



Les quatre premiers du 56^e Tour de France :
Félicé Gimondi (4^e) ; Raymond Poulidor (3^e) ;
ddy Merckx (1^{er}) ; Roger Pingon (2^e).

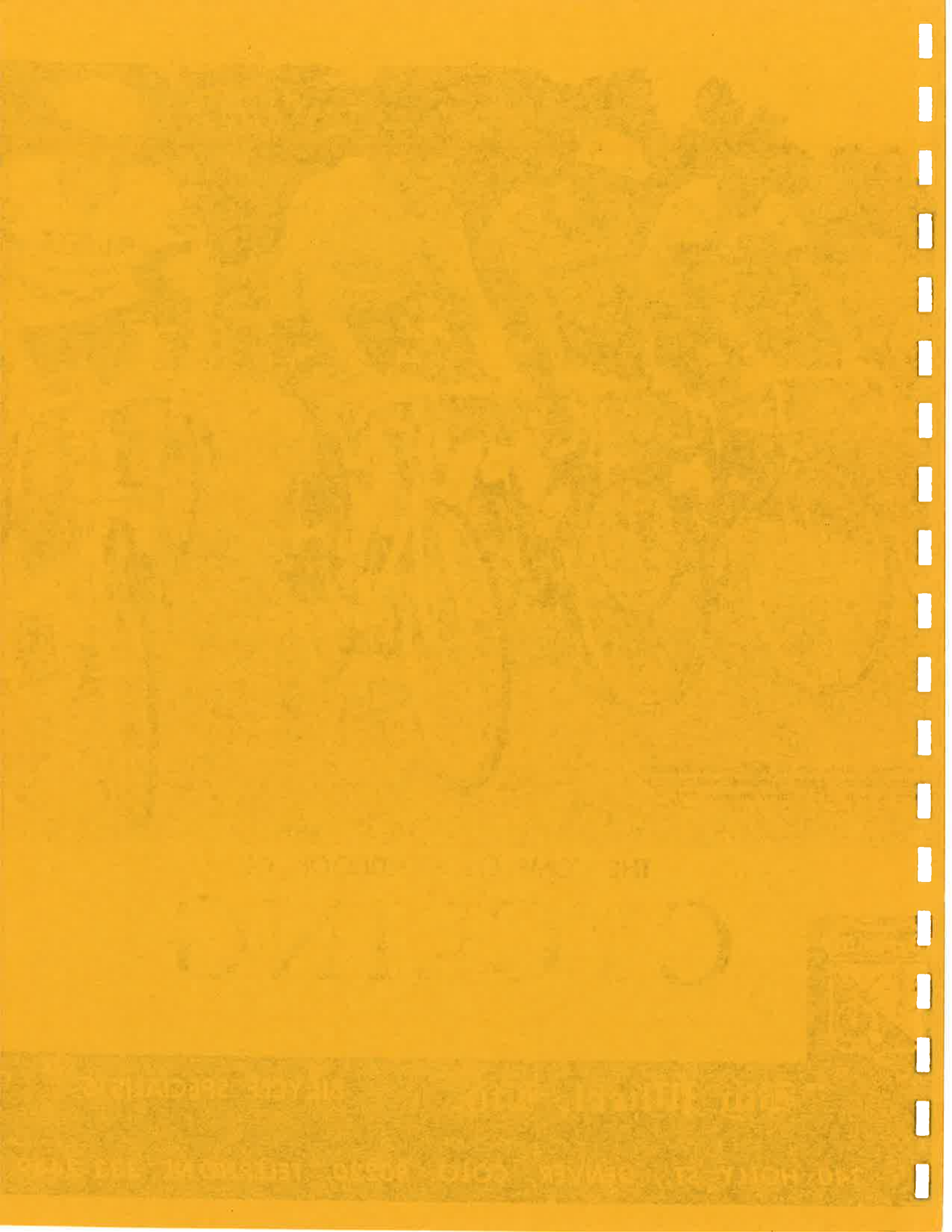
THE COMPLETE HANDBOOK OF
CYCLING



Big Wheel, Ltd.

BICYCLE SPECIALISTS

340 HOLLY ST., DENVER, COLO. 80220, TELEPHONE 333-2449



PRICES ON ALL BICYCLES AND
CAMPAGNOLA PARTS ARE CHANGED
APPROXIMATELY 8 TO 10%.



1971

Big Wheel, Ltd.

Bicycle Specialist

TELEPHONE
333-2449

SALES + SERVICE + RENTALS

310 HOLLY STREET
DENVER, COLORADO 80220

Fellow Cyclist:

We at Big Wheel Ltd. have compiled what we believe to be the most comprehensive cycling catalog available. In addition to listing the greatest possible varieties of bicycles, parts, components and clothing, we have made every effort to maintain the lowest possible prices.

With the rapidly increasing interest in geared touring and racing machines has come a rash of "bikes built to a price." We have analyzed some of these bicycles and they do in most cases represent good dollar value.

This catalog is designed for the true hobbyist and competitor, who takes pride in precision equipment. Famous names represented among the lines we feature are: Gitane, Raleigh, Legnano, Frejus, Mondia, Pogliaghi, Cinelli, Peugeot, Masi, Bianchi, Jacques Anquetil and Merceir and Libertas. These to our knowledge represent the finest bicycles available.

To avoid confusion please list part number, page number, description, size and price when ordering. All prices are F.O.B. Denver, as C.O.D. charges are high, we suggest you enclose full payment to cover cost and estimated shipping charges. On the inside back cover is a list of merchandise to zoned areas. Excess postage will be refunded to you by check or stamps. If you should desire C.O.D. shipment, a twenty five per cent deposit on the total is required. All prices are subject to change without notice. You will be advised if an increase has occurred or if a decrease has been announced. In some cases we may be temporarily out of the exact item you wish in which case we may substitute with a similar item of the same quality and price. Orders of less than two dollars cannot be processed.

We sincerely hope we may be of service in helping you enjoy this rapidly growing recreation and sport of cycling. We welcome you to visit us whenever you are in the Denver area.

Yours in cycling,

Chris van Gent
President
Big Wheel Ltd.

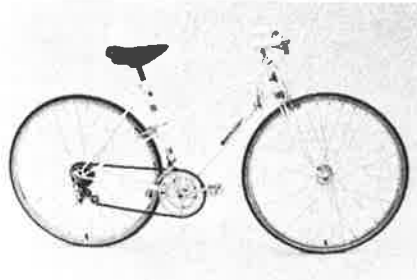


Peter Post (5)-Holland

**Rik Van Steenbergen -Belgium
Record Holders of the Six Day Bike Races**



510 GRAN SPORT LUXE
- 10 speed - Huret or Simplex Gears - MAFAC Brakes - 27 x 1 1/4 wheels - 36 X 52 chainwheels.
Sizes : 19" 21" 23 1/2" 24 1/2"
Colors: Candy Red, Aquamarine Blue, Candy Parisian Yellow.



520 LADIE'S GRAN SPORT LUXE
- 10 speed - Huret or Simplex Gears - MAFAC Brakes - 27 X 1 1/4 wheels - mountain gears
Sizes : 20 1/2" 22"
Colors: White, Saphire Blue, Candy Parisian Yellow.



530 HOSTELLER
- 15 speed - Huret or Simplex Gears - Gen. set - MAFAC Brakes - 27 X 1 1/4 wheels - 36 X 46 X 52 chainwheels.
Sizes : 21" 22" 23" 24" and 25"
colors: In Red, Black, Blue.



565 TANDM SPORT
- 10 speed - Men's-Ladies"Combination lightweight - 27 X 1 1/4 wheels - MAFAC Brakes - Fenders.
Sizes : 20/22", 21/23", 22/24"
Colors: In Red & Turquoise.



590 INTERCLUB
- 10 speed - Racing bike for beginners - Tubular wheels Huret or Simplex Gears - MAFAC brakes.
Sizes : 21" 22" 23" 24"
Colors: Aqua Blue & Dark Green.



600 TANDM EUROPA
- 10 speed - Men's-lightweight- 26 X 1 1/2 X 1 5/8 wheels - MAFAC brakes.
Sizes : 22" 23" 24"
Colors: In Red & Turquoise.



580 PROFESSIONAL SUPER CONSA
- Reynolds 531 butted - All Campagnolo Record Group - Nylon Seat.
Sizes : 21" 22" 23" 24" 25"
Colors: in Red & Aqua Blue



585 PROFESSIONAL TOUR DE FRANCE
- All 531 Reynolds tubing double butted - stronglight Super Competition cotterless crank set 52 X 44 - Lyotard pedals- huret derailleurs Prestige group, Huret fork ends - Mafac Racer brakes - Dural handlebars & stem - Mavic rims - Atom quick release HF hubs- Tubulars - Nylon saddle - Atom freewheel 14 to 26.
Sizes : 21" 22" 23" 24" 25"
Colors: White, Aquamarine blue (vert omnium), red.



570 PROFESSIONAL SUPER PISTA
- 531 Reynold Tubing - All Campagnolo - 1/2 pitch, Dunlop tubulars - nylon seat.
Sizes : 21", 22", 23", 24"
colors: in Red & Blue.

SINCE 1896

FREJUS

THE RECORD

Wreathes of honour and victories for 37 years throughout the world prove the superiority of the FREJUS bicycles

THE PRODUCT

Introducing from FREJUS the new and lasting dimension in hand crafted bicycles "TAPERED" Seamless Tubing. Developed over long experience for competition, specifically, and built now into every FREJUS track or road racer. All models are styled and designed for every age and activity.

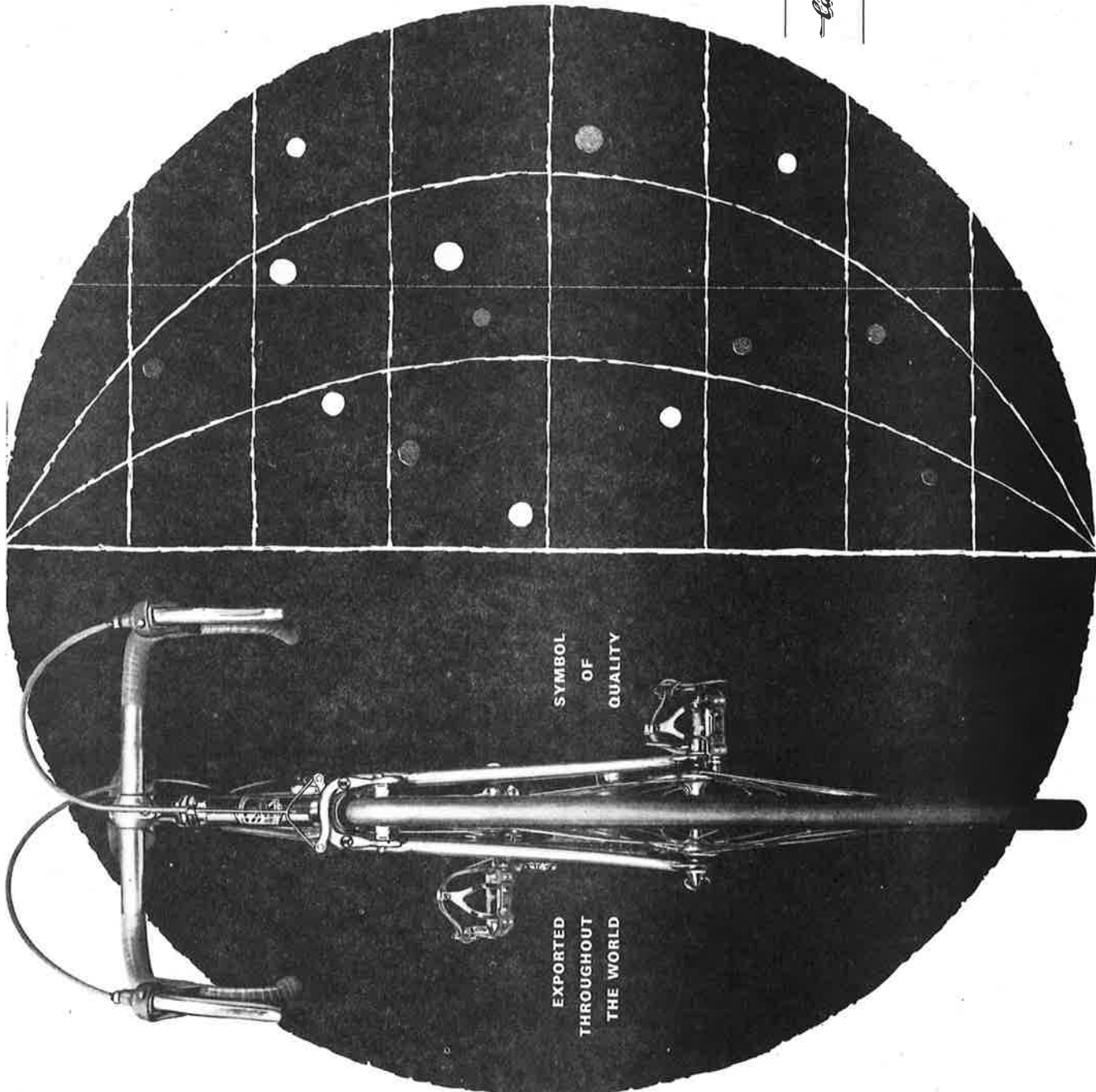
Europe's Finest workmanship and choice of prime component equipment.

THE GUARANTEE

Unconditionally guaranteed against defective workmanship and material to the original owner for as long as it shall be in his possession; whereby the cycle is maintained in reasonable conditions, the agent for the factory assures to every owner its finest efforts and fairest judgement in representing over 60 years experience of FREJUS precision production.



14 VICTORIES IN WORLD CHAMPIONSHIPS



EXPORTED
THROUGHOUT
THE WORLD

SYMBOL
OF
QUALITY



FREJUS finest deluxe equip-
ped road-racing and sports
bicycle with special chrome
detail and full CAMPAGNO-
LO RECORD Group Road
Equipment.

Model "PROFESSIONAL" ROAD Supercorsa World Champion (Extralight)

SPECIFICATIONS:
(Custom hand crafted by the Frejus-Race Department)

FRAME: Standard Sizes of 21', 22', 23', 24', and 25'.
Head and seat mast angle 73 degree parallel.
Columbus or Reynolds 531-All double-butted
tubing. Campagnolo rear fork ends.

FORK: Butted oval to round fork blades; Campagnolo
tips.

WHEELS: Bushed dural rims on Campagnolo High Flange
Hubs.

BRAKES: Universal Center-Pull: Campagnolo Brakes
optional.

CRANKSET HEADSET, DERAILLEURS, SEATPOST and PEDALS:
All in Campagnolo 'NUOVO RECORD GROUP'.

COLOR: Frejus Grey, Metallic Red, Blue and White.

ACCESSORIES: Silca Impero pump with Campagnolo
Tip, Toe Clips and Straps.



Europe's finest sport-touring
precision-built racer... offering
lightweight high performance
qualities and equipment with
improved design, superb styl-
ing, finer struts and balance
in all with racing speed and
ease of control.

Model "TOUR DE FRANCE" Special Massed Start Racer

SPECIFICATIONS:

FRAME: Standard Sizes of 21', 22', 23', 24',
High Quality seamless steel tapered tubing.

WHEELS: FIAMME light alloy clincher-type rims with
gumwall tires. Sew-up type wheels with
tubulars are optional at extra cost.

BRAKES: Universal side-pull. Center-Pull brakes
available at extra cost.

CRANKSET: Steel cranks with double chainwheel or
extra option in dural.

DERAILLEUR: Choice of Huret or Simplex equipment.

COLOR: Frejus Grey, Metallic Red, Blue and White.

,de Ron'-TRAINERS

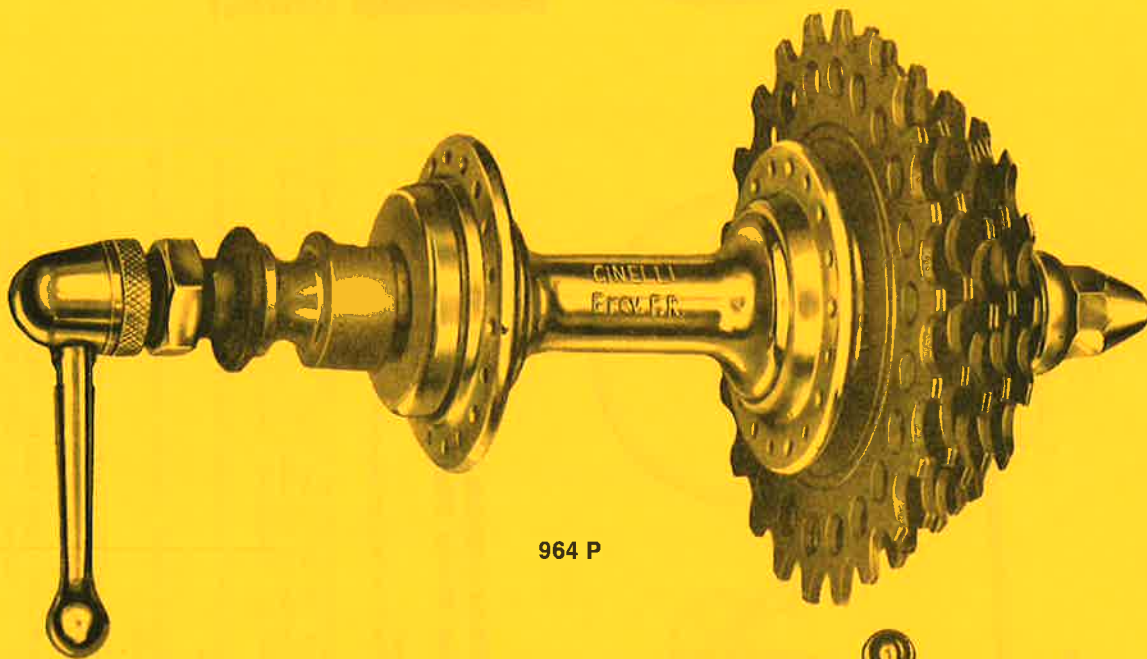
used by many racing cyclists



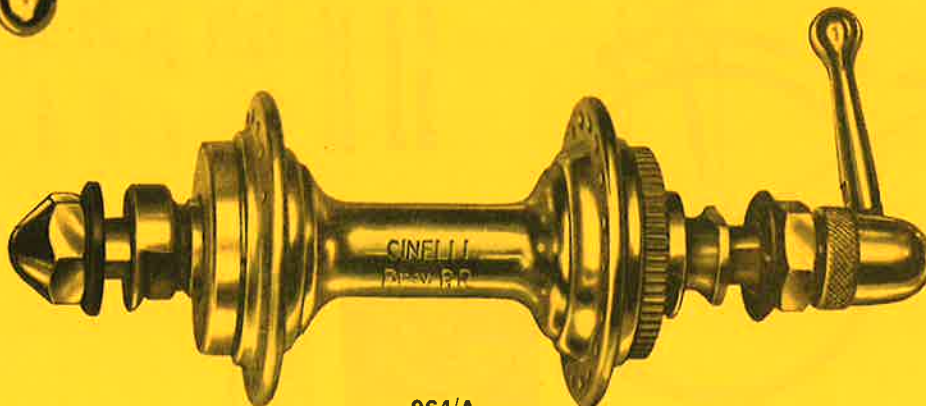
noiseless, light,
adjustable,
possible shoving in, beautiful work-
manship, easy picking up



5 Velox Tubular repair kit as
per picture



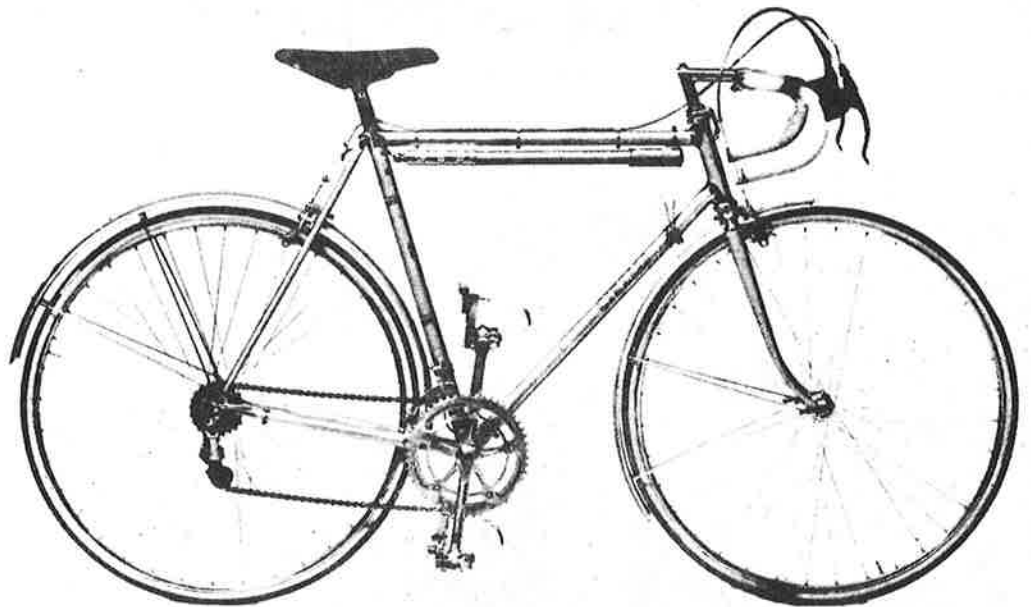
964 P



964/A



CINELLI



CINELLI ROAD RACING "SUPERCORSA"

SPECIFICATIONS:

FRAME: Reynolds 531 or Columbus tubing. Completely double-budded. CINELLI professional lugs. Campagnolo front and rear fork ends.

FINISH: Chrome plated head lugs, seat lug, fork crown.
Colors: CINELLI standard color silver with Olympic rings.

ASSEMBLY: The following parts CAMPAGNOLO: Front and rear Nuovo Record derailleurs.. Crankset with double chainwheels (specify teeth), cotterless bottom bracket, headset, pedals, seatpost 1044, pumpholder, pumpadapter and cable clips.

HANDLEBAR & STEM: CINELLI LIGHT ALLOY bars and CINELLI stem.

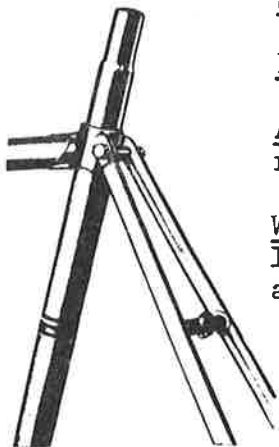
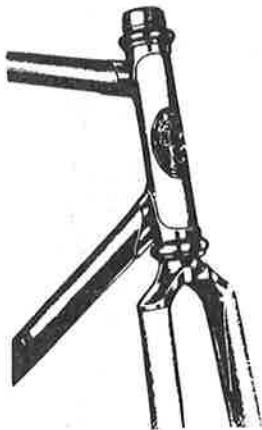
SADDLE: UNICA leather covered by CINELLI.

BRAKES: Universal Center-pull. Campagnolo brakes optional.

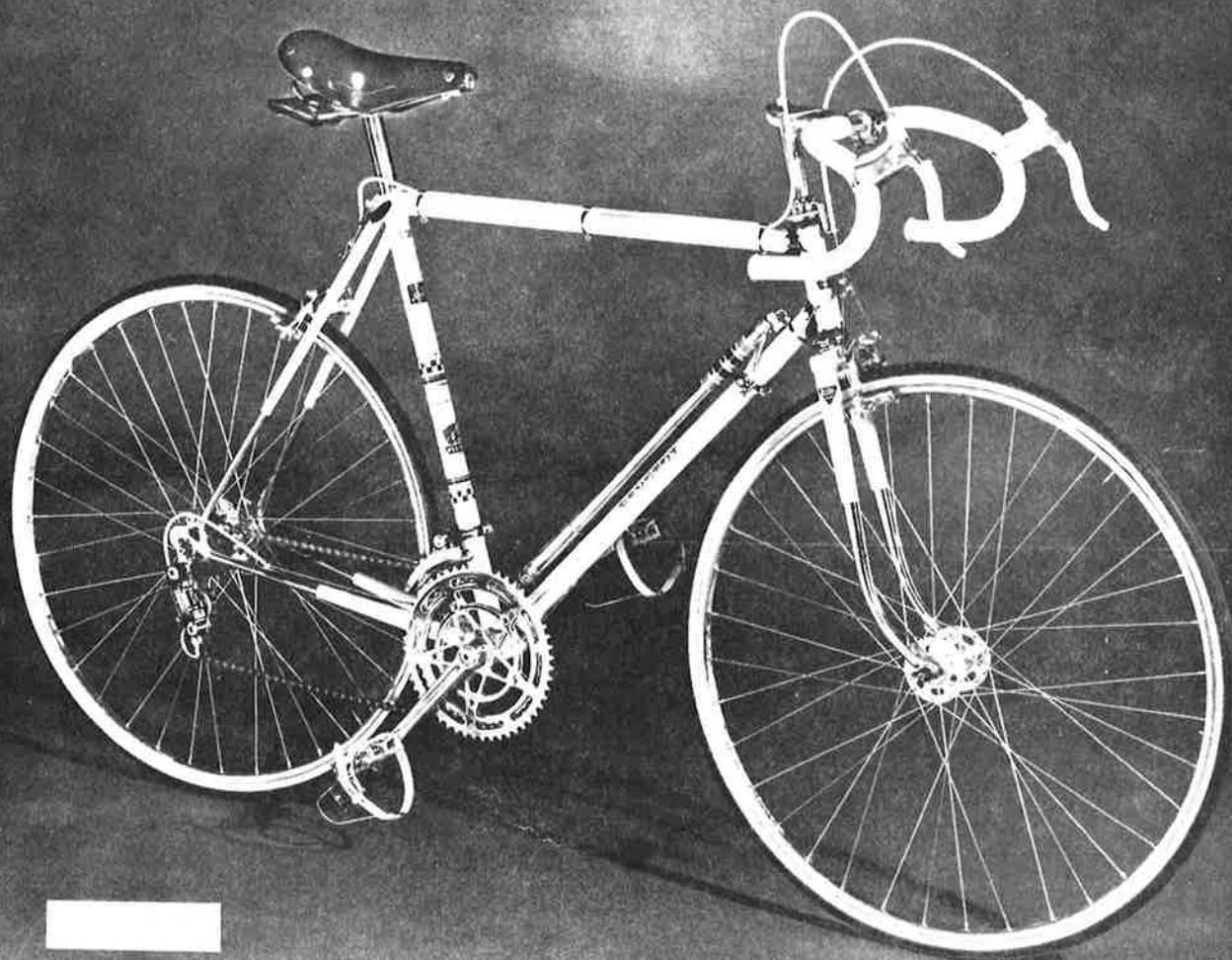
ACCESSORIES: Toe clips and straps, Silca Impero pump, 5 speed rear cluster (specify teeth).

WHEELS: CAMPAGNOLO RECORD quick release high flange (If requested low flange hubs are available) hubs, stainless double-budded spokes, alloy ferruled rims with tubular tires.

ALSO SUPPLIED TO SPECIFICATIONS OTHER THAN ABOVE.



PEUGEOT



Professional Competition Racer

Model: PEUGEOT PX 10, type E

Frame: REYNOLDS 531 double butted tubing throughout, including stays and fork. Chrome fork tips and crown, and rear stays. NERVEX professional lugs. SIMPLEX ends. Angles 72°.

Headset: STRONGLIGHT Competition.

Derailleur: SIMPLEX PRESTIGE 537 LUXE, outstanding gear of DuPont Delrin, with chromed hardware.

