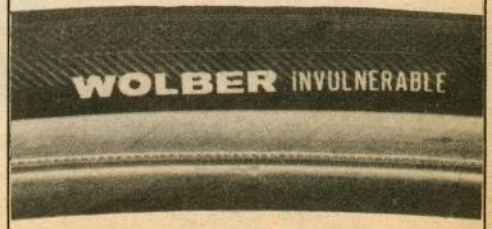
Installation requires cotton rim tape exclusively. Won't work with rubber rim strip.

Wolber Invulnerable

w/steel reinforcement SW 1 lb.

The most technically advanced tire available today. A thin steel mesh band about 15mm wide is located between the tread rubber and fabric casing, resulting in up to 300% more mileage and a drastic reduction in flats. The idea seems simple enough but development was very difficult. Handling isn't very different from ordinary tires because the mesh is so flexible. Available in 32mm width gumwall only. Weight 470 grams.

32-630 ***27-150-2***
32-622 ***27-155-1*** **$22.50**



INNER TUBES

Shpg. wt. 8 oz. (except where noted)

We have a full selection of the very finest quality high pressure tubes obtainable. We suggest that you follow these recommendations:

- ***Obtain correct size for your bike by reading the markings on the tire. Inner tubes themselves rarely have markings. If you have trouble matching one of our descriptions with your tire mark, write the tire mark on the order form.***
- ***Check old rim strip carefully for damage or wear and replace if questionable.***

Note: All 20mm rims such as Sup. Champ., Araya 20A, Rigida 13-20 require cotton tape, not rubber!

Extra-narrow 25mm type (1")

Mandatory for all 25mm (1") tires, but also works o.k. in 28mm tires. Presta valve is recommended because most 25mm rims have a small Presta-type valve hole. These tubes are available in both 27 inch (630) and 700C (622). AW 100gm

Presta 27	*29-010-6*	**$3.90**	Required for
Schrader 27	*29-005-6*	**$3.90**	Cycle Pro
Presta 700	*29-015-5*	**$3.90**	Hi-Extra tire.

Narrow 28mm type (1¼ - 1⅜")

This can be crammed into some of the wider 25mm tires such as Elan. It's also o.k. for 27×1⅜. Japan. AW 115gm

Presta	*29-025-4*	**$3.90**
Schrader	*29-023-9*	**$3.90**

Standard 32mm type (1¼")

For 1⅜" diameter but also works fine in various 28mm tires such as those in this catalog. Slightly smaller diameter and profile than standard 1¼" tubes. Recommended for all high pressure applications such as "skinwall tires". One size fits both 27 inch and 700C. AW 180gm

Schrader only	*29-050-2*	**$2.95**
Presta	*29-055-1*	**$3.90**

Thorn resistant tubes

This type features a very tough, thick layer of rubber on the road side of the tube. They are heavier than the other types but they really help eliminate punctures. Schrader valve only SW 1 lb.

For 1¼ tires: 27" & 700C	**$4.50**	*29-200-3*	AW 380gm
For 25 & 28mm tires: 27" & 700C	**$4.50**	*29-205-2*	AW 330gm

RIM STRIPS

27" Rim strips

SW 2 oz.

Normal rim type, also fits 700C *29-405-8* **$1.25**/pr.

Cotton rim tape

For 25mm tire rims. Adhesive-backed neutral colored tape similar to handlebar tape, for use with 25mm tires. S.W. 2 oz. pair.

29-450-4 **$1.00**/ea.

Aluminum tire levers

With everything else so light, why carry heavy steel levers? Excellent quality, Japan. S.W. 2 oz.

$2.50 pair. *08-181-0*



TIRE ACCESSORIES

Patch kits & cement

Rema patch kit

Butyl rubber only

This is unquestionably the best patch kit we've ever seen. Super thin, star edge patches with cold vulcaniz ing fluid gives a perfect per manent bond. Neat plastic box. Germany Large Kit



A.W. 2½ oz/S.W. 4 oz.

08-161-2

$1.50

Presta patch kit

Kit includes: thimble, needle & thread, glue, sand paper, patches, metal box. Velox brand. A.W. 2½ oz/ S.W. 4 oz.

08-163-8

$1.90



Gauges

Presta gauge, pencil type

All steel highly accurate to 140 psi, 3½ inches L.O.A. Weight 1¾ oz. Dunlop, England. S.W. 3 oz.

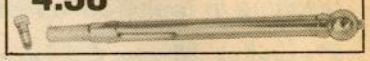
$4.50 *08-171-1*



Schrader (clincher) gauge, pencil type

All steel highly accurate to 140 psi. 5½" L.O.A. Features valve de pressor, core extractor. Weight 2 oz., Dunlop, England. S.W. 3 oz.

$4.50 *08-172-9*



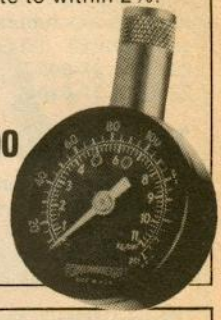
Kingsbridge air gauge

Unquestionably the most accurate gauge obtainable. Instrument quality construction of solid brass. Accurate to within 2%. SW 4 oz.

Schrader *08-173-7*

Presta *08-174-5*

only **$10.00**



Tubular rim cement

Clement Track S.W. 3 oz. *08-153-9*

Clement Road (red) S.W. 3 oz. *08-151-3*

$2.00

Tubasti Road (white) S.W. 3 oz. *08-155-4*

$1.50



Rim glue solvent

Welcome and necessary product to easily clean tubular rim cement. We recommend using fresh glue each time a tire is installed. 4 oz. can. SW 8 oz.

58-222-1

$3.95



Presta valve core replacement

Finally available! Internal air control valve fits Clement and other Italian presta valves designed for removability. No longer necessary to discard those valuable sew-up tires just because the valve stem breaks. Small needle nose pliers required for installation. Free freight.

28-134-5

$1.00/ea



Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

PUMPS BE PREPARED! EVERY BIKE SHOULD CARRY A PUMP!

SILCA FRAME PUMPS

Silca Impero frame fit pump, art. 72

World's #1 demanded pump as far back as we can remember.
Made of rugged but super-light weight plastic tubing with seals of natural leather and latex for maximum compression. Accepted by serious cyclists world wide. We stock only the "frame fit" type that mounts without any hardware. A best buy at our special low price.
A.W. 5 oz/S.W. 19 oz.

$9.50



Silca frame fit pump with Silca air chuck

	SILVER	BLACK	WHITE
420	55-005-3	55-001-2	55-002-0
440	55-011-1	55-007-9	55-008-7
460	55-017-8	55-013-7	55-014-5
480	55-023-6	55-019-4	55-020-2
500	55-029-3	55-025-1	55-026-9
520	55-035-0	55-031-9	55-032-7
540	55-041-8	55-037-6	55-038-4
560	55-047-5	55-043-4	55-044-2

Other air chucks for Silca pump

$7.50

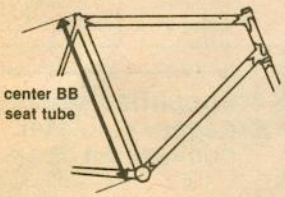
Campy 3346 plastic — 55-302-4

Campy 1030/2 steel (2 blue rubber legs) — **$11.50** — 55-303-2

Silca plastic same as supplied with pump — **$3.00** — 55-034-0

Selecting correct size Silca instructions

Measure your frame's size in the conventional manner; ie., from BB center to top of seat tube. Give us 2 things: 1. Frame size (inches or cm o.k.) 2. Pump size



Frame Size inch	Frame Size cm	Pump Size
19½-20	49-50	420
20-20½	51-52	440
20¾-21¼	53-54	460
21½-22	55-56	480
22½-23¾	57-58	500
23-23½	59-60	520
24-24½	61-62	540
24¾-25½	63-64	560

Note Borderline Sizes:
Better to order next larger for tighter fit!

Zefal frame fit pump #78

Here's another state-of-the-art design from this quality French maker. Up to 116 psi. Center tube is anodized aluminum with black plastic thumb lock. A long spring permits perfect fit on every frame size with just three pump sizes. New plastic thumb lock device permits easy inflation. Supplied with Schrader valve and separate presta valve conversion parts which install by hand in only seconds.
AW 5 oz/SW 24 oz.

New for 1981

Zefal #	Fits	Our Cat. #
78S-2	18-20½"	55-361-0
78S-3	21-23"	55-363-6
78S-4	23½-25½"	55-365-1

$8.50



Campagnolo corkscrew

Beautiful Campy precision, finish and feel. The allen bolts are same ones used in the crankset. SW 2 lbs.

Genuine gold plated — 08-510-0
$400

satin silver plated — 08-511-8
$80

Bronze plated — 08-512-6
$80



Zefal hi-pressure #72S

The original all-aluminum construction thumblock pump with Schrader valve. Main difference is thumblock device made of steel for extra durability. Supplied with presta conversion kit and mounting clip. 2 sizes.
AW 7 oz/SW 24 oz.

Model	Size	Cat. #
72.12	16½" length	55-341-2
72.16	18" length	55-343-8



$13.50

Floor pumps

Medai Top Super deluxe compressor pump

Every cyclist's workshop should have one of these pumps

Full 140 psi rated with positive thumb-lock on Schrader chuck. Easy to read calibrated gauge shows pressure at a glance. Brass Presta adapter included. Don't be confused by our competitors' other models that resemble it —ours is the very top of the line. Quality and reliability proven by thousands of happy customers.
Japan. S.W. 5 lbs.

55-501-1
$15.90



Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

Zefal Plus pump

The ultimate. Two chambers, each pumps in opposite direction. Over 150 psi in few easy pumps. Top quality. Schrader valve with presta adapter. S.W. 4 lbs.

55-331-3
$40.00



Silca art. 73 floor pump

Tube by Columbus!

One push on the handle is all that's needed to detect the Campagnolo-like precision and quality of this ultimate pump. At 200+ psi, enough pressure for any tire! Huge oversized brass air chuck packed with a soft, gummy pure latex valve seal that protects tricky Presta valve and prevents air loss. Extra long rubber hose permits inflation with valve at any position on wheel. Accurate pressure shown on a metric/pound gauge on base. Very few strokes needed to reach full inflation. Finish: Orange enamel. Worth the extra cost! S.W. 4 lbs.

55-312-3
$36.00

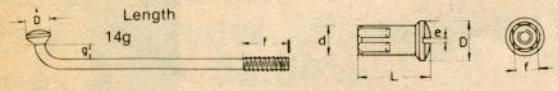


SPOKES

When it comes to spokes, we don't believe in messing around with cheap, trick, or experimental products. Each spoke in your bike is a critical safety point and you should use only the most reliable product available. Over the years, we've sold Swiss made DT spokes to thousands of customers without a single complaint of any kind. They're well worth the extra expense involved with this quality and Switzerland.

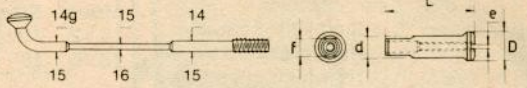
About gauge...

After experimenting with many different gauges — plain and butted — we have concluded that 14-gauge (2.0mm) makes the most sense for virtually everyone from solo tourists to racers.



Our packing...

We offer spokes in packs of 40 and 100, including matching nipples. Although this is slightly more than needed for many wheels, most people prefer to have spares.



DT stainless steel 14G

A few years ago, Bicycling Magazine published an independent scientific report showing this spoke to be BEST tested and our own experience supports this.

You'll be especially pleased with the beautiful, lasting finish of every spoke and nipple.

Box of 100: SW 2 lb. **$20.00**

Pack of 40: SW 1 lb. **$9.00**

Length	Catalog #	Length	Catalog #
292	***34-281-6***	298	***34-287-3***
295	***34-284-0***	300	***34-289-9***
297	***34-286-5***	302	***34-291-5***
		305	***34-293-1***

Asahi stainless steel 14/15/14G

Our other stainless steel spoke, by Asahi of Japan, is used on almost every professional bike made in Japan.

Our customers know they can trust high technology products from Japan and these beautiful spokes are no exception. Outstanding performance and durability at substantial savings. Packs of 40 only. SW 10 oz.

$9.00 /40

Length	Catalog #	Length	Catalog #
292	***34-071-1***	300	***34-078-6***
295	***34-073-7***	302	***34-077-8***
297	***34-075-2***	305	***34-079-4***
298	***34-076-0***		

6-way spoke wrench

Hardened, fits 10, 12, 13, 14, 15, 16, gauge everything! SW 3 oz.

13-247-2

$1.50



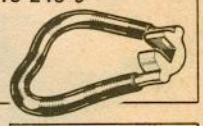
Park "loop type" spoke wrench

The finest steel, chromed, plastic coated. Professional shop quality. Specify Japanese or European spokes. SW 2 oz.

Europe ***13-249-8***

Japan ***13-248-0***

$4.50



36H TUBULAR (3 cross only)

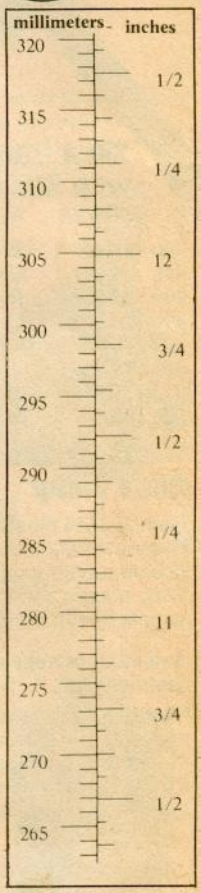
	Fiamme Red	Fiamme Ergal	Mavic Monthlery	Mavic Sport Legere	Sup. Champ. Arc n Ciel, Med. d' Or	Sup. Champ. Competition	Sup. Champ. Rec. du Monde
A LARGE FLANGE	295	295	295	295	295	295	295
B LARGE FLANGE	295	295	295	295	295	295	295
C STANDARD FLANGE	297	298	298	298	298	298	298
D SMALL FLANGE REAR	298	298	298	298	298	298	298
E SMALL FLANGE FRONT	300	300	300	300	300	300	300
F SMALL FLANGE FRONT	300	300	300	300	300	300	300
G HI-E TIME-TRIAL FRONT	302	302	302	302	302	302	302

36H CLINCHER (3 cross only)

	Araya Alum. 1¼, 1⅛ 27"	Fiamme Yellow 27"	Sup. Champ. #58 & Gentlmn. 27	Weinmann Conc. 27"	Sup. Champ. #58 & Gentlmn. 700C	Mavic Elan 27	Mavic Mod. 3 27"	Mavic Elan 700	Mavic Mod. 3 700	Araya Alum. 700; 1¼ & 1⅛	Rigida 13-20 & Araya 20A 27"	Rigida 13-20 & Araya 20A 700
A LARGE FLANGE	297	297	295	297	292	295	295	292	292	292	292	292
B LARGE FLANGE	298	298	295	298	292	295	295	292	292	295	295	292
C STANDARD FLANGE	302	300	298	300	295	297	298	295	295	297	297	295
D SMALL FLANGE REAR	302	302	298	302	295	298	300	297	295	298	298	295
E SMALL FLANGE FRONT	302	302	300	302	297	298	300	298	297	298	300	297
F SMALL FLANGE FRONT	305	305	302	305	298	302	302	298	298	300	300	298
G HI-E TIME-TRIAL FRONT	305	305	305	305	300	305	305	300	300	302	302	300

Tandem 48 D.T. Spoke/ Phil Hub
Same spokes Fr & Rr

	Weinmann Concaves	Sup Champ 2 tube
27 3X 4X	296 301	295 300
700 3X 4X	292 297	291 296



The Bikecology Spoke/Rim/Hub reference guide:

The chart above is based on several years experience building professional quality wheels in our four stores and is derived from the rim, hub, and spoke combinations obtainable from this catalog. It should be considered an aid, rather than an absolute imperative since there are still several variables which, if covered, would make the chart bigger than the catalog. This is definitely a complicated area of bicycle design and everyone would be a lot happier if the industry were standardized.

Hub categories for spoke chart above:

A **(Front & Rear same)** Campy Rec & Grn Spt; Normandy Lux; Maillard 700; Pelissier 2000; Dura Ace; Pro Am; Pro Superbe; Phil.

B **(Front & Rear same)** Normandy Sport; Shimano 600; Sunshine; Suzue; most other brands.

C Phil standard F & R; Sunshine Pro Am, Pro Superbe, VX small flange rear.

D Campy Rec & Grn Spt; OMAS; Dura Ace; 600; Gipiemme; Avocet; Bullseye F & R; most pro brands.

E Campy Rec & Grn Spt; Dura Ace; OMAS; 600; Gipiemme; Avocet; most pro brands.

F Sanshin Pro Am; Pro Superbe; VX; 600.

THE METRIC MEASUREMENTS CONTROL: That is to say that fractional inches are rounded off to the nearest stock size which you could expect to obtain commercially.

VARIABLES such as inconsistent thread length, nipple length, hub hole size, spoke head size, spoke stretch, rim elongation and elasticity and wall thickness and height are all involved. Therefore, in some instances, it is reasonable to expect to file off slight excess spoke length or see a few threads protruding beyond the nipple.

CLINCHERS: Lengths listed are the maximum allowable for the combinations covered.

TUBULARS: May accept up to 2mm or 1/16" longer spokes than shown in chart.

IGNORE CHART IF: You're ordering spokes to build a wheel from a hub/rim combination sold in this catalog. Just tell us what equipment you're using and we'll select the right length.

IF ORDERING SPOKES ONLY: Please let us know your rim and hub so that we can help you avoid pitfalls.

Simplified spoke gauge/diameter conversion chart:

S.W.G. English Wire Gauge	Diameter in Inches	Diameter in Millimeters
17	0.054	1.372
16	0.0625	1.588
15	0.072	1.83
14	0.080	2.03
13	0.090	2.286
12	0.1055	3.061

HUBS

1.) Every hub we sell includes a matching skewer unless stated
2.) Be sure to speficy all pertinent

Information with order:
Threading: Eng., Fr., Ital., where av
Flange size: Sml - Lg front or rear

Color: Silver - Black (where available)
Shipping Weight
1 hub – 1 lb 2 hubs – 1 lb 9 oz.