Freewheel: ATOM Competition, 14, 16, 19, 20, 23

Crankset: STRONGLIGHT No. 93 dural, cotterless, chainwheels 45 x 52.

Chain: SEDIS 1/2 x 3/32".

Rims: MAVIC MONTLHERY with reinforced spoke holes.

Tires: HUTCHINSON 9.3 ounce sew-up tubulars and JANTEX rim tape.

Hubs: NORMANDY LUXE COMPETITION alloy, with SIMPLEX quick release.

Brakes: MAFAC Racer center-pull, alloy. Racing levers with rubber hand pads.

Handlebar: AVA dural bar MAES pattern.

Stem: AVA wrap around dural extension.

Pedals: LYOTARD No. 45CA dural, with CHRISTOPHE toe clips and LAPIZE straps.

Saddle: BROOKS PROFESSIONAL saddle with copper rivets, and SIMPLEX seat post.

Pump: AD-HOC Dural with AFA express connector.

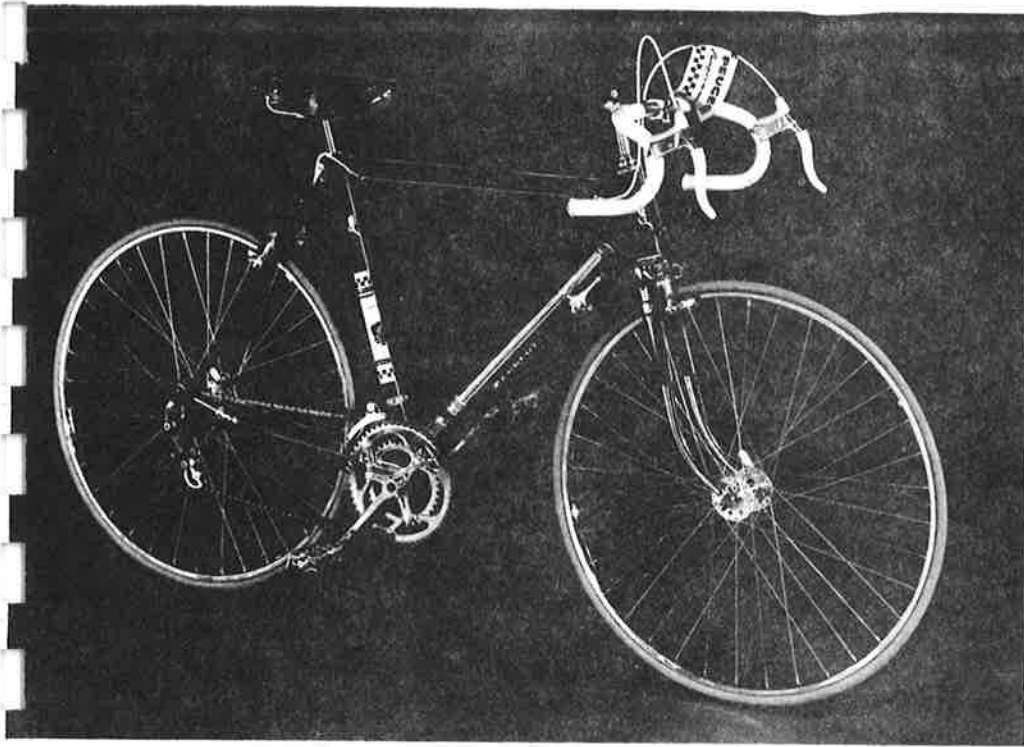
Tools: MAFAC toolbag and tools.

Weight: ±21 pounds, completely equipped.

Frame sizes: 21, 23, 24, or 25 inches.

54, 57, 60, or 64 centimeters.

Colors: Blue or White.



PEUGEOT

Trophee de France

UO-8

The deluxe touring ten-speed, this lightweight sport cycle features full range mountain gearing, the outstanding 'Prestige' derailleur, Peugeot special tubing, and frame in four sizes for custom fitting.

PEUGEOT UO-8 TROPHEE DE FRANCE

Frame: PEUGEOT seamless lightweight tubing, special lugs, chrome fork tips and head.

Derailleurs: SIMPLEX PRESTIGE 537, wide range, smooth shifting, maintenance free gear of DuPont Delrin.

Chainwheel: 10 speed 36 x 52 teeth Mountain gear. 15 speed, optional, 36 x 46 x 52.

Cranks: NERVAR durax 3 pin fitting.

Freewheel: ATOM 14, 16, 19, 22, 26.

Brakes: MAFAC Racer center-pull alloy with covered levers.

Wheels: NORMANDY dural high flange hubs with SIMPLEX quick release axles. RIGIDA rims 36 x 36 with butted rustless spokes.

TIRES: HUTCHINSON 27 x 1¼ gum walls, butyl tubes with Schraeder valves.

Pedals: LYOTARD No. 36 rattrap.

Handlebar: AVA alloy stem and MAES pattern bar, white tape covered.

Saddle: Black butt leather racing type with long chrome post.

Pump: Dural racing pump.

Tools: MAFAC toolbag and tools.

Weight: ± 27 pounds, complete.

Frame sizes: 21, 23, 24, and 25 inches.

Colors: Five coat flamboyant colors—Blue, White, Red, Burgundy, Emerald Green.

Caravan

UE-8

The equipped, deluxe 10 speed touring model. The Caravan follows the same specifications as the UO-8 but with these touring features added:

Full chrome fenders, sturdy rear carrier with rat trap, Soubitez generator, front and rear lighting, reflector, chain guard.

Front chainset is 40 x 50 teeth, handlebars are taped in black.

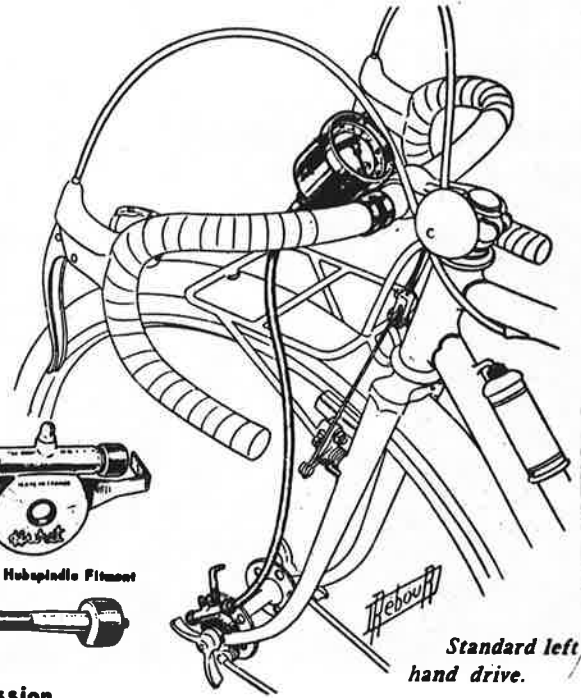
Frame sizes: 21, 23, and 24 inches.

Colors: White or Black.





Speedometers



Driver for Hubspindle Fitment



Flexible Transmission

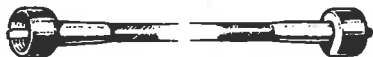
Standard left hand drive.

The All New Huret Speedometer Has An Oval Head And Is Calibrated To 60MPH. Individually boxed in an Attractive Display Box.

New Part No.	Description
AS-460	26" Wheel, 60 mph, Enamel Head.....
AS-460/24	24" Wheel, 60 mph, Enamel Head.....
AS-460/27	27" Wheel, 60 mph, Enamel Head.....
AS-461	26" Wheel, 60 mph, Chrome Head.....
AS-461/24	24" Wheel, 60 mph, Chrome Head.....
AS-461/27	27" Wheel, 60 mph, Chrome Head.....



Driver for Hubspindle Fitment



Flexible Transmission

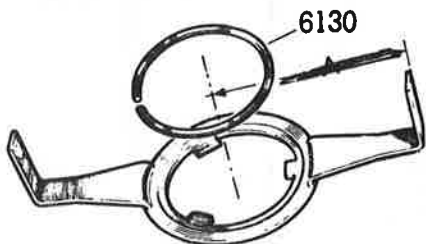
New Part No.	Description
SPEEDOMETER PARTS	
AS-401	26" Speedometer Driver
AS-402	Speedometer Head, Enamel
AS-402C	Speedometer Head, Chrome
AS-403W	Transmission Comp. 26 or 27" Wheel
AS-403W/20	Transmission Comp. 20" Wheel
AS-403W/24	Transmission Comp. 24" Wheel
AS-404	Transmission Inner Wire
AS-441	Speedometer Driver 20"
AS-421	Speedometer Driver 24"
AS-431	Speedometer Driver 27"

HEAD PART

AS-4208	Lens
AS-4207	Gasket

DRIVER PARTS

AS-6130	Circlip for Driver
AS-6260	Arm for Driver



6130

6260

Clement " In all the world the most famous cyclist riders choose Clement Tubulars "

TUBULAR ROAD TIRES



No. 1 Bis Gr. 180/200

Criterium Silk

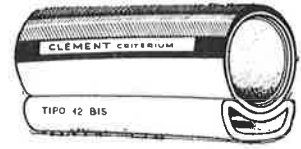
Extra Light 6.69 oz.



No. 6 Gr. 250

Criterium Silk

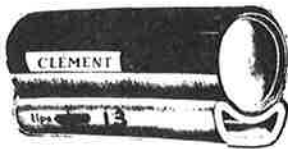
8.80 oz.



No. 12 Bis Gr. 280

Criterium Cotton

9.86 oz.



No. 13 Gr. 310

Campionato Del Mondo

Silk 10.90 oz.



No. 14 Gr. 320

Clement 46

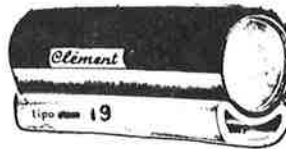
Cotton 11.26 oz.



No. 15 Gr. 320

Grifo Cross Country

Cotton 11.26 oz.



No. 19 Gr. 320

Clement 50 11.26 oz.

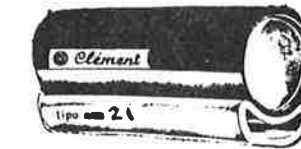
Cotton Vulcanized



No. 20 Gr. 380

Clement 48 13.38 oz

Cotton Vulcanized



No. 21 Gr. 380

Olympic 13.38 oz.

Cotton Vulcanized



No. 22 Gr. 420

Gran Sport 14.78 oz.

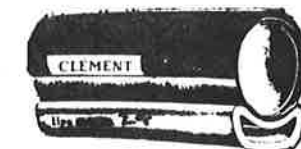
Cotton Vulcanized



No. 23 Gr. 420

Produzione Clement

Vulcanized 14.78 oz.



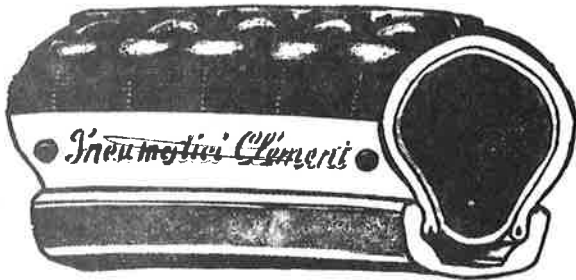
No. 24 Gr. 450

Elvezia 15.80 oz.

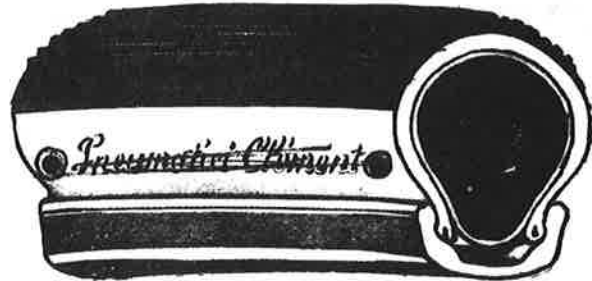
Cotton Vulcanized

TIRES

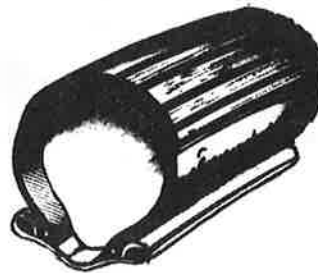
CONTINENTAL SIZE TIRES



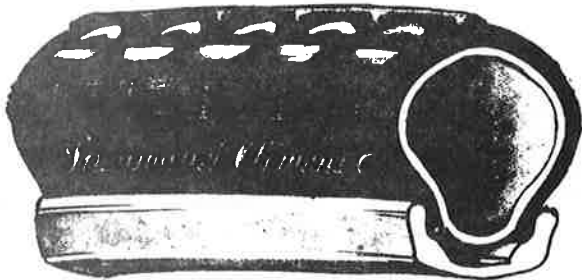
- 26 x 1 3/8" x 1 1/4" (650 x 32A)
Whitewall
- 26 x 1 3/8" (650 x 35A) Whitewall
or Black Gum.
- 26 x 1 1/2" x 1 3/8" (650 x 35B)
Whitewall
- 26 x 1 3/8" x 1 1/2" (650 x 38B)
Whitewall
- 26 x 1 1/2" x 1 5/8" (650 x 40B)
Whitewall
- 26 x 1 1/2" x 1 3/4" (650 x 42B)
Whitewall
- 26 x 1 3/4" (650 x 45C)
Whitewall
- 28 x 1 5/8" x 1 1/4" (700 x 32C)
Whitewall or Gumside
- 28 x 1 3/8" (700 x 35A)
Whitewall
- 28 x 1 1/2" (700 x 35A)
Whitewall
- 28 x 1 5/8" x 1 3/8" (700 x 35C)
Whitewall
- 28 x 1 5/8" x 1 1/2" (700 x 38C)
Whitewall



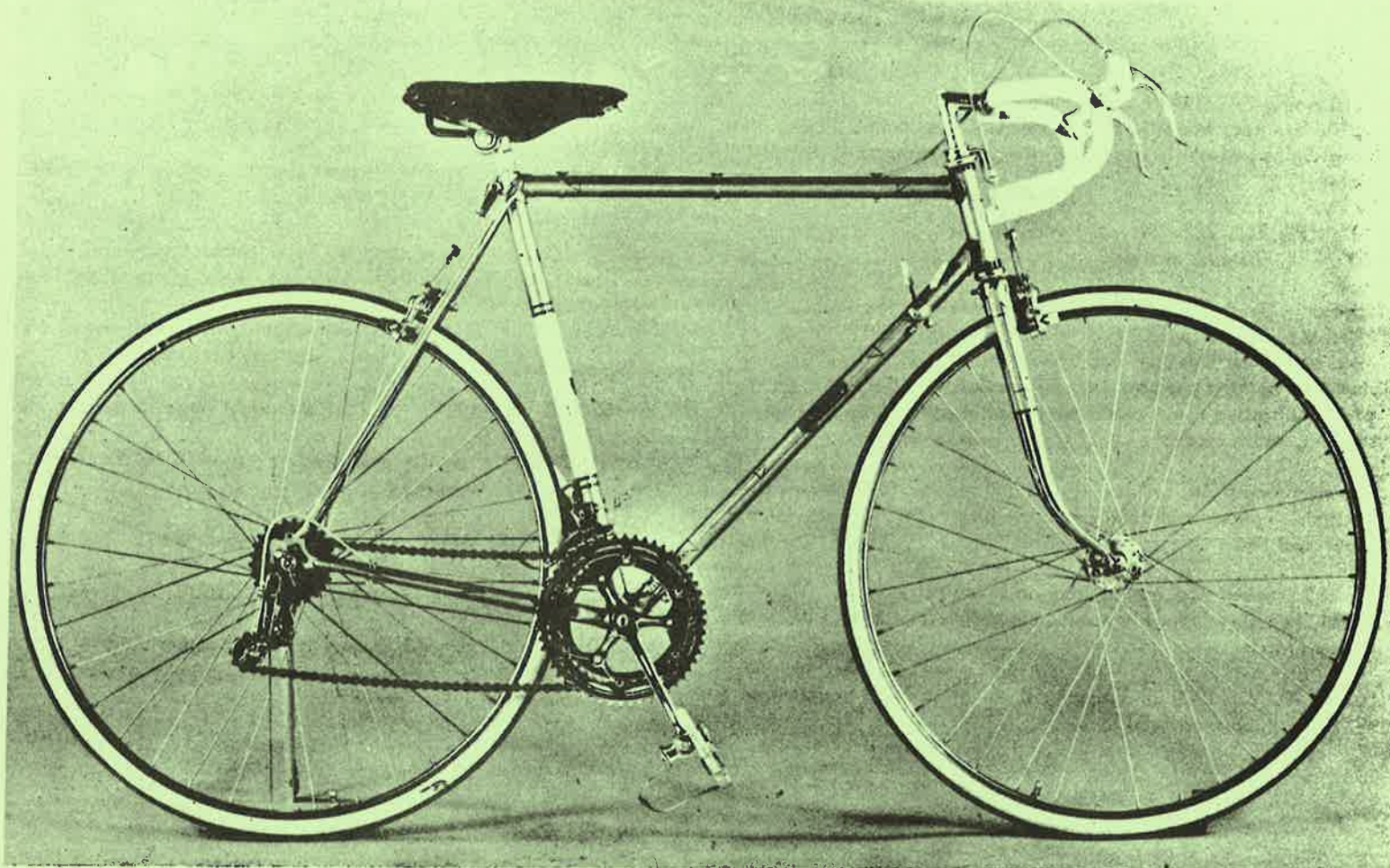
- 27 x 1 1/4" British Size
Black.
- 27 x 1 1/4" British Size
Black/White.
- 27 x 1 1/4" British Size
Black/Gum



- 12 x 1 1/4" (300 x 32A)
Black.
- 14 x 1 1/4" (350 x 32A)
Black.
- 16 x 1 1/4" (400 x 32A)
Black.
- 18 x 1 1/4" (450 x 32A)
Black.
- 20 x 1 1/4" (500 x 32A)
Black.
- 22 x 1 1/4" (550 x 32A)
Black.



- 24 x 1 3/8" x 1 1/4" (600 x 32A)
Black.
- 24 x 2" (600 x 50B)
Black.



« LIBERTAS »

P. V. B. A.

Premium Quality and Value Champion

COLORS: Write for availability of colors in stock.

FRAME SIZES: 19', 20', 21', 22', 23', 24', 25', Men's Model. 19' and 21' in Ladies sizes.

DERAILLEURS: Choice of Huret or Simplex.

CRANKSET: DURAX or NERVAR forged steel with double chainwheel.

BRAKES: Ballilla side-pull. Center-pull optional

HUBS: Normandy lightweight high flange dural with wingnuts. Quick release hubs optional.

GEARS: Atom 5 speed cluster. 15 speed gearset optional at extra cost.



HOW TO MAINTAIN CYCLING PERFECTION

First of all

REGULAR CLEANING

bicycle is doubly true. That is why we advise so strongly the habit of REGULAR CLEANING, and it need not be the seemingly thankless task many a cycle owner makes of it. Although many riders don't bother, the best method is to do it methodically, cleaning a little each day, handle bars and brakes one day, wheels another day, etc. In this way you will find that your machine never gets really dirty and what is most important you will find that riding a well-cleaned and oiled machine will give an immense satisfaction and pride of ownership. Always remember - your cycle will last much longer if you take care of it. After cycling in wet weather be sure to wipe your machine dry, a few minutes spent thus is well worth while.

Pride is an important factor in every day life. Pride of Achievement, Pride of Cleanliness, Pride in Possession - in the case of your own

ADJUST every month

1. Side play in Front and Rear Brake Levers.
2. Head Ball Races. Release Head Lock Nut, adjust screwed Race, tighten Nut.
3. Brake Blocks to Rims.
4. Front and Rear Hub Cones. When frame is held so that the wheels are free to rotate, the Cones should be adjusted so that the weight of the Tire Valve slowly and easily moves the wheel - there being no side play in the rim.
5. Wheel Track - rim should be central.
6. Chain - see Page #55
7. Take up any play in rim brake.
8. Tire Pressure
9. Pedals - Remove Dust Cap and adjust cone if necessary.



OIL every month

- | | |
|----------------------------------|---|
| 1. Levers. | 5. Wheel Hub, Front |
| 2. Head Races and Crown Race. | 6. Chain - Remove and soak in oil every 3 months. |
| 3. Brake Joints, Front and Rear. | 7. Bottom Bracket Bearings. |
| 4. Wheel Hub, Rear. | 8. Pedals. |

To raise or lower the Handlebar, unscrew the Expander Bolt so that the head protrudes 1/2" above top of stem, strike smartly on the head of bolt until it falls. The Handlebars are then free. Tighten bolt after correct setting

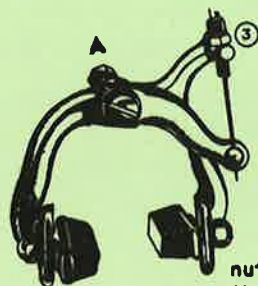


CABLE BRAKE LEVER ADJUSTMENT

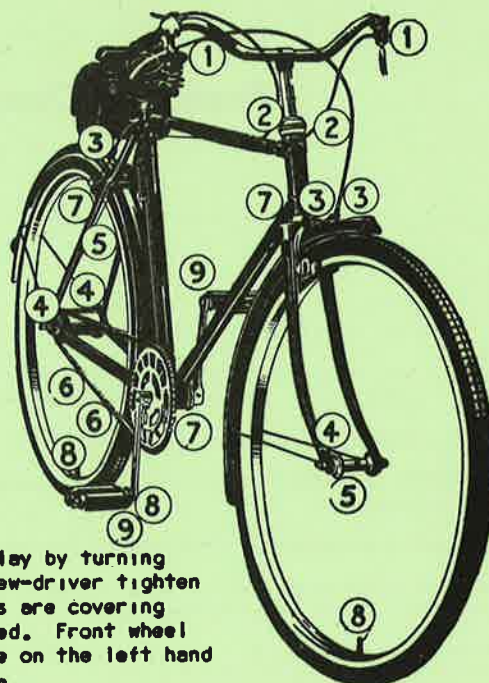
Side play in the Cable Brake Lever can be taken up by releasing nut "B" and then tightening screw from the other side. With screw-driver holding screw in correct position, re-tighten nut "B"

SPORTS BRAKE ADJUSTMENT

Normal adjustment is obtained by releasing the lock nut on the adjuster 3. Turn the adjuster until the Brake Blocks are just off the rim. Re-lock the nut. Test the wheel. If this gives insufficient adjustment, release the lock nut, screw adjuster right in, then undo the nut holding the cable end, pull the cable through draw bolt



and with one hand holding the arms of the brake to the rim, tighten up the nut. Then adjust as above. If the Brake Arms are too tight or too loose, Micrometer adjustment can be made by releasing the nut A holding the brake to the frame, then with screw-driver in one hand adjust play by turning center bolt and still holding screw-driver tighten nut A at rear. See that Brake Blocks are covering the width of rim when brake is applied. Front wheel should be fitted with adjustable Cone on the left hand side when viewed from riding position.



S5

wide ratio
FIVE SPEED
HUB GEAR

by

STURMEY ARCHER

SPARE PARTS LIST
AND
INSTRUCTIONS FOR
DISMANTLING
AND ASSEMBLY

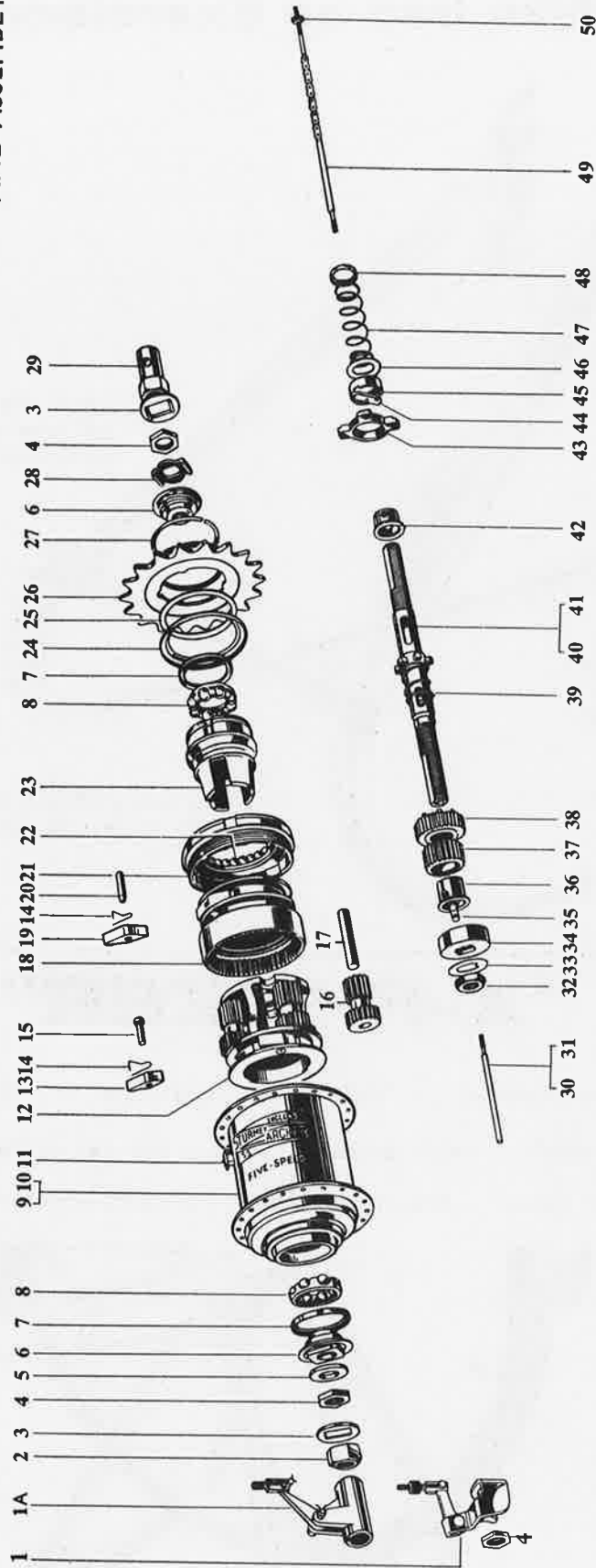
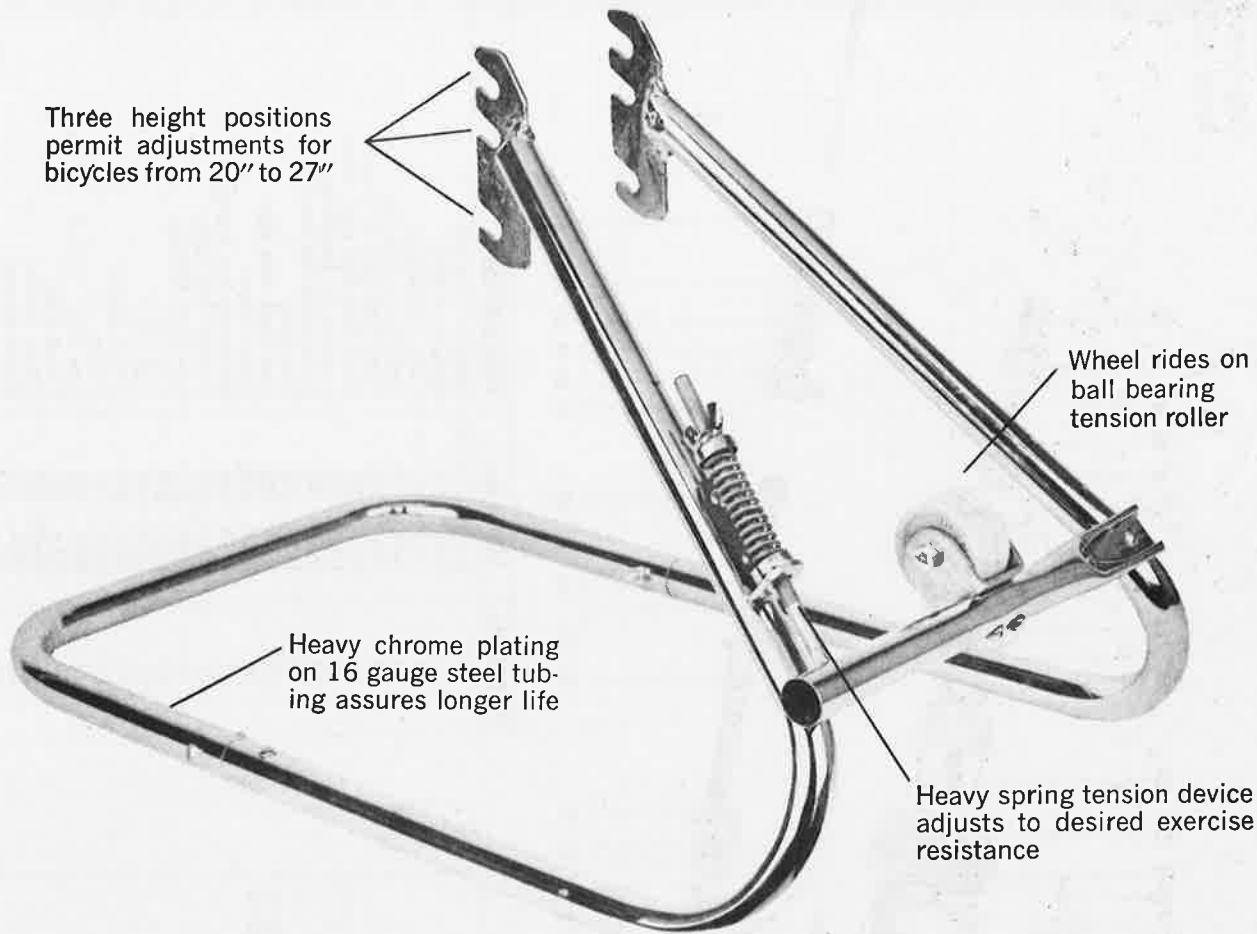


PHOTO No.	SALES No.	DESCRIPTION
1	HSJ 608	Bellcrank (Steel)
1A	HSJ 606	Bellcrank (Plastic)
2	HMN 128	Left-hand Axle Nut
3	HMW 145	Axle Washer
4	HMN 132	Locknut
5	HMW 129	Cone
6	HSA 101	Axle Spacing Washer (1/4")
7	HSA 102	Outer Dust Cap
8	HSA 103	Ball Cage
9	HSA 271	Shell - 40 Hole - and Ball Cup Combined
10	HSA 270	Shell - 36 Hole - and Ball Cup Combined
11	HSA 106	Lubricator (Plastic)
12	HSA 132	Planet Cage
13	HSA 111	Low Gear Pawl
14	HSA 120	Pawl Spring
15	HSA 133	Pawl Pin - Planet Cage
16	HSA 134	Planet Pinion
17	HSA 135	Pinion Pin
18	HSA 118	Gear Ring
19	HSA 119	Gear Ring Pawl
20	HSA 112	Pawl Pin - Gear Ring
21	HSA 121	Right-hand Ball Ring
22	HSA 122	Inner Dust Cap
23	HSA 123	Driver
24	HSL 701	Sprocket Dust Cap
25	HMW 127	Sprocket Spacing Washer

PHOTO No.	SALES No.	DESCRIPTION
26	HSL 716-720	Sprocket - 16-20T
27	HSL 721	Sprocket Circlip
28	HMW 147	Cone Lockwasher
29	HMN 129	Right-hand Axle Nut
30	HSA 266	Gear Push Rod (6" Axle)
31	HSA 267	Gear Push Rod (6 1/4" Axle)
32	HMN 133	Locknut for Dog-Ring
33	HMW 149	Lockwasher for Dog-Ring
34	HSA 138	Low Gear Axle Key
35	HSA 268	Pinion Sleeve
36	HSA 140	Secondary Sun Pinion
37	HSA 141	Primary Sun Pinion
38	HSA 269	Low Gear Spring
39	HSA 273	Axle - 6"
40	HSA 274	Axle - 6 1/4"
41	HSA 145	Clutch Sleeve
42	HSA 116	Clutch
43	HSA 117	Axle Key
44	HSA 124	Thrust Ring
45	HSA 127	Thrust Washer
46	HMW 148	Clutch Spring
47	HSA 128	Spring Cap
48	HSA 129	Gear Indicator Rod Right-hand (6" Axle)
49	HSA 126	Gear Indicator Rod Right-hand (6 1/4" Axle)
50	HMN 134	Connector Locknut

THE GRAND PRIX CYCL-CISOR CONVERSION KIT

Changes a Road Bike into an Exercisor



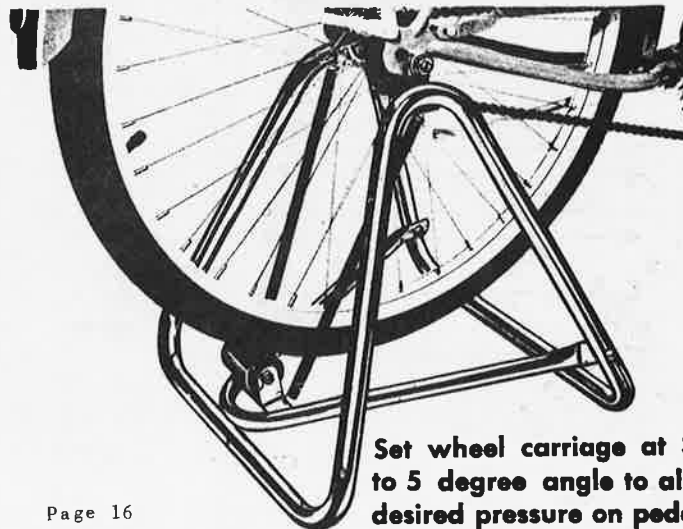
NEW... BIKE "X-R-SIZER"

Converts any bike into a home exercisor . . . Compact and lightweight . . . No storage problem . . . It's ideal for homes, — hospitals, — health centers, — for mom and dad or the whole family . . . Automatically fits any type of bicycle . . . Easy to assemble . . . No upkeep problems . . . Piano steel wire springs (16 lb. pull) . . . Heavy duty tubular chrome steel frame . . . Nylon fibre wheels . . . Excellent bike trainer for beginners . . . WHY SPEND 100's OF DOLLARS FOR EXERCISING EQUIPMENT . . . NOW YOU CAN EXERCISE RIGHT AT HOME FOR ONLY

Big Wheel, Ltd

Bicycle Specialist

310 HOLLY STREET
DENVER, COLORADO 80220



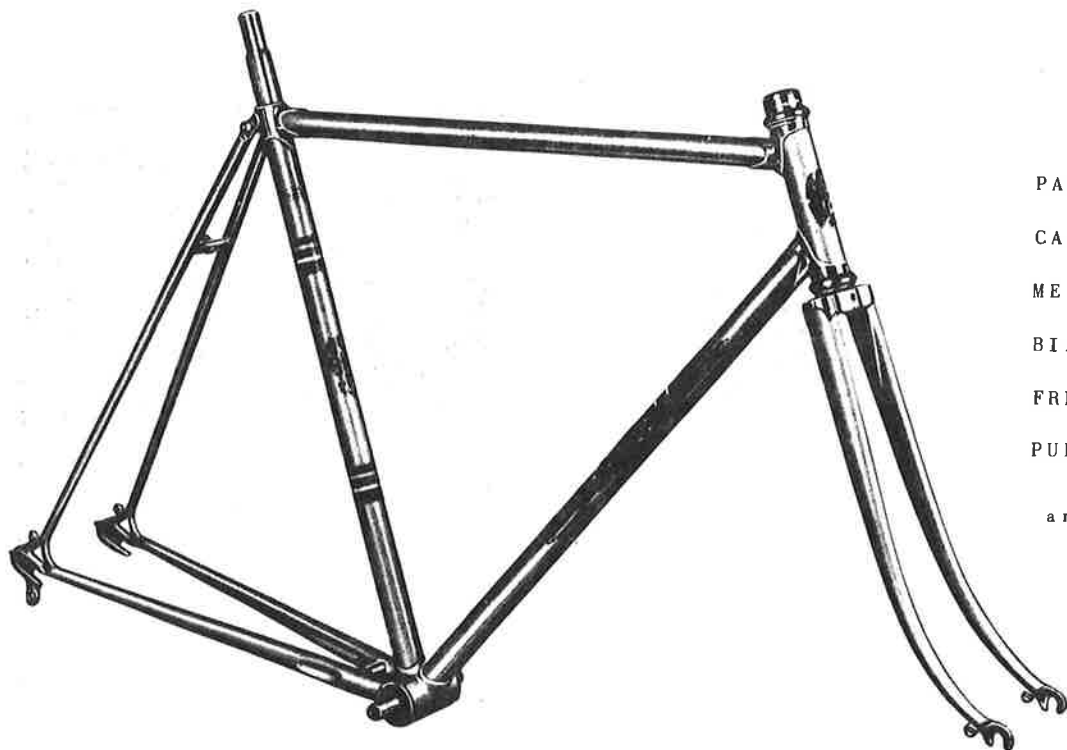
CINELLI	Italy
JACQUES ANQUETIL	France
SAUVAGE LEJEUNE	France
MONDIA	Swiss
GALIBIER	Belgium
R. I. H.	Holland



ALL CAMPAGNOLO

EQUIPPED 10 SPEED PROFESSIONAL BIKES OR FRAMES

REYNOLD 531 D. B. TUBING



PARAMOUNT	U. S. A.
CARLTON	English
MERCIER	France
BIANCHI	Italy
FREJUS	Italy
PUEGEOT	France

and many more.

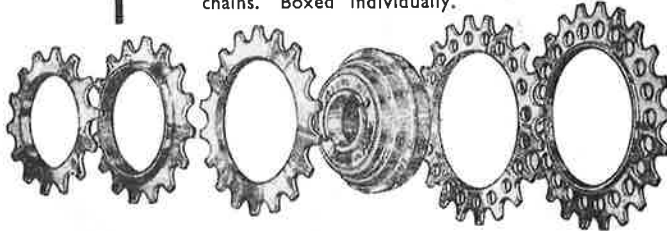
M. MAILLARD ATOM 5 - SPEED

MULTIPLE FREEWHEELS

« ATOM » 4 & 5 speed $\frac{1}{8} \times \frac{3}{32}$.
 Double full balls race-removable bronzed sprocket.
 Precision guaranteed to 0.050—yellowed lock
 rings. Teeth range from 13 to 28—The "Atom"
 freewheel is also made in three-speed for $\frac{1}{8}$
 chains. Boxed individually.



Atom



Type E 14 to 16 T. Type D 15 to 18 T. Type B 16 to 20 T.

Body

Type C 17 to 28 T.

5-Speed Only - Complete W/Sprockets



5 or 6 SPEED
 ATOM SPROCKET

REGINA freewheel sprockets



SINGLE SPROCKET
 FREEWHEEL

18-20-22 Tooth
 $\frac{1}{2}$ " x $\frac{1}{8}$ "

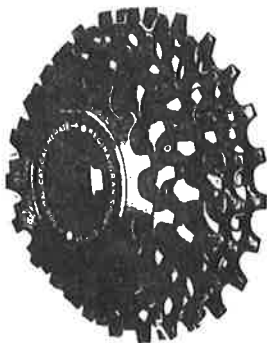


SERIES 'ORO'



FIVE SPROCKET CLUSTER

14-16-18-20-22 Tooth
 13-15-17-19-21 "
 15-17-19-21-23 "



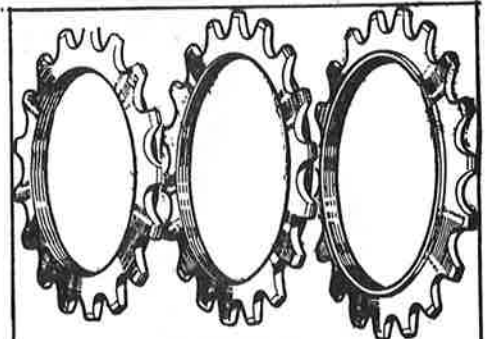
SIX SPROCKET CLUSTER

13-15-18-20-23-26
 Tooth
 $\frac{1}{2}$ " x $\frac{3}{32}$ "



CLUSTER BODY

4 and 5 speed.
 body only.



SPROCKETS

13 to 28 tooth.

Sprockets only.



SPANNERS



FIGURE "I" TOOL

Finest freewheel remover. Removes freewheel from hub.



FIGURE "Q" TOOLS

Hardened steel spanner.

13/14 - 15/16 m.m.

For cones and lock nuts.



**#769 COTTERLESS CRANK ARM
INTERNAL SPANNER**



#710 PEDAL SPANNER



**#768 BOTTOM BRACKET
CUP REMOVER**



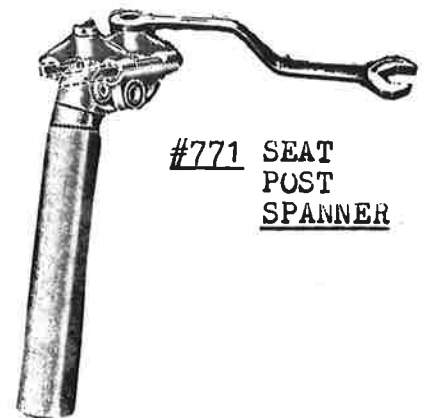
**#648 Standard pump
peg clip.**



**#143/2 COTTERLESS
SET
Allen Key.**



**#767 COTTERLESS
SPROCKET PIN
SETTER**



**#771 SEAT
POST
SPANNER**

Tools Accessories

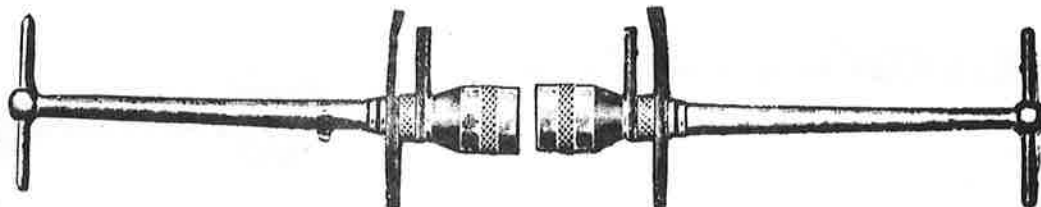
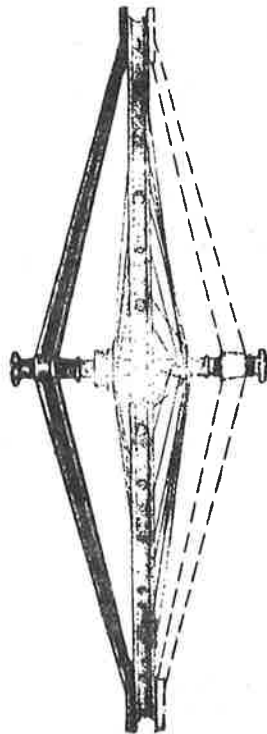


FIGURE "H" TOOL

Set of clamping gauges. Aligns front and rear fork ends.

FIGURE "N" TOOL

For centering of any type of rim.



#770 COTTERLESS
CHAINWHEEL
BOLT PULLER

TWIN HANDLEBAR CONTROL
LEVERS WITH BARE CABLES

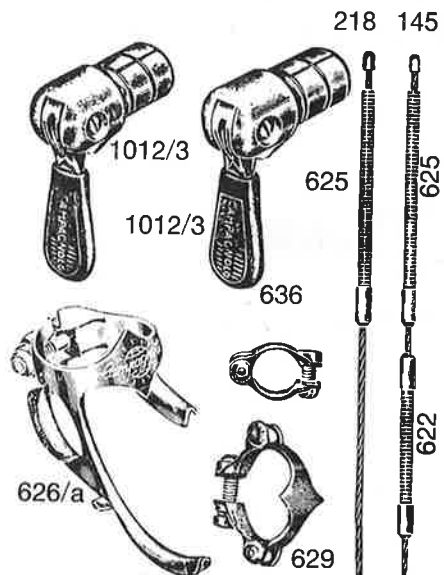


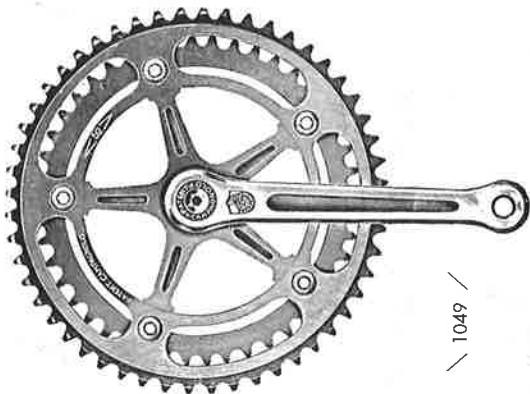
FIGURE "P" TOOL

Spindle holding block for vice.

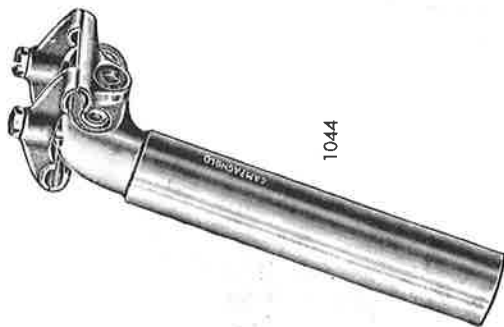


#1029 CHAIN GUIDE

Prevents chain slippage.



1049 /



1044



1046/a



2100



1010



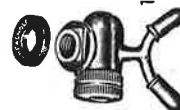
608



606



1030/2



632



649



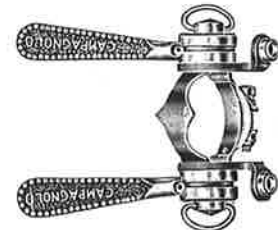
649



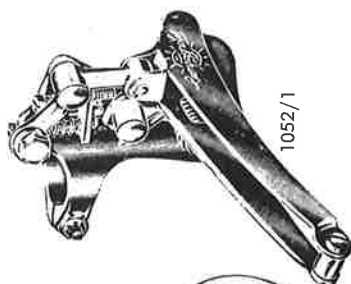
649



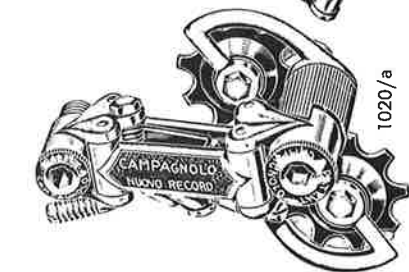
636



1014



1052/1



1020/a



626/a



1039



2101



1035

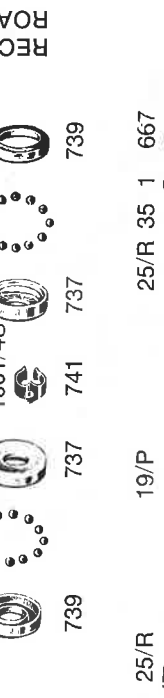
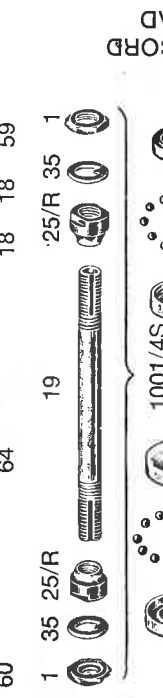
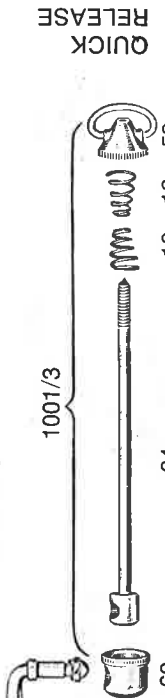
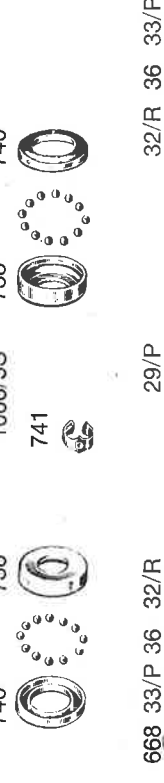
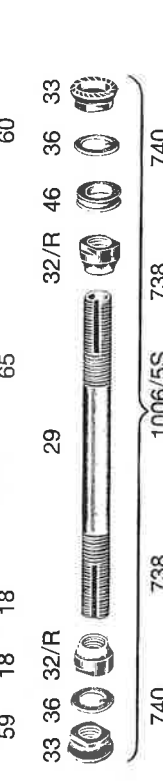


1037



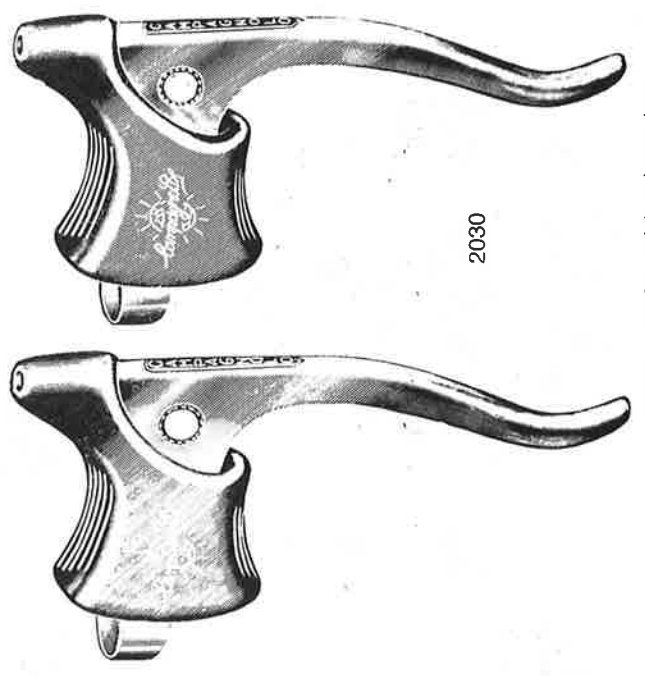
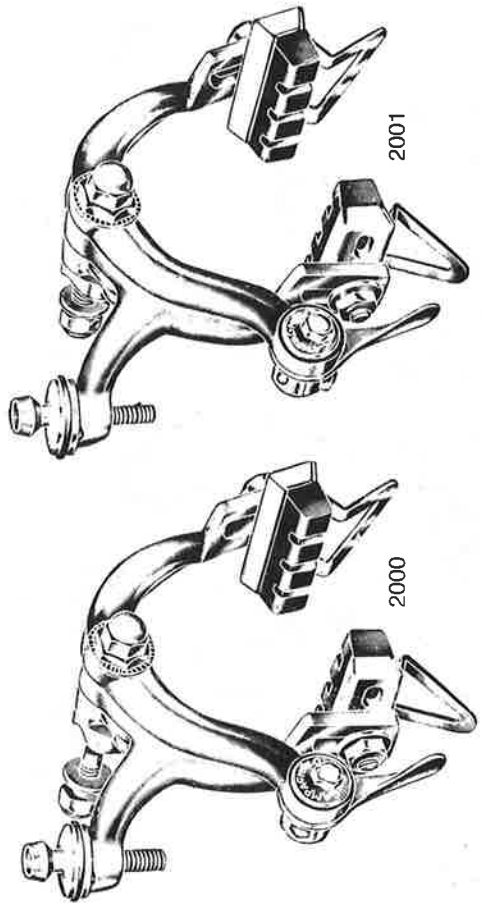
FRONT

REAR

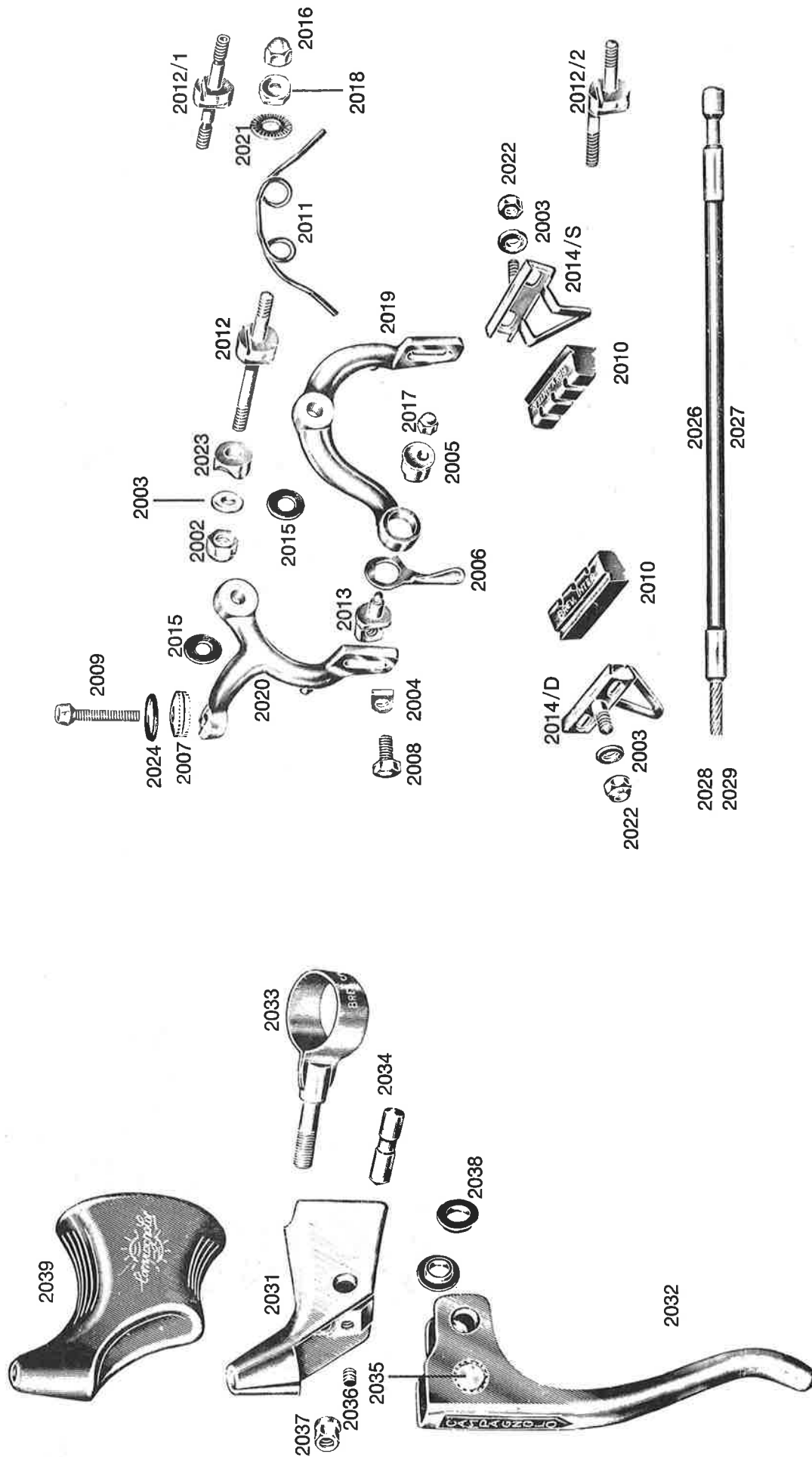


CAMPAGNOLO RECORD BRAKES

RECORD HUBS AND QUICK RELEASE SPARE PARTS



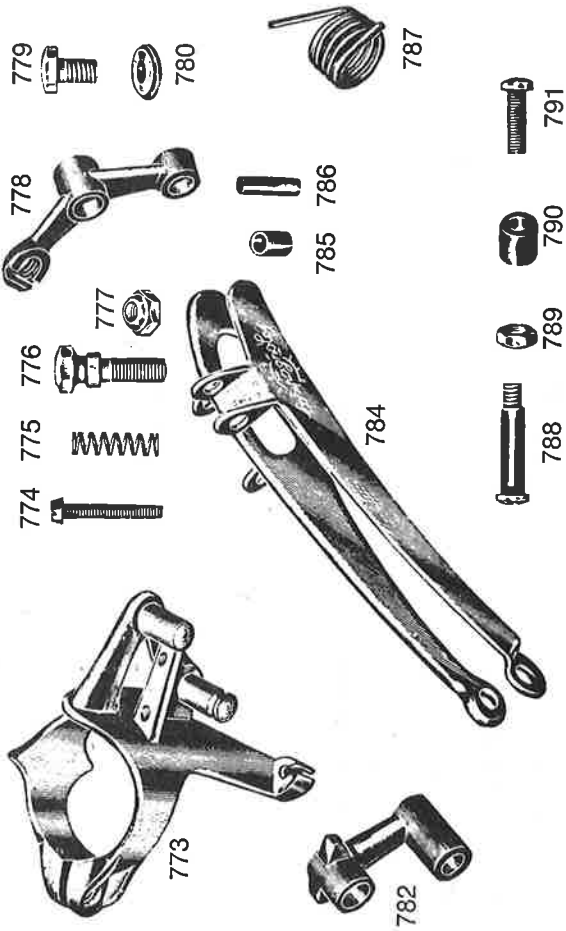
CAMPAGNOLO RECORD BRAKES AND CONTROL SYSTEM SPARE PARTS



- 2002 Centre bolt fixing nut
- 2003 Brake shoe washer
- 2004 Clamp bolt washer
- 2005 Cam
- 2006 Quick release cam lever
- 2007 Adjusting nut
- 2008 Cable clamp bolt
- 2009 Adjusting screw
- 2010 Brake block
- 2011 Tension screw
- 2012 Front brake centre bolt
- 2012/1 Rear brake centre bolt
- 2012/2 Rear brake centre bolt
- 2013 Cable clamp
- 2014/D Right hand brake shoe
- 2014/S Left hand brake shoe
- 2015 Friction washer
- 2016 Domed nut
- 2017 Cam locking nut
- 2018 Locking nut
- 2019 Front stirrup
- 2020 Rear stirrup
- 2021 Serrated washer
- 2022 Brake shoe nut
- 2023 Concave washer
- 2024 Adjusting rubber
- 2026 Cable clamp
- 2027 Right hand brake shoe
- 2028 Left hand brake shoe
- 2029 Friction washer
- 2031 Cam locking nut
- 2032 Locking nut
- 2033 Front stirrup
- 2034 Rear stirrup
- 2035 Serrated washer
- 2036 Brake shoe nut
- 2037 Concave washer
- 2038 Adjusting rubber
- 2039 Cable clamp
- 2039 Front brake outer cable (56 cm.)
- 2039 Rear brake outer cable (114 cm.)
- 2039 Front inner cable (68 cm.)
- 2039 Rear inner cable (126 cm.)
- 2039 Lever hood
- 2039 Brake lever clip
- 2039 Lever pivot pin
- 2039 Cable nipple holder
- 2039 Grub screw
- 2039 Clamp nut
- 2039 Lever bush
- 2039 Rubber lever hood