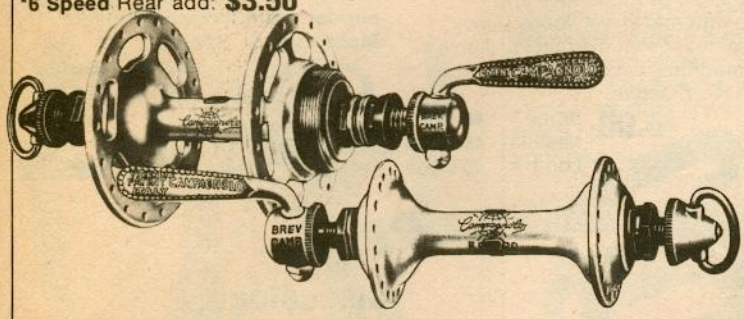
Axle Set 1 – 5 oz. 2 – 10 oz.
Skewer Assy 1 – 5 oz. 2 – 10 oz.
ORDER A PAIR AND SAVE!

Campagnolo

Campy Record Road

Small flange - Fr. **$39.00** *31-081-3*
Large flange - Fr. **$46.00** *31-09-12*
Pair Small flange **$80.00** *30-401-4*
Small flange - Rr. **$44.00** *32-261-0*
Large flange - Rr. **$49.00** *32-27-19*
Pair Large flange **$93.00** *30-405-5*

Important! *Separates are offered in 36H only.*
***6 Speed** Rear add: **$3.50**



Record spare parts

Front axle set complete **$12.00** *31-571-3*
Rear 5-spd axle set complete **$14.00** *32-863-3*
Rear 6-spd axle set complete **$14.00** *32-864-1*

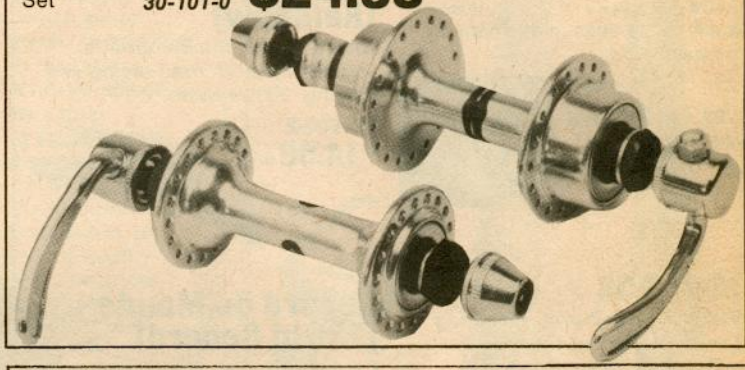
Front skewer asmbly complete **$14.50** *31-573-9*
Rear 5-spd skewer asmbly complete **$15.00** *32-861-7*
Above Shpg. wt. 5 oz.

Rear 6-spd skewer asmbly complete **$15.00** *32-862-5*
Above Shpg. wt. 5 oz.
Bearings, front *Free shpg.* **$4.00** *31-575-4*
Bearings, rear Free shpg. **$4.00** *32-865-8*

Shimano 600

Over the last five years, we've sold thousands of this excellent hub to quality conscious customers requiring a reasonably priced hub. This is a sensible upgrade for all those good bikes with no-name aluminum hubs. Features ground bearing races, an outstanding axle and pleasing appearance. English-Italian thread, small flange, 36 spoke 5 speed model only available.

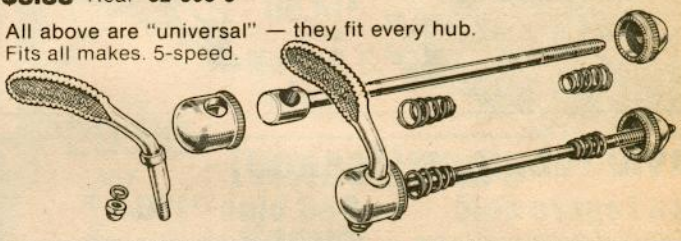
Front only *31-061-5* **$13.** Rear only *32-241-2* **$17.**
Set *30-101-0* **$24.90**



Universal Skewer assembly complete

$5.00 Front *31-41-79*
$5.00 Rear *32-503-5*

All above are "universal" — they fit every hub.
Fits all makes. 5-speed.

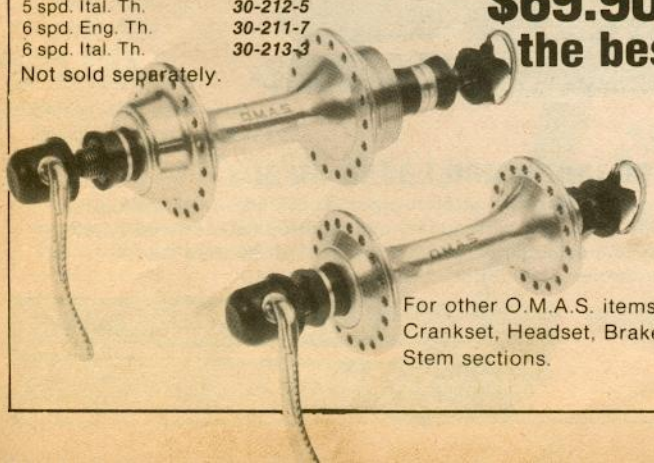


O.M.A.S. Sealed Bearing

Our unequivocal best buy rating in the state-of-the-art class for numerous reasons. This model has special steel alloy axles, aircraft quality precision sealed bearings, aluminum skewer ends, and the best finish of any hub we offer. The unusual styling has already been copied by several other factories. O.M.A.S. is one of the small Italian handcrafting factories which is winning many racers away from Campy. Our low factory direct prices make it very affordable too. We think it's the best hub made in Italy today. We stock 36 spoke, small flange only with English-Italian thread. AW 490 gm/SW 20 oz.

5 spd. Eng. Th. *30-210-8*
5 spd. Ital. Th. *30-212-5*
6 spd. Eng. Th. *30-211-7*
6 spd. Ital. Th. *30-213-3*
Not sold separately.

$69.90 the best!

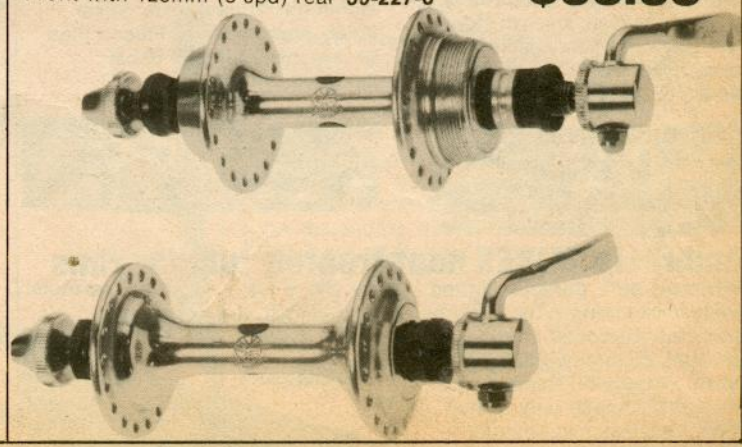


For other O.M.A.S. items, see Crankset, Headset, Brake, and Stem sections.

Gipiemme Sprint *New*

Gipiemme is one of the majors in Italy with a full line of pro parts competitive with Campy's. This is the best racing hub. Flange holes are 41 and 46 mm, identical to Campy and most other pro brands. Actually, our low factory-direct price does not properly reflect the true value of this product. We stock Engl-Ital thread and 36 spoke, small flange only. AW 515 gm/SW 20 oz. Sold in sets

Front with 120mm (5 spd) rear *30-225-7*
Front with 125mm (6 spd) rear *30-227-3*
$39.90



RIMS

Ship wts: all rims - any make
1 rim = 5 lbs., 2 rims = 6 lbs., 3 rims = 7 lbs.

France! Super Champion rims

Clinchers

Gentleman 36H

This type measures 13mm inside and about 20mm outside, and is extremely strong due to a double wall construction method which has been proven successful since 1975. You must use the extra narrow 25 or 28mm tires such as the ones in this catalog on these rims.

27 ***26-040-6***
700 ***26-045-5***
$14.50 each



Tubulars

These popular French rims can be trusted for great reliability performance. Fully ferruled, smooth sided and highly polished. All models are 36 hole only.

Arc en Ciel (Rainbow)

At 330 grams, the Rainbow is suitable for both road racing and touring. 20mm width.

26-400-2
$14.50 each



Model 58

Well-tested and proven touring rim weighing less than 500 grams! Super Champion model 58

27 inch 36 hole ***26-090-1***
700C 36 hole ***26-095-0***
27 inch 48 hole ***26-092-7***
$14.50 each



Record du Monde (World Record)

For light road and Criterium. Width - 19.5mm, 310 gr.

26-405-1
$14.50 each



Mavic tubulars (France)

Extra Legere gold

260 gram 36H racing quality rim with ferrules.

26-450-7
$30/ea.

SSC blue $130/ea.

395 gram special alloy heat treated racing rim with ferrules. Widely used in Tour de France 36H. Color is dark blue-gray.

26-455-6

Nisi Professional rims (Italy)

Used by more Italian racers than any other brand. Our two models are made of special high strength aluminum and anodized for lasting beauty. Fitted with spoke hole ferrules. 36-spoke only.

Sludi (290 gram)

Recommended for racers under 160 pounds. For time trial, track, criterium and very good roads. Dark gray finish, smooth sides. Unusual raised die cast logo plate (pictured).

26-301-2 **$45** each



Countach (350 gram)

All purpose model of normal aluminum. 20mm width. Silver finish, smooth sides. Falcon logo beside the Countach decal.

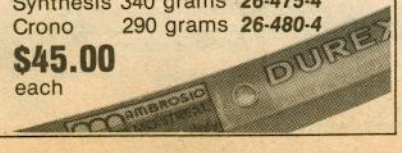
26-304-6 **$35**/each



Ambrosio DUREX heat-treated tubular rims

Extremely stiff, durable, limited production racing rims. Used by many top European pros. Unusual, distinctive dull gray finish. Fitted with thimble-type ferrules. 36 spoke only. 22mm wide. Magnesium-aluminum alloy. SW 6 lbs 1 - 3 rims. Two mdls:

Synthesis 340 grams ***26-475-4***
Crono 290 grams ***26-480-4***
$45.00 each



TOE CLIPS/STRAPS

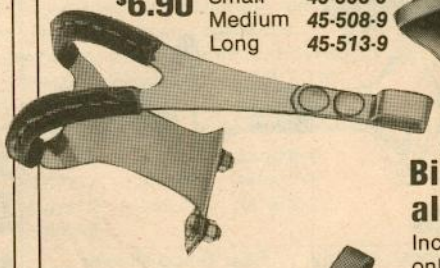
A ride or race can be spoiled by a broken clip or strap, yet this subject is frequently neglected by cyclists. Our steel clips are strictly competition quality spring steel with chrome plating. Our Italian AL-E clip is used on most of the best racing bikes, such as Colnago. The unusual contour corresponds comfortably to the foot as the strap is tightened. Thus, the loop never gouges the foot — a very important fact. Our AL-E Bikecology strap is made from the best back leather with colors that look great after long use. The chrome plated safety buckle has no sharp points to hurt you.

Indicate whether shoe is cycling type or sneaker type and shoe size. S.W. 8 oz. all clips

Deluxe leather clips

Designed for comfort and smart appearance. Helps prevent pained or numb toes and scratched street shoes. Thick leather sewn over metal. Narrow mounting only, sizes M, L, XL. 114 gr. Japan.

$6.90 Small ***45-503-0***
Medium ***45-508-9***
Long ***45-513-9***



Al-E steel clips

Finest racing quality clip on the market. Chrome plated. Approximately 100 gm/pair. Available in normal width mounting only. Made in Italy. SW 8 oz.

Small ***45-613-7***
Medium ***45-618-6***
Long ***45-623-6***
$3.90



Bikecology aluminum clips

Incredible weight savings at only 35 grams. The quality of our clip is second to none. Black anodized, includes fancy screws. Since aluminum is less durable than steel, we recommend it only where weight is critical. SW 2 oz.

Small ***45-553-5*** Long ***45-563-4***
Medium ***45-558-4*** X-long ***45-564-2***
$8.90



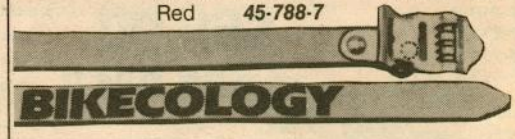
Toe straps

Shipping weight all toe straps - 4 oz.

Bikecology deluxe straps

Thick wide cowhide. Beautiful "chrome leather" finish and colors. Rugged, plated smooth working buckles. Black, White, Red, Blue, Yellow. Leather length - 14½". Italy.

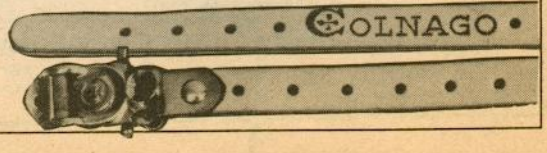
$3.50
Black ***45-798-6*** Blue ***45-778-8***
White ***45-768-6*** Yellow ***45-758-0***
Red ***45-788-7***



Colnago laminated Lusso straps

Guaranteed unbreakable, stretch-proof. This is identical to Binda Extra brand. Two very high quality leather straps are bonded together with nylon laminate center. Leather is light buff colored suede. Buckle is chrome plated. Italy. Leather length 14¼".

45-728-3
$9.90



REPAIR STANDS

Park wheel truing stand

Unquestionably the world's best designed & made. Used in all 4 of our stores, Calipers adjust together making it self-centering. Dishes wheel automatically saving the cost of a separate dishing tool. Same mechanic can build any wheel in 15 minutes less time compared to other brands. Completely chrome plated, ready to use, made in U.S. S.W. 18 lbs.

$149.00 *57-005-1*

Unbelievable low price



No C.O.D. Sales

The Bikecology wheel truing stand

Finally, a precision tool at a reasonable price the home mechanic can afford! Our stand features adjustable rim diameter bar for use with any size wheel. The large knobs on the rim centering screws are easy and quick to set. The small knob permits precise positioning of an indicator plate for wheel roundness. Notice dual axle positions. Unlike some lower priced stands, ours is made of thick, heavy steel which won't shake when you spin the wheel. The device sits atop a quadrapod stand for extra stability and there is even a height adjustment. The quadrapod serves a dual purpose. Remove the truing stand and the vertical member is a receptacle for your bike's crank arm. This device will support your bike perfectly, without a kickstand. It's vinyl dipped to protect the crank arm, of course. We're really proud of the quality we're able to offer you for this low price!



S.W. 6 lbs.

$29.90 *57-025-9*

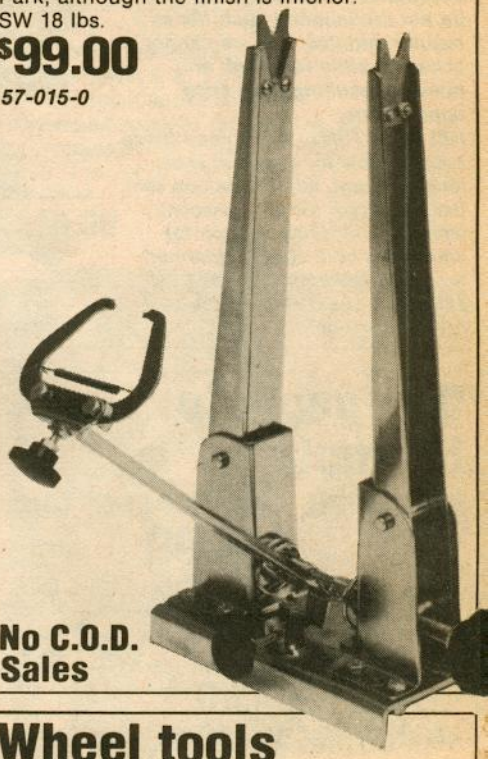
No C.O.D. Sales

Artisan wheel truing stand

Virtually an exact copy of the famous Park stand on this page. Pre-1979 production was not properly designed, but we have tested current model and it works as well as the Park, although the finish is inferior.

SW 18 lbs.

$99.00 *57-015-0*



No C.O.D. Sales

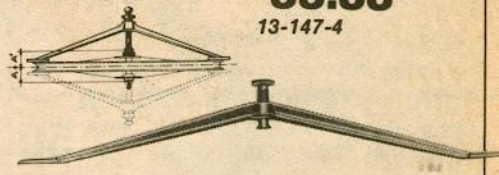
Wheel tools

Campy wheel dishing tool

Ensures proper hub/rim relationship.

SW 1 lb. 3 oz.

$39.00 *13-147-4*

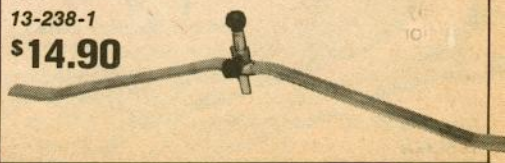


Bikecology Dishing Tool

The mate to our quality new stand by Minoura of Japan. Made of rugged zinc plated steel. Gives exactly the same degree of precision as Campy. And, the side knob pictured is a quick release method of setting the hub axle distancing guide instantly. If you've ever used Campy and other brands you know they require repeated screwing and unscrewing of the distancing guide. Best of all, you pay LESS not more for a better product. SW 1½ lbs.

13-238-1

$14.90



360 Cycle Vise service stand

Our latest and most versatile home/shop tool. The basic clamp is coated with plastisol to protect the bike. Completely adjustable to fit any tube, work on bike in any position. Made of cast aluminum. Two popular versions utilizing same basic clamp.

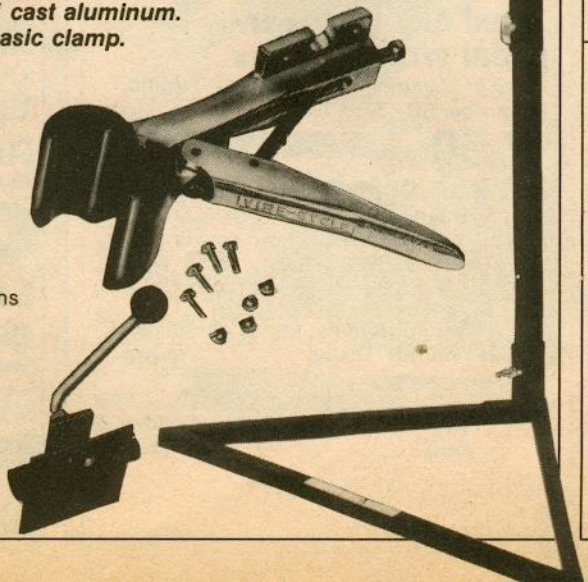
A) Clamp with wall plate
A flat steel plate bolts to wall or work bench. Clamp attaches to shaft welded to plate. S.W. 3 lbs. *57-035-8*

$60.00

B) Clamp with floor base
Basic clamp with steel square tubing and triangular base that won't tip over. Vertical portion telescopes in 2 locations for very convenient knock-down or height adjustment. SW 20 lbs.
Steel base: 24"×24"×32"
Steel post: 42"
Same clamp fits both plate and stand.