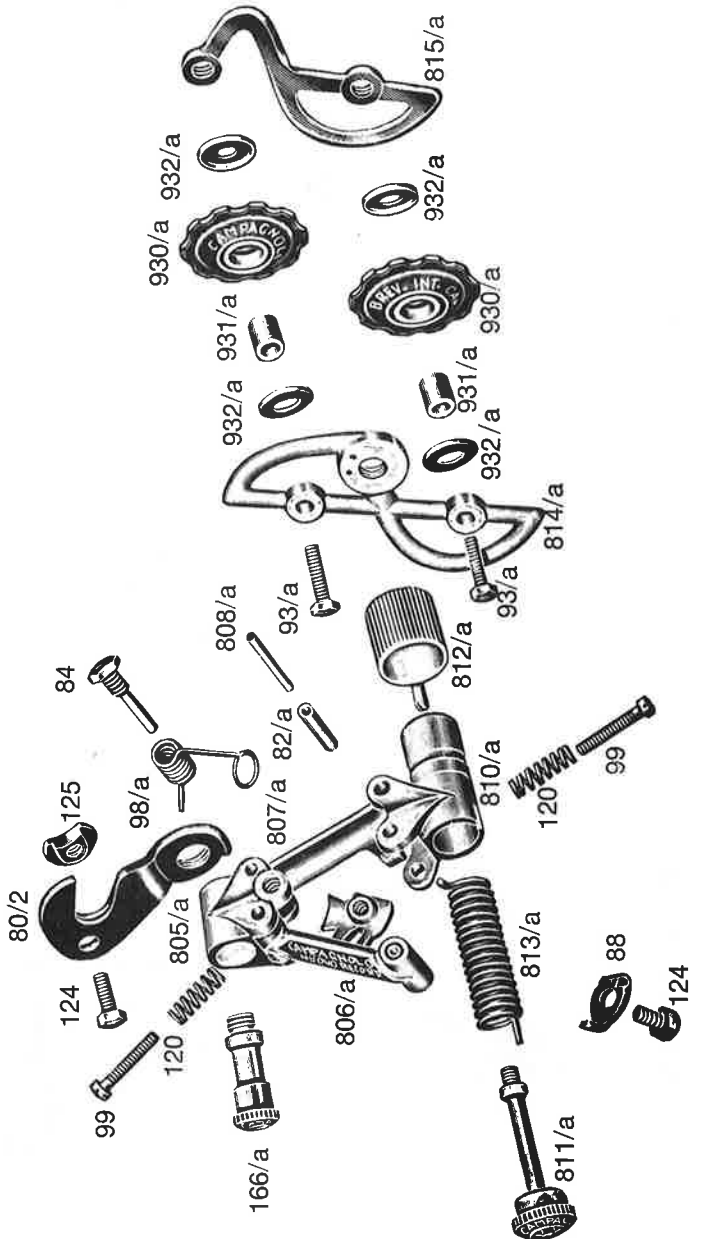
RECORD FRONT CHANGER SPARE PARTS

- 773 Record front changer body
- 774 Adjusting bolt
- 775 Adjusting bolt spring
- 776 Clip fixing screw
- 777 Clip nut
- 778 Upper arm
- 779 Cable clamp bolt
- 780 Washer for bolt 779
- 782 Lower arm
- 784 Front changer cage
- 785 Ferrule for front changer cage
- 786 Spindle for front changer cage
- 787 Front changer return spring
- 788 Cage shank bolt
- 789 Cage nut
- 790 Roller
- 791 Cable bolt



NUOVO RECORD GEAR SPARE PARTS

- 80/2 Gear fixing plate
- 82/a Body ferrule
- 84 Spring screw
- 88 Clamp wascher
- 93 Sprocket bolt
- 98/a Gear return spring
- 99 Gear adjusting screw
- 120 Safety spring
- 124 Fixing screw
- 125 Clamp nut
- 166/a Uppur pivot bolt
- 805/a Rear body
- 806/a Front arm
- 807/a Inner arm
- 808/a Spindle
- 810/a Spring cage
- 811/a Spring bolt
- 812/a Spring cage cover
- 813/a Tension spring
- 814/a Outer cage plate
- 815/a Inner cage plate
- 930/a Roller
- 931/a Roller bush
- 932/a Roller dust cover



UNICYCLE PROFESSIONAL MODEL



SAME
MODEL
IN
20"

FEATURES

LEG REACH:

Adjustable positions to offer widest range. Suitable for ages 10 and over.

SADDLE:

Special Unicycle Design, Foam Rubber Padded, Two-Tone Blue and White.

FORK:

Tubular Construction, Reinforced at stress points, color - Metallic Blue with chrome fork ends.

PEDALS:

Ball Bearing Construction, Rubber Cushioned Pads.

HUB:

One-piece construction with Industrial type precision bearings.

WHEEL:

24 x 1.75 Chrome Plated, 36 spoked wheel, white Sidewall Tire.

PACK:

One per carton, weight 19 lbs.

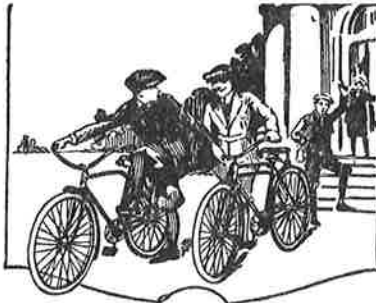
Support the A.B.L.

Support Your Local



WHERE AN ITEM OR ITS PRICE DOES NOT APPEAR IN THIS CATALOG, PLEASE SUBMIT AN INQUIRY

1922 BICYCLES ARE HERE



Choose your Bicycle from the largest and best stock in Terre Haute. We handle absolutely the BEST BICYCLES MADE.

The following list represents the best known standard makes and greatest values obtainable.

SINGLE BAR		MOTORBIKE	
Rollfast	\$32.00	Century	\$35.00
Ideal	\$39.00	Ideal	\$42.00
Duplex	\$42.00	Duplex	\$45.00
Crown	\$42.00	Reading	\$45.00
Reading	\$43.00	Crown	\$47.00
Indian	\$48.00	National	\$53.00
National	\$50.00	Indian	\$52.00
Pierce	\$53.00	Columbia	\$60.00
Columbia	\$55.00		

JUNIORS'		LADIES'	
5-6 year old	\$25.00 up	Ideal	\$40.00
7-9 year old	\$28.00 up	Reading	\$45.00
9-11 year old	\$29.00 up	Crown	\$47.00
		Indian	\$50.00
		National	\$52.00

J.E. SAYRE & CO.
BICYCLE HEADQUARTERS



Big Wheel, Ltd.

Bicycle Specialist

◆ SERVICE ◆

310 HOLLY STREET
DENVER, COLORADO 80220

Raleigh Racing and Sports Cycles

Bred from the heat of competition, the cycles in Raleigh's 10-Speed collection are designed and handmade in Raleigh's own Carlton Factories by the world's leading specialists in the racing field . . . Offered in a variety of specifications and fitted with the most carefully selected components, the Raleigh 10-Speeds are painstakingly crafted to suit every performance requirement, taste and budget.



Super Course, Grand Prix, and Record models are fitted with 40-52T chainwheel and 14-28T sprocket.

SUPER COURSE:

Specifications include Reynolds 531 tubing, quick release wide-flange hubs and center-pull brakes, alloy rims, Dunlop H. P. tires, Simplex Prestige 10-Speed gear, and other high quality components.

Gents Model DL-100 available in 21½" and 23½" frame sizes in Coffee and Bronze Green Colors.

GRAND PRIX:

Features fully lugged racing frame tubing, center-pull brakes, wide-flange hubs with wing nuts. Dunlop Sprite gum wall tires, Simplex Prestige 10-Speed gear, and choice components.

Gents Model DL-115 available in 21½" and 23½" frame sizes in Flamboyant Red, Silver Blue, and Bronze Green colors, and 25½" frame in Bronze Green.

RECORD:

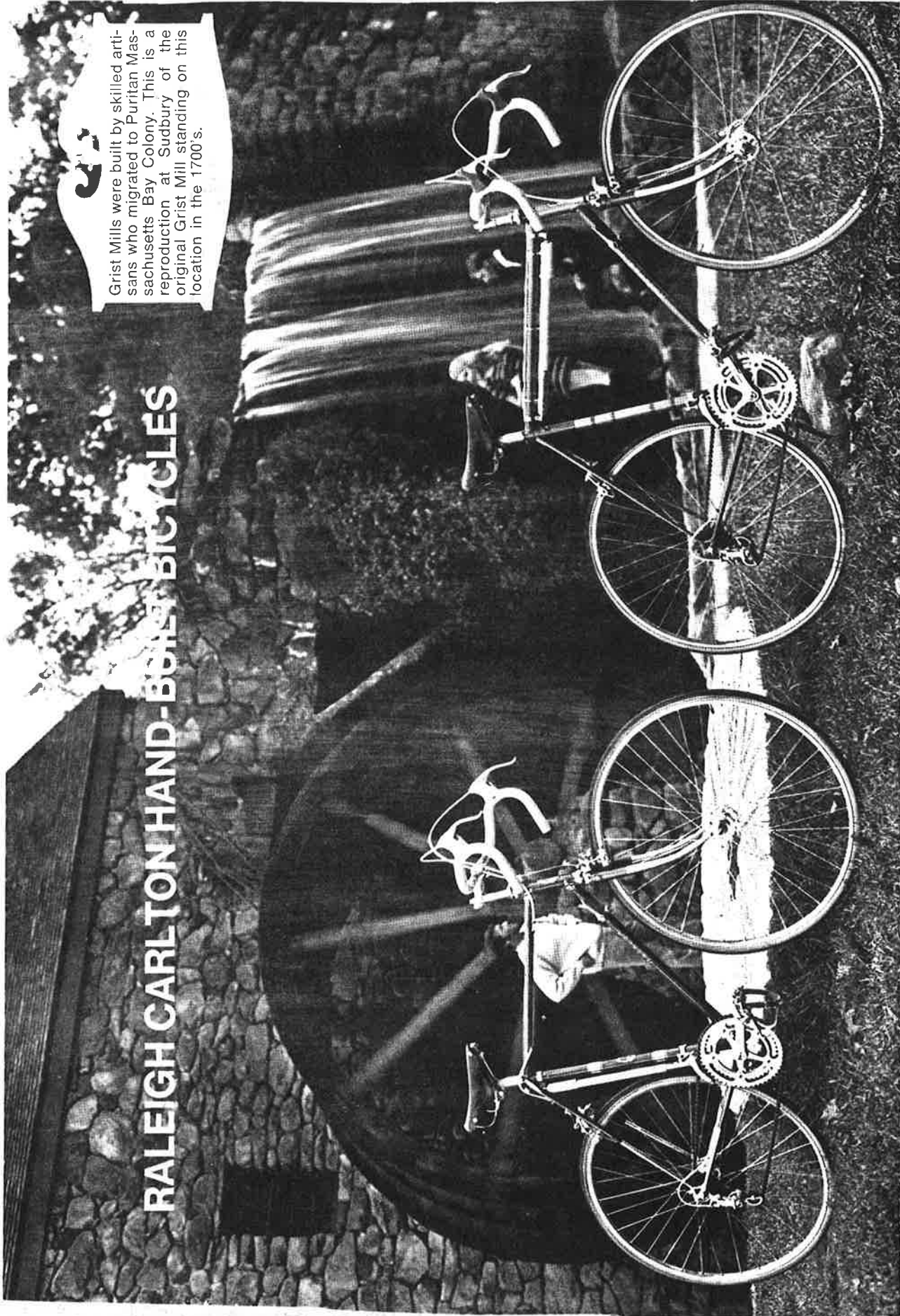
Fully lugged frame, Dunlop Sprite Gum Wall Tires, Huret 10-Speed gear, leather saddle on Gents. Model and mattress saddle on Ladies Model . . . Fitted with choice components.

Gents Model DL-130 available in 21" and 23" frame sizes in Bronze Green, Competition Blue, and Red with Black trim.

Ladies Model DL-130L available in 19½" frame in Bronze Green and Competition Blue.

RALEIGH CARLTON HAND-BORED BICYCLES

Grist Mills were built by skilled artisans who migrated to Puritan Massachusetts Bay Colony. This is a reproduction at Sudbury of the original Grist Mill standing on this location in the 1700's.



INTERNATIONAL

Reynolds 531 double butted tubes, forks, and stays . . . equipped with CAMPAGNOLO COMPONENTS . . . and Weinmann 999 centerpull quick release brakes • Gents Model DL-170 available in 21½" — 23½" — 24½" frame sizes . . . choice of Coffee and Bronze Green.

PROFESSIONAL MKII Limited Edition*

The ultimate for the discriminating cyclist who wants the very best . . . Frame is of Reynolds 531 double butted tubes, forks, and stays . . . fully equipped with CAMPAGNOLO COMPONENTS including brakes, plus many extras • Gents Model DL-180 available in 21½" — 23½" — 24½" — 25½" frame sizes, in milk/silver color combination.

27" wheel
10-speed

Legnano

MOD. ROMA OLIMPIADE



**MOD. ROMA OLIMPIADE
ROAD RACER FOR PROFESSIONALS**

Frame cms. 55 (21 3/4") - 57,5 (22 3/4") - 60 (23 3/4") built (« Reynolds 531 » double cone shaped or with Columbus ». - flamboyant green Legnano enamelled, red lined - top and bottom head lugs, front and rear fork ends, chromium plated - Campagnolo « Nuovo Record » rear gear and front changer - Campagnolo « Record » quick release and large flange hubs built in one piece of special alloy - Campagnolo adjustable seat pillar - special N.K. Record Campagnolo water and dust tight head steering set and bottom bracket set - special steel Campagnolo Record pedals with calibrated axles - Campagnolo Record chainwheel 42x50 teeth - Regina 5 speed freewheel 14-16-18-20-22 - Regina chain 3/32 - alloy handlebar with Legnano bend - Universal central pool brakes with para rubber hoods wheels: alloy Fiamme rims with conical bushes - rustless butted spokes - Pirelli light (weight grs. 250/270) « specialissimi da corsa » tubular tyres - Brooks saddle - Impero pump with alloy sleeve, Campagnolo connection and Campagnolo pump holders.

Page 28

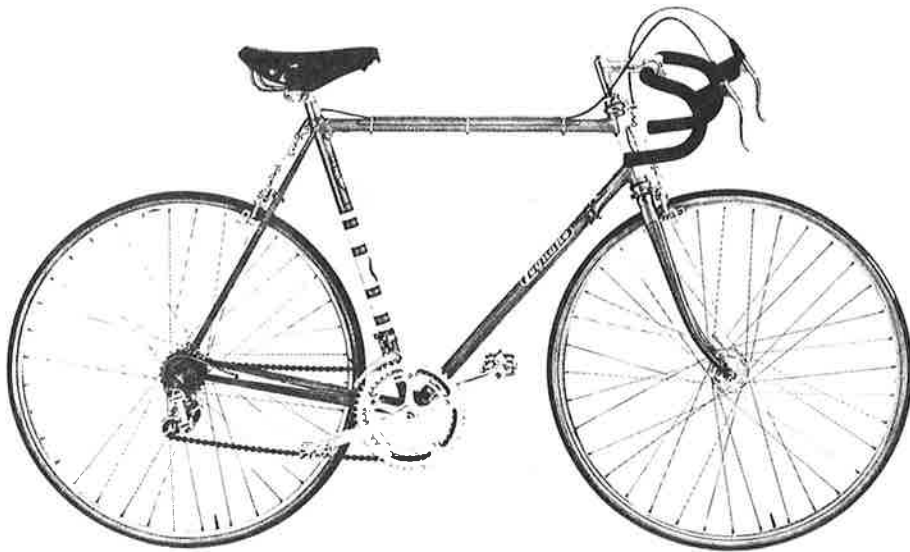
biciclette

Legnano

biciclette

Legnano

GIOMME **PIRELLI**

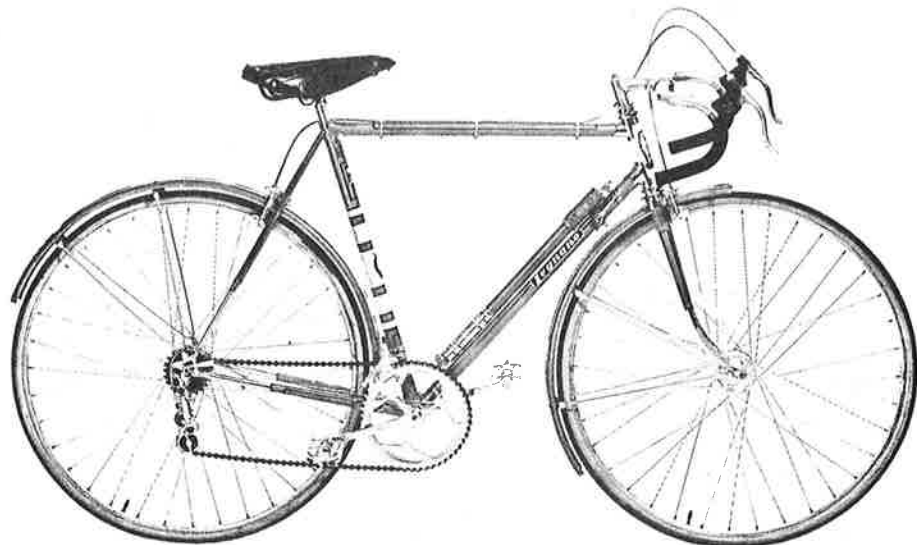


Mod. OLIMPIADE RECORD - CORSA - Specialissima - Professionisti

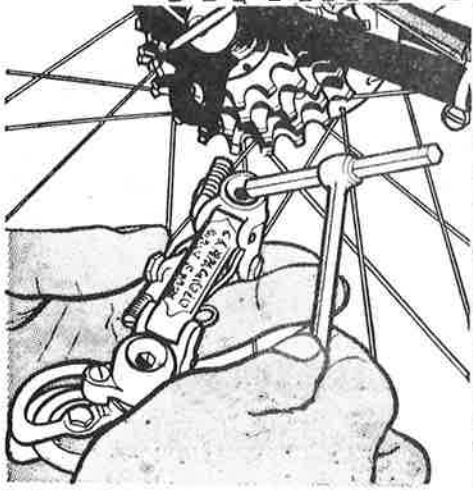
Colore: verde Legnano trasparente - Telaio costruito con tubi speciali Reynolds 531 o Columbus a doppia conificazione - Gruppo Campagnolo nuovo Record comprendente: « mozzi con bloccaggi - pedali supercorsa - serie sterzo - serie movimento con attacco quadro - guarnitura brevettata in lega extraleggera con doppio ingranaggio 42/50 denti - reggisella » - Catena supercorsa 3/32 - Ruota libera quintupla - Manubrio in lega leggera piega Legnano - Freni Universal a tiraggio centrale con ancoraggi e leve con poggiamano in para - Cerchi Fiamme supercorsa brevettati con bussole - Raggi Stella inossidabili ingrossati - Sella Brooks Mod. Professional - Pompa Impero, attacco e portapompa Campagnolo - Tubolari Pirelli specialissimi - Altezze telaio: cm. 55 - 57,5 - 59,5. Il modello Olimpiade Record può essere fornito con telaio su misura indicata dal Cliente - Attenzione: questa bicicletta esce dalla Fabbrica munita di certificato di costruzione piombato al telaio - esigetelo! A richiesta, per corridori allievi, il modello Olimpiade può essere fornito con le caratteristiche prescritte dal regolamento U.V.I. - **N.B.:** Il modello Olimpiade è disponibile con telaio costruito con tubi speciali SS Falck a doppia conificazione.

Mod. GRAN PREMIO - CORSA

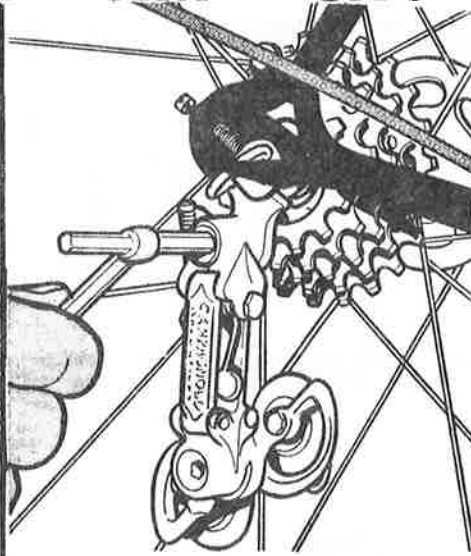
Colore: verde Legnano trasparente - Pipe sterzo, punte foderi e forcellini cromati - Cambio Campagnolo con deragliatore - Mozzi a flange larghe con bloccaggio - Guarnitura a doppio ingranaggio 47/50 denti - Ruota libera quintupla 14/22 denti - Cerchi, freni e parafanghi duraluminio - Raggi cromati ingrossati - Manubrio duralluminio piega Franco-Belga - Sella cuoio - Tubolari Pirelli Gran Premio - Altezze telaio: cm. 55 - 57,5 - 59,5.



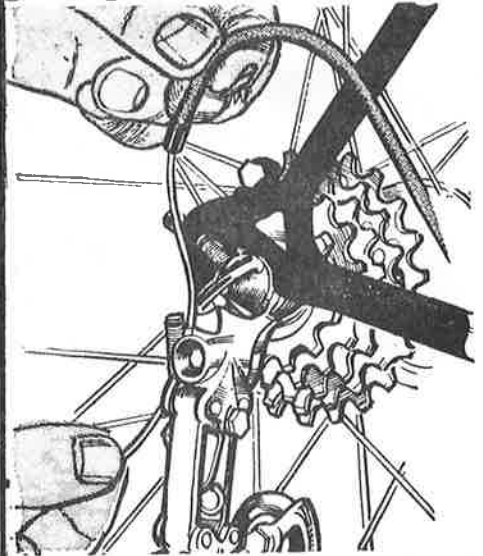
FITTING A CAMPAGNOLO GEAR



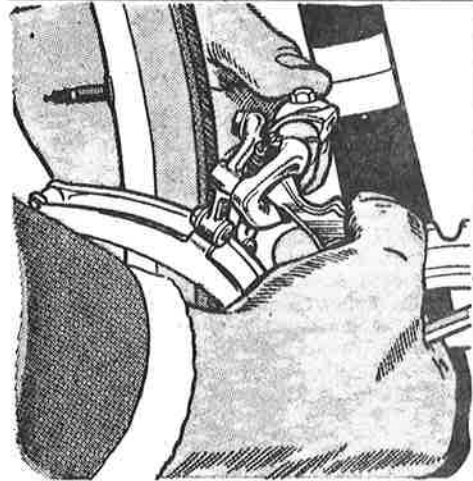
1 Start with the gear lever fitted to the down tube (set for large sprocket, large chain-wheel), cables properly inserted in their guides, the rear wheel slightly forward of central position in the fork ends and correctly aligned.



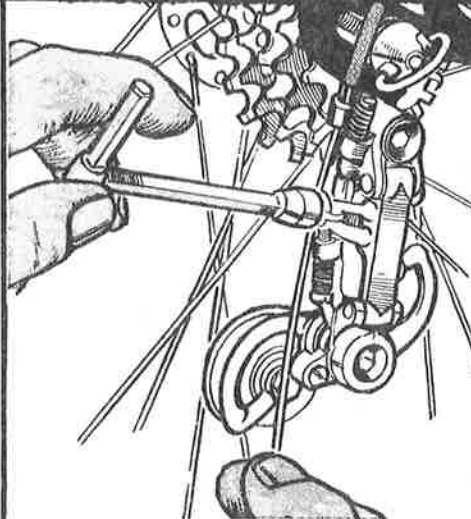
2 The gear mechanism is then locked firmly in position.



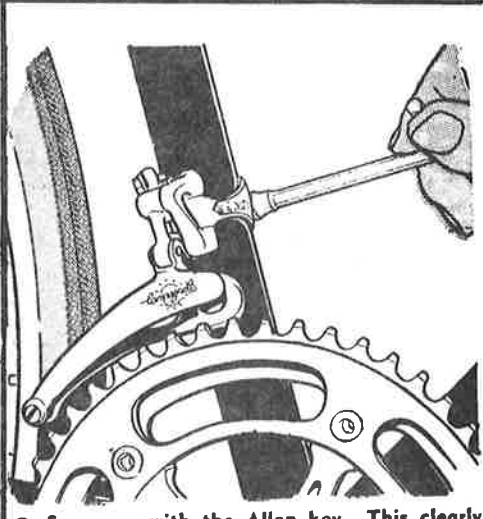
3 The rear changer cable is threaded through the eye at the rear of the gear.