$79.00 *57-045-7*

No C.O.D. Sales



TOOLS

Crank arm removing tools

NOTE: Each manufacturer makes a tool designed for a perfect fit for its own crankset. There are also other coincidental fits which are useful to know about in case of emergency. These coincidental fits are revealed in the chart designated "Emergency fit". We do not recommend such fits as a regular practice, and we cannot accept liability for crank arm damage resulting from such applications.

HELPFUL HINT: You'll need these special tools for crankset work: lock ring tool, adjustable cup tool, fixed cup tool (or 12" crescent wrench), 5mm hex wrench for chain ring bolt, special spanner for chainwheel nuts, crank arm extractor, pedal wrench (or crescent wrench).



Cat. No.	Make	Designed to fit	Emergency fit	S.W.	Price
13-115-1	Sugino Mighty	All Mighty series	Dura Ace (D), Nervar (N), SR Royal (SRR)	9 oz.	$7.00
13-116-9	Sugino Maxy	Maxy I & II	None	8 oz.	$4.50
13-117-7	Dura Ace	Dura Ace, Tourney	N, SRR, Sugino Mighty (SM)	8 oz.	$7.00
13-141-7	Campy	Campy	None	6 oz.	$10.50
13-118-5	Stronglight	93, 99, 49	None	7 oz.	$7.00
13-119-3	TA	TA	None	8 oz.	$6.00
13-120-1	SR	Royal, Custom, Apex	N, D, SM, Sugino Maxy	6 oz.	$6.00

Campagnolo BB tools

Adjustable cup/headset tool

13-136-7 S.W. 10 oz. **$14.00**



Spare pins for Campy 712/1

13-137-5 1 oz. **$4.00**

Lock ring/headset tool



13-138-3 14 oz. **$14.00**

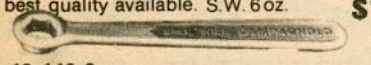
Fixed cup/pedal remover tool

13-139-1 **$16.00** 14 oz.



15mm crank bolt wrench

best quality available. S.W. 6 oz. **$7.50**



13-140-9

Sugino BB cup adjusting tool set

Two tools containing lock, ring, fixed cup, and adjustable cup devices plus two spare pins and hex wrench for their removal. Plastic pouch. Adjusting pins fit Sugino only but other devices fit all other makes. S.W. 1 lb. **$13.90**

13-001-3



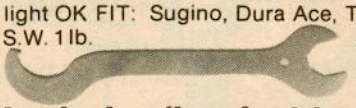
Also fits SR & O.M.A.S.

Artisan BB tools

Every Artisan tool is made of hi-carbon steel with exceptionally close die clearances are heat treated, cooled by oil quenching and nickel chromeplated for a permanent finish. The edges of all tools are "coined" or rounded so that they feel comfortable to the user's hand. All are U.S. made and exceptionally good values.

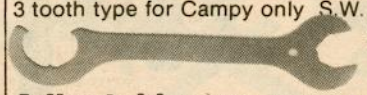
Lock ring/headset tool *13-013-8*

Single tooth type. Fits most popular makes, some better than others. GOOD FIT: Strong light OK FIT: Sugino, Dura Ace, TA, SR S.W. 1 lb. **$7.50**



Lock ring/headset tool *13-014-6*

3 tooth type for Campy only S.W. 1 lb. **$7.50**



Adjustable cup spanner *13-015-7*

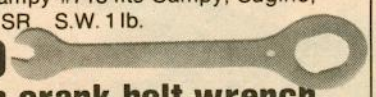
(pin tool) Copy of Campy #712/1 and fits Campy, Sugino, SR, and Dura Ace S.W. 1 lb. **$7.90**



Spare Pins for above S.W. 1 oz. **$1.75**/pr. *13-016-1*

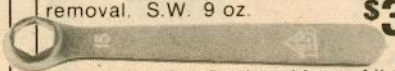
Fixed cup remover/ pedal wrench *13-017-9*

Copy of Campy #713 fits Campy, Sugino, Dura Ace, SR S.W. 1 lb. **$7.50**

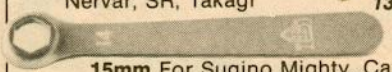


Artisan crank bolt wrench

This tight bolt requires plenty of leverage and a thin-walled, extremely hard socket for removal. S.W. 9 oz. **$3.50**



14mm For Sugino, Maxy, All Shimano, Nervar, SR, Takagi *13-018-7*



15mm For Sugino Mighty, Campy, TA, Zeus, *13-019-5*

Park tools

Universal cotterless crank arm puller

Eliminates the problem of different pullers for different arms. Double ended puller nut fits all cranks. Long, vinyl covered handle for comfort and adequate leverage. Heat treated alloy steel.
A.W. 6 oz.
S.W. 10 oz.
13-031-0
$13.00



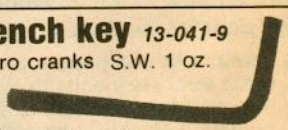
Universal cotterless crank wrench

Fits crank arm fixing bolt of all cotterless cranks now produced. Has screwdriver or 5mm hex for dust cap and 14, 15 & 16mm box wrench for bolts and nuts. Finest quality tool steel.
A.W. 4 oz. S.W. 8 oz.
$12.00
13-032-8



Allen wrench key *13-041-9*

5 mm, fits all pro cranks S.W. 1 oz. **85c**



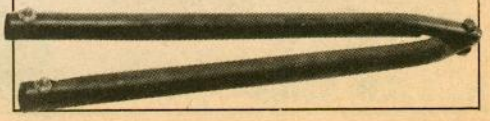
Fixing nut spanner **$1.00**

Fits all pro cranks S.W. 1 oz. *13-044-3*

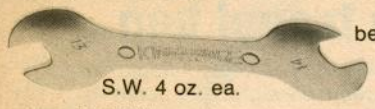


Proteus universal adjustable cup tool

New improved version. Pins spread to fit every cup made. New low price. **$12.90**
S.W. 8 oz. *13-045-0*



Kingsbridge cone wrench



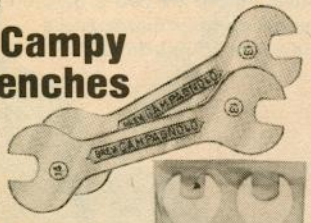
Now the best on the market!

S.W. 4 oz. ea.

13/14 *13-075-7*
15/16 *13-076-5*
14/17 *13-077-3*

$3.00 /ea.

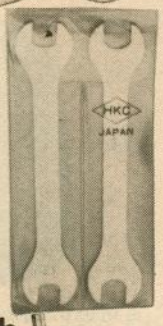
Genuine Campy cone wrenches



13/14 *13-143-3*
15/16 *13-144-1*

$8.50/ea

HKC economy cone wrench set



13-14 and 15-16

S.W. above, 3 oz. ea.

$2.95 *13-074-0*

Campy T-wrench



6 & 8mm *13-142-5* SW 4 oz.

$8.50

Allen wrenches

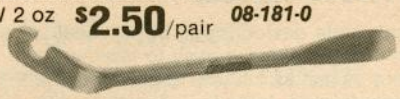


S.W. 1 oz.

5mm *13-041-9*
6mm *13-042-7*
7mm *13-043-5*

85¢ /ea.

Aluminum tire levers



SW 2 oz **$2.50**/pair *08-181-0*

Cyclo chain rivet extractor



England. The classic strong steel. Extra pin included. *S.W. 5 oz.* brand! Good and instructions

$3.95 *13-261-3*

Sun Tour Ultra-6 chain rivet extractor

S.W. 5 oz. **$11.00**

13-263-9

Uniglide chain rivet extractor



S.W. 5 oz.

$10.00 *13-266-2*

Artisan offset combination wrench

Special offset wrench designed to adjust hard to reach seat post clamp bolts on Campy and other posts. 10 mm. S.W. 4 oz.

$3.90 *13-275-3*

Cycle Pro tool kit

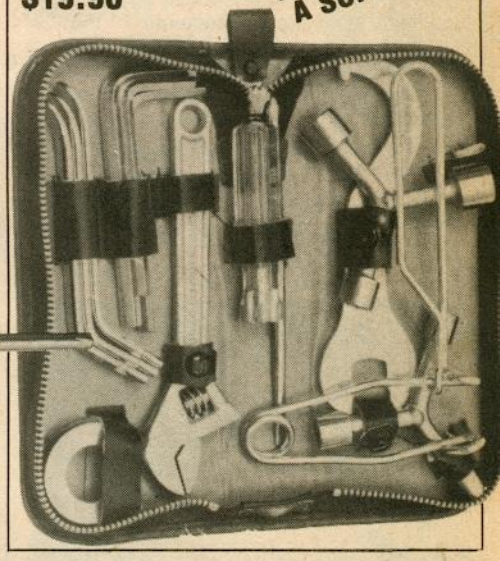
Incredibly complete for its size, much better quality than other makes in similar case, includes the following:

Miniature third hand
Screwdriver
Precision crescent wrench
Two hand-size wrenches:
11, 13, 14 mm; 8, 9, 10 mm.
Aluminum tire levers (2)
3 Allen keys: 5, 6, 7 mm.
6-way round spoke wrench
Open end spanner for headset, etc.
All in black vinyl zipped carrying case
A.W. 1 lb. 14 oz/S.W. 2 lb. 4 oz.
13-276-1

JAPAN QUALITY!

$19.90

IT'S ALL HERE! A SUPER BUY!



Brake tools

Brake fourth hand

One tool holds transverse cable saddle and tightens cable with one hand.

S.W. 6 oz.
13-200-1

$7.50



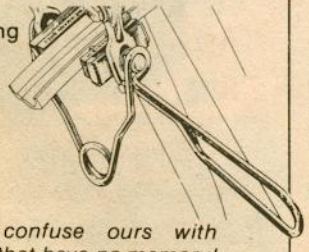
Memory 3rd hand tool

Compresses pads against rim allowing you to adjust cable tension.

SW 3 oz

13-201-9

$1.50



Don't confuse ours with others that have no memory!

Campy brake spanner

Only device which can tighten the hard-to-reach locking ring on Campy brakes.

SW 4 oz **$9.00** *13-148-2*



Dia Compe wrench set

Really essential for all brake work. Designed to work effectively around brakes and really essential for the serious mechanic. Plastic pouch included.

9 x 10mm box (1)
8 box x 10 open (1)
SW 4 oz *13-202-7*

$11.50



Hand-sized 3-way

One of the most popular new items we ever introduced. Fits all of the most critical components and at 2½ oz. can be carried on bike.



8-9-10mm

S.W. 4 oz.

$4.50 *13-273-8*

SunTour serv. stand



Versatile convenient stand raises rear wheel 4" off ground. Permits cranks to turn during driveline adjustments. Rugged steel, chrome plated. Rubber leg tips. Vinyl protects bike paint. Don't confuse with copies by other brands. S.W. 3 lbs.

$12.50 *57-055-6*

Quick-release clamp prevents sagging and welding breakage which are main complaints against every other brand.

MISCELLANEOUS ACCESSORIES

Canondale Rain Cape

This well made cape is designed especially for cyclists. It is made of durable taffeta nylon with waterproof "Super K-Kote" urethane coating.

The hood design permits freedom of movement. It fits fairly snug so a helmet must be worn over the hood. There's also a visor and cord lock on the hood.

Finger loops under the cape are positioned so that the cape completely covers the handlebar area.

Elastic leg loops hold the cape down at the back without interfering with pedalling or mounting the bike.

Besides the bright safety yellow color, this cape features a patch of Reflexite . . . the state of the art in reflective material. It is approximately 10 times brighter than the best bike reflector and actually has an angle of reflection of 180 degrees!

Sizes: Sm-Med (up to 5" 10") ***03-995-8***
Med-XL (over 5" 11") ***03-996-6***

AW 9 oz/SW 13 oz

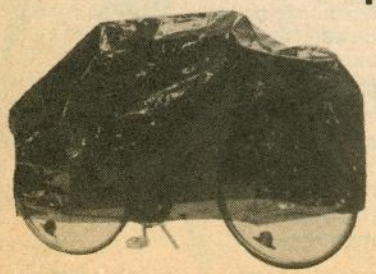
$24.90



Bike cover

Custom textured vinyl gauge heavy duty. Shaped to fit 10-speed bike. Won't blow off. S.W. 11½ oz. ***08-058-0***

$4.95

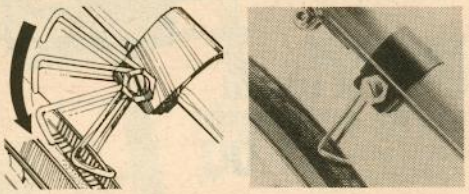


Flickstand

Simple little device holds front wheel in line with frame making it easy to lean against object or use kickstand, especially when heavily loaded. Installs in 1 minute, fits every bike, weighs only 26 grams, won't damage paint, absolutely no way it can malfunction. If you've ever carried panniers, you understand how neat this really is.

Free freight. **$4.25** ***57-165-3***

Fantastic new gadget!



Halt! dog repellent

No permanent damage to dog, really works.

08-021-8 **$4.00** S.W. 5 oz.



Halt Mounting Clip

Required for mounting can on bike. AW 15gm/SW 3 oz.

08-022-6 **$2.00**

Personal mirrors

See traffic behind you. Used by all serious cyclists. Now two different types. Each weighs only about 1 ounce and has good quality glass mirror. S.W. 3 oz.

Stewart's

Made of bent aluminum. Fits normal plastic type glass frames. Won't fit wire frames. We've sold thousands of these over the years. It's the best looking, cleanest one on the market. **$4.95** ***48-293-5***



Wire frame type

Alligator clip and velcro strap attach to hard to fit wire frame glasses. Also can clip onto helmets. Color is red. **$4.95** ***48-291-9***



Bikecology bike travel bag

Constructed of heavy duty nylon to increase strength, reduce weight. The padded adjustable shoulder strap is placed to improve weight distribution. Inside there are two protected wheel compartments and a new tool compartment.



The bike fits between the wheels. entry is via a long heavy duty zipper with two pull tabs. Bikes up to 24 inch fit as is. Larger frames require removal of seat post. Larger volume now permits this huge price reduction. AW 5 lbs/SW 6½ lbs

Was $75.00 ***51-621-1***

Only **$49.90**



Copyright © February 1981 by Bikecology, Inc.
All rights reserved. Reproduction of any part or all of this publication by any means or for any purpose whatsoever without the prior written consent of Bikecology, Inc., is prohibited and will result in immediate legal action against the violator. Published by BIKECOLOGY, INC., Los Angeles, California. 12th Edition. This edition supersedes all previous editions and prices. Manufactured in California, U.S.A.

LOCKING SYSTEM

Citadel lock

Includes $250.00 theft insurance



The ultimate in theft protection! No. 1 rated by America's foremost consumer advisory magazine during 1980. Impeccable quality . . . vast number of key combinations . . . and $250.00 insurance make it the top-of-the-line model. Insurance pay-off is handled directly by Citadel factory, not Bikecology. Full instructions supplied with package.
AW 2 lbs./SW 2 lbs. *08-380-8* **$27.90**

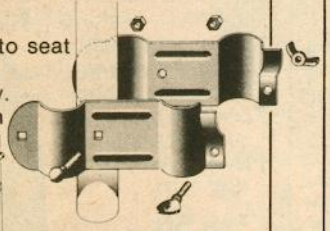
Techlok by Citadel



Same fine lock with only two differences: 1) flat type key with somewhat fewer key possibilities; and 2) only $150.00 theft insurance.
$19.90 *08-379-0*
SW 2 lbs.

Citadel frame attaching clamp

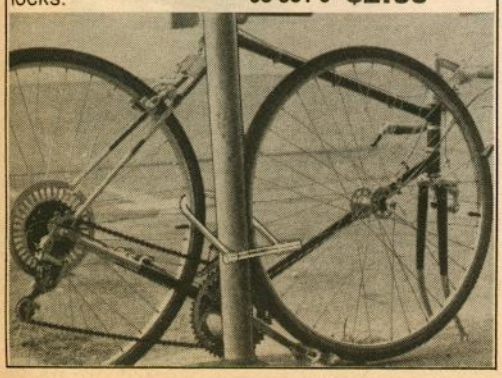
FREE FREIGHT with Lock



Mounts above locks to seat tube as illustrated. Purchased separately. New improved design for 1981. Free ship ping when purchased with above locks.



08-381-6 **$2.00**



No gimmicks . . . just good reliable necessities

LUBES & POLISHES

LPS lubricants

LPS 1 aerosol penetrant-lubricant-water displacer



When a Boeing 707 crashed into San Francisco Bay a few years ago, the airline used thousands of gallons of LPS 1 to elim inate water from the engines. This famous example illustrates the fact that this product is great for displacing water. A fine, light lubricating film remains on the metal. Recommended for inner wires, brake calipers and handles, QR skewer, derailleurs, shift levers, and every threaded surface. Fine clear liquid won't get sticky and messy. 6 oz. can with spray hose. S.W. 10 oz.
$3.00 *58-056-3*

LPS 3 aerosol lubricant-rust inhibitor



Protection against rust and water action; anti-sieze action. Great for chain, pulleys, and anyplace where a sub-stantial oil film is desired. 6 oz. can with spray hose. S.W. 10 oz.
$3.00 *58-058-9*

Dri-Slide lubricant



Entirely different from any of the conventional lubri-cants you've used on your bike. Molybdenum disulfide base is dry to the touch, but actu-ally penetrates far better than oil-base lubri cants, and will not attract dust.