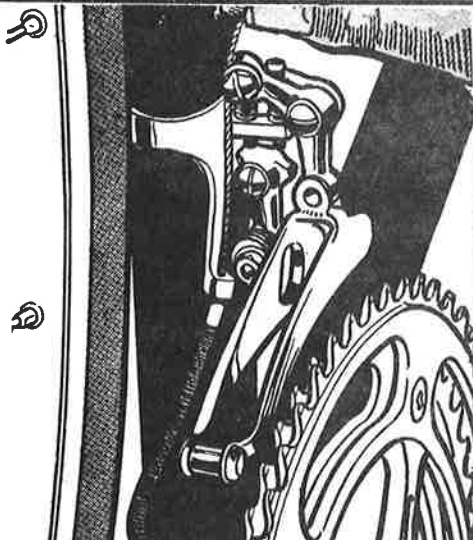
5 The front changer is now placed in position on the seat tube; ensure that it is high enough to avoid interference with the chain when it is on the large chainwheel.



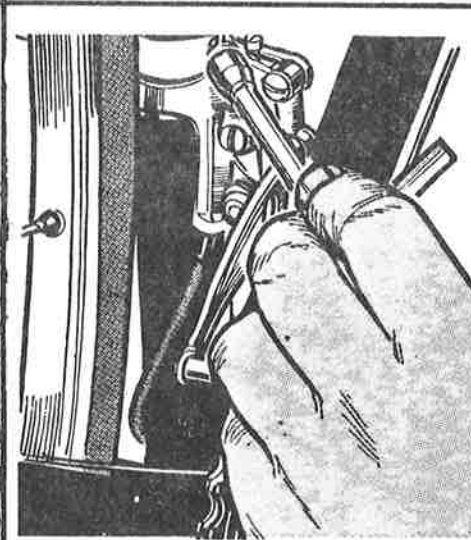
4 . . . and on to the adjusting nut which is locked into position with the Allen key.



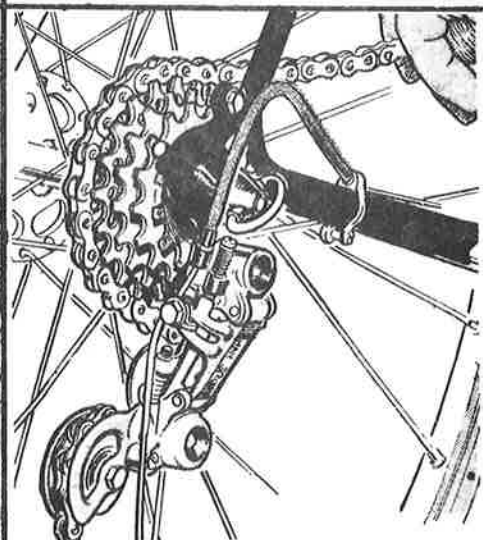
6 Screw up with the Allen key. This clearly indicates the correct position of the front changer.



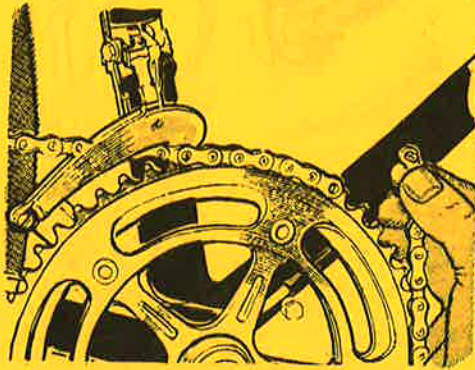
7 Insert front changer cable through the guide and bring up to the adjusting nut . . .



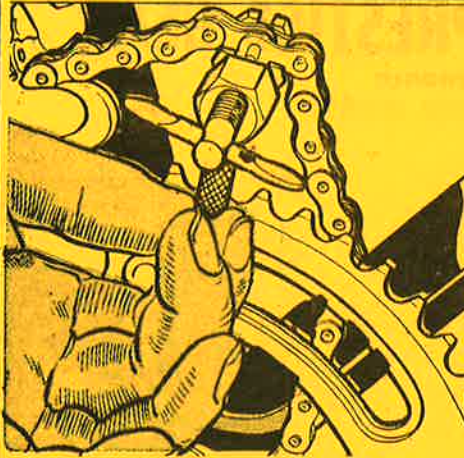
8 . . . then lock into position with the Allen key.



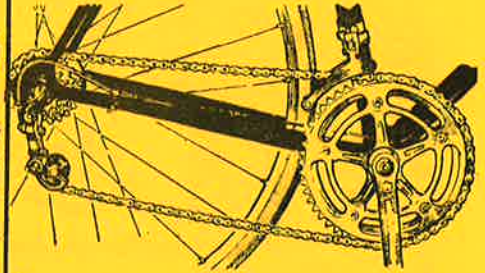
9 Place the chain in position on the large sprocket and jockeys.



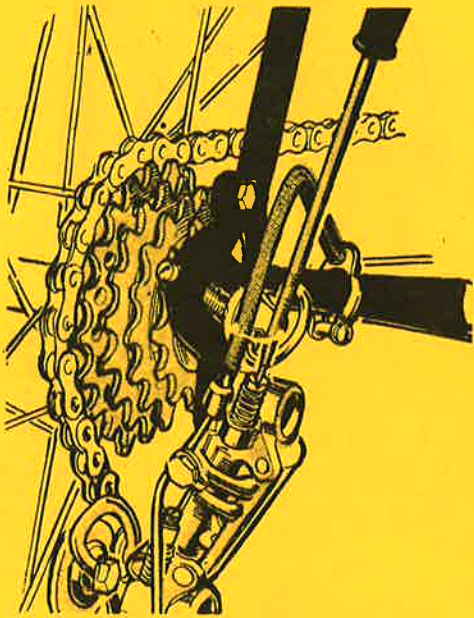
10 With one end of the chain in position on the large chainwheel, and the other end with a rivet half out, pull into position. The tension should be neither slack nor over-tight. (It is usually necessary to remove a few links from a new chain).



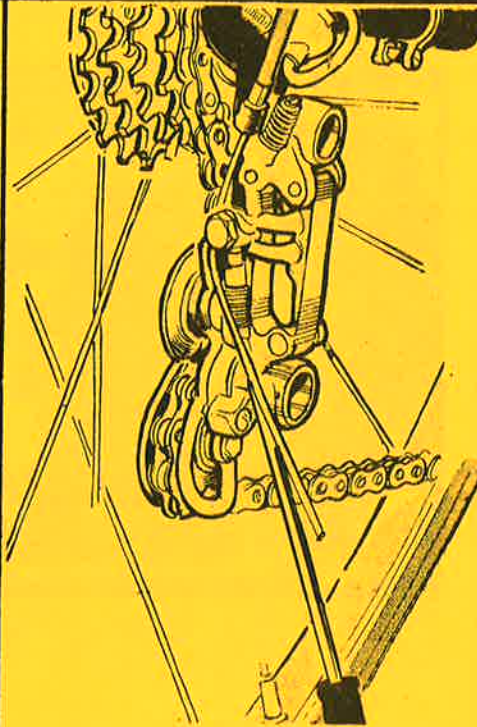
11 The chain is then secured with a Cyclo (as shown) or other rivetter. If the newly-secured link is stiff a little side pressure with the fingers will free the side plates.



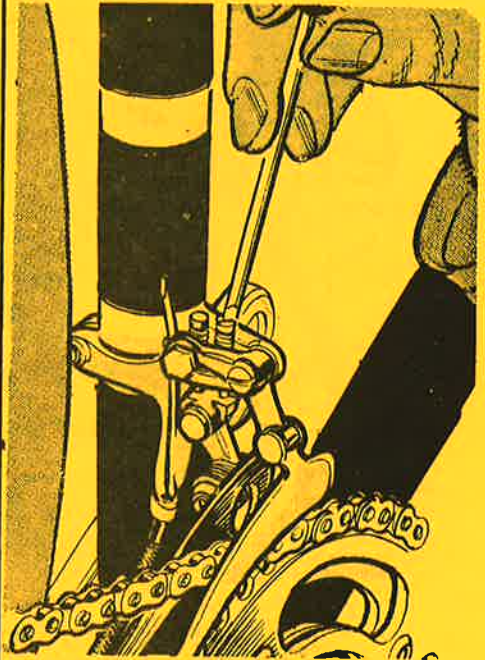
12 Assembly is now complete and ready for final adjustment.



13 The throw to the large sprocket is checked and adjusted as necessary using a small screwdriver.



14 And similarly, the throw to the small sprocket is checked and adjusted. Settings at the rear are now complete and extraneous cable ends can be clipped off.



15 Then adjust the throw on the front changer; both adjusting screws are clearly visible side by side.

WE HAVE INCLUDED SEVERAL SECTIONS SUCH AS ABOVE FOR YOUR GUIDANCE.

IF YOU NEED ANY REPAIRS FOR ANY MAKE OF BICYCLE, PLEASE WRITE US FOR ESTIMATE OF SAME. WE HAVE ONE OF THE MOST COMPLETE REPAIR SHOPS IN THE COUNTRY. WE ONLY HIRE EXPERTS. MOST OF OUR MEN HAVE BEEN WITH US FOR 10 TO 25 YEARS.

Big Wheel, Ltd.

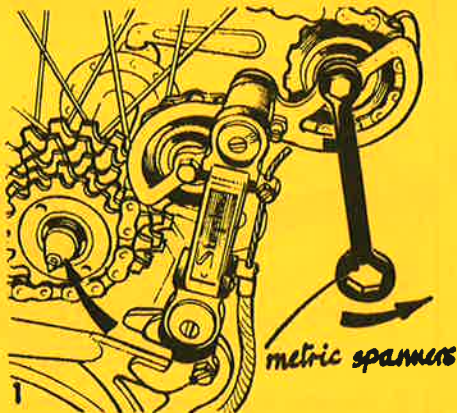
Bicycle Specialist

◆ SERVICE ◆

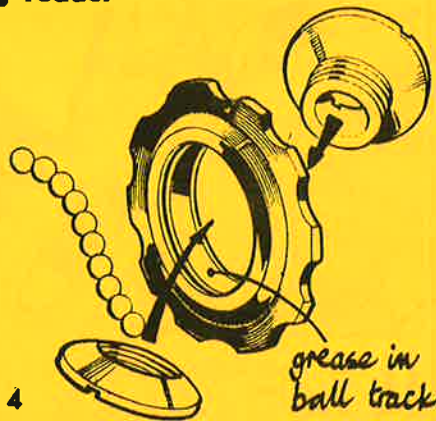
310 HOLLY STREET
DENVER, COLORADO 30220

STRIPPING THE PRESTIGE GEAR

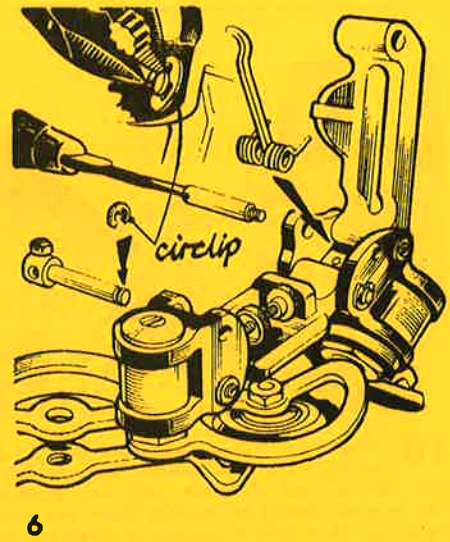
Dismantling and routine maintenance are described below for the young reader



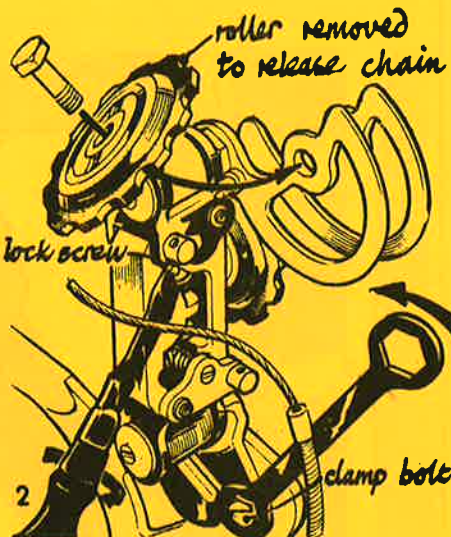
Change derailleur into top gear, slacken wheel and remove it from frame. Unless the chain is to be removed for a thorough cleansing, detach it from derailleur by removing lower jockey from cage.



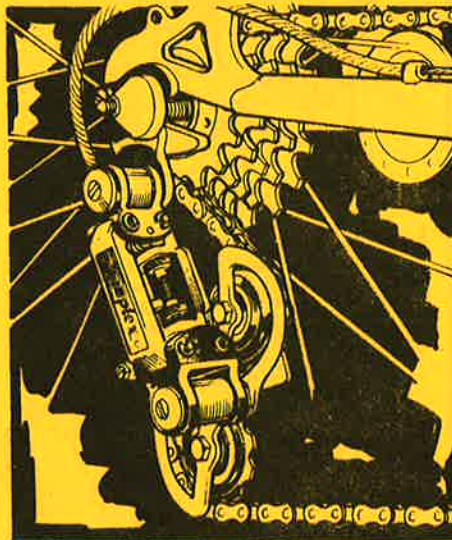
The nylon rollers have conventional bearings. These should be washed clean of grit and water with paraffin. The balls can be stuck back in place with grease to facilitate assembly.



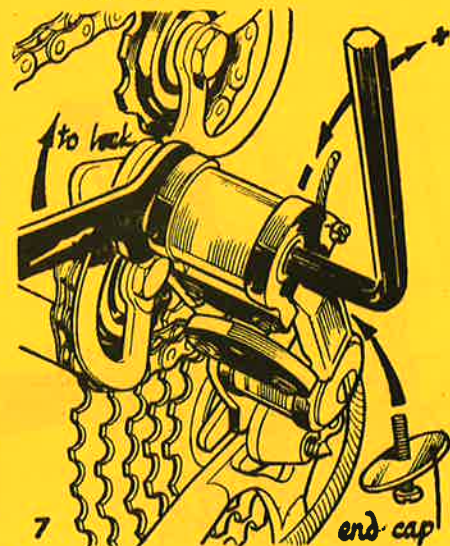
The derailleur operating spring is removed by first hinging away the outer parallel arm, as shown. The anchor bolt's circlip can be easily prized off. The spring pivot pin is then unscrewed.



Ease derailleur into bottom gear, reducing cable tension then remove control cable by first slackening its lock screw. Loosen pivot arm clamp bolt, and now the derailleur can be removed.



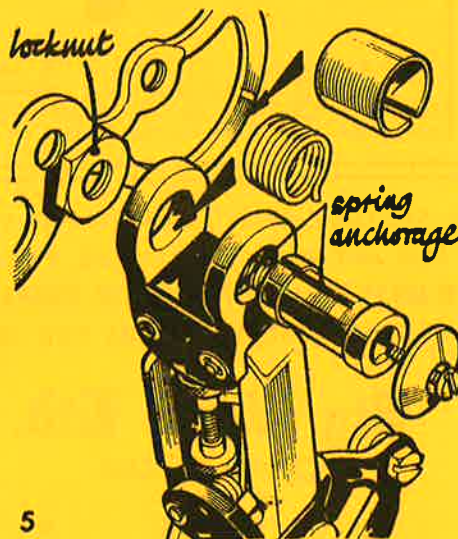
The Prestige derailleur is revolutionary because of its wide use of a plastic material—Delrin. The parallel arms, and pivot blocks, spring covers, and roller tyres, are all of Delrin.



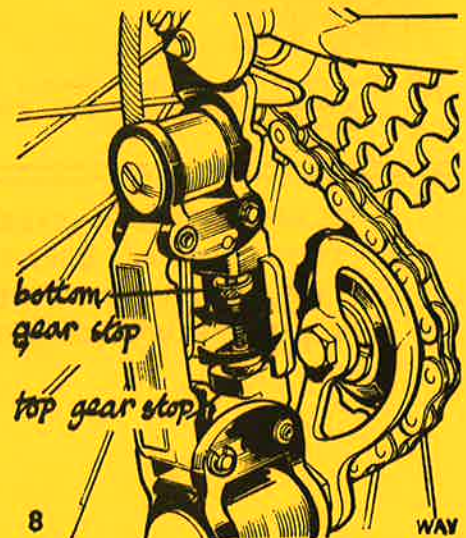
To adjust chain tension, use the Allen key as shown in the illustration above, tightening the locknut afterwards. Always keep chain tension to a minimum to reduce drag.



The main arm pivot spring is covered by a Delrin clip which can be sprung off. The bearing is removed with an Allen key and spanner as shown.

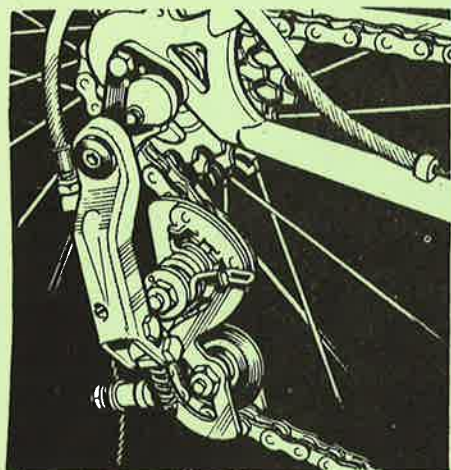


Jockey cage spring assembly is serviced similar to the main pivot. Reassembly calls for 1/2-turn of the Allen key, clockwise, for correct tension.



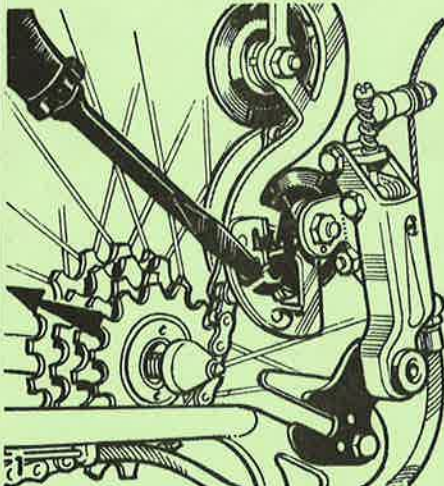
Derailleur traverse is adjusted by two thumbscrews. Control cable tension is set at the adjuster on the control lever.

STRIPPING THE ALLVIT GEAR

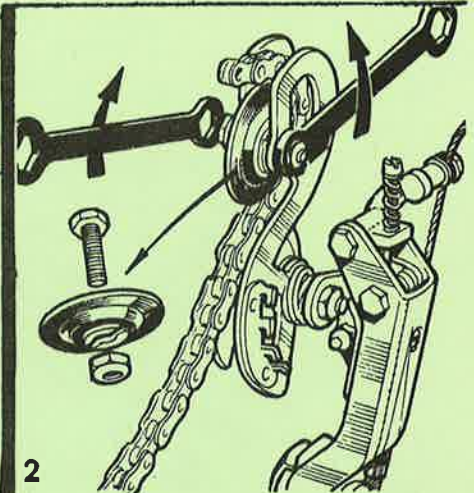


This derailleure operates on the currently popular parallelogram principle. Apart from the nylon pivot block, it uses conventional materials. The sprocket range accommodated is 15 teeth, and it can be adjusted to suit 3, 4, or 5 speed blocks.

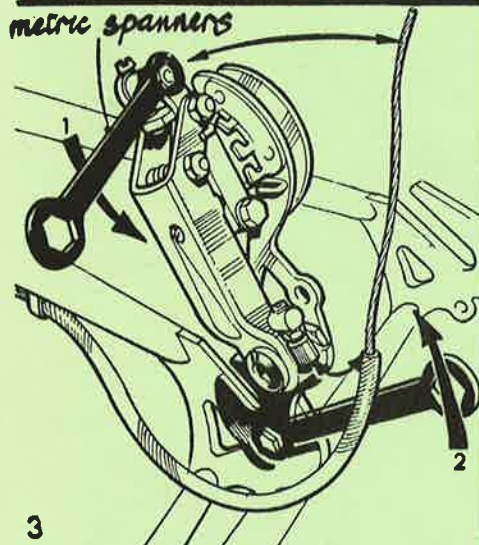
DISMANTLING THE ALLVIT 1900 AND ROUTINE MAINTENANCE



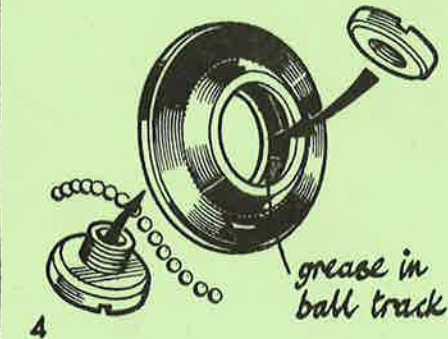
Put the derailleure into top gear, then slacken the rear wheel and remove it from the frame. Now carefully back the jockey cage spring out of its seating with a screwdriver, as shown.



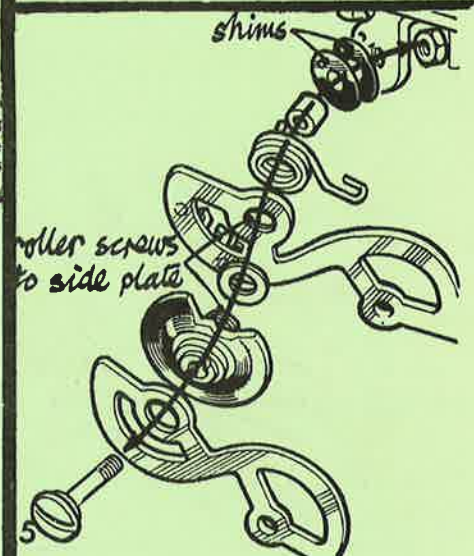
Unless the chain is to be cleaned, do not remove it, but to detach the gear take out its lower roller. Metric spanners are needed for all these nuts.



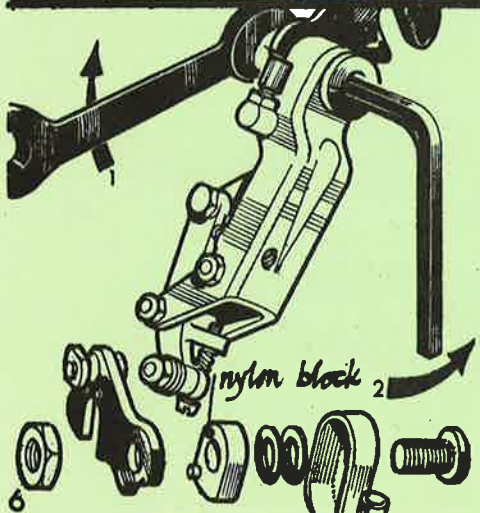
Now undo the control cable, which will not be tensioned, as the derailleure is in top gear. The last job before removing it from the frame is to slacken the pivot arm clamp bolt.



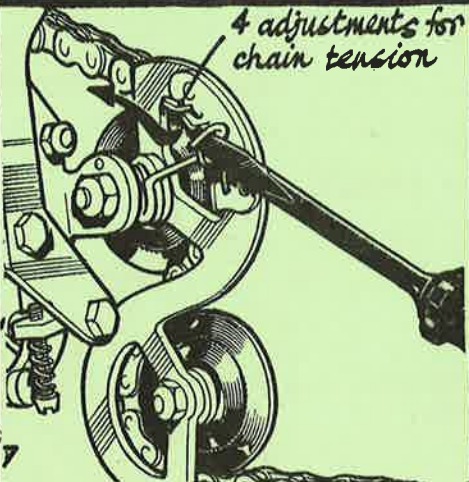
The most common maintenance job consists of cleaning the rollers. After a wash in paraffin, smear some grease on the roller ball track and stick the 15 balls back. It is then easy to screw in the cones.



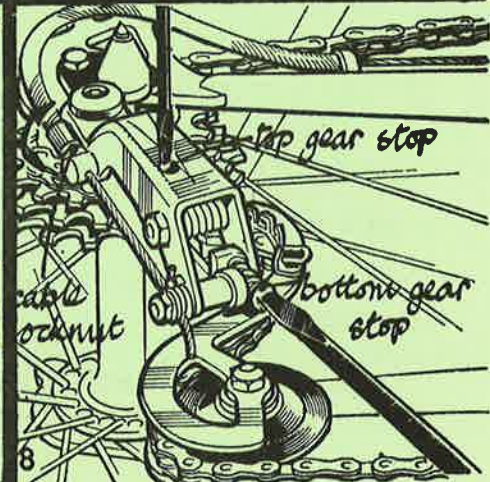
The upper roller is screwed to the outer cage plate, and is removed with a 1/2 in. screwdriver. Adjust the rollers so that a slight lateral movement is apparent, or they will seize up under dry conditions.



If it should be necessary to strip down the gear arm pivot, undo the locknut first. A metric Allen key is needed to remove the pivot bolt.



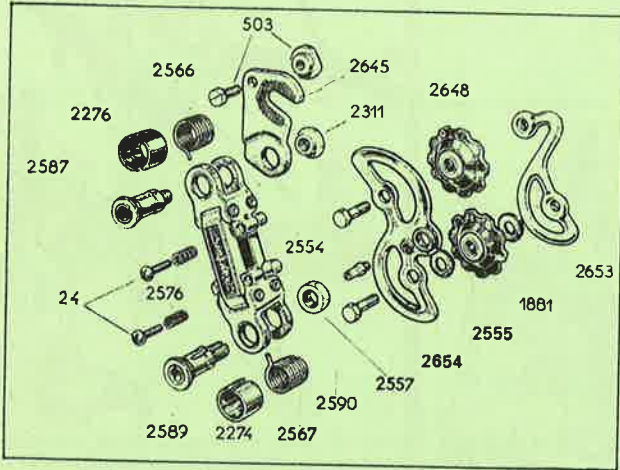
To adjust the chain tension, hook out the spring with a screwdriver. The illustration shows the tension being increased. Never run the chain too tight, as this will cause unnecessary drag.



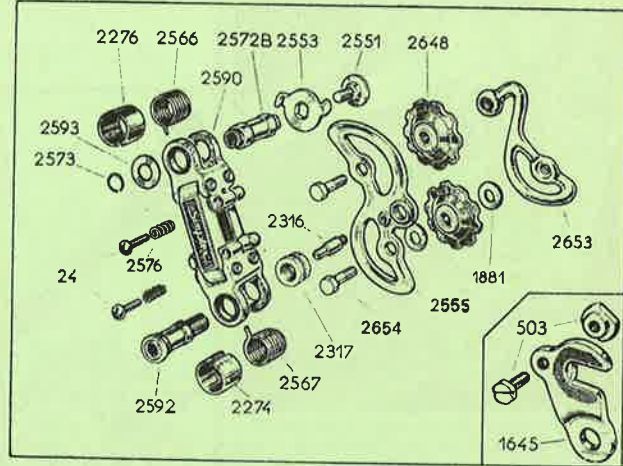
Gear cable slack is taken up by screwing the adjuster in the direction of the arrow, and then locking the nut. Gear traverse is set by the two adjustable stop screws shown in the illustration.