4 oz can
S.W. 9 oz
$2.00 *58-060-5*

8 oz can
S.W. 12 oz
$4.00 *58-061-3*

Sta-Lube white lithium grease



This light, free rolling grease is specially formulated for precision, high stress surfaces such as bottom bracket, hub, and headset bearings. We've selected this brand for its high water resistance, quality and value. Definitely the best buy on this page!
10 oz. plastic tube S.W.13 oz.
$2.95 *58-042-3*

Campy special grease



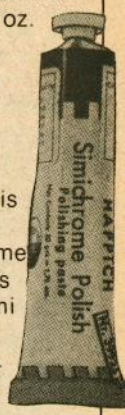
A white grease for BB, hubs, etc. 100 gram (ap prox 4 oz.) can S.W. 5 oz.
$5.00 *58-046-4*
500 gram can S.W. 24 oz.
$18.00 *58-048-0*

Phil Wood waterproof grease



Since all greases are pretty good, the biggest problem is breakdown due to dirt and water. That's why Phil offers this waterproof grease. It's highly viscous and involves somewhat more drag than the white greases. 85 gram tube. S.W. 5 oz.
$2.50 *58-044-9*

Simichrome metal polish



Recognized by owners of fine equipment in every country, this world famous German product simply works fantastic on chrome and especially aluminum. It has just the right pumice and chemi cal action to clean and polish without damaging fine finishes.
2 oz. tube S.W. 4 oz. **$3.50** *58-114-0*
8.8 oz. can S.W. 1 lb. **$8.50** *58-116-5*

If it moves, shoot it with Tri-flon The synthesized lubricant with TEFLON



TRI-FLON's tiny Teflon "ball bearings" make practically any mechanism work smoother, easier, cleaner, quieter and longer. Use it on anything that moves — household appliances, hinges, locks, sliding doors & windows, garden equipment, power tools, hand tools, marine hardware, automotive cables & linkages, motorcycle & bicycle chains, guns, fishing reels. S.W. 9 oz.
$2.95 *58-050-6*

BOOKS

The Custom Bicycle

By Michael J. Kolin and Denise M. de la Rosa, both technical editors of Bicycling Magazine. This is a fast and interesting reading book that concentrates on high performance, handmade bicycles. It deals with "How to buy, set up, and ride" the special breed of bike. Most welcome is the 131 pages dedicated to stating the background and products of the world's most famous makers such as Bob Jackson, Jack Taylor, Cinelli, and others. You don't need to visit the factories if you have this book. We at Bikecology wish everyone who is serious about buying a handmade bike would read this one. SW 1 lb.

$8.95 08-451-7

Velonews Basic Training

by Audrey McElmury and Mike Levonas, photos by Robt. F. George

Series of monthly schedules and advice for the racing cyclist. Written by highly credentialed former World Champ and her husband for racers who might not have access to top coaching. Series was revised from the pages of Velo-news. Chapters: Getting Ready, Interval Training, Specialization, Reaching a Peak, Maintaining Fitness, Before the Race, Equipment, Tactics, Motorpacing, Weight Training. 48 pp

$3.50 08-460-8 SW 4 oz.

Sutherland's Handbook for Bike Mechanics, 3rd ed.

A must for all serious mechanics and every bike shop. Out of print for last 1½ years while Mr. Sutherland was expanding and improving it to present vast scope. Makes sense of the maze of international specifications and other tricky areas. Packed with charts, graphs, and measur ing devices. Bound in looseleaf notebook to accommodate future supplements. Shpg wt 1 lb.

$27.95 08-458-2

Fitness After Forty

From World Publications, this book starts from the body's physical peak in the mid 20's and explores the statistically predictable deterioration through middle age. The task is to help you defy these statistics through optimal diet and the most physically beneficial sports. Informative and valuable reading for the young as well as the middle aged. Paperback. 262 pages. SW 15 oz

$4.95 08-455-8

All About Bike Frames

This little book is a small investment considering how much it will help you when the day comes to buy that frame. Considers proper fit, quality of construction, design criteria, whether you're considering touring, racing or day riding. By Joe Kossack. Paperback. 48 pp., illus. SW 6 oz.

$2.50 08-454-1

Building Bike Wheels

Finally, you can read your way to building your own wheels. Takes you step by step through wheel building, also discusses theory and maintenance of wheels. Paperback. 46 pp., illus. SW 6 oz.

$2.50 08-456-6

Campagnolo Catalog #17

Whether you own Campagnolo components or not, this is an education on components. The same catalog used by dealers and bike factories worldwide. Full description, measurements and breakapart drawings. This is the large spiral-bound catalog with embossed pages and color code sections on each of the Campagnolo groups. This book is an inch thick and easily deserves a place on your shelf along with your favorite art books. Nothing else like it in the bike industry. Spiral-bound. 96 pp., full illus. SW 33 oz.

Note: *This book is not consistently available so please consider the possibility of a back-order.*

08-457-4 **$19.90**

Inside the Cyclist

Physiology for the two-wheeled athlete

A marvelous book which answers so many of the questions we in the industry are frequently asked: "Concepts" deals with muscles, scientific terms, the heart, pain; "Training" involves competition, altitude, ergometers, profiling; "Diet" is extremely good dealing with fuels, carbohydrates, vitamins & minerals, liquids; "Injuries" covers saddle sores, massage, stretch-ing, chilling, etc. 128 pp. by the editors of Velo-news with photos by Robert SW 5 oz. F. George.

08-461-6 **$5.95**

Glenn's Complete Bicycle Manual

Considered one of the most thorough repair manuals avail able in the United States, this contains step by step information on disassembly through reassem bly. Step-by-step photographs and diagrams provide clarity in explaining each repair operation. An extensive introduction also gives hints on bike sel ection, cross country and international touring, and explains the role of industry and government agencies in regulating cycling. Paperback. 338 pp., full illus. SW 36 oz.

08-452-5 **$6.95**

The Bicycle . . . A Commuting Alternative

By Frederick L. Wolfe. The most thorough treatment of this subject so far. Chapters: Why Commute by Bike; Commuting Safely; Nutrition, routes, body positioning; On-The-Road Situations; Bikeway Design and Etiquette; Parking the Bike; The Bicycle (to buy); The Bicyclist (equipment); Com muting Combinations; Bike Organizations, 154 pages. SW 8 oz.

08-453-3 **$7.95**

Bicycle Touring Book

by Tim and Glenda Wilheim

A 303 page masterpiece that covers virtually every aspect of touring, including the important following major subjects: equipment, fitting the bike, gearing, clothes, packs, planning, camping, family touring, physical conditioning, repairs, shopping and a lot more. Well illustrated.

SW 2 lbs. 08-462-4 **$9.95**



FENDERS

Bleumels fenders

Indisputably the world's premier fender. Constructed of rugged plastic, they afford all necessary protection without adding undue weight and clutter.

Important note re. colors:
We try hard to stock all colors but it's sometimes impossible. Please list at least one substitute color. Unless you specifically instruct "no substitutes", we will automatically substitute the nearest color or black or white.

Standard width

Our special model is contoured neatly to fit all 1¼ inch width tires whether 27 inch or 700C diameter. The attractive colors are dyed into the glossy plastic for a permanently attractive appearance. New for 1981 is the chromoplast-type model. A thin aluminum fender is laminated between two layers of flexible clear plastic. The result is a surprisingly rugged fender which is so flexible it can almost be tied into a knot. Please note: does not include CPSC reflector. Sold in matching pairs only.
AW 19½ oz/SW 4 lbs.

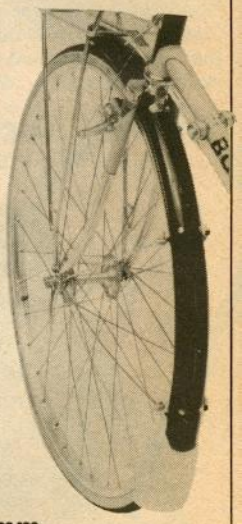
New "chromoplast" model, silver

53-017-0 **$19.00**/pr

Plain plastic models

White	53-014-7
Black	53-016-2
Silver met	53-017-0
Royal blue	53-009-3
Deep blue met	53-012-1
Sky blue	53-008-9
Lemon yellow	53-006-3
Forest green met	53-004-8
Dark red metallic	53-010-5
Aluminum material	53-002-2

$16.50/pr



Featherweight 25mm

Excellent new design for modern 25 and 28mm narrow tires. Fits 27 inch and 700C. Features clean, lightweight one piece wire struts. Shiny silver ribbed center tape decorates entire length. AW 14 oz /SW 4 lbs.

$16.50/pr



Featherweight 25mm

White	53-018-8
Black	53-020-4
Lemon yellow	53-021-2
Fire engine red	53-024-6
Royal blue	53-022-0

WATER BOTTLES

Bikecology water bottle

We guarantee you cannot buy a better quality bottle than ours made in Japan of virgin, odorless plastic. Very efficient cavities for grasping. Squirt cap. Imprinted with our new logo on front cover. AW 3½ oz/SW 5 oz.

White	*08-070-5*
Black	*08-071-3*
Blue	*08-072-1*
Red	*08-073-9*
Yellow	*08-074-7*

Only **$1.75**

"Name Brand" Bottles

O.K. to state color preference for each brand but orders are accepted strictly on the basis of "pot luck" color due to limited supply. White or black usually in stock. Every one a collector's item. AW 3½ oz/SW 5 oz.

Colnago	*08-075-4*
Campagnolo	*08-076-2*
Mercian	*08-077-0*

$3.00



The Road Bottle by Rhode Gear

The first cageless water bottle from the maker of Flickstand. Attaches to downtube via super light nylon clamp that makes the bottle easy to remove while riding. It's also non marring to the paint. Made of virgin, tasteless plastic with good grips for a positive grip. White with Bikecology logo imprinted in black. AW 100 gr. SW 8 oz.

$7.50 *08-062-2*

Bottle & alum. cage

Our popular Taiwan copy of our Pro model cage. Aluminum rod not as brightly polished as fancy model. Ivory bottle with squirt cap. Silver cage only. Includes all mounting hardware. AW 3 oz/SW 5 oz.

Bikecology *08-110-9*

$4.90



Bikecology Pro aluminum cage

We've gone to Japan for the best cage on the market. Highly polished and anodized. Hi impact nylon. Includes stainless steel allen screws and mounting straps for bikes without brazeons. Allen wrench also included. AW 2 oz/SW 5 oz.

Silver	*08-065-5*
Black	*08-066-3*
Gold	*08-067-1*

Special low price **$4.90**

HI-POLISH

Blackburn Designs cage

Typical Blackburn quality and unusual style. Supplied without mounting hardware (avail able separately). AW 2 oz/SW 5 oz.

Silver	*08-079-6*
Black	*08-080-4*

$7.50

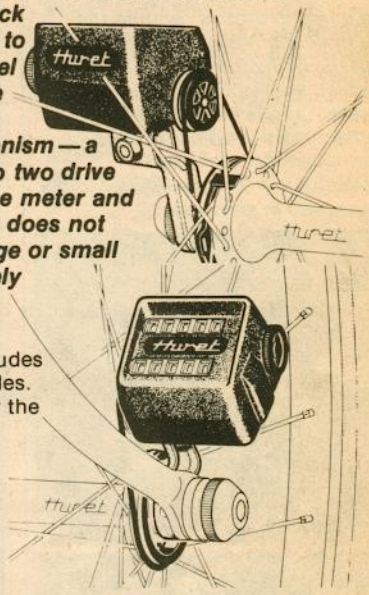
Blackburn cage mount kit for above

Silver only. Free freight

$3.00 *08-082-0*

Huret Multito cyclometer

There are 2 separate odometers. One has a zeroing reset button to measure specific trips and the other, for registering the cumulative total is non-resettable. It attaches between the axle cone and lock nut, so that it remains affixed to the wheel even when the wheel is removed from the fork. The nicest feature though, is the completely silent drive mechanism — a strong rubber belt attached to two drive pulleys. One is attached to the meter and the other to the hub flange. It does not matter whether the hub is large or small flange. Thus there is absolutely no annoying clicking as with conventional cyclometers.



Rugged black nylon casing. Includes instructions. Measurement in miles. Well worth the extra cost just for the accuracy and silence! France. S.W. 5 oz. *08-011-9* **$12.50** Free freight.

Spare drive belt

08-012-7 **$1.50**

Bugger III by Canondale

Newest and best model ever. Molded polyethelene chassis. Aluminum frame 20" wheels with pneumatic tires and sealed ball bearings. Completely new improved hitch is quick-connect and sprung to dampen road shock. Finest hitch on the market. Harness system for kids. Reflexite reflectors, and optional ($19.95) tonneau cover. State-of-the-art product, yet priced close to the ordinary brands. *08-101-8*

only **$189.50**

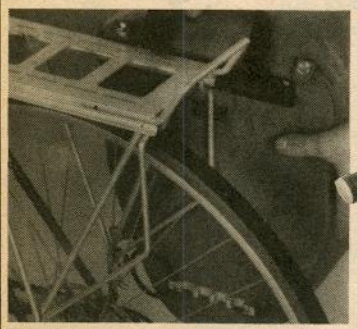
special offer . . . Free freight anywhere within Continental USA

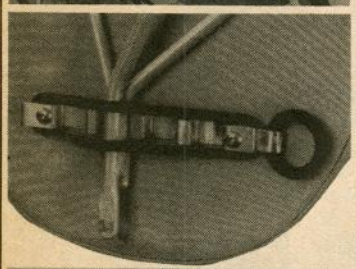


THE ECLIPSE BICYCLE PACK SYSTEM

Slide mount attaching system

Each pack is fitted with a molded nylon male extrusion which inserts into a matching female aluminum groove running the entire length of the Eclipse rack or the Eclipse add-on plates which are available for bikes with other brands of racks. The lower attachment is adjustable for various racks and load positioning. The panniers can be removed in seconds.





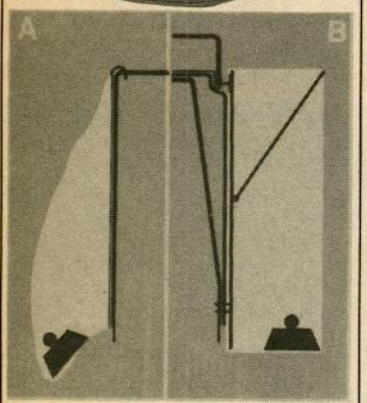


Illustration (A) shows a typical weighted pannier/rack combination. The load sags and can sway unpredictably.

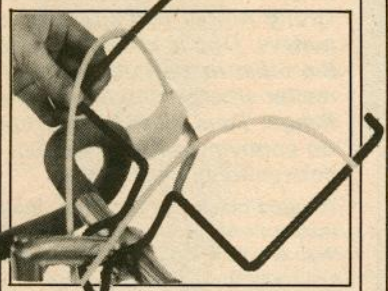
Illustration (B) shows the same weight in an Eclipse pannier with our internal support. No sag, no sway.

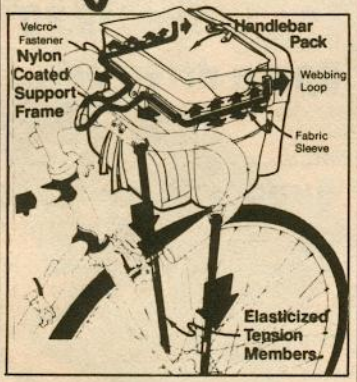
Eclipse materials

Waterproof coated Cordura nylon. Red, blue, orange #5 polyester coil 2 slide zippers, protected by a double layer flap. Nylon webbing, bar tacked at stress points.

Handlebar pack suspension

Eclipse designed the familiar steel top support (pictured) which is used in Bikecology and most other quality brands. It's instantly removable, trouble-free, and clean. Lower suspension is via shock cords. The pack doesn't bounce or move.





Nomad Commuter panniers

(Oxford nylon)
Cheap, easy way for town. Single compartments without pockets. Halves are sewn together saddle-bag style to fit every rack. Doesn't require slide-mount device. New improved rack attaching Velcro system. Comfortable plastic handles let you carry it like a briefcase.
Cap: 1150 oz. AW 17oz/SW 30 oz.

Red	***51-235-0***
Blue	***51-240-0***
Orange	***51-245-9***

$35



Professional panniers

Identical to Transcontinental except: no zip-out divider between top and bottom; no zipper around pack's mid section; no small pocket on front edge. Still quite state-of-the-art.
Cap: 2120 cu. in.
AW 49 oz/SW 4 lbs.

Red	***51-250-9***
Blue	***51-255-8***
Orange	***51-260-8***

$95



Pannier rain covers

Lightweight waterproof fabric in bright yellow for safety. Fits all Eclipse packs.
AW 3½ oz/SW 5 oz.
51-335-8
$15



Rain cover.

Transcontinental panniers

Considered the highest state-of-the-art by serious cycle design buffs. 6 compartments per pannier with unique 2-way main compartment that converts from 2 to 1 large main compartment via simple zip out divider.

- 72 cu. in. pocket on outside of flap.
- 3-inch extendable sleeve at the top of the main compartment increases load capacity.
- Stiffener pocket inside the main compartment for maps, papers.

AW 58 oz/SW 4 lbs.
Cap: 2200 cu. in.

Red	***51-275-6***
Blue	***51-280-6***
Orange	***51-285-5***

$115



Seat pack

Full 19 inch wrap-around zipper makes loading unusually easy. Two inch wide abrasion strip for tire, brake cable. Foam stiffener.
AW 5½ oz/SW 10 oz.
Cap: 250 cu. in.

Red	***51-205-3***
Blue	***51-210-3***
Orange	***51-215-2***

$13



Professional handlebar pack

Top-of-the-line model for use with either Transcontinental or Professional panniers . . . or any other equipment. Eight pockets. Flexible internal organizer. Nylon net side pockets, useful rear pocket. Beautiful workmanship.
AW 23½ oz/SW 2 lbs.
Cap: 610 cu. in.
Red ***51-190-7***
Blue ***51-195-6***
Orange ***51-200-4***
$55

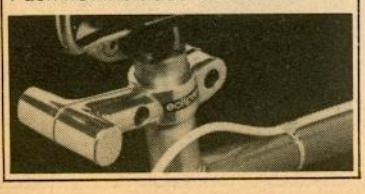


SPT

Stands for "seat post thing." Clever device mounts handlebar pack (not incl.) to seat post. Accepts any pack using Eclipse-type pack suspension. Aluminum, black finish.
AW 4.5 oz/SW 8 oz.
51-330-9
$13.00



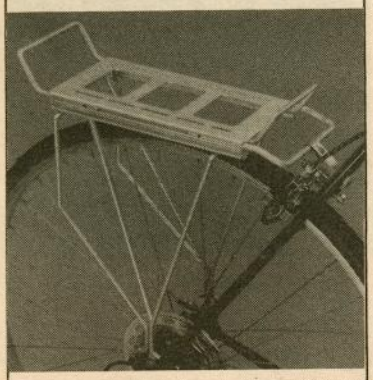
Pack not included with SPT.

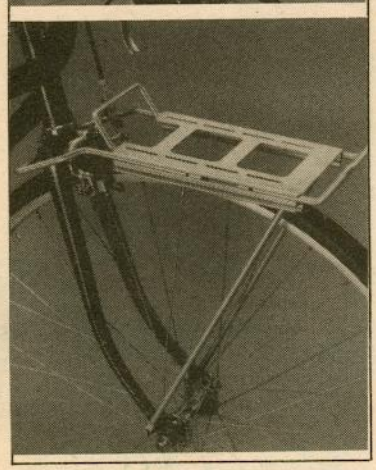


Eclipse pannier racks

Heliarc welded of 1/4 and 5/16 inch aluminum rod with quality and strength surpassed by none. Mounts via adjustable brake bolt clamp similar to Blackburn Designs'. Contains special extrusion for Eclipse panniers. The top platform is adjustable about 3 inches forward and backward to give good fit on all frames and any type of load. Neat allen bolt fittings (wrench supplied) for adjustment. Excellent stability, sharp looks. Approx. 700 gm/SW 4 lbs.

Pro Rear, brake mount		
SW 4 lb.	***54-250-6***	**$29.50**
Front		
SW 3 lb.	***54-251-4***	**$23.50**
Slide mount add-on		
SW 10 oz.	***54-260-5***	**$ 5.00**
Add-on plates for Blackburn		
SW 10 oz.	***54-261-3***	**$ 5.00**





Huret Multito odometer

State of the art design.
See page *41* SW 5 oz.
$12.50



CLB aluminum brake cable & housing

CLB of France has created the world's lightest brake cable housing. It's the only one made of aluminum and coated with semi-transparent polyester for weather proofing. Special heavy-duty braided steel cable moves inside a teflon tube core which fits snugly against the aluminum. Pear end fits every major brake lever. Cable is permanently lubricated. Compare it to a conventional set weighing 170 grams (6 oz.). Since the housing is so light, it does flex a bit more than steel during lever actuation. But this won't impair braking. Sold as complete set of front and rear cable, housing, ferrules. Cut to desired length. Silver. ***36-893-6*** SW 6 oz.



$11.90

O.M.A.S. titanium BB

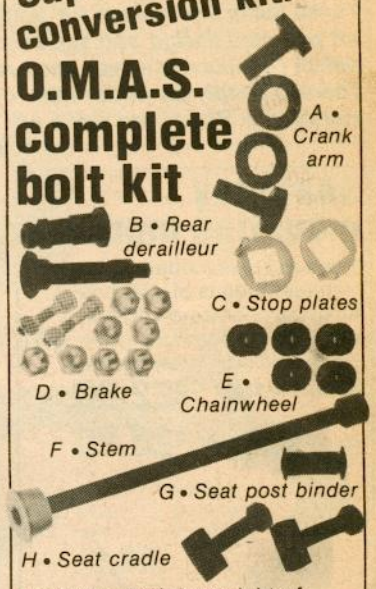
Completely original design. This is a titanium axle with aluminum cups and shielded ball bearing cartridges. When cartridges snap into position in specially machined cups, they are perfectly adjusted, requiring no "feel". Each has a lock ring. The spindle is machined titanium and fits Sugino and Campagnolo arms. With this quality, and only 185 grams, this is an outstanding value compared to anything like it on the market. Avail. Eng/68, Fren/68 and Ital/70 double only. S.W. 12 oz.



Eng. 43-611-3
Fr. 43-612-1
Ital. 43-613-9
$79.95

Superlight conversion kit!

O.M.A.S. complete bolt kit



Less than half the weight of counterpart Campagnolo and Cinelli items. Kit includes:
A • Two 15mm crank arm fixing bolts and washers
B • Derailleur upper pivot bolt and tension spring (fits Campagnolo only)
C • Stop plates for Campagnolo downtube controls
D • Brake shoe nuts (Fits Campy, Dura Ace and Gran Compe)
E • Double chainwheel fixing bolts (fits Campagnolo, Sugino)
F • Stem expander bolt and cone (fits TTT Record and Cinelli)
G • 8mm seat binder bolt
H • Seat cradle bolts and bushings (fits Campagnolo, SR)

All parts made of aluminum. Italy.
AW 100 gr./SW 5 oz.
08-500-1
$29.90

O.M.A.S. brake bolt kit

Less than half the weight of comparable Campagnolo parts! Titanium center bolts and light alloy brake shoe nuts. Fits Campagnolo and Dura Ace. Italy. S.W. 2 oz. **Important: Specify make of bicycle!**



$24.90

2 types: (1) Acorn nut; ***36-501-5*** (2) internal sleeve allen nut for specially milled frame and fork.
36-502-3

PANNIER RACKS

Jim Blackburn Designs

These racks are famous for brilliant state-of-the-art patented design and superior quality. No defect or failure has ever been reported to us. There is simply no better way to carry panniers. Here's why Blackburn racks are so popular:

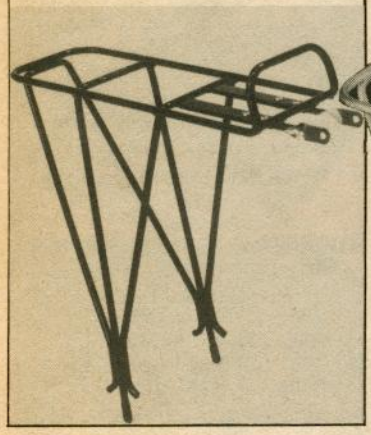
• With adjustable model, rear rack top can be level on every frame size. • New seat stay attachment model available for four-point mounting. Three sizes of clamp assures perfect fit on every bike. • Optional wide-angle reflector brack et fits both models. • Rigid, lightweight front rack will not interfere with brake or fenders.

Seat stay mounting model

Same as brake mounting but features 4 points of attachment. Attaches to braze-on fittings or special Blackburn clamps, purchased separately (below).

Silver ***54-155-7*** **$22.90**

Black ***54-175-5*** **$23.90**

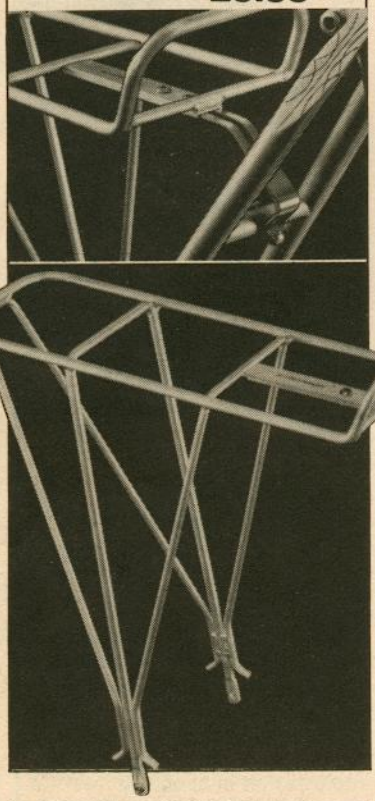


Rear brake mounting model

The adjustable front attachment of this model fits under the rear brake center bolt. The bottom struts attach to the eyelet dropout. AW 425 gm/SW 2 lb

Silver ***54-145-8*** **$22.90**

Black ***54-165-6*** **$23.90**

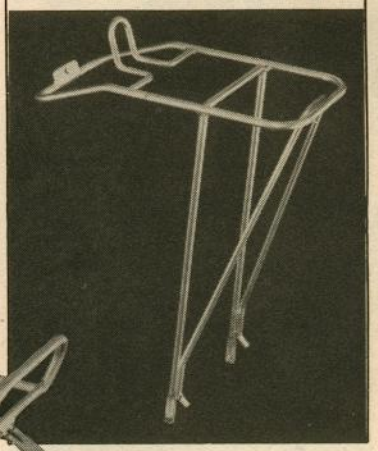


Front rack

Similar to rear rack in appearance and design. Attaches to fork tip eyelets and front brake center bolt. Will not fit bikes without fork tip eyelets. AW 290 gm/SW 2 lb

Silver ***54-195-3*** **$19.90**

Black ***54-185-4*** **$21.90**



Cycle Pro Adjustable

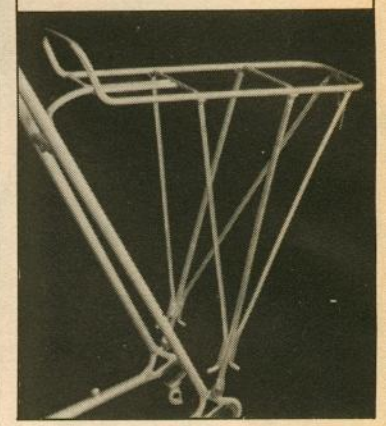
New improved design aluminum rack that adjusts level via sliding brake attachment. Includes bracket for reflector. Top quality. Japan.

AW 15oz/SW 2 lb

Silver ***54-006-2***

Black ***54-016-1***

$17.90



Blackburn stay clamps

For use with any stay mount rack. Measure stay diameter carefully with caliper. We will not exchange incorrectly ordered clamps. S.W 1 oz.

9/16" Most common including 531 frames under 23" ***54-205-0***

5/8" 23" & larger 531. Columbus. ***54-210-0***

1/2" Very rare in pro bikes ***54-215-9***

$1.25/pr.

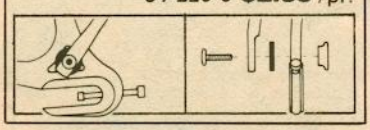


Blackburn dropout eyelet adapter

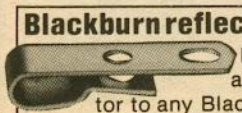
For use with bikes with Campy type rear dropouts without rack eyelets. Fits triangular hole with complete reliability.

A.W. ½ oz/S.W. 1 oz.

54-220-9 **$2.95** /pr.



Blackburn reflector clamp



Mounts wide angle reflector to any Blackburn rack.

S.W. 4 oz. ***54-217-4*** **75¢**

Wide angle reflector

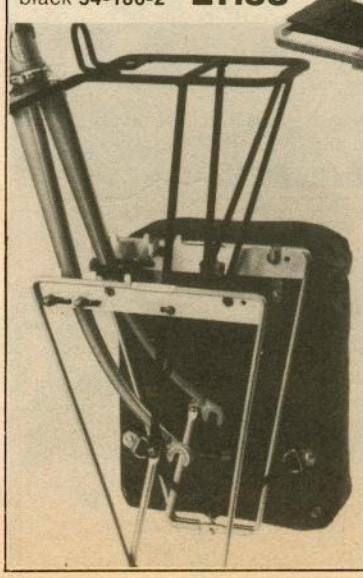
SW 6 oz. ***48-371-9*** **$1.25**

Blackburn Low Riders

Holds front panniers low and secure next to hub for optimum efficiency and safety. Fits Blackburn front rack and accepts all pannier brands. sold in pairs w/ all necessary fittings. AW 480 gm/SW 3 lb

silver ***54-196-1*** **$19.90**

black **54-186-2** **$21.90**

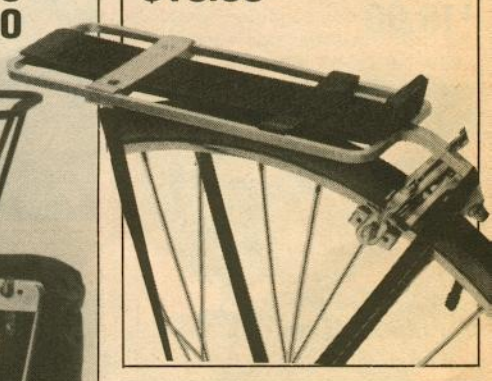


Rhode Rack

New improved version by Rhode Gear. Better plastic shelf, bigger diameter struts, and stronger brake mount. Also more tire clearance than early model. Adjusts level on all frames. AW 14½oz/SW 2 lb

silver only ***54-205-8***

$16.90



BLACKBURN... THE BEST!

Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

Chains

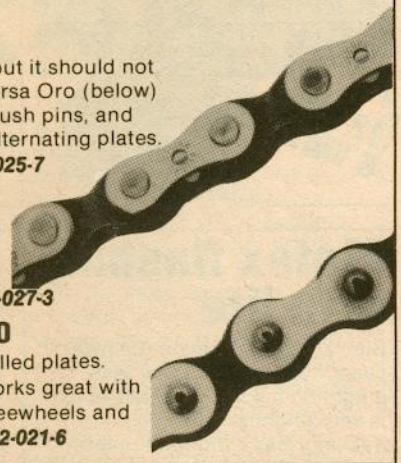
One of the most critical and frequently overlooked major components is the chain. Upgrading usually yields dramatic improvement in shifting and efficieny. Replacement interval is 2-3,000 miles or when freewheel is changed. For definitive study of chains see BICYCLING MAGAZINE Oct 80, quoted below. S.W. All Chains 16 oz.

Regina Record series

This is Regina's best quality in all respects. The outer plates are tapered narrower in the area around the hole. All edges of the outer plate are precision bevelled to engage freewheel teeth very smoothly. It is available in three versions.

I Record Oro $22.90

This is the most familiar-looking but it should not be confused with the old Supercorsa Oro (below) which lacks the bevelled plates, flush pins, and lightness holes. Black and gold alternating plates. ½ x 3/32 x 116L. AW 348 gr. ***42-025-7***



II Record "S" $24.90

This is same as above but nickel-plated and polished for a rust-proof and more beautiful appearance. AW 0.23 Kg/m. (348 gr). ***42-027-3***

Super Corsa Oro $11.90

The original black and gold undrilled plates. It outscored the Record Oro.* Works great with Regina, Dura Ace, and Winner freewheels and Campy chainrings. AW 386 gr. ***42-021-6***

Shimano Link Lock

One touch chain coupling without tools! Superior to anything else on the market. Works with every make of chain except Ultra 6, Sedisport. Free Freight in U.S.A.

42-033-1 **$3.90**

The New Generation Chains

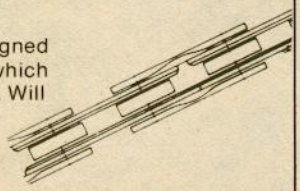
The following brands feature various radical new concepts introduced since 1978. We highly recommend them all for XLNT shifting, wear, smoothness, and quietness.

HKK — Sun Tour Trans Z $7.50

For use on all multiple freewheels including Sun Tour's standard Winner 6 speeds. Works especially good on Sun Tour cogs with "zig-zag" teeth. These are teeth which twist in alternating directions, commonly found on Perfect and Pro Compe models. Trans Z won't work at all on the Ultra 6 and 7 models. Silver & black finish. Flush pin, bevelled plates. AW 358 gr. ***42-009-1***

Sun Tour Ultra 6 (7) $9.90

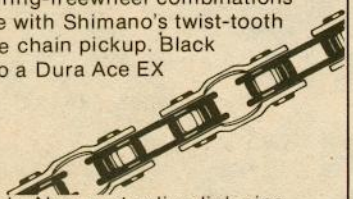
Same as above but extra-narrow width designed specially for new Ultra 6 and 7 freewheels which have closer cog spacing than other models. Will also work on standard freewheels. Silver & black finish. AW 338 gr. ***42-015-8***



Shimano Uniglide 600

"I gave the top score to Uniglide because (it) shifts well on both front and rear." *Works XLNT with all chainring-freewheel combinations except Ultra 6. Incredible performance with Shimano's twist-tooth cogs! Bulged outer link plates improve chain pickup. Black and gold finish, 116 links. There is also a Dura Ace EX version of this chain.

AW 375 gr. ***42-031-5*** **$9.80**



Sedisport (France)

Radically different from the other brands. Non-protruding link pins. The new link profile results in very low weight (12 oz) making it popular with racers. Floating inner link prevent stiff links and provides flexibility on short chain lines. Compact size fits 6 & 7-speeds well. The strongest chain tested*. However, not recommended for ultra wide ratio freewheels. 116 links, AW 331 gr. ***42-011-7*** **$8.50**



All About Bicycle Chains by Frank Berto, Bicycling Magazine October 1980.

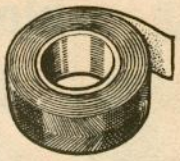
HANDLEBAR

Cloth handlebar tape

With so many brands now on the market from Taiwan, USA and other newcomers, it's reassuring to know that we stock only the very finest grade of thick cloth with chevron pattern and braided edges that won't unravel. Our tapes from Cat Eye of Japan or Tressostar of France feature clear glue that prevents that gooey white mess found in some brands. Remember: one handlebar requires 2 rolls. AW 1 oz/SW 2 oz.

Black	***21-030-2***
Dark blue	***21-046-8***
Red	***21-032-8***
White	***21-040-1***
Yellow	***21-042-7***
Green	***21-038-5***
Light blue	***21-034-4***
Gray	***21-036-9***

$1.00/roll



Grab-on handlebar padding — standard thickness

Popular new invention that eliminates nerve pain cause by road shock on long rides. Soft, durable, clean foam that lasts for years. Absorbs sweat and washes to like-new conditon. Dries instantly. Fits aluminum or steel bars. Standard kit consists of 4 pieces: 2 tops, 2 lowers. AW 6½oz/SW 9oz.

Black	***21-202-7***
Blue	***21-201-9***
Red	***21-203-5***

$9.90



Grab-on Comp II Ultra-thin padding

Same concept as above but only half the thickness for better styling. No weight advantage. AW 6½oz/SW 9 oz. Black only. 4 sections. End plugs included. **$7.50**

21-204-3

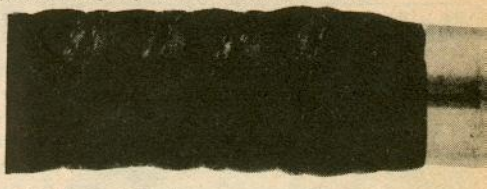
IMPORTANT INSTRUCTIONS: You'll need our rim glue solvent (#58-222-1, $3.50 SW 4 oz. page 30) or other adhesive solvent and **plenty of patience** ***to install these.***

Genuine leather handlebar tape

By Cyclegrip. Luxurious real leather set off by attractive accent stitch. Waterproof treated. Top rated by Bicycling Magazine. Installs easily like cloth tape. Special compressed edges give an overall smooth and clean feel. AW 5oz/SW 6oz.

Black	***21-096-3***
Saddle brown	***21-098-9***

$9.90



Rhode Gear Handlebar Hide

One piece thick real leather wrap like the Cinelli look. Installed wet, it shrinks to a very neat fit. AW 85gm/SW 5 oz.

Black	***21-091-4***
Natural color	***21-092-2***

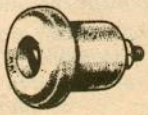
$12.90

Benotto pearlescent plastic tape

We don't know why but this stuff, which we threw out five years ago, is now the absolute rage among racers. (See Colnago pg. 6) Two rolls & plugs.

White	***21-051-8***
Light blue	***21-055-9***
Dark blue	***21-057-5***
Yellow	***21-053-4***

$3.00/set S.W. 3 oz.

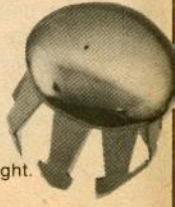


Handlebar plugs

S.W. 2 oz.

Black	***21-464-3***
White	***21-468-4***
Light blue	***21-466-8***

$1.50/pr.



Cinelli type chrome plugs

Looks great with any tape. Chromed spring steel, very light weight. SW 2 oz.