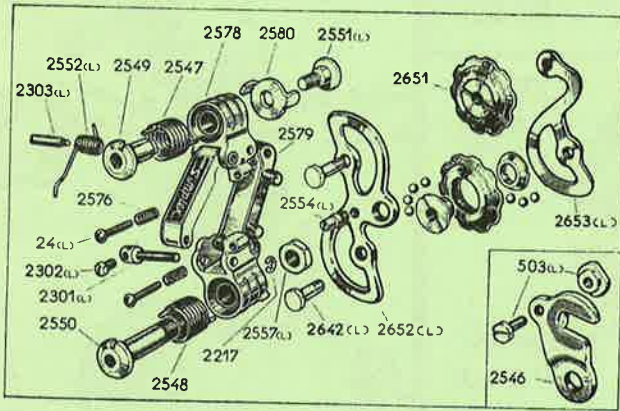
SIMPLEX



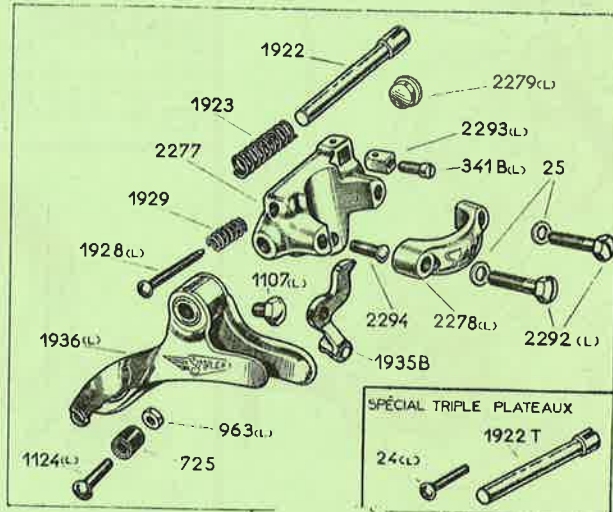
"PRESTIGE" MODEL 537/P—CODE 1110



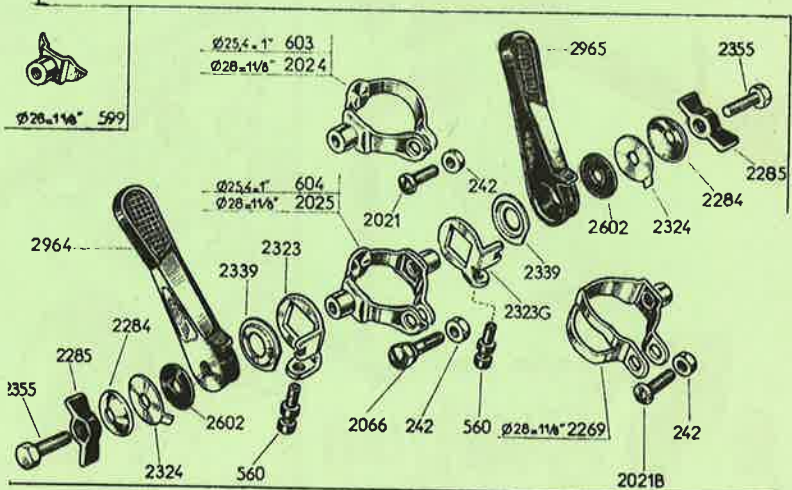
"PRESTIGE" MODEL 537/N—CODE 1111



"PRESTIGE" GEAR MODEL "CRITERIUM"



"PRESTIGE" FRONT CHANGER MODEL AV-223



We stock a complete line of **SIMPLEX** products.

Write for prices of items not pictured.

Numbers for complete assemblies are listed below the picture.

COSCO

BICYCLE RACKS

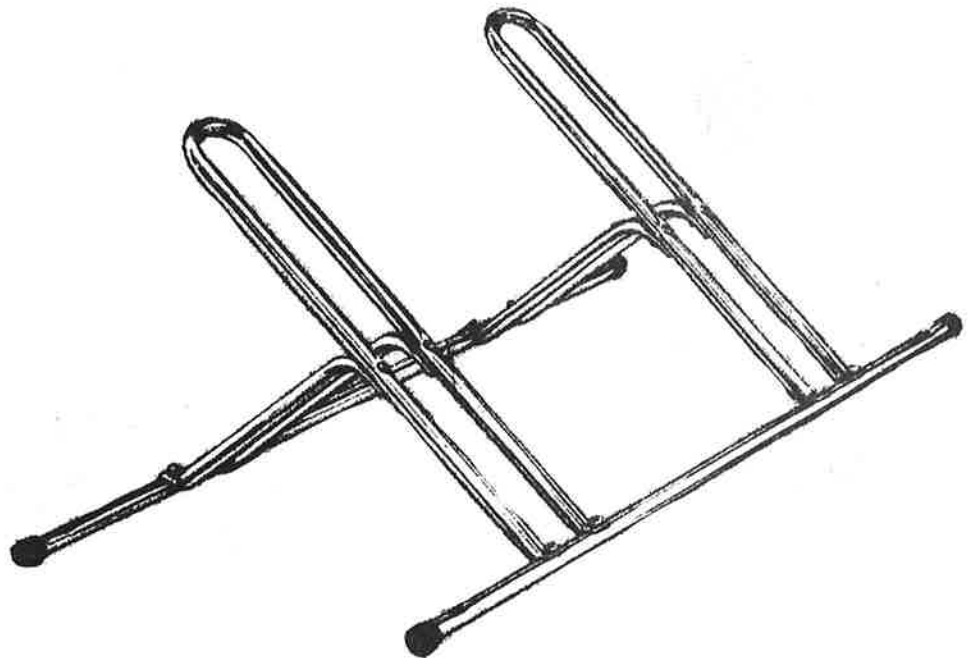
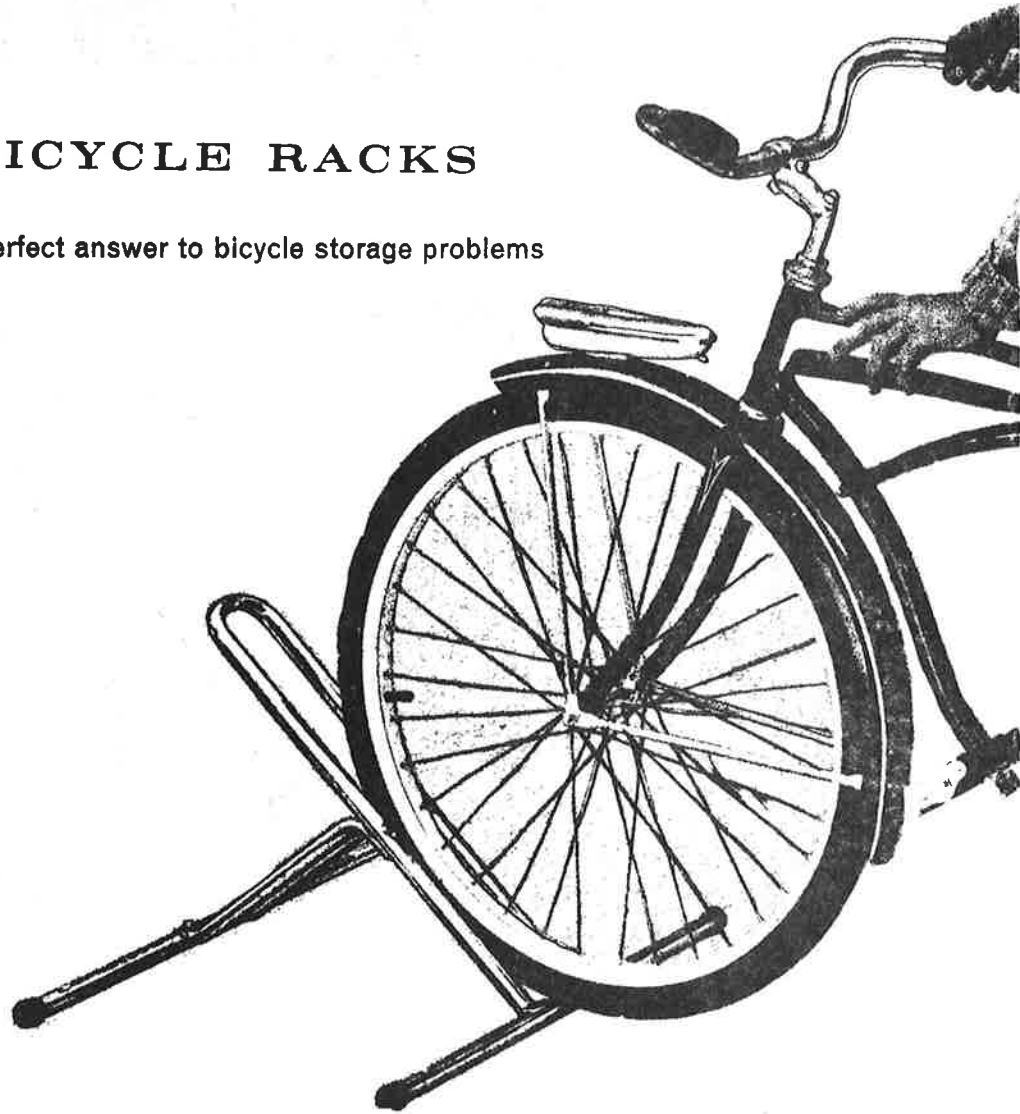
- Convenient, smartly styled! The perfect answer to bicycle storage problems

Ideal for use in the garage, driveway, yard or porch, these sturdily constructed bicycle racks are chrome plated, rust resistant. Fit bicycles of all sizes, including imports. Gleaming finish stays bright for years . . . wipes clean with a damp cloth.

Racks can be used on floor or mounted to wall.



51-A Single Rack: Over-all width, 20 $\frac{1}{2}$ " ; over-all height (floor position) 15". Molded rubber tips. Shipped KD, 3 $\frac{1}{2}$ lbs.



MASI



TRULY THE WORLDS FINEST BICYCLE



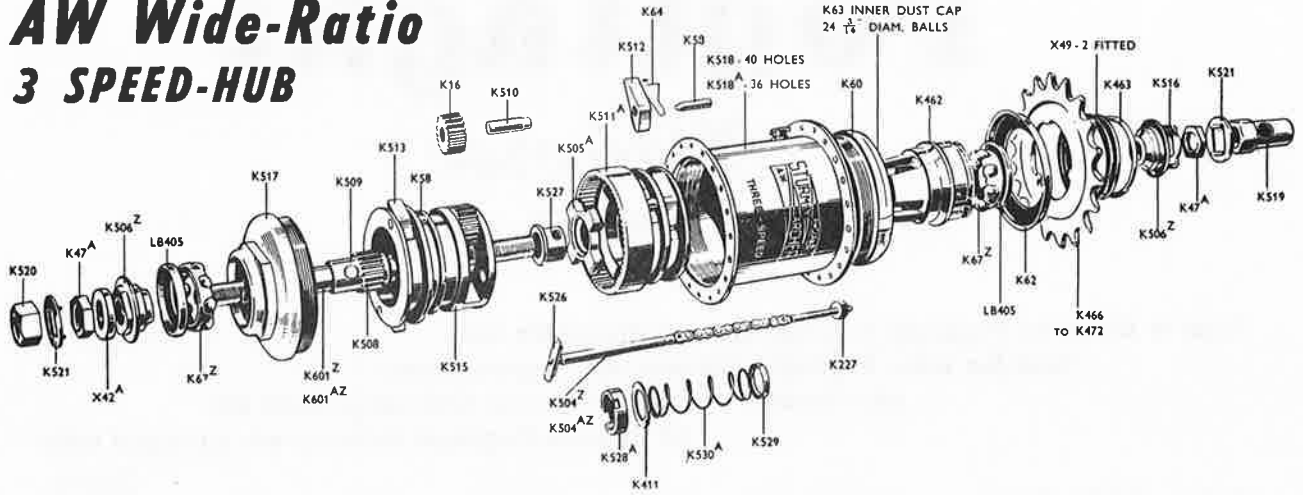
MODELS AVAILABLE: Masi "SPECIAL" Road Bicycle.

Masi "GRAN CRITERIUM" Short-Course Racing Bicycle.

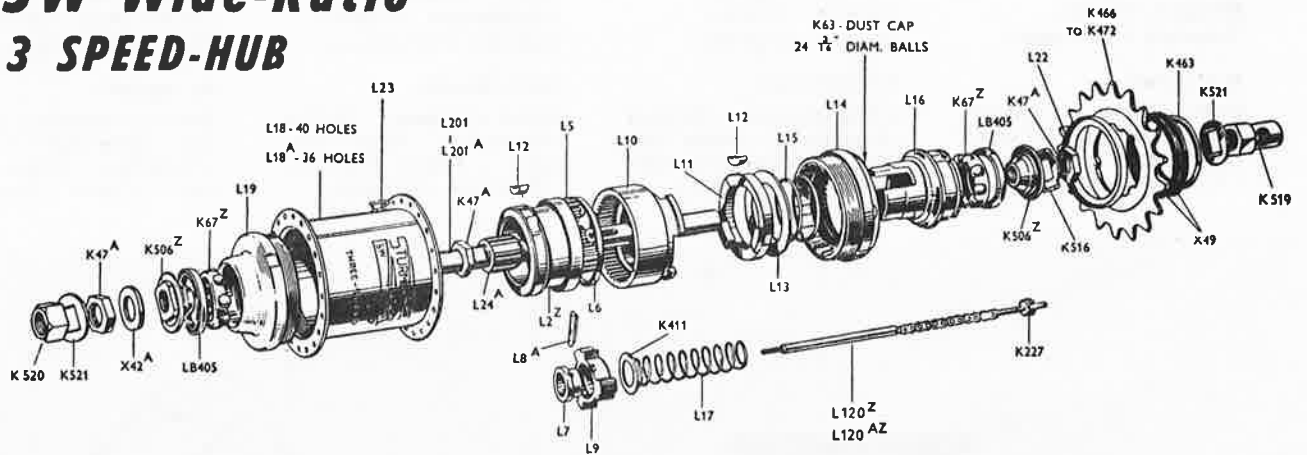
Either model full Campagnolo equipped including Campagnolo brakes.

PRICES UPON REQUEST

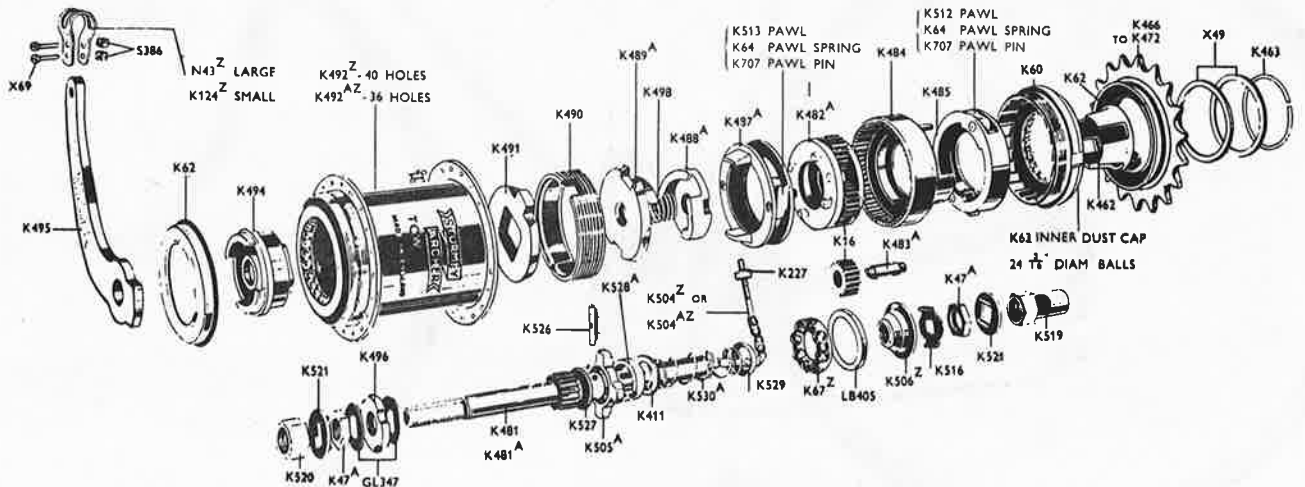
AW Wide-Ratio 3 SPEED-HUB



SW Wide-Ratio 3 SPEED-HUB



TCW Combined 3 SPEED-GEAR COASTER BRAKE



Pogliaghi

Italcorse

MILANO

Tutte le Biciclette Pogliaghi Italcorse sono equipaggiate con:

Tous les velos Pogliaghi Italcorse sont équipés avec:

Alle Farräder Pogliaghi Italcorse sind ausgerüstet mit:

All bicycles Pogliaghi Italcorse are equipped with:

Gruppi « Record - Campagnolo »
Tubolari « Clement »
Freni « Universal »
Selle « Unica »
Cerchi « Nisi »
Catene « Regina »
Manubri « Cinelli »
Tubazioni « Columbus »

Plateaux « Record - Campagnolo »
Pneux « Clement »
Freins « Universal »
Selles « Unica »
Jantes « Nisi »
Chaines « Regina »
Guidons « Cinelli »
Cadres « Columbus »

Schaltung « Record - Campagnolo »
Mäntel « Clement »
Bremsen « Universal »
Sättel « Unica »
Felgen « Nisi »
Ketten « Regina »
Lenkstangen « Cinelli »
Rahmen « Columbus »

Nuovo
Gears « Record - Campagnolo »
Tyres « Clement »
Brakes « Universal »
Saddle « Unica »
Rims « Nisi »
Chains « Regina »
Handle Bars « Cinelli »
Frame « Columbus »

A richiesta:

Selle « Brooks » - Catene « Brampton » - Cerchi « Duralca » - Cerchi « Fiamme » - Tubazioni « Reynolds »

Sur demande:

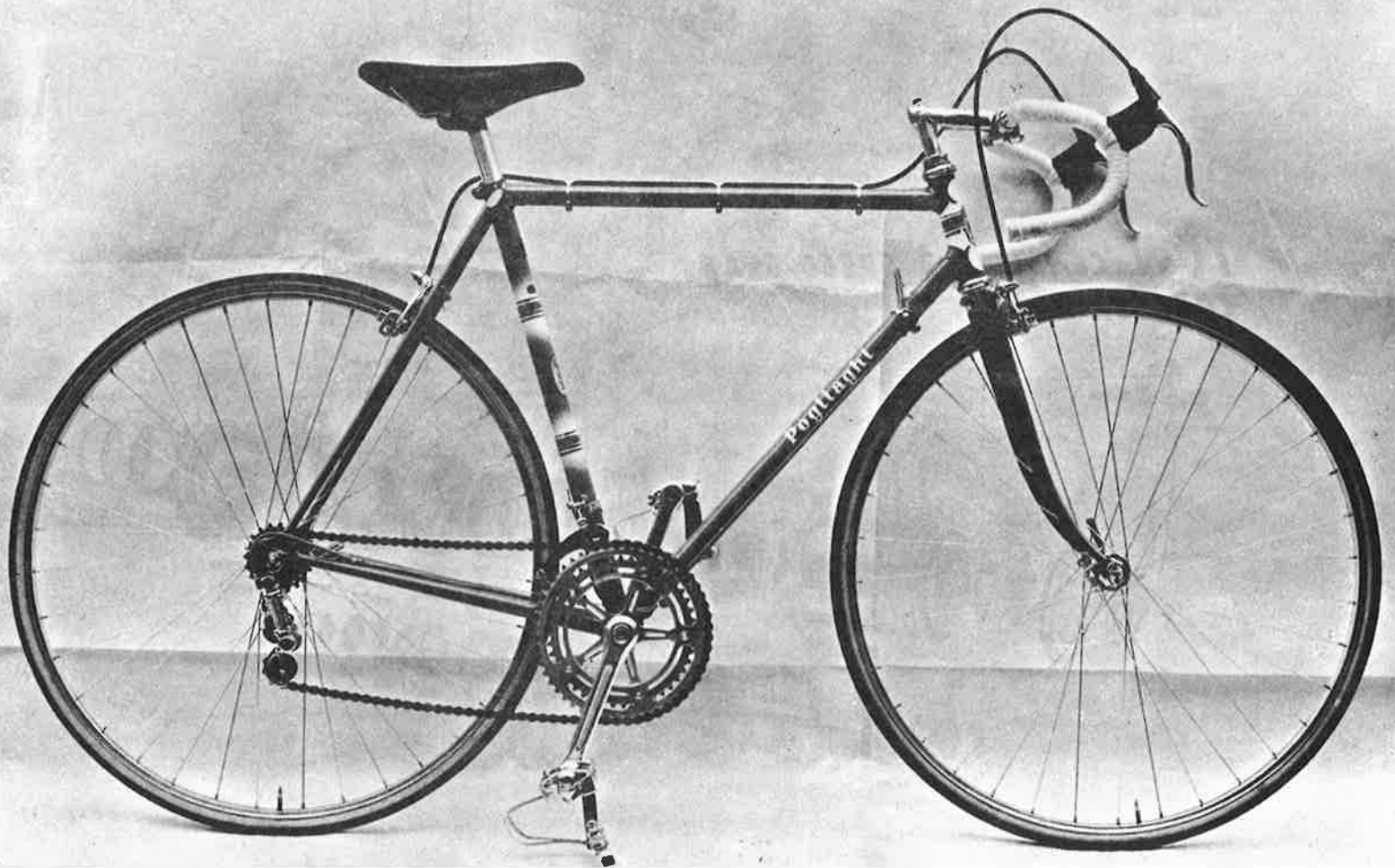
Selles « Brooks » - Chaines « Brampton » - Jantes « Duralca » - Jantes « Fiamme » - Cadres « Reynolds »

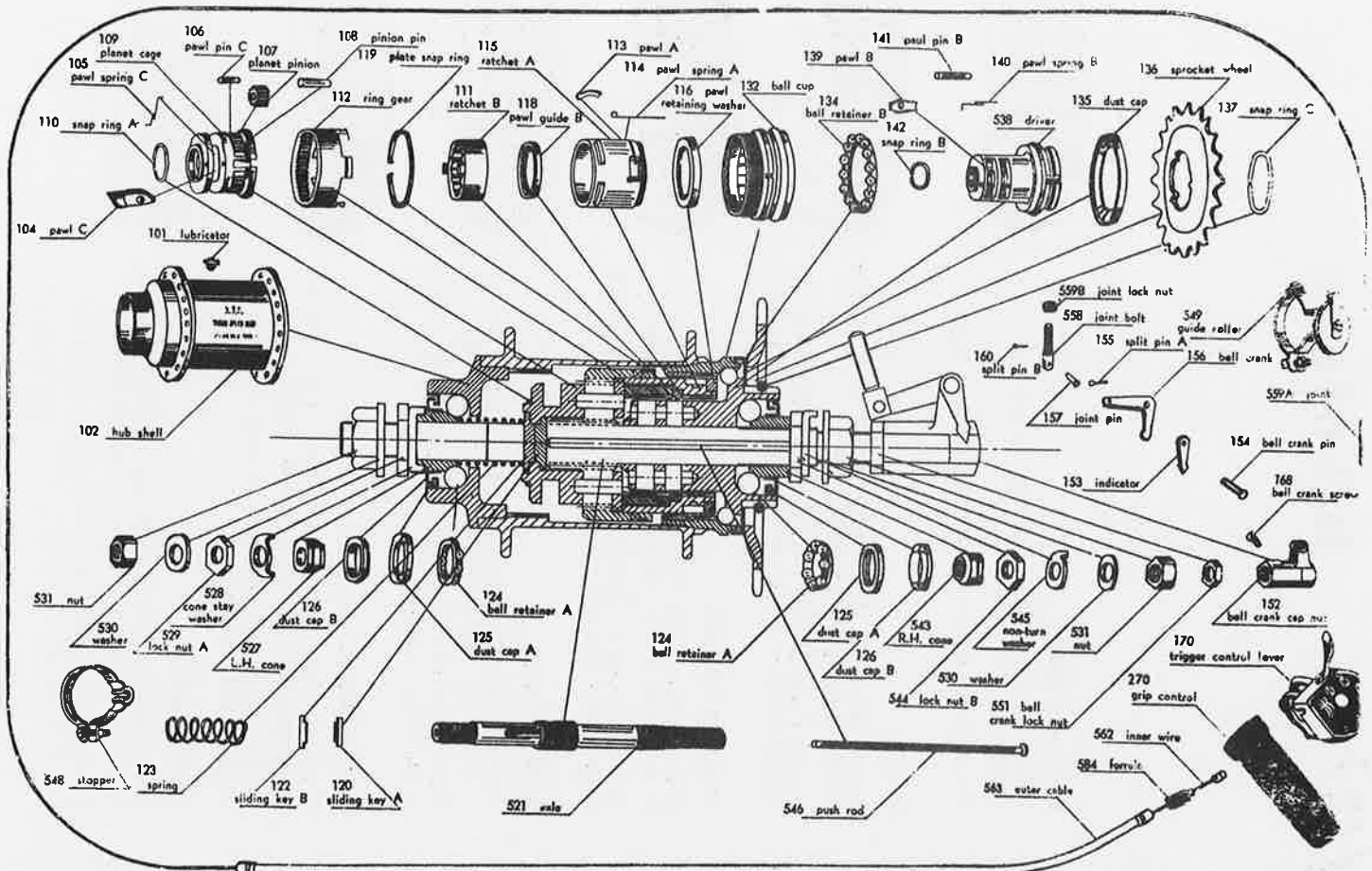
Nach Wunsch:

Sättel « Brooks » - Ketten « Brampton » - Felgen « Duralca » - Felgen « Fiamme » - Rahmen « Reynolds »

By request:

Saddles « Brooks » - Chains « Brampton » - Rims « Duralca » - Rims « Fiamme » - Frame « Reynold »





NO.	DESCRIPTION
101	Lubricator
102	Hub Shell (with left cup)
104	Pawl C
105	Pawl Spring C
106	Pawl Pin C
107	Planet Pinion
108	Pinion Pin
109	Planet Cage
110	Snap Ring A
111	Ratchet B
112	Ring Gear
113	Pawl A
114	Pawl Spring A
116	Pawl Retaining Washer
118	Pawl Guide B
119	Plate Snap Ring
120	Sliding Key A
521	Axle
122	Sliding Key B
123	Spring
124	Ball Retainer A
125	Dust Cap A
126	Dust Cap B
527	L. H. Cone
528	Cone Stay Washer
529	Lock Nut A
530	Washer
531	Nut
132	Ball Cup
134	Ball Retainer B
135	Dust Cap
136	Sprocket Wheel
137	Snap Ring C
138	Pawl B

SHIMANO 333 - 3 SPEED HUB & PARTS

NO.	DESCRIPTION
140	Pawl Spring B (R & L)
141	Pawl Pin B
142	Snap Ring B
543	R.H. Cone
544	Lock Nut B
545	Non-turn Washer
546	Push Rod
551	Bell Crank Lock Nut
548	Stopper
549	Guide Roller
270	Grip Control without cable
275	Grip Control Only
559C	Complete Cable
559A, 562, 563, 584	
170	Trigger Control Lever
152A	Complete Bell Crank
152, 153, 154, 155, 156, 157, 558, 559B, 160, 168	
A 1	Complete Planet Pinion
	104x2, 105x2, 106x2, 107x4, 108x4, 109, 110, 112, 119
A 2	Complete Clutch
	111, 113x2, 114x2, 115, 116, 118
A 3	Complete Driver
	538, 139x4, 140x4, 141x2, 142
	Shimano 333 3 Speed Hub Complete.
	36 or 40 Hole (Specify)

44 PRECISION PARTS MAKE THE SHIMANO 333 - THREE SPEED HUB



20

GRANSPORT VULCAN

Boyau pour entraînement; chape noire goudronnée.
Tubular for training; black mixed tread.