21-058-3 **$1.00**/pr

GENERATORS & LIGHTS

SOUBITEZ



Soubitez 120 block dynamo

Experience has taught us that Soubitez makes the finest bicycle block generator equipment in the world! Slightly higher priced than various imitators, it will give longer, more reliable service and looks better too. The 120 weighs only 194gr (6.84 oz.) w/o bracket. Made of brightly chrome-plated metal, the extra-large (55mm) headlamp contains a single bulb and is multidirectional.
S.W. 1 lb.

48-031-9

$11.90

Soubitez featherweight #2 dynamo set



Weighs only 312 gr (11 oz.) Constructed of special light alloy throughout. Consists of:

- All brackets, wire, hardware
- Large-lens compact headlamp with 6 volt 2.4 watt bulb
- 8 pole, 6 volt, 3 watt chrome-plated generator
- Chrome 1½" diameter tail lamp with .6 watt bulb

S.W. 1 lb.
48-033-5

$12.90



Wonder bike headlight

Illuminating power equal to 3 conventional "D" batteries. Attaches to handlebar in seconds. Lightweight plastic construction... yet strong. Off bike use it as a flashlight. Special 4.5 volt battery included. AW 270gr/SW 10 oz.

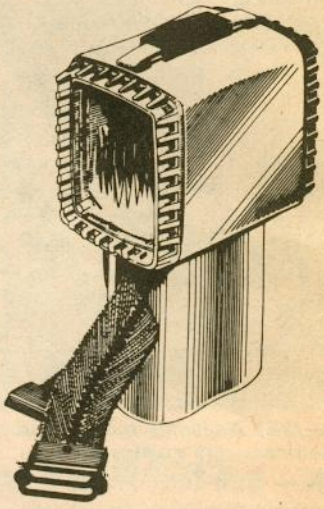
A44-06 **$5.90** *48-011-1*

Wonder tail light

Same as head light but with red lens and seat post clamp.
SW 10 oz.

$5.90 *48-013-7*

Matex flashing arm lite



Similar to Belt Beacon (below). Clear front lens, red rear lens. 2 lighting modes: constant which is very bright and useful; and flashing. Has 2 different bulbs. Requires 2 "C" cells, not included. A vast improvement over traditional leg lites. Japan quality. AW 1 oz w/o batteries.

$6.90 S.W. 6 oz. *48-015-2*

Belt Beacon



SAFETY FIRST

This is the indispensable bike accessory. Aside from a helmet, it is the most important safety device a cyclist can own. The reason is simple: the flash is the same type used on highway barricades... it can be SEEN by motorists. Sixty intensely bright electronic flashes per minute beam thru a large amber lens. The Beacon is regulated by an optimized solid-state oscillator, silicon transistors and a special high-powered lamp. This particular signal is unversally recognized as a CAUTION!

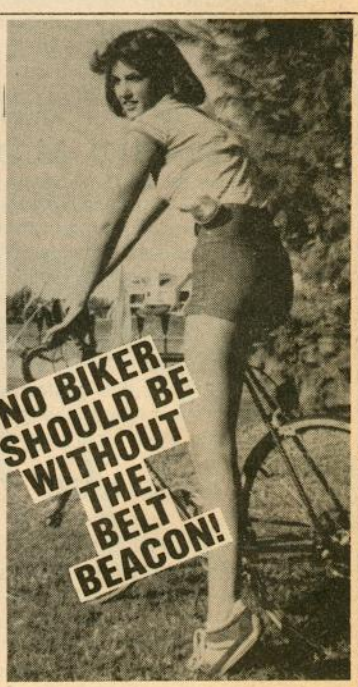
The unit is rugged, water-resistant plastic in Koolwhite. Powered by a readily available calculation type 9-volt battery (not included). A spare lamp which fits conveniently inside the body is included.

We have experimented with other models made by this manufacturer; we have no doubt that this deluxe M3B60 with 60 flashes per minute is the best for durability, reliability and long-range projection. It is, in short, a first-class safety instrument which no cyclist can do without. We have sold countless units through our catalog and in our 4 bike shops, with uniformly excellent reports.

A versatile clip attaches to clothing; unit can also be bolted directly to bike with hardware supplied. A.W. 3½ oz/S.W. 8 oz.

$10.95
48-051-7





SHOES & CLEATS

Shipping weight all shoes: 2 lb. 4 oz.

Shoe size conversion chart.

Amer.	6	6½	7	7½	8	8½	9	9½	10	10½	11	11½	12	12½	13
Euro.	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

DETTO PIETRO

Shipping weight all shoes: 2 lb. 4 oz.

The Detto Pietro Art. 74

The Art. 74 is excellent for racing and touring. The sole is durable nylon which really helps on wet rainy tours. The leather used in the uppers is the best quality Detto has to offer and is the same found in their shoes costing twice as much. Here are the other exciting features:

- Completely redesigned wider American lasts for much better comfort.
- New Pavarin nylon micro-adjusting cleat built right into the shoes and ready to use. Fits pedal and walks better than the aluminum cleat formerly used.

Sizes: 36 - 47 Ital; med width

Size	Cat #		
36	***03-901-6***	42	***03-907-3***
37	***03-902-4***	43	***03-908-1***
38	***03-903-2***	44	***03-909-9***
39	***03-904-0***	45	***03-910-7***
40	***03-905-7***	46	***03-911-5***
41	***03-906-5***	47	***03-912-3***

$39.00





03-997-4

Spare cleat

Free freight. **$4**

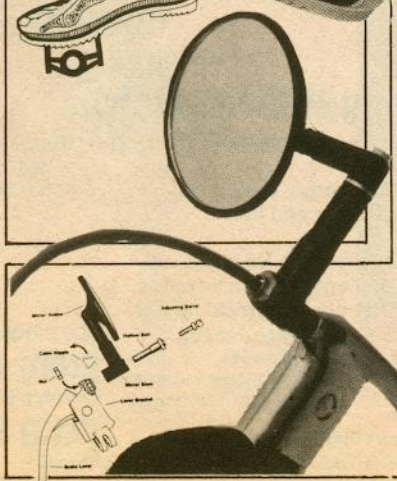
The Detto Pietro TD touring shoe

The upper is rich, beautiful top quality suede leather and the sole is by famous Vibram. Everything about this shoe is specially designed for cycling efficiency and walking comfort and it's surprising how well it accomplishes both. An internal stiffener protects the foot from the pedal and helps distribute weight over the largest possible area. The long wearing Vibram sole is grooved to mate with the pedal plates, holding the foot in position. The colors are contrasting dark blue with sky blue suede sides to protect against toe strap irritation. Sizing is unisex based on man's 6-11½ and width is C-D. Typical Italian quality!

Size	Cat #		
36	***03-920-6***	42	***03-926-3***
37	***03-921-4***	43	***03-927-1***
38	***03-922-2***	44	***03-928-9***
39	***03-923-0***	45	***03-929-7***
40	***03-924-8***	46	***03-930-5***
41	***03-925-5***	47	***03-931-3***

$35.00





The Sidi Competition shoe

The famous shoe seen on so many professional racers. The reason is simple. Its top quality leather and quality combine with an unusual titanium shank and adjustable cleat to make a great fitting, lightweight shoe. This one is sure to hold up even in the toughest competition. We stock the full leather upper version in sizes 36 through 47.

Size	Cat #		
36	***03-940-4***	42	***03-946-1***
37	***03-941-2***	43	***03-947-9***
38	***03-942-0***	44	***03-948-7***
39	***03-943-8***	45	***03-949-5***
40	***03-944-6***	46	***03-950-3***
41	***03-945-3***	47	***03-951-1***

$69.50



Mirrycycle

Best bike mirror on the market. We stock new improved version with optically ground 3" diameter mirror and more versatile mounting bolt. Made of hi strength laxan. Completely adjustable and fits right or left side. Mounts in brake lever body leaving handlebar free of obstruction. Easy 10 minute installation. All parts included but we recommend installing a fresh cable. Fits Weinmann-Dia Compe; Shimano; and their copies but not Mafac, Campy, and the pro types. BUT, you can send it to manufacturer with $3.00 for conversion to fit any brake you desire. Don't send us the money. AW 50 gm/SW 2 oz.

48-301-6

$8.50

Bata Biker

Popular budget priced walkable cycling shoe. Shank is plastic type material hidden in sole. Upper is breathable black canvas with ventilating holes throughout. Sides are rubberized to prevent wear. It's machine washable and has 3M reflective tape and a heel patch for visibility. a heel has been added this year to make the shoe walk in a more "normal" manner but it still has a funny look and feel. Sizing is wide and roomy. Good for about one season of cycling. Sizing is for men so women should order the man's size less two. Example: a woman's 8 is a man's 6.

size	cat #
3	***03-875-2***
4	***03-877-8***
5	***03-879-4***
6	***03-881-0***
7	***03-883-6***
8	***03-885-1***
10	***03-889-3***
11	***03-891-9***
12	***03-893-5***
13	***03-895-0***

$17.90



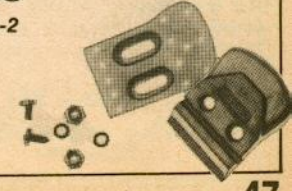
Pavarin adjustable cleat

Base nailed to shoe. Pedal plate bolts to base plate and is adjustable within ¾". Very secure, good design. Slanted slot for excellent pedal grip. Italy.

Aluminum SW 3 oz.

$5.95

03-998-2



GIFT ITEMS

VICTORINOX
SWISS ARMY KNIVES

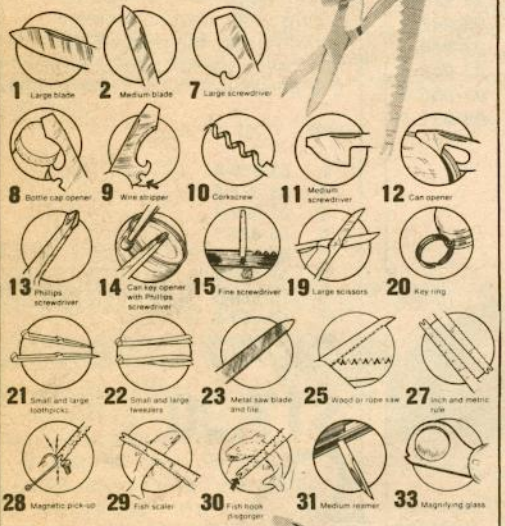
Often copied but never quite duplicated, our knives are genuine Victorinox made in Switzerland, all handles are acid-resistant and waterproof Elsinid plastic. After several years of stocking more, we have found the models shown to be the most desired by our cycling customers.

The Champion *08-221-4*

The ultimate personal tool and the most complete precision knife ever made, this device should be issued to every human being at birth. Also a perfect gift item! 3½" length
AW 5½ oz/SW 7 oz.
Contains all these:

$39.90

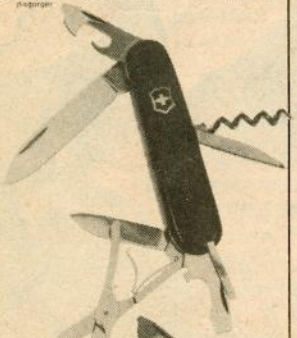




The Traveler

Contains all the basic ingredients found useful by experienced world travellers. 3⅛" length
AW 4 oz/SW 5 oz.
Features: (Shown above) 1, 2, 7, 8, 9, 10, 11, 12, 19, 21, 22, 31

08-223-0 **$19.90**



The Spartan

Similar to Traveller, but without scissors. 3½" length
AW 2½ oz/SW 4 oz.
Features: (Shown above) 1, 2, 7, 8, 9, 10, 11, 12, 20, 31

08-224-8 **$14.90**



Deluxe leather belt pouch with sharpener

Excellent quality leather in Dark and Light Brown finish. A neat side scabbard houses a famous German F. Dick 3½". Sharpening steel. 2 sizes.

Large SW 2 oz. ***08-261-0*** **$11.00**

Champion SW 2 oz. ***08-263-6*** **$11.00**



NIKO BICYCLES

Niko Elite

Racing design & lightweight. All the essential features make it a real bargain.

- Tange Chromolly 3 tubes, hi-tensile forks & stays. Sun Tour forged dropouts.
- Sun Tour Cyclone GT rear, SL front, ratchet levers. 14-28 Pro Compe freewheel.
- SR Apex 40/52T crank.
- Laprade seat post.
- Sun Tour VX QR hubs.
- SR Silstar pedals.
- Compe G side pull brake.
- 25 - 630 100-psi tires, Araya 20A rims.

Sizes: 21,23,35.
Pearl yellow, burgundy.
FOB Los Angeles

$375.00

	yellow	burgundy
21	***72-305-6***	***72-187-8***
23	***72-308-0***	***72-189-4***
25	***72-311-4***	***72-191-0***

Niko Professional

Why pay twice as much for Campy and European names when you can have as much quality and performance here? Short wheelbase, racing design only 22 lbs. with clinchers!

- Tange #1 Chromolly dbl. btd, Cro-mo fork with special cast crown, 45mm rake, Sun Tour forged adjustable dropouts, bottle bosses, wrapover seat stays, 1mm thick lugs.
- Sun Tour Cyclone gears & Winner 13-24 freewheel.
- Sugino Mighty Custom 42/52T crank.
- Gran Compe side pull brake.
- Sanshin Pro Am hubs, stainless steel spokes, Araya 20A rims.
- Laprade seat post, Kashimax seat.
- MKS Royal pedals & clips.
- 25mm 100-psi tires, size 700C.
- SR Royal ESL stem & bar.

Sizes: 21½ - 25½.
Yellow, blue.
FOB Los Angeles.

$629.00

	yellow	blue
21½	***72-159-7***	***72-158-9***
22½	***72-162-1***	***72-161-3***
23½	***72-165-4***	***72-164-7***
24½	***72-168-8***	***72-167-0***
25½	***72-172-0***	***72-170-4***

Niko G T 12

All-around sport bike, only 25½ lbs. Same unusual paint & pin striping as the more expensive models. A lot more features than other brands in this price range.

- Tange Champion #5 plain 0.9mm gauge chromolly with Hi-tensile forks & stays. Forged dropouts.
- Sun VX-GT gearing & BARCONTROL levers. Pro Compe Ultra-6 gold cluster 14-16-19-23-27-30
- Sugino Aluminum 40/52T. MKS Quil 1 alum racing pedals.
- Araya 22mm aluminum rims, 25mm 100-psi tires.
- Dia Compe new 500Q side pull with QR & drilled levers.
- Sanshin S.F. QR hubs, aluminum seat post, SR aluminum engraved bars & Apex stem.

Sizes: 19,21,23,25.
Black, burgundy, silver.
FOB Los Angeles

$329.00

	black	burgundy	silver
19	***72-193-6***	***72-194-4***	***72-195-1***
21	***72-196-9***	***72-197-7***	***72-198-5***
23	***72-199-3***	***72-200-9***	***72-201-7***
25	***72-202-5***	***72-203-3***	***72-204-1***

Niko ordering information

1. Select a 2nd color in case your first choice is out.
2. Bikes sold in original factory carton. Assembly requires 1 hour and basic general tools.
3. Prices do not include freight. No bikes are shipped without payment in full in advance. Freight is "collect" by driver. Typical freight charges:

So. Calif.	$15	Pac NY	$25
Rockies	$25	N. Eng.	$35
S. East	$35	N.Y.	$30

4. Specifications are subject to change without notice. We will contact you before shipping a bike with downward specifications. Weights listed vary according to frame size.

To check our inventory and order, call
(800) 421-7153
Outside Calif.
(213) 306-4731
In Calif.



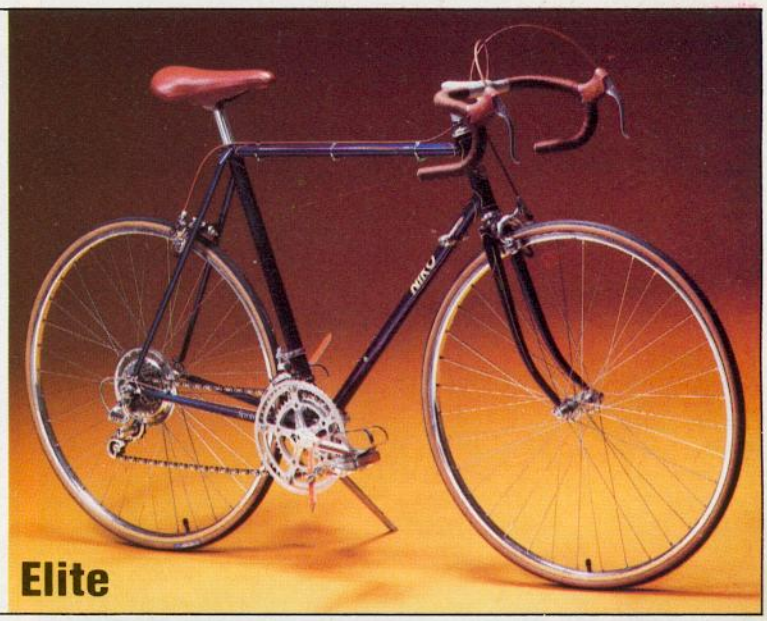
Sun Tour Cyclone GT derailleurs. New Pro Compe 14-26 freewheel with Trans-Z chain. Forged, chromed dropouts.

Tange's Colnago-style forks with chromed crown, 45mm rake. Extra-thin 1mm lugs. Compe G-500 brake. Araya 19.7mm extra-27" aluminum tubular-type rim. IRC Roadlite Z 25mm skinwall 90 psi tire.





Fluted seat stays, new SR Laprade seat post, beautiful 1mm lug. Integral seat binder bolt device.



Elite

Gran Compe new-style side pull brakes. Cyclone downtube levers. The 700C sized wheels permit easy conversion to sew-ups for racing. Araya 19.7mm rims, IRC Roadlite Z 270 gram, 90 psi skinwalls. Close clearance does not permit use of fenders.

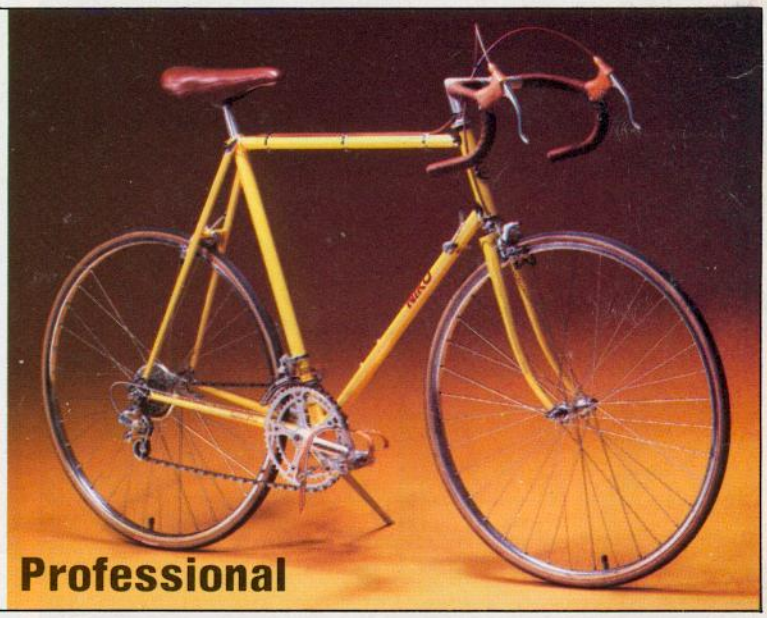


Custom designed new 1mm thick lugs with full wrapover stays with chrome only on the top of the wrap. Tasteful binder bolt device with chromolly bolt. SR Laprade seat post and Kashimax racing seat.





Sunshine Pro Am 36H hubs. Tight 45mm hubs. fork rake and minimal clearance chain stays give instant response. Colnago-style fork.



Professional

All new, custom long point seat lug with brazed-on binder bolt tube and concave seat tube opening. Seat stays feature Colnago-type fluted concave end with flawless brazing. Aluminum seat post holds color coordinated racing seat.

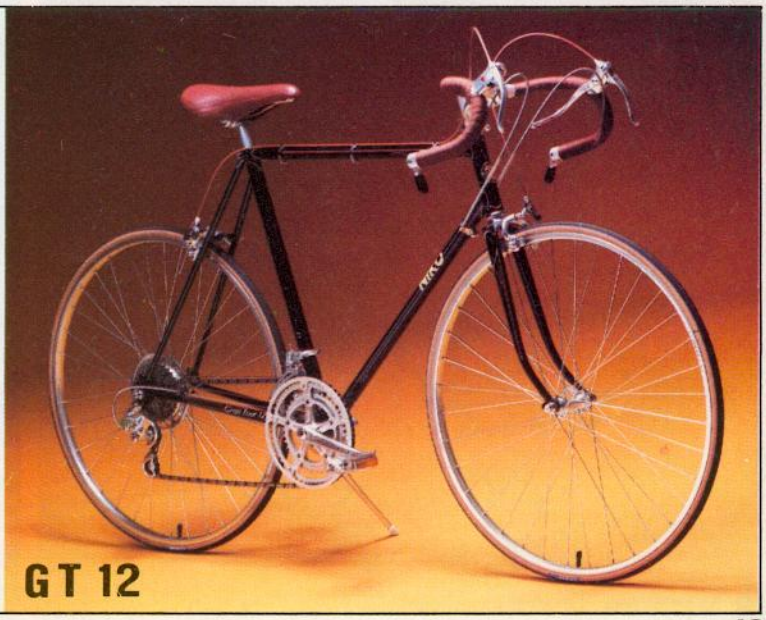




Also custom made are these graceful head lugs. Tange's new Colnago style fork with 2 point bending and 50mm rake provide very quick steering response. New Dia Compe side pull caliper mounted with QR.



Hottest derailleur system. Sun Tour Ultra 6 (14-17-20-24-28-32T) consumes same space as 5-speed resulting in no chain line problems typical with other 6-speeds. Sun Tour VX-GT derailleur. Genuine forged dropouts and fork tips with eyelets are rare on bikes of this price.



GT 12

Niko

Mystere

Anyone shopping for a mid-priced sport bike will immediately recognize that this is one of the best values in America. You'll find features found only on bikes costing up to $100 more on this fine example of Japan quality. Compare the specs and price to Nishiki Olympic, Schwinn Le Tour, or Fuji Royale and see what we mean!

Frame and fork

3 main tubes of Tange Hi-tensile butted 1.2mm/0.9mm. Brazed-on cable hanger, forged seat stay tips, hi-tensile lugs. 1035mm wheelbase; 72 degree angles.

Fork:
Tange hi-tensile steel with 2 point bend radius fork with 50mm rake, forged tips. ***Weight of 21 Inch Bike: only 28 lbs!***

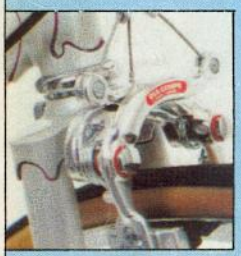
Colors & Finish
Fit and finish is of the same quality as the other Niko models. Painting is 4 stage pearlescent with hand painted pinstriping in two contrasting colors. Decals, seat cover, cable housing, and handlebar tape are all color coordinated with frame colors.

Men's sizes 19 – 25 Unisex (Mixte) 19 – 23

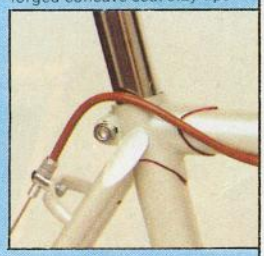
Blue Burgundy Silver Rose

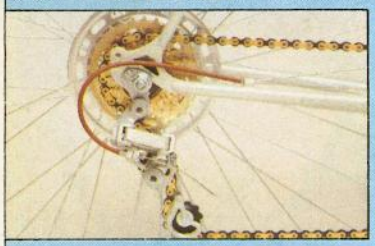
$289 FOB Los Angeles

Special Colnago-type head lugs and fork crown. Dia Compe forged center pull brakes with safety levers and quick release.

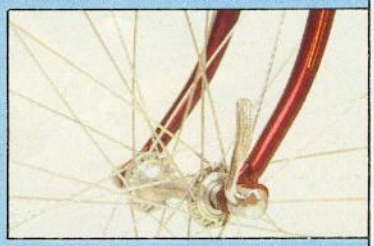


Special Niko designed seat lug with chromolly allen key binder bolt. Brazed- on rear brake cable hanger for positive adjustment cable action. Special forged concave seat stay tips.

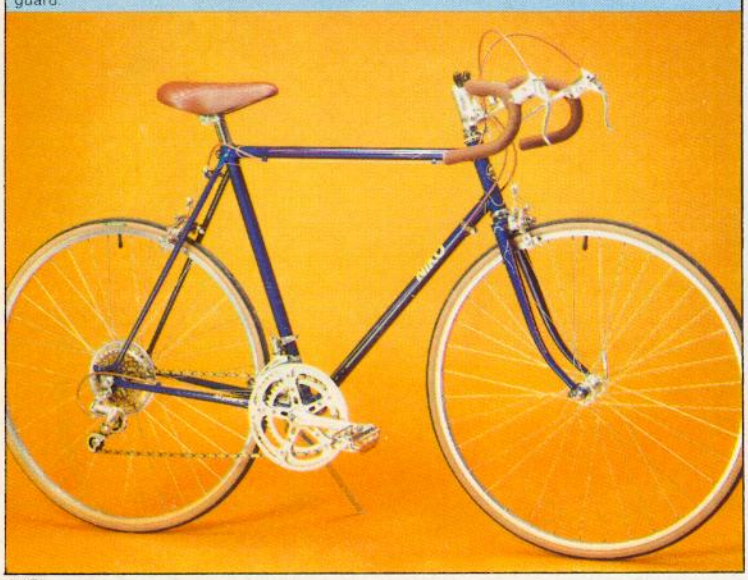




Sun Tour VX wide ratio with Pro Compe 14-30 6-speed freewheel with better shifting "zig-zag" teeth, and Trans-Z chain in black and gold. Rear aluminum hub is nutted. Aluminum spoke guard.



Small flange QR hub with Araya aluminum rims and 28mm 90 psi tires. Even forged fork tips!



SuperTour IS

The ultimate touring machine

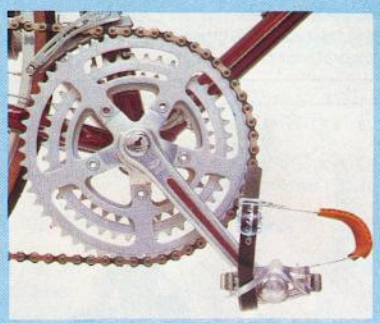
Every desirable feature. No better performer available. Only 24 lbs.

- Tange Cromolly #2 dbl. btd. Cro-mo fork w/ special cast crown, Sun Tour vertical dropouts w/ dbl. eyes, bottle bosses, brake bosses, wrap-over seat stays, 1 mm thick lugs.
- 4-stage pearl-metallic paint, hand pin striping, liberal chrome.
- Sun Tour Cyclone gears & barcons, 14-30 freewheel.
- SR Apex crank 34/42/52.
- Compe G centerpulls attached to bosses.
- Sanshim Pro Am hubs, stainless steel 14g spokes.
- Long wheelbase, approx. 72° parallel, fender clearance.
- Laprade seat post
- MKS Royal forged alum. pedals, clips & straps.
- 27 x 1¼ gumwall 90-psi tires.

Sizes: 21½ - 24½ all.
Burgundy, silver

$589.00 FOB Los Angeles

New SR Super Apex triple crankset 34/42/52T. 170mm with low gear capacity of 28T is the ultimate touring set. Brazed-on bottle bosses. MKS Unique Royal Road professional pedals with clips and straps.



Elegant full wrapover stays. Centerpull cable bridge and special tube containing seat lug bolt of chromolly. SR's new Laprade seat post with Kashimax seat.

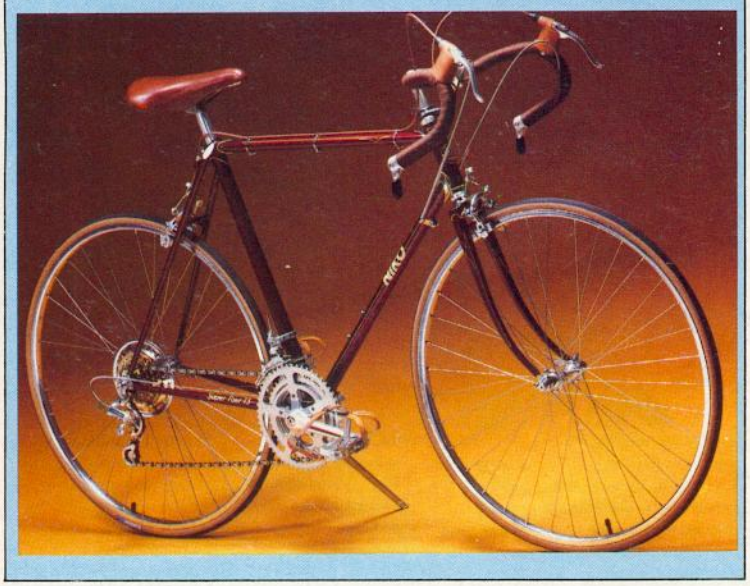


Dia Compe 610 G professional centerpull brake set with hooded levers, QR and double microadjusting devices. Calipers mount directly to frame resulting in greater rigidity and braking response than normal center-pull. The crown hole is threaded for mudguard mounting screw (same on rear). Araya 27 x 1" tubular type 19.7mm wide rim with IRC Roadlight Z 90 psi, 270 gram skinwall tires. Sun Tour handlebar-end shift controls. Tange Falcon headset.





Sunshine Pro Am 36H AR hubs. Double eyelet fork tips. 14 gauge stainless steel spokes.



JACK TAYLOR TANDEM



GUARANTEED BUILT WITH REYNOLDS® BUTTED TUBES FORKS & STAYS
manufactured by REYNOLDS TUBE CO LTD Birmingham England

The Taylor Brothers of England are the world's most respected tandem builders. We are proud to be their exclusive agent for the USA. They produce a small number of framesets completely alone using a special Reynolds 531 tubing licensed only to them. This is one of the few bicycles made which has actually increased in value in recent years.

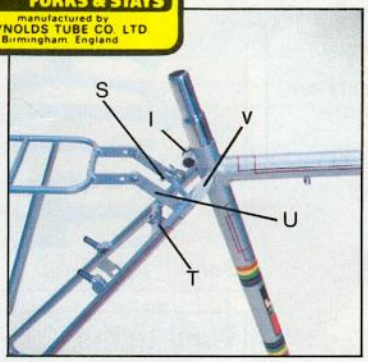
Allow 2-3 months delivery for the model & color of your choice. Call our WATS line for information.

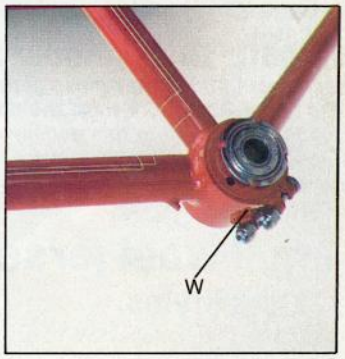
Frameset Price **$1300** fob L.A.
Incl: headset, rear stem, 2 seat posts, and all equipment listed in A-X below.

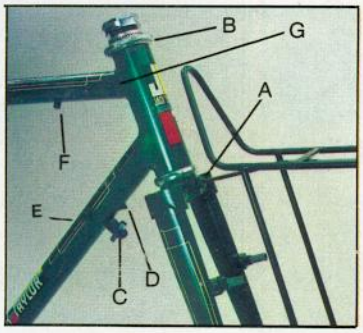
Taylor steel tubing racks, painted to match **$50** each.

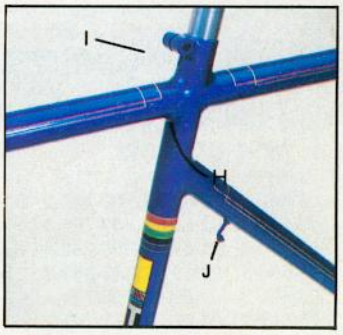
Standard equipment:

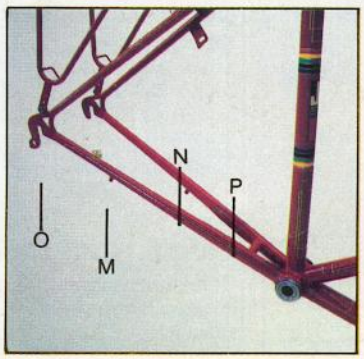
- **A** Exclusive Taylor forged crown for maximum stress.
- **B** Exclusive Taylor headset by Stronglight
- **C** Disc brake cable tension micro-adjuster
- **D** Headlamp wire outlet
- **E** Optional shift lever bosses or standard BARCON cable stops, your choice
- **F** Cable housing stop for rear rim brake
- **G** All tubes mitered and welded without a blemish
- **H** Rear rim brake cable guide
- **I** Seat tube bolts fit inside split tube housing
- **J** Pump peg for 18" Zefal
- **K** Bottle boss made the hard way . . . from hex bar.
- **L** Generator wire in and out
- **M** Derailleur cable stop mounted below stay
- **N** Cable stop to Phil disc
- **O** Campy vertical dropout with eye
- **P** Indented chain stays for clearance
- **R** Universal generator mounting plate
- **S** New improved housing stop bridge for cantilevers
- **T** Crossmember for backwards caliper brake
- **U** Bosses for blackburn rack
- **V** Hollow stays with plate cap... a rare fine detail
- **W** Includes Front TA BB assembly. No front derailleur cable guides permits changing from front to rear
- **X** Serial number stamped on fork and frames

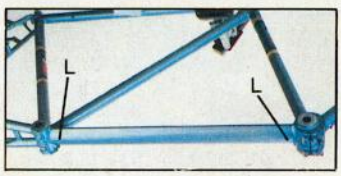


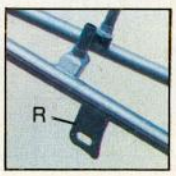


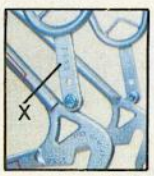












BIKECOLOGY CYCLE CLOTHING

BY SERGAL OF MILANO, ITALY

The best in the world... at affordable prices

Simply stated, cycle clothing produced by Sergal of Milano is the best in the world. This fact alone provides reassurance when ordering by mail for this is not an off-brand or a 'private label'. Sergal has been making cycling garments for more than 40 years and is favored tailor to many famous racers. Cyclists know that in the long run the best is also the most economical.

A word about the fabric...

The "wicking action" of wool which moves heat and sweat away from the body makes it the perfect material for athletic wear. It keeps the rider warm in cold weather yet never feels hot and clammy. Now in addition to our 100% wool styles, we've added styles in Sergal's 50% wool/50% acrylic blend at a substantial saving.

As for the colors...

Each year Sergal creates new styles exclusively for Bikecology. The multi-colored fabrics are actually knitted as one piece on Sergal's own tubular knitting machines. Our 1981 line reflects the most popular styles on the current European racing circuit.

Compare the value . . .

Please bear in mind that these garments are of the finest wool, from Italy, the country which is unmatched in this endeavor. Compare our prices for equivalent ski or sportswear sweaters and you'll realize what a bargain they are here.

Sergal wool jersey

Dazzling styles

Please Order Alternates

- 100% pure virgin wool
- Sensational new colors
- Three buttoned rear pockets
- Zippered collor

SW 12 oz.