21 B

BUTYL

Boyau pour entraînement; chape noire goudronnée; chambre à air en butyl.
Tubular for training; black mixed tread; butyl inner tube.



21

LEONE

Boyau pour entraînement; chape noire goudronnée.
Tubular for training; black mixed tread.



22

LEONE

Boyau pour entraînement; chape noire goudronnée; flancs noirs.
Tubular for training; sidewalls covered with black rubber, black mixed tread.



23

LEONE

Boyau pour entraînement; chape noire goudronnée; flancs noirs.
Tubular for training; sidewalls covered with black rubber, black mixed tread.



31

SPECIALISSIMO

Boyau vulcanisé pour course; chape noire lignée.
Vulcanised racing tubular; black ribbed tread.



32

SPECIALISSIMO

Boyau vulcanisé pour course; chape noire goudronnée.

Vulcanised racing tubular; black mixed tread.



33

SUPER

Boyau vulcanisé très léger pour course; double chape noire lignée et profil para.

Ultralight vulcanised racing tubular; double black ribbed tread and special rubber protection strip.



60

TOUR DE FRANCE

Boyau spécial pour course, collé à main; carcasse en coton mako; chape noire goudronnée.

Racing special tubular; hand made, mako cotton stage; black mixed tread.



61

GIRO D'ITALIA

Boyau spécial pour course, collé à main; carcasse en coton mako; chape noire goudronnée.

Racing special tubular; hand made, mako cotton stage; black mixed tread.



61 M

GIRO D'ITALIA

Boyau spécial pour course, collé à main; carcasse en coton mako; chape noire lignée.

Racing special tubular; hand made, mako cotton stage; black ribbed tread.



62

CRITERIUM

Boyau spécial pour course, collé à main; carcasse en coton mako; chape noire goudronnée.

Racing special tubular; hand made, mako cotton stage; black mixed tread.

D'Alessandro

tubulars



62 M

CRITERIUM

Boyau spécial pour course, collé à main; carcasse en coton mako; chape noire lignée.
Racing special tubular; hand made, mako cotton stage; black ribbed tread.



62 R

CRITERIUM

Boyau spécial pour course, collé à main; carcasse en coton mako; chape rouge lignée.
Racing special tubular; hand made, mako cotton stage; orange ribbed tread.



62 T

CRITERIUM

Boyau spécial pour course, collé à main; carcasse en coton mako; shape empreinte toile.
Racing special tubular; hand made, mako cotton stage; black matt tread.



64

CRITERIUM SETA

Boyau spécial pour course, collé à main; carcasse en soie naturelle; chape noire lignée.
Racing special tubular; hand made, natural silk stage; black ribbed tread.



66

IMPERFORABLE

Boyau spécial pour course, collé à main, carcasse en coton mako; double chape noire goudronnée et profil para.
Racing special tubular; hand made mako cotton stage; double black mixed tread and special rubber protection strip.



67

IMPERFORABLE SETA

Boyau spécial pour course, collé à main, carcasse en soie naturelle; double chape noire lignée et profil para.
Racing special tubular; hand made natural silk stage; double black ribbed tread and special rubber protection strip.



71 L

PISTA

Boyau extra spécial pour piste en bois, collé à main; carcasse en soie naturelle; chape noire polie luisante.
Extra special tubular for wooden track; hand made, natural silk stage; for ultralight type, for light type; black smooth tread.



71

PISTA

Boyau extra spécial pour piste en bois, collé à main; carcasse en soie naturelle; chape noire polie luisante.



72

PISTA

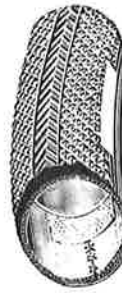
Boyau extra spécial pour piste en bois, collé à main, carcasse en coton mako; chape noire polie luisante.



73

PISTA

Boyau extra spécial pour piste en ciment, collé à main, carcasse en coton mako; chape noire empreinte toile.
Extra special tubular for cement track; hand made, mako cotton stage; black matt tread.



81

NORMAL CROSS

Boyau vulcanisé; chape noire spéciale pour cyclo-cross.
Vulcanised tubular; black special tread for cyclo-cross.

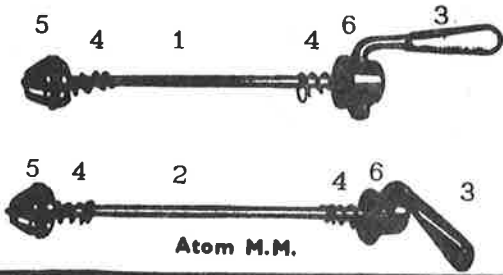


82

SUPER CROSS

Boyau spécial pour course cyclo-cross, collé à main, carcasse en coton mako; chape noire pointe diamant pour cross.
Special cyclo-cross racing tubular, hand-made, mako cotton stage, black tread diamond point for cross.

ATOM and NORMANDY QUICK RELEASE UNIT PARTS



NO.	Description
1	Front Axle Rod
2	Rear Axle Rod
3	Lever
4	Spring
5	Axle Nut
6	Lever Bush

ATOM and NORMANDY AXLE SETS and PARTS



USED ON
GITANE &
OTHER MAKE
BICYCLES

Front Axle 5/16"---
Front Axle Cone---
Front Lockwasher---
Front Lock Nut---

Rear Axle 3/8"----
Rear Axle Cone---
Rear Axle Bushing---
Rear Lock Nut----

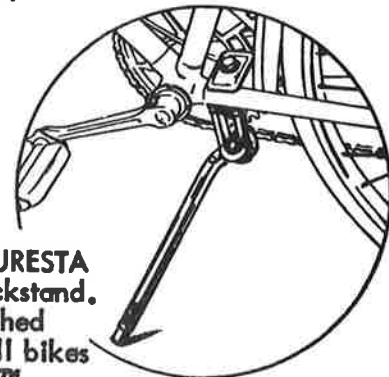
Kickstands

ESGE



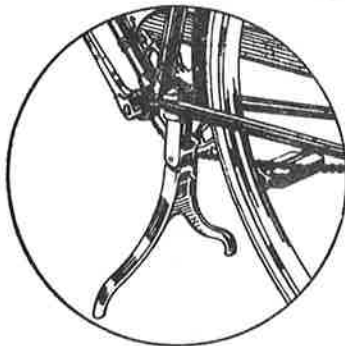
#285 ESGE
light alloy kickstand.
Complete with top
plate and two bolts.
For 26" and 27" bikes
with markings for 20"
and 24" bikes.

XPT Adjustable



#XPT/A SHURESTA
adjustable kickstand.
Made of polished
alloy. Fits all bikes
from 20" to 27".

Available with Universal Top Plate
or RALEIGH Top Plate. Please
Specify When Ordering.



SHURESTA "V" CYCLE STAND



Big Wheel, Ltd.

Bicycle Specialist

◆ SERVICE ◆

310 HOLLY STREET
DENVER, COLORADO 80220

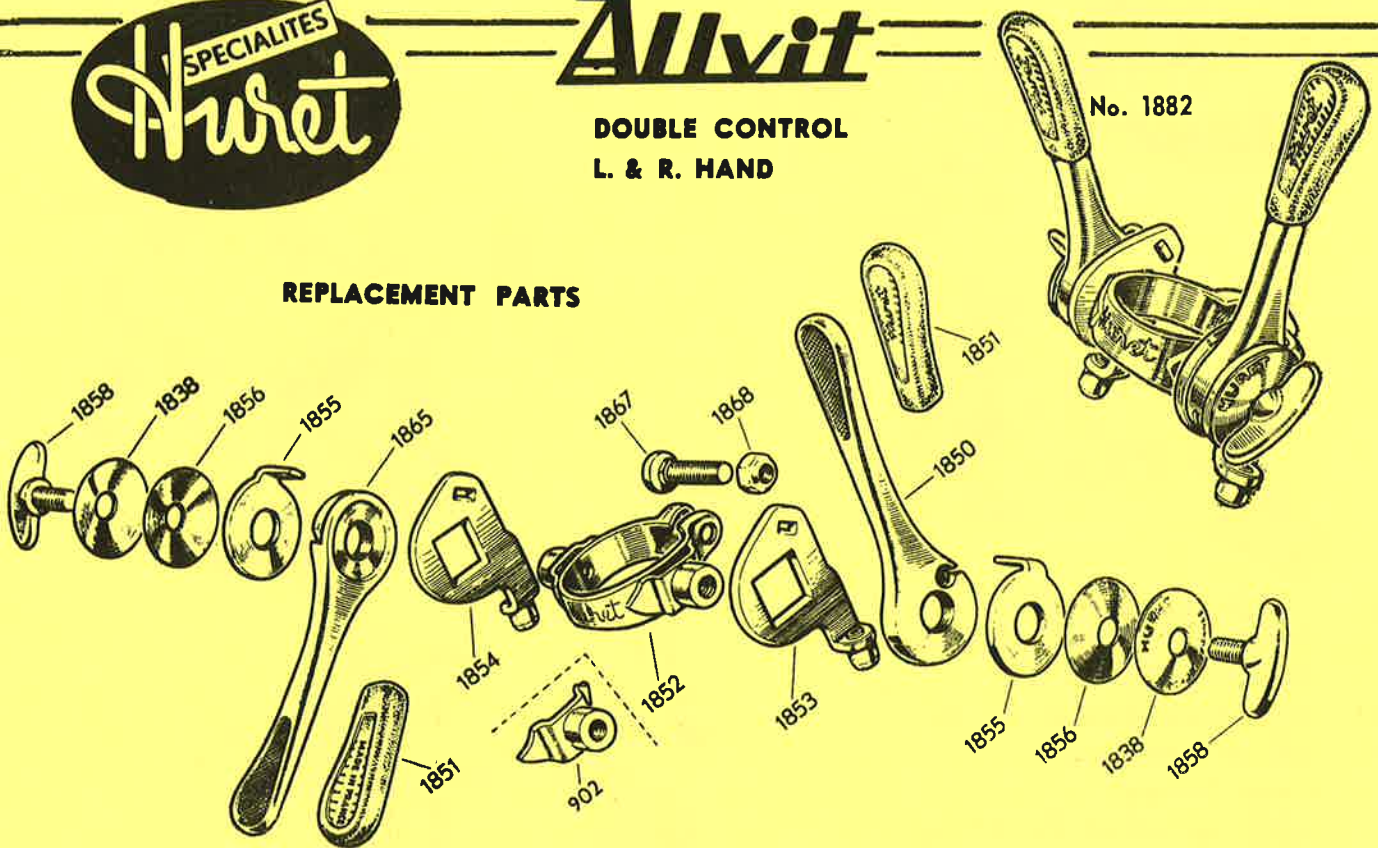


Allvit

**DOUBLE CONTROL
L. & R. HAND**

No. 1882

REPLACEMENT PARTS



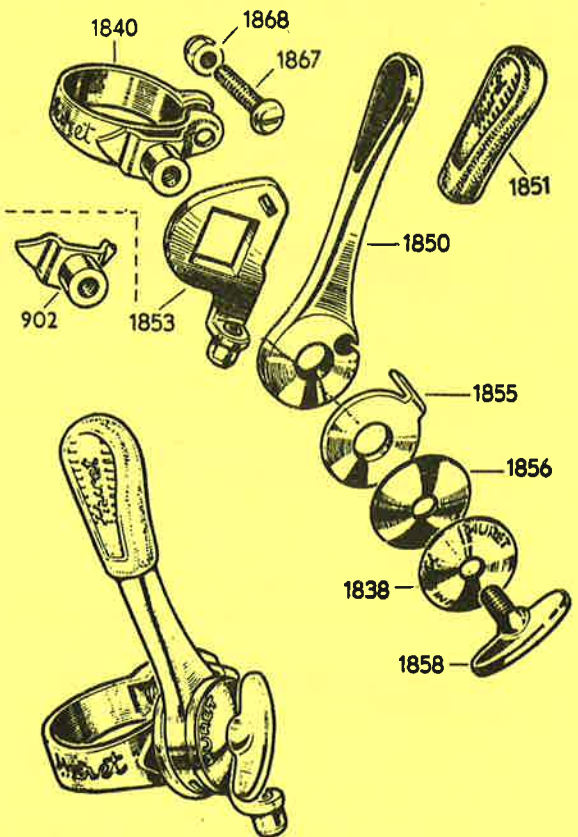
**INNER CABLE
AND OUTER CABLES**



**HURET - SINGLE and DOUBLE
CONTROL LEVER SPARE PARTS**

No.	Description
1838	Namplate Cover
1840	Clip for Sgle. R.H. Lever
1850	Rt. Hand Lever Arm
1851	Rubber Cov. for Lvr. Arm
1852	Clip for Dbl. Lever Cont.
1853	Rt. Hand Mtg. Plate
1854	Left Hand Mtg. Plate
1855	Eared Lockwasher
1856	Spacer Spring
1858	Wing Screw
1865	Left Hand Lever Arm
1867	Clip Screw
1868	Clip Nut
1880	Cable for Allvit-Hvy. Duty
1883	Casing for Cable-Hvy. Dty.
115	Inner Wire-Standard
178	Cable Casing-Standard
902	Brazed on Clip

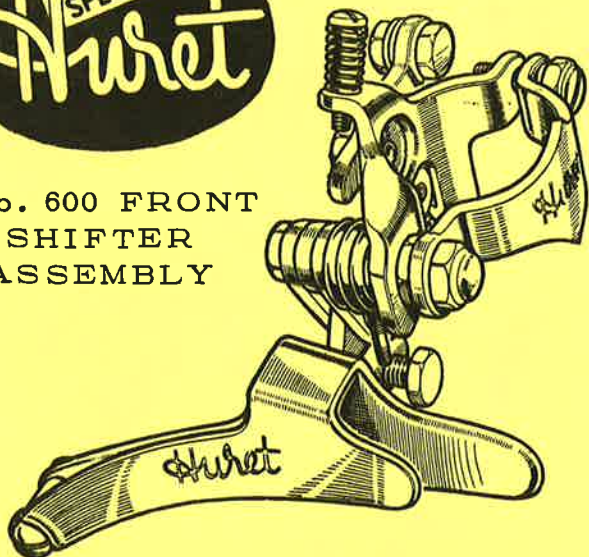
SINGLE CONTROL - R.H.



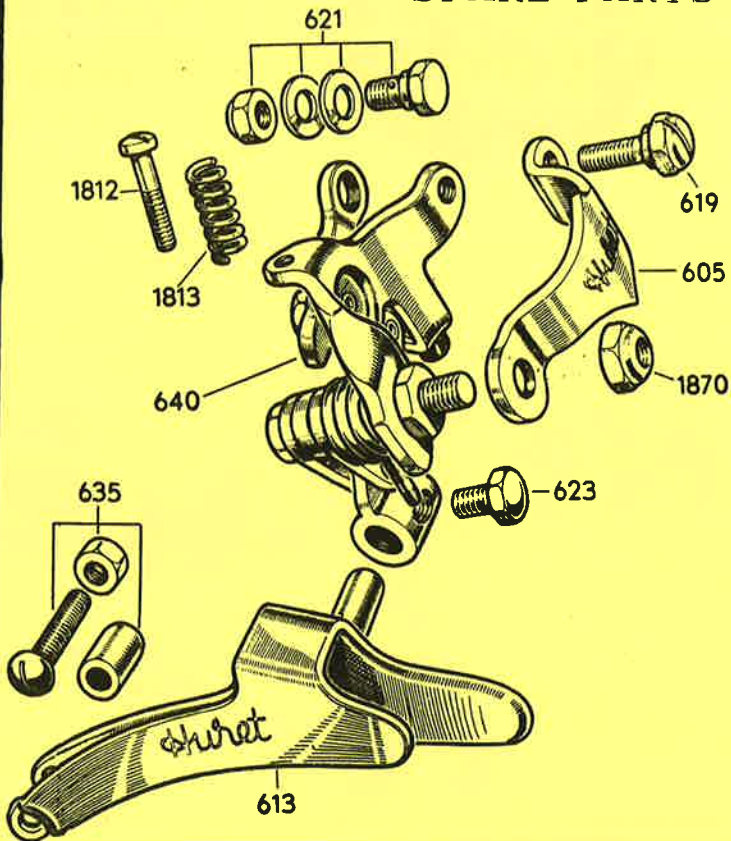
No. 1884



No. 600 FRONT SHIFTER ASSEMBLY



HURET - No. 600 ALLVIT CABLE-OPERATED FRONT SHIFTER SPARE PARTS



No.	Description
605	Front Mounting Plate.....
613	Front Cage
619	Mounting Plate Screw
621	Cable Fastner
623	Cage Screw
635	Cage Closing Assembly ...
640	Body
1812	Adjusting Screw
1813	Adjusting Spring
1870	Mounting Plate Nut

SPECIAL HURET DERAILLEUR SERVICING TOOLS (Chrome Vanadium Steel)



No. 650-Setting Tool & Spanner Combined 17mm



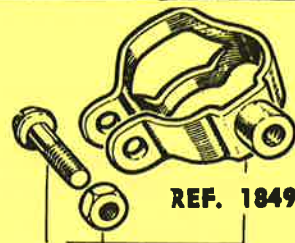
No. 651-Two-Way Spanner 8mm and 9mm Closed



No. 652-Allen Key 6mm With 8mm Tubular Box Spanner End



Front Huret Rigid Lever Operated Derailleur



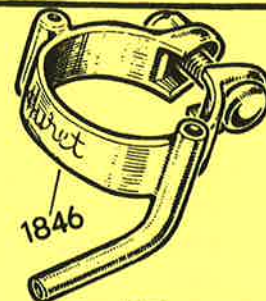
Control Lever Clip #1849 Left Hand for Fitting Over Brazed on Right Hand Boss



CABLE CLIP.



CHAINSTAY CABLE STOP.

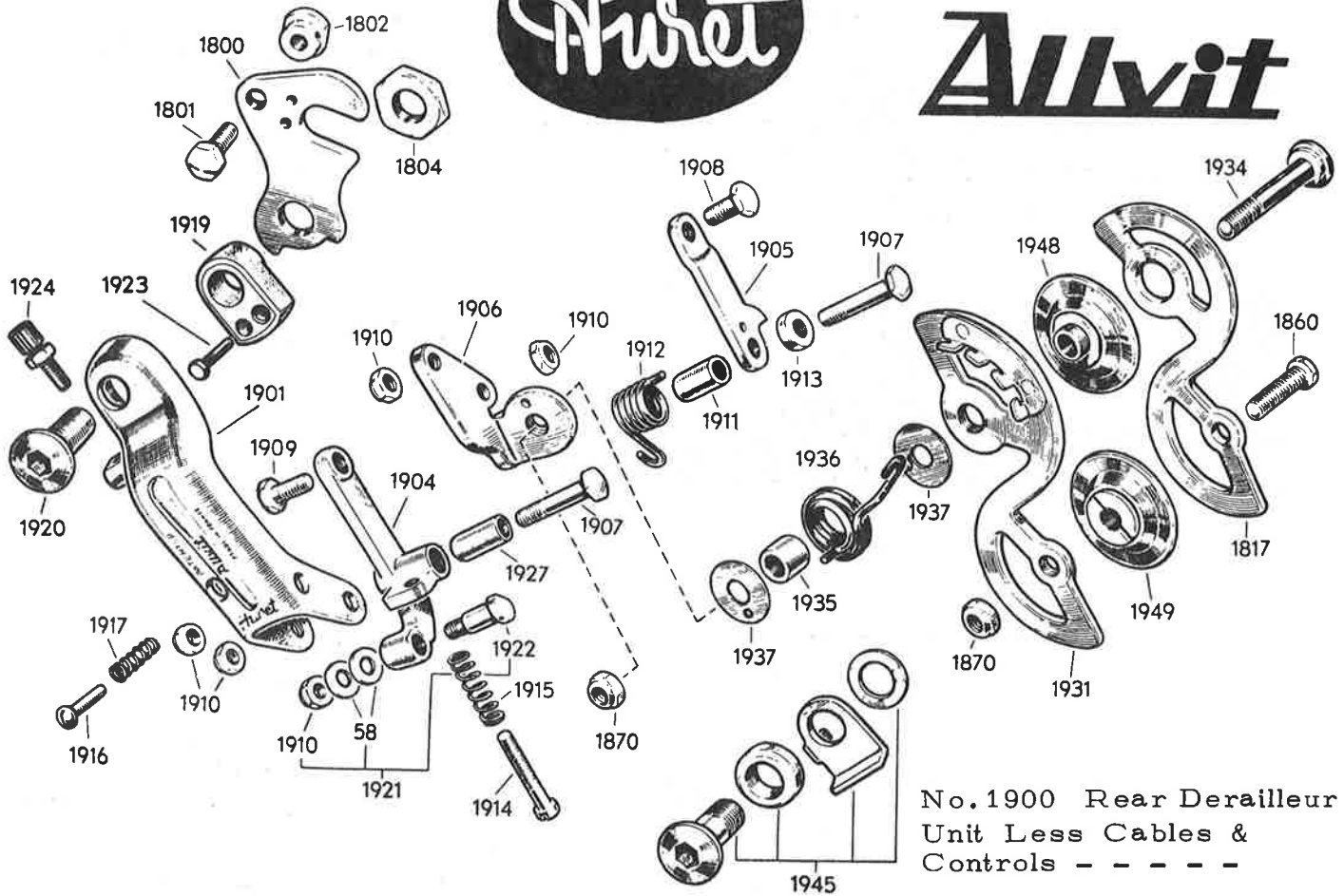


D/T TUNNEL WITH CABLE STOP.



No. 1900

Allvit



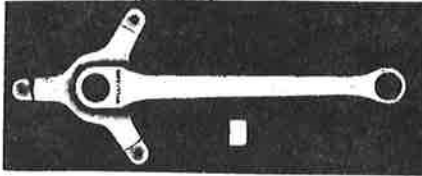
No. 1900 Rear Derailleur Unit Less Cables & Controls - - - -

HURET - No. 1900 Allvit Derailleur Spare Parts

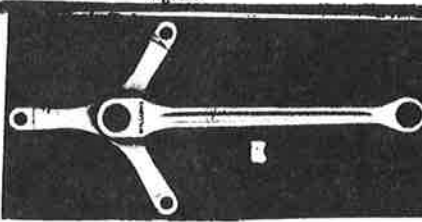
<u>No.</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>
1800	Adapter	1914	Adjustment Screw
1801	Adapter Screw	1915	Adjustment Spring
1802	Adapter Nut	1916	Adjustment Screw
1804	Nut for Adapter Mtg. Bolt	1917	Adjustment Spring
1817	Inner Cage Plate	1919-1923	Stop Plate
1860	Lower Idler Wheel Bolt	1920	Adapter Mounting Bolt
1870	Nut for Lower Idler Whl. Bolt	1920c	Adapt. Bolt for Camp.
1901	Main Arm	1921	Bolts Cpt. (1910-58-1922)
1904	Lever Arm	1924	Adjusting Barrel
1905	Movement Arm Inner Stop	1927	Lever Arm Shim
1906	Cage Mounting Plate	1931	Outer Cage Plate
1907	Bolt	1934	Cage Mounting Bolt
1908	Bolt	1935	Bushing for Cage Spg.
1909	Bolt	1936	Cage Spring
1910	Nut	1937	Washer for Cage Mtg. Bolt.
1911	Bushing for Movement Arm	1945	Adpt. set for Cpglo. Fk. ends
1912	Spring for Movement Arm	1948	Upper Idler Wheel
1913	Spacer	1949	Lower Idler Wheel

Support the A.B.L. .

WILLIAMS CHAINWHEELS AND CRANKS



Racer (LWR).
High-tensile lightweight racer. 6½" n.g.c.c.



1232
High-tensile super lightweight. 6½" n.g.c.c. fluted. To fit C.1232 wheel and C.1200 wheel with sleeve fixing.



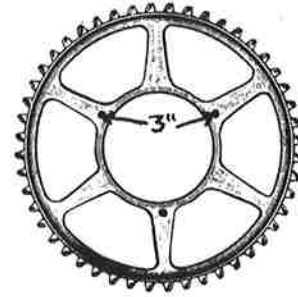
Half-Round (HR.)
4½", 5½", 6½", 7" n.g.c.c. and g.c.c.



Crank Fixing Bolts for WILLIAMS Sprockets



Square Fluted (SQ FD).
6½" n.g.c.c.



For WILLIAMS ENGLISH CRANKS available in 3/32" Sprockets with the following number of Teeth:
-36- -52- -58-

DOUBLE CHAINWHEELS SPROCKETS COMPLETE

M1331/F99 NICHLIN

High grade double chainwheel with sprockets riveted to crank arm for extra strength. Used on Raleigh's and Raleigh manufactured 10-speed bikes. 6 3/4" crank arm length for 1/2" x 3/32" chains

46T-48T Sprockets



STRONGLIGHT CRANKS

Type "Standard" No. 54

Three-pin, forged crank, of special high resistance steel. Available in 6¾" only; Clearance for Racing or Touring; Weight: ± 18 oz. p. pr.

STRONGLIGHT CHAINWHEEL

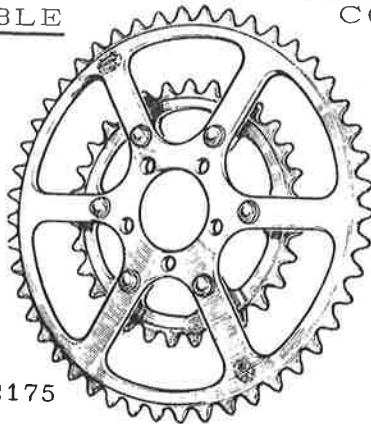
Type 54

Made of steel, chrome plated; this chainwheel fits all Stronglight 3-pin cranks; 44 - 52 TH, for chain either ½ x ⅛" or ½ x 3/32". Weight: ± 8 oz.

See Page 39 for Prices.

Same as Stronglight No. 55.

DOUBLE COMPLETE CHAINWHEELS



No. 2175

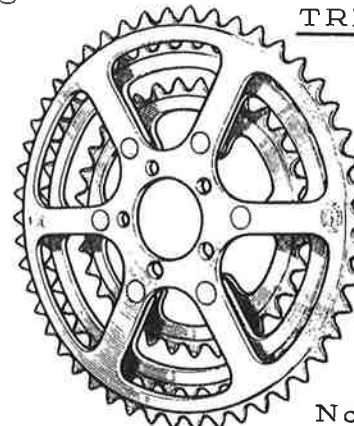
Complete 5-Pin Sprocket Adapter Sets for Continental and English Cranks. Available with the Following Number of Teeth:

36-52	38-52	40-52
42-52	44-52	46-52

No. 25


Crank Fixing Bolts for 2175 and 3175 Chainwheel Sets

TRIPLE

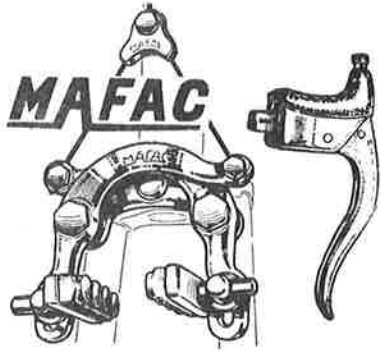


No. 3175

Complete 5-Pin Sprocket Adapter Sets for Continental and English Cranks. Available with the Following Number of Teeth:

36-46-52

MAFAC



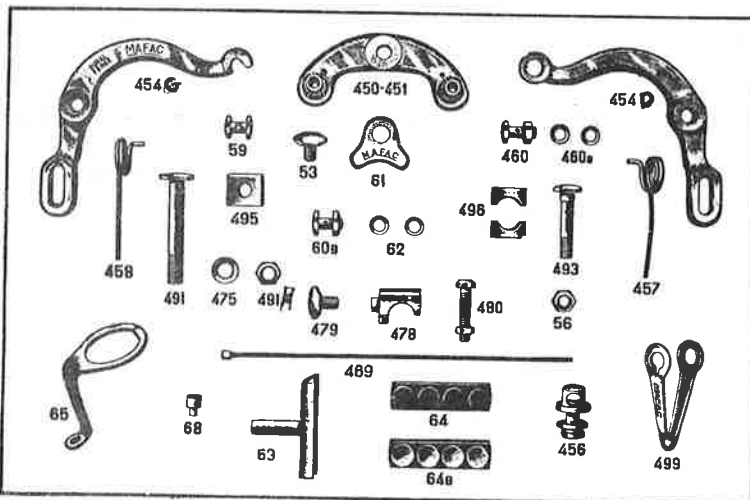
MAFAC RACER, TIGER & TOP 63 ALL SAME PRICE

Forged Aluminum Construction with Machined Steel Pivot Bolt and Bronze Bearings. Special Patented Brake Blocks—Extremely Effective in Rainy Weather.