- Itch-free; superb comfort in hot or cold weather
- All men's sizes

Sergal 100% wool Short Sleeve w/ 3 rear pockets — $39.90

Size	Style A	B	C	D
1	03-682-2	03-688-9	03-700-2	03-694-7
2	03-683-0	03-689-7	03-701-0	03-695-4
3	03-684-8	03-690-5	03-702-8	03-696-2
4	03-685-5	03-691-3	03-703-6	03-697-0
5	03-686-3	03-692-1	03-704-4	03-698-8
6	03-687-1	03-693-9	03-705-1	03-699-6

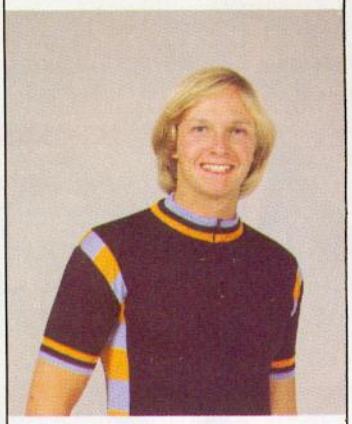
Sergal 50/50 short sleeve w/ 3 rear pockets — $29.90

Size	Style E	F
1	03-706-9	03-712-7
2	03-707-7	03-713-5
3	03-708-5	03-714-3
4	03-709-3	03-715-0
5	03-710-1	03-716-8
6	03-711-9	03-717-6

Sergal Shirt

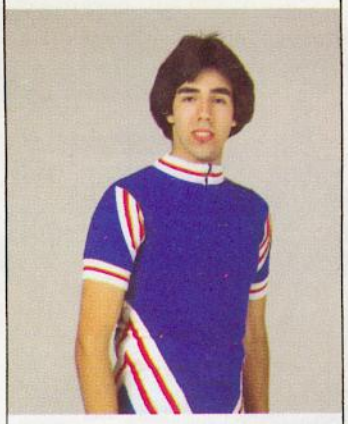
1	2	3	4	5	6	Italy
34	36	38	40	42	44	(inch)

A



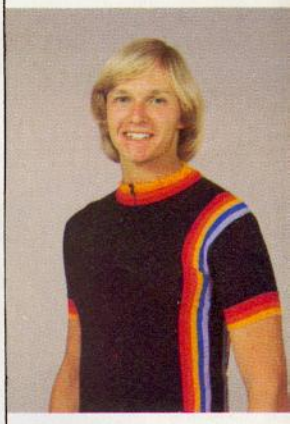
Sergal 100% wool

B



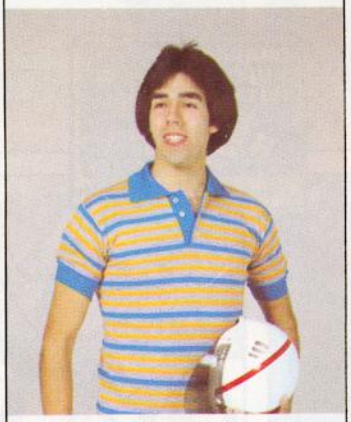
Sergal 100% wool

C



Sergal 100% wool

D



Sergal 100% wool

E



Sergal 50 wool/50 acrylic

F



Sergal 50 wool/50 acryli

Wool tights*

With extra fine chamois. Identical to shorts but, modified for cold weather, they are full-leg length and have snug-fitting cuffs. Black only. Shpg. Wt. 1 lb. — **$40.00**

1	03-361-3	4	03-364-7
2	03-362-1	5	03-365-4
3	03-363-9	6	03-366-2

*Won't fit men over 5' 9"

Sergal pants w/ chamois 100% wool road shorts

Excellent quality, featuring Sergal's premium grade extra fine chamois. Black SW 10 oz. — **$35.00**

Sizes	Cat. No.		
1 (28)	03-281-3	4 (34)	03-284-7
2 (30)	03-282-1	5 (36)	03-285-4
3 (32)	03-283-9	6 (38)	03-286-2

Sergal lycra shorts w/ chamois

Hottest sensation of European racing circuit in 1981. Lycra shorts enjoy about 50% of sales in Italy. The fabric is very stretchy, skin tight, and shiny for a very muscular, aerodynamic look. Lycra breathes extremely well but does not have heat retention quality like wool. Superlightweight. Black only. SW 6 oz. — **$30.00**

1	03-291-2	4	03-294-6
2	03-292-0	5	03-295-3
3	03-293-8	6	N/A

Sergal cotton shorts w/ chamois

Long-wearing Egyptian cotton knit which looks like wool, tested for durability. Easy care, cool even in warmest climates. One rear pocket. Black. Shpg. Wt. 10 oz. — **$25.00**

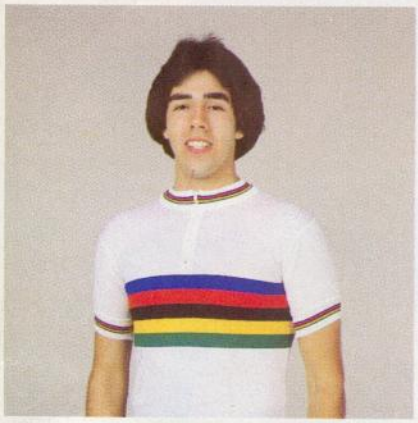
1	03-321-7	4	03-324-1
2	03-322-5	5	03-325-8
3	03-323-3	6	03-326-6

World Champion jersey

Outstanding quality made by Supergo in Hong Kong of 70% acrylic/30% wool yarn patterned after the yarn used by Sergal. Three rear pockets. Comfortable American fit. Short sleeve. SW 1 lb.

Small	***03-790-3***	Large	***03-792-9***
Medium	***03-791-1***	X-large	***03-793-7***

only **$19.90**

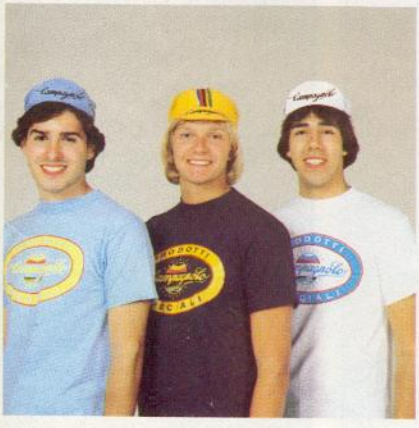


Bikecology Mail Order
12509 Beatrice St.
P.O. Box 66909
Los Angeles, CA 90066
Toll free outside Calif.
800-421-7153
In Calif.
213-306-4731

Campagnolo T-Shirts

Genuine edition licensed by Campy. 100% cotton. SW 12 oz. **$10**

	White	Lt. blue	Navy
S	***03-866-1***	***03-853-9***	***03-863-8***
M	***03-867-9***	***03-854-7***	***03-864-6***
Lg	***03-868-7***	***03-855-4***	***03-865-3***
XLg	***03-869-5***	***03-856-2***	***03-871-1***



Italian cotton cycling caps

We import a large variety of these colorful cotton caps directly from the same factory in Italy that supplies all of the great names in racing. We use their finest 100% cotton model. One universal size fits all.

Official team caps

We'll try to honor your specific request but please understand that ordering is required on "pot luck" basis . . . we reserve the right to substitute.

GIOS VS BOERKE	GITANE RENAULT
PEUGEOT ESSO	BIANCHI PIAGGIO
Gelati SANSON	SAPA Assicurazioni
Campagnolo	OLMO Magniflex
TI RALEIGH Creda	BROOKLYN

03-425-6 Specify name **$4.00**

Others **$4.00**

Colnago	***03-423-1***	Columbus	***03-426-4***
Cicli Cinelli	***03-426-4***	Bob Jackson	***03-424-9***
Clement	***03-426-4***	Giro d'Italia	***03-426-4***
Campagnolo	***03-422-3***	Tour de France	***03-426-4***

white, yellow, blue

Bikecology Bike Shops

We offer this at a loss as a way of thanking you for the advertising help it provides us. Pot luck in white, yellow, or black. Free shipping.

03-421-5 **$2.00**

Sergal wool caps

SW 4 oz.

Royal blue	***03-401-7***	**$15.00**
Burgundy	***03-402-5***	
Light gray	***03-403-3***	Available Sept '81



Cycle Pro glove

Best selling pro cycling glove in the U.S.A. for the last few years. Reason is simple: excellent quality for the low price. Handmade with hand crocheted cotton back and smooth, thick pigskin. Both palm and thumb are well padded. Extra bulk is designed into the outstretched position so that a perfect fit is achieved once the handlebar is grasped. Sizing is very roomy.

50-401-9	XS
50-404-3	S
50-411-8	M
50-414-2	L
50-421-7	XL

only **$12.00**

Glove sizing:

With the hand flat, measure hand around the knuckles. Do not include the thumb.

Hand Measurement	Glove Size
6-6½"	XS
7-7½"	S
8-8½"	M
9-9½"	L
10-10½"	XL

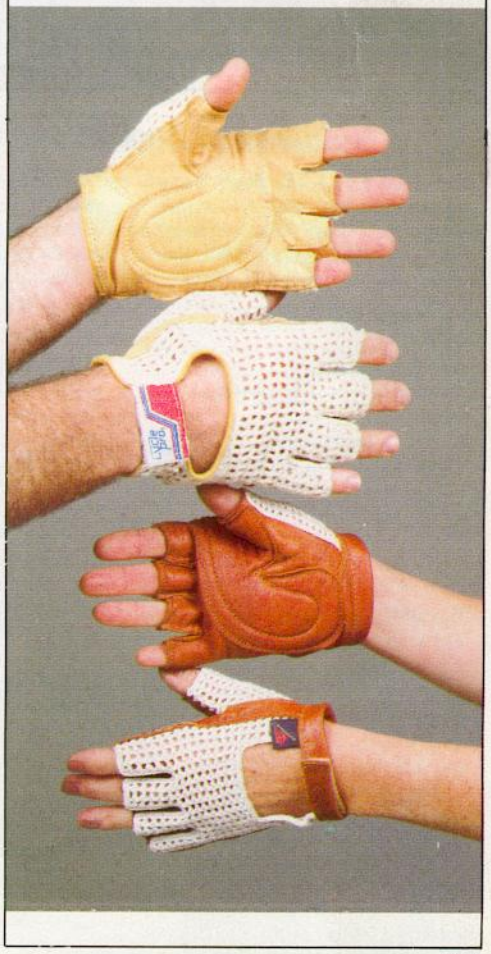


Canondale leather glove

Definitely the finest we've seen. Made from the best calf leather and crocheted cotton. Padding and other features satisfy every important consideration. Extremely good fit. U.S.A. SW 3 oz.

$15.90

Size	Cat. No.
5-5½	***50-600-6***
6-6½	***50-601-4***
7-7½	***50-602-2***
8-8½	***50-603-0***
9-9½	***50-604-8***
10-10½	***50-605-5***



BIKECOLOGY BIKE PACKS

CLASS II BIKE PACKS

Well-made, serviceable, reliable pack which forsakes the extra goodies in order to provide top quality at a fantastic price. Oxford nylon packcloth.

$8.50

BEST BUY!

$23.90

INTERNAL PACK FRAME

$54.90



Colors: Red, royal blue, safety yellow

Basic features of Class I and II packs

These packs are the finest quality and value product on the market today. According to a 1980 Bicycling Magazine survey, they are used by more cyclists than any other private label brand. Only Bikecology's large volume can permit factory direct buying and its resulting quality control and pass along savings. Check out all the important features and you'll see why we offer a money back guarantee . . . if you're not satisfied for any reason, return our packs unused within 10 days for a full refund.

Pannier attaching system

Top attachment:
Place C hooks over any rack frame

Bottom attachment:
Place coil spring loop over special dropout attachment or any other handy object in dropout area. Sounds simple, but it will not shake, shift, or fall off and that's what you need.

Handlebar pack attaching system

For the finest proven method of attachment, we use the popular Eclipse stem support brace, available in both racing and touring bar configurations (please specify). Structural rigidity and strength are increased by maintaining tension on all nylon fabric surfaces. We've improved the fine tuning of our lower pack suspension by adding a nylon strap and buckle to the shock cord. No more pack bouncing for small frames.

Hardware & materials

- Aluminum pannier-hanging C-hooks.
- Eclipse-type steel handlebar pack brace with non-marring coating. Choice of race or tour bar type.
- Nylon covered shock cord/strap system.
- Nylon insert aircraft lock nuts on pannier
- Hi-impact nylon-web strap buckles on seat pack.
- Expanded polyfoam shapers in handlebar, seat, and rack-top packs
- Chromed 'D' rings and snaps
- Removable map case: anti-crack, anti-fog, anti-leak



Pannier interior shell

Thread: Size 36/13 cotton-wrapped polyester with 8 stitches per inch, bar-tacked for reinforcement at all stress points.

Zippers: Nylon coil-self-healing, treated for water-resistance. All zipper ends are double-stitched; the entire zipper is protected by a generous rain flap that will not jam in the zipper. For easy opening, zipper tabs are oversized and fitted with nylon pull lacing.

Straps & webbing: All nylon, bar-tacked in position.

Pannier frame: Our most exceptional feature is a new one-piece super-light injection molded interior shell. The nylon pack slips over it fitting snugly like a slip cover on a mattress. Thus our panniers maintain their fully-loaded look even when only partially full. You need never worry about excess material being wind-flapped into the spokes.

Class I tire/tool

Indisputably the best such pack on the market. There are two separate zippered 6" tool compartments, one on each side of the long tire compartment. A velcro strap attaches to the seat lug to prevent annoying sway encountered with all other brands . Legs can't hit this bag! SW 3 oz.

Red ***51-005-7***
Blue ***51-006-5*** **$9.50**

Class II handlebar pack

Oxford pack cloth nylon with Cordura nylon side pockets and leather-trimmed support holder. New shock cord/strap combination lower suspension (not pictured). Top map pocket included. Both top and main compartment open facing rider. Double-pull zippers, extra D-rings, polyfoam interior shaper. Shoulder strap not included. 580 cu. in. capacity. AW 19½ oz/SW 2 lbs.

Red	***51-075-0***
Blue	***51-080-0***
Yellow	***51-085-9***

$23.90

BIKECOLOGY BIKE PACKS

CLASS I BIKE PACKS

Top-of-the-line, largest capacity of any brand with many extra features and Cordura nylon for those who demand the finest.



Class II rear panniers (2)

Same design and interior shaper as Class I but constructed of Oxford pack cloth. Only one lower side pocket and no front and rear pockets, yet still huge 1800 cu. in. capacity. Outstanding value at our low price. AW 25 oz/SW 3 lbs.

Red	*51-060-2*
Blue	*51-065-1*
Yellow	*51-070-1*

$54.90

Class II seat pack

Same fine quality even in a seat pack. Includes positive locking nylon cam-lok buckles used in Class I. 215 cu. in. capacity. AW 5 oz/SW 8 oz.

Red	*51-090-9*
Blue	*51-095-8*
Yellow	*51-100-6*

$8.50

Exclusive features of Class I

Everything included for the ultimate in quality, capacity, and styling. Specially dyed navy blue and bright red with tan details and genuine leather lash points. Eight ounce Cordura nylon exclusively. Priced far below premium models of other brands. Satisfaction guranteed!

Class I handlebar pack
Huge 700 cu. in. capacity!

Full width toploading zippered front compartment. Roomy lower rear pocket opens facing rider. Separate top compartment opens facing rider. Zipper and velcro. New improved strap/shock cord lower suspension system adjusts perfectly to any frame size. Shoulder strap included. AW 21 oz/SW 2 lbs.

Red	*51-025-5*
Blue	*51-020-6*

$37.90

Class I seat pack

Unusual shape and opening provide more capacity than any other brand 315 cu. in. Webbing reinforced exterior to protect against tire contract. Fastens to seat very securely via positive lock nylon buckles. Red reflector included. AW 7½ oz/SW 10 oz.

Red	*51-035-4*
Blue	*51-030-5*

$12.90

Class I rack topper

Convenient and useful with 390 cu. in. capacity. Poly liner holds shape. Fits 6 pack, purse, and other typical items. AW 7 oz/SW 10 oz.

Red	*51-045-3*
Blue	*51-040-4*

$12.90

Class I rear panniers (2)

Huge capacity (2440 cu. in.) rugged (35 lb. load) packs with three exterior zippered pockets with plenty of practical uses. Always look neat due to interior nylon shell. Snap together off-bike and carry with built-in handles. Low center of gravity and excellent foot clearance. Four leather lash points on top, reflectors. Too many valuable features to list! AW 38 oz/SW 4 lbs.

Red	*51-015-6*
Blue	*51-010-7*

$69.90/pr

Class I front panniers (2)

One full length side opening compartment and a middle opening lower half pocket. Leather lash points on top. Carry handles and joining snaps. Generous 1100 cu. in. capacity. Also fine for rear use. Features its own special interior nylon shell. AW 30 oz/SW 36 oz.

Red	*51-055-2*
Blue	*51-050-3*

$49.90/pr

Bikecology cycletouring shorts

Practical on the bike
. . . stylish off the bike

5 improvements for 1981!

1) New cargo pocket
2) New security pocket
3) New wallet pocket
4) New seat liner
5) New sewing

One of the most popular new cycling items ever introduced. Our shorts fit and look great, really improve your comfort, yet are priced well below the imitators. Only Bikecology shorts are made with comfortable, long wearing "Espa-PLUS® by Sportif" fabric woven in Japan. Its 62% polyester/33% cotton/5% spandex and fine weaving quality make it stretch in every direction while riding. Yet its remarkable memory returns it to stylish sportswear off the bike.

Inside the short is a soft, absorbant terry cloth seat liner of 95% cotton/5% nylon. We've made it larger and improved the sewing for 1981. No need to wear underwear with this luxurient, washable surface next to your skin. A nylon zipper plus drawstring permit a snug fit even in the drop position. You will never use wool shorts again after trying this outstanding product.

3 Stylish colors for 1981:

Steel (medium) blue, short
Navy blue, short only
Brown bag, short only
Men's shorts: 28-44 even
Women's shorts: 6-14 even

$23.95
FREE FREIGHT USA



3 new improved pockets!

Cargo pocket
Large cubic size.



Security pocket
Flat tube. Top folds over before buttoning. Can't lose coins.



Hip wallet pocket
Inside waist.



	Steel Blue	Navy Blue	Brown Bag
M28	03-012-2	03-014-8	03-016-3
M30	03-032-0	03-034-6	03-036-1
M32	03-052-8	03-054-4	03-056-9
M34	03-072-6	03-074-2	03-076-7
M36	03-092-4	03-094-0	03-096-5
M38	03-112-0	03-114-6	03-116-1
M40	03-132-8	03-134-4	03-136-9
M42	03-152-6	03-154-2	03-156-7
M44	03-172-4	03-174-0	03-176-5
L6	03-192-2	03-193-0	03-195-5
L8	03-202-9	03-203-7	03-205-2
L10	03-222-7	03-223-5	03-225-0
L12	03-242-5	03-243-3	03-245-8
L14	03-262-3	03-263-1	03-265-6

Annual Warehouse Clearance Sale
Sat. Sept. 12, 1981
10 am - 6 pm

12509 Beatrice St.
Los Angeles, Calif. 90066

Bikecology Anatomic Seats

State-of-the-art in comfort and price!

Our pliable nylon base is covered with an injection molded precision foam that puts anatomic cushions directly below each pelvic bone. Over the cushions we use only the finest glove quality Italian suede and smooth leather. There is black and brown.

Our racing model is patterned after the Cinelli Unicanitor . . . one of the world's most popular. Yet it's half the price.

We offer steel rails in all models plus aluminum in man's tourist and racing. Our seat is the only brand sold on a "satisfaction guaranteed" basis.

See page 8 for full details.

Steel rail models **$19.90**
Aluminum rail models **$24.90**



See pg. 10
HUGE DISCOUNTS
Close-out items

Bikecology

Bikecology, Inc.
Mail Order Division
12509 Beatrice St.
P.O. Box 66-909
Los Angeles, CA 90066 USA

Peel off label and affix to order form.

POSTMASTER: Address correction requested

TO:

Bulk Rate
U.S. Postage
PAID
Bikecology, Inc.