The Special Patented Design of this Brake Allows for Extremely Powerful Braking Action with a Minimum of Effort. Because of the Light Pressure Utilized in the Functioning of the MAFAC Brake, Cable Brakage is Held to a Minimum.

FRONT COMPLETE—
REAR COMPLETE—

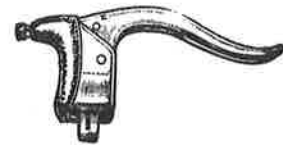
MAFAC RACER BRAKE PARTS



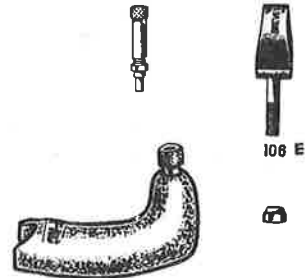
- 53 - Bolt
- 56 - Nut
- 59 - Eyebolt
- 60b - Eyebolt & Nut
- 61 - Cable Washer
- 62 - Washer
- 63 - Brake Shoe Holder
- 64 - Brake Shoe
- 64s - Brake Shoe Complete
- 65 - Front Cable Hanger
- 68 - Cable Fitting
- 450-451 - Brake Arm Bridge
- 454g - Outer Brake Arm
- 454d - Inner Brake Arm
- 456 - Brake Shoe Bolt Comp.
- 457 - Spring
- 458 - Spring
- 460 - Eyebolt
- 460a - Washer
- 469 - Cable Only
- 475 - Washer
- 478 - Bushing
- 479 - Bolt
- 480 - Bolt & Nut
- 491 - Front Center Bolt
- 491a - Center Bolt Nut
- 493 - Rear Center Bolt
- 495 - Square Washer
- 496 - Bushing
- 499 - Rear Cable Hanger

MAFAC RACING LEVER

Complete with rubber hood & tension adjusting screw.



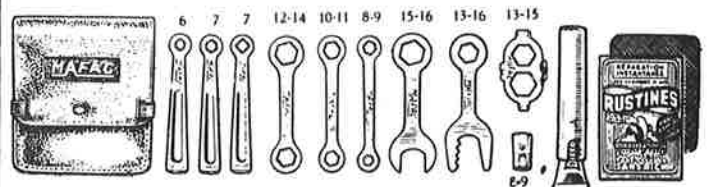
MAFAC RACER LEVER PARTS



RMT - Mafac Rubber Hoods with Cable Tension Controls-----

106E - Mafac Lever Clip w/ Screw & Nut-----

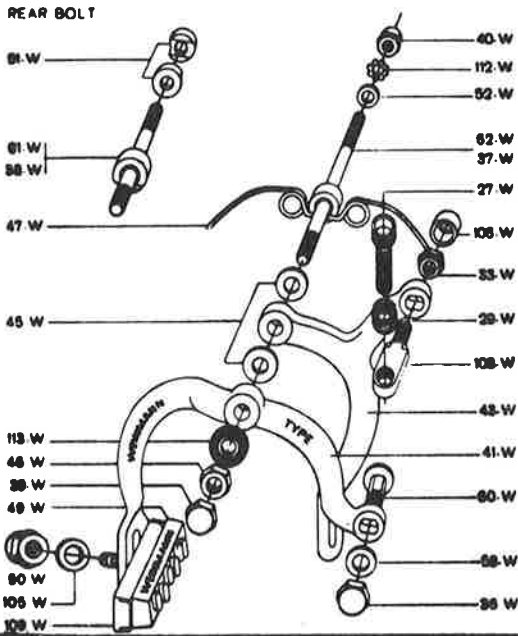
- 50 - Front Brake Cable----
- 51 - Front Cable Housing--
- 60 - Rear Brake Cable----
- 61 - Rear Cable Housing--



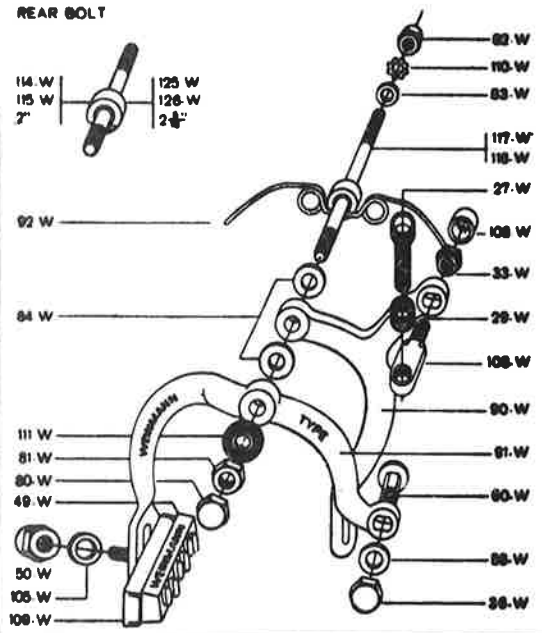
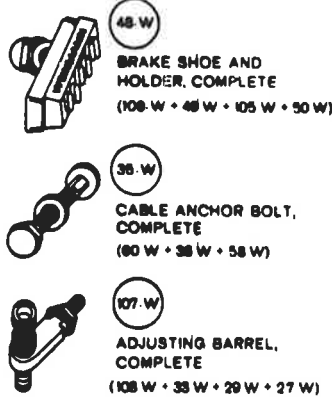
MAFAC TOOL KIT

A handy light weight, compact tool kit for on the road repairs. Fits all nuts and bolts on Mafac Brakes, plus cones Rochet Continental Tourist or Racing Cycles. Also seat posts, derailleur gears and etc. Comes in plastic carrying case for mounting on bike.

CALIPER BRAKES-WEINMANN



THESE PARTS FIT BOTH LW - MW



LIGHTWEIGHT

ALL PARTS FIT BOTH FRONT AND REAR BRAKE

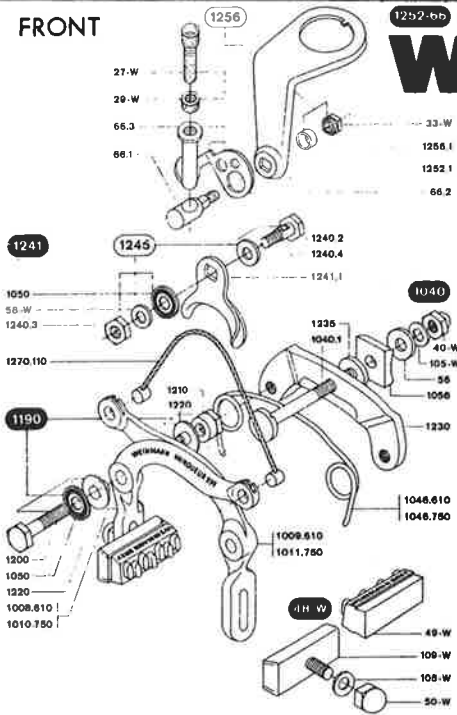
- | No. | |
|-------|--|
| 27-W | Adjusting barrel |
| 29-W | Adjusting barrel for lock nut |
| 33-W | Cable pivot stud lock nut |
| 35-W | Cable anchor bolt, COMPLETE |
| 36-W | Lock nut for cable anchor bolt |
| 37-W | Pivot bolt, Compl. for FRONTBRAKE 3 1/8" (40-W + 62-W + 46-W + 39-W) |
| 38-W | Pivot bolt, Compl. for REARBRAKE 2 5/16" (61-W + 40-W + 46-W + 39-W) |
| 39-W | Acorn nut for pivot bolt |
| 40-W | Lock nut (outer) for pivot bolt |
| 41-W | Outer brake arm |
| 43-W | Inner brake arm |
| 45-W | Spacer washer for pivot bolt |
| 46-W | Lock nut for pivot bolt |
| 47-W | Spring only |
| 48-W | Brake shoe and holder, COMPLETE |
| 49-W | Brake shoe only |
| 50-W | Nut for brake shoe holder |
| 51-W | Radius bushing for REAR-bridge |
| 52-W | Pivot bolt washer |
| 58-W | Washer for cable anchor bolt |
| 60-W | Cable anchor bolt only |
| 61-W | REAR pivot bolt only |
| 62-W | FRONT pivot bolt only |
| 105-W | Washer for brake shoe holder bolt |
| 106-W | Rubber cap to fit on part 33-W |
| 107-W | Adjusting barrel, COMPLETE |
| 108-W | Cable pivot stud only |
| 109-W | Brake shoe holder only |
| 112-W | Serrated washer for pivot bolt |
| 113-W | Name plate washer for pivot bolt |

MIDDLEWEIGHT

ALL PARTS FIT BOTH FRONT AND REAR BRAKE
USED ON SCHWINN BICYCLE

- | No. | |
|-------|--|
| 27-W | Adjusting barrel |
| 29-W | Adjusting barrel for lock nut |
| 33-W | Cable pivot stud lock nut |
| 35-W | Cable anchor bolt, COMPLETE |
| 36-W | Lock nut for cable anchor bolt |
| 48-W | Brake shoe and holder, COMPLETE |
| 49-W | Brake shoe only |
| 50-W | Nut for brake shoe holder |
| 58-W | Washer for cable anchor bolt |
| 60-W | Cable anchor bolt only |
| 80-W | Acorn nut for pivot bolt |
| 81-W | Lock nut for pivot bolt |
| 82-W | Lock nut (outer) for pivot bolt |
| 83-W | Washer for pivot bolt |
| 84-W | Spacer washer for pivot bolt |
| 90-W | Inner brake arm |
| 91-W | Outer brake arm |
| 92-W | Spring only |
| 105-W | Washer for brake shoe holder bolt |
| 106-W | Rubber cap to fit on part 33-W |
| 107-W | Adjusting barrel, COMPLETE |
| 108-W | Cable pivot stud only |
| 109-W | Brake shoe holder only |
| 110-W | Serrated washer for pivot bolt |
| 111-W | Name plate washer for pivot bolt |
| 114-W | Pivot bolt, Compl. for REARBRAKE 2" o.s. length (115-W + 80-W + 81-W + 82-W) |
| 115-W | REAR pivot bolt only, 2" o.s. length |
| 116-W | Pivot bolt, Compl. for FRONTBRAKE 3 5/16" (117-W + 80-W + 81-W + 82-W) |
| 117-W | FRONT pivot bolt only |
| 125-W | REAR pivot bolt only, 2 1/16" o.s. length |
| 126-W | Pivot bolt, Compl. for FRONTBRAKE 2 5/16" o.s. length (125-W + 80-W + 81-W + 82-W) |

FRONT



WEINMANN Vainqueur 999

WEINMANN "VAINQUEUR 999" CENTER-PULL BRAKES AND PARTS

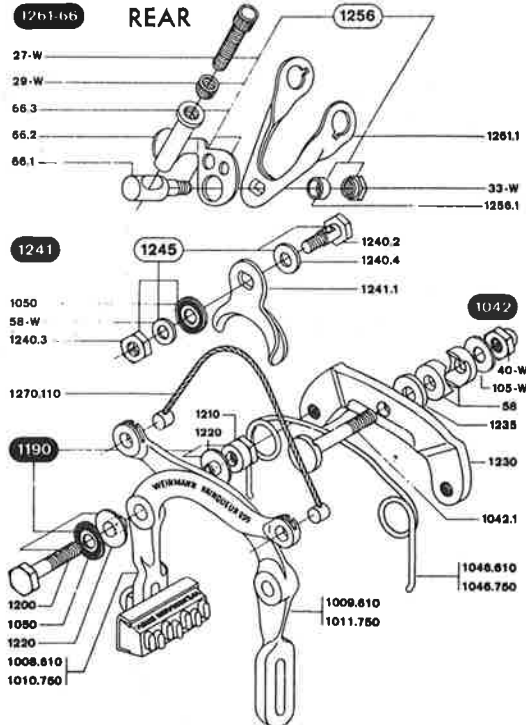
\$6.75

WEINMANN VAINQUEUR 999 Type 610-FRONT Complete Complete, with Hooded Handlever 57-W or 130-W, with Quick Release;

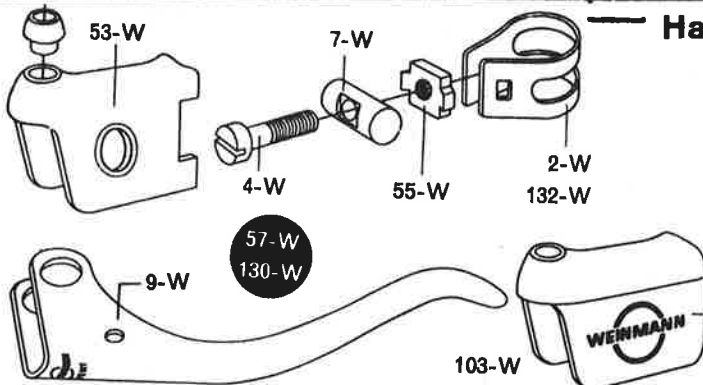
WEINMANN VAINQUEUR 999 Type 610-REAR Complete, with Hooded Handlever 57-W or 130-W, with Quick Release;

- 27-W , Adjusting Barrel***
- 29-W , Adjusting Barrel Lock Nut***
- 40-W , Lock Nut for Center Bolt***
- 48-W , Brake Shoe and Holder Complete***
- 49-W , Brake Shoe only***
- 50-W , Nut for Brake Shoe Holder***
- 56 , Seating Pad for Frontbrakes
- 58 , Seating Pad for Rearbrakes
- 58-W , Washer***
- 105-W , Washer***
- 109-W , Brake Shoe Holder only***
- 1008.610 , Outer Brake Arm for Type 610-FRONT and 610-REAR
- 1009.610 , Inner Brake Arm for Type 610-FRONT and 610-REAR
- 1010.750 , Outer Brake Arm for Type 750-FRONT and 750-REAR
- 1011.750 , Inner Brake Arm for Type 750-FRONT and 750-REAR
- 1040 , Front Center Bolt, Complete
- 1040.1 , Front Center Bolt only
- 1042 , Rear Center Bolt, Complete
- 1042.1 , Rear Center Bolt only
- 1046.610 , Spring only, for Type 610-FRONT and 610-REAR
- 1046.750 , Spring only, for Type 750-FRONT and 750-REAR
- 1050 , WEINMANN VAINQUEUR Name Plate Washer
- 1056 , Square Seating Pad for Frontbrakes
- 1190 , Pivot Bolt Complete
- 1200 , Pivot Bolt only
- 1210 , Lock Nut only, for Pivot Bolt
- 1220 , Nylon Bushing
- 1230 , Brake Arm Bridge
- 1235 , Spacer Washer
- 1240.2 , Bolt only, for Cable Carrier
- 1240.3 , Nut only, for Cable Carrier Bolt
- 1240.4 , Washer only
- 1241 , Cable Carrier Complete
- 1241.1 , Cable Carrier only
- 1245 , Bolt Complete, for Cable Carrier
- 1252-66 , Front Cable Hanger Complete
- 1252.1 , Front Cable Hanger only
- 1261-66 , Rear Cable Hanger Complete
- 1261.1 , Rear Cable Hanger only
- 1256 , Quick Release Complete
- 1256.1 , Spacer Washer
- 66.1 , Stud only***
- 66.2 , Quick Release only***
- 66.3 , Outer Barrel only***
- 33-W , Stud Lock Nut only***
- 1270.110 , Cable only, 4 3/8"

REAR



Handlever (Hooded Type, Racing) 57W-107W



- 57W-Hooded Handlever with 7/8" Clamp----
- 130W-Hooded Handlever with 15/16" Clamp----
- 2W-Clamp 7/8"-----
- 132W-Clamp 15/16"-----
- 4W-Pull up Bolt-----
- 7W-Stud for Pull up Bolt
- 9W-Lever Only-----
- 53W-Lever Bracket-----
- 55W-Pull up Nut-----
- 103W-Rubber Covers for Hooded Levers----

T.A.

BOTTLE CAGES—BOTTLES AND HIP FLASKS

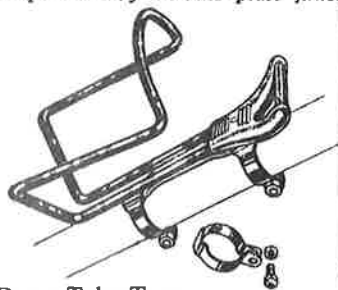
are the finest ever produced.

The TA Bottle secured the coveted contract for the world's most important cycle race—the TOUR de FRANCE, chosen because of these features:—

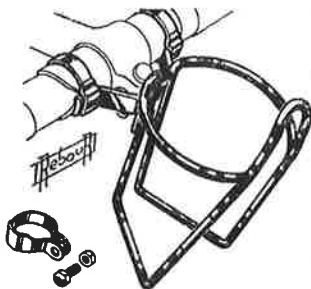
- * Made in special white polythene it will stand enormous pressure.
- * It is light—it will take hot or cold liquids and is guaranteed against any odour.
- * Fitted with a double seal cap ensuring a watertight fit.
- * Cap is attached by a flexible moulded loop and has a thumb push lip for easy opening.

Look for these exclusive features:—

- * Constructed in one piece heavy gauge steel wire
- * No springs or expanders used.
- * Solid brazed-on back plate.
- * Fits any full-size bottle.
- * Two accurate-fitting non-slip fixing clips.
- * Superb heavy chrome plate finish.



Down Tube Type. Ref. 215.



Handlebar Type. Ref. 213.



Standard Bottle. Ref. 200.



Cap for 200. Ref. 20



Hip Flask. Large. Ref. 300.



Hip Flask. Small. Ref. 150.

Carriers - Child



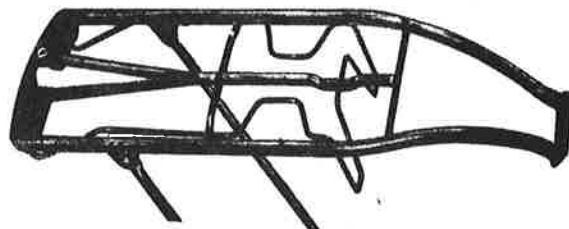
L6-LECO STANDARD

Very popular seat. Equipped with padded cushion in various colors. Easy to attach. Black enamel. Has sturdy footrests.



550-BULLDOG SEAT

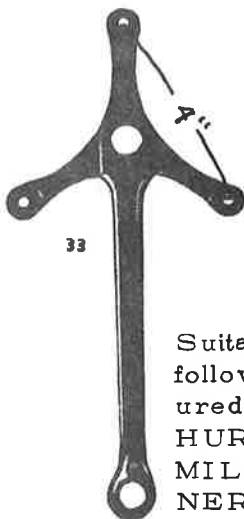
Black or silver enamel. Fits between handlebars and seat. Universal bracket to fit both men's and ladies' bikes. On and off in a second. Can be used with or without footrests. Without Footrests--- With Footrests-----



PLETSCHER

AC2C Swiss alloy rear spring carrier. Complete with screws and strap for fitting to seat stays.

NERVAR CRANKS



33

"NERVAR" cranks are made of special steel (chromed according to the very latest processes) their weight is reduced by means of grooves.

Ref. 33. 3-PIN SETTED CRANKS

The 3-pin setted crank, with its double setting, provides strength to withstand any stresses; while it can be adapted to racing machines, it has been specially designed for the type of bicycle known as a "semi-racing" model.

Suitable replacement for the following Continental Manufactured Cranks:

- | | |
|---------|-------------|
| HURET | SOLIDA |
| MILREMO | STRONGLIGHT |
| NERVAX | T. A. |

Length 6 3/4"

The 3-pin and 5-pin cranks can be fitted to double and triple chainwheels.

Ref. 50 T. 5-PIN TREATED CRANKS

The 5-pin treated crank has the same lightness and robustness as the 3-pin, but is given extra strength owing to the 5 pins. Is recommended for track and hill-climbing.

Suitable replacement for the following Continental Manufactured Cranks:

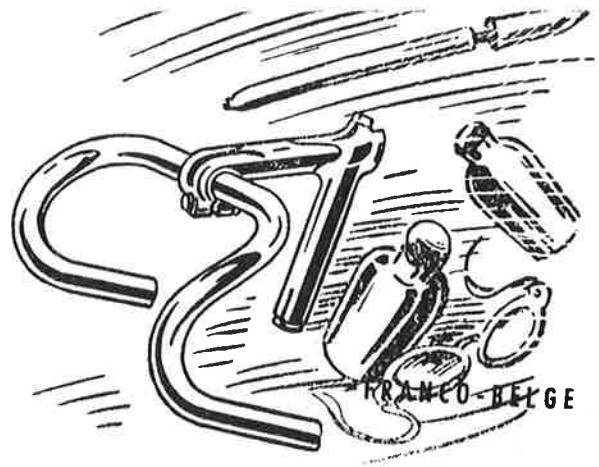
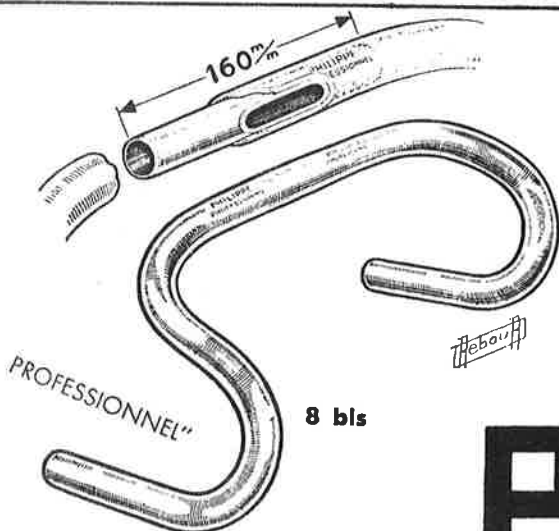
- | | |
|---------|-------------|
| HURET | SIMPLEX |
| MILREMO | STRONGLIGHT |
| NERVAX | T. A. |



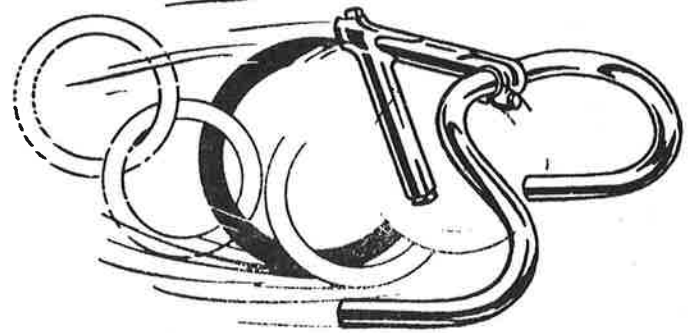
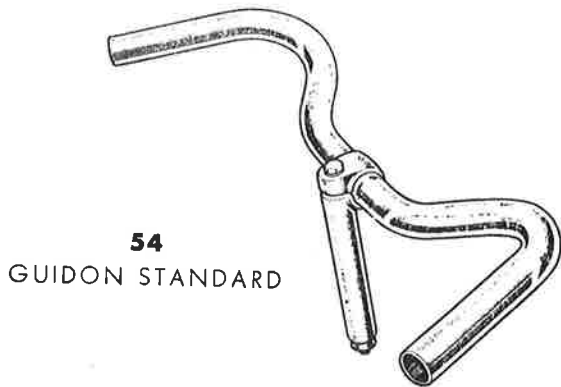
50 T

MATCHING LEFT HAND CRANKS ALSO AVAILABLE.

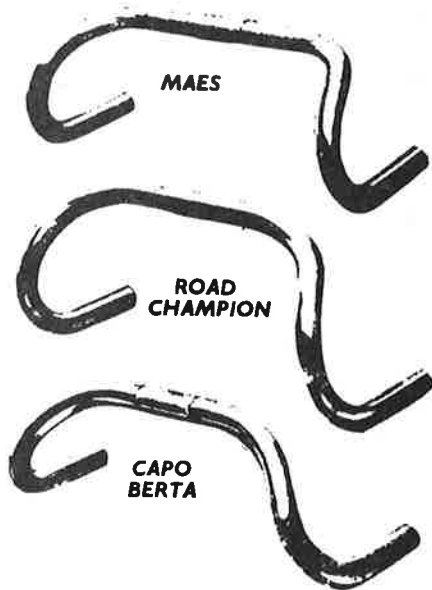
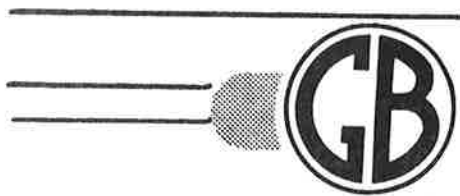
HANDLEBAR BENDS



PHILIPPE GUIDONS



OLYMPIC



#58 Alloy
#58a Steel

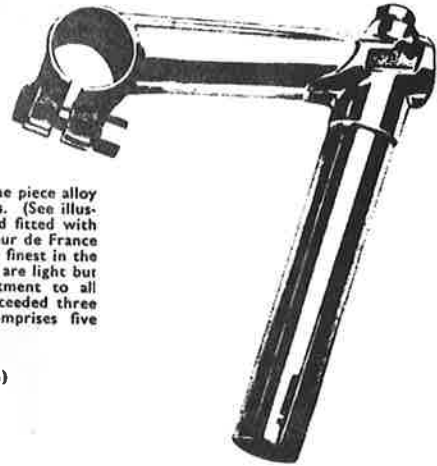


"DISSOPLAST" HANDLEBAR PLUGS; in white rubber; with expanding bolt; for 13/16" inside diam.;



SOLID FORGED

LIGHT ALLOY STEMS

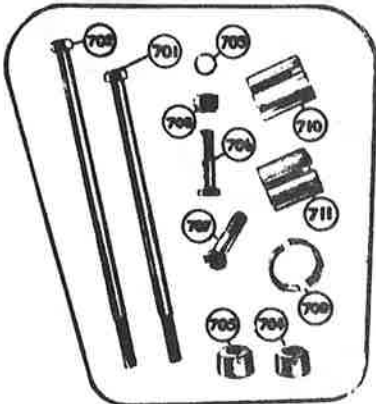


G.B. Alloy Stems are made from solid one piece alloy forgings and machined to fine tolerances. (See illustration of section). Highly polished and fitted with expander and clamp bolt. Proved in Tour de France and Tour of Britain, these stems are the finest in the world for strength and reliability. They are light but perfectly suited for their purpose of fitment to all types of machines. Total sales have exceeded three quarters of a million. The range comprises five popular lengths.

STEM SIZES ALLOY

Extension (A)	Column (B)
1 3/4"	5 1/4"
2"	5 1/2"
2 3/4"	5 3/4"
3 1/4"	5 7/8"
4"	5 3/4"

SPARES for STEMS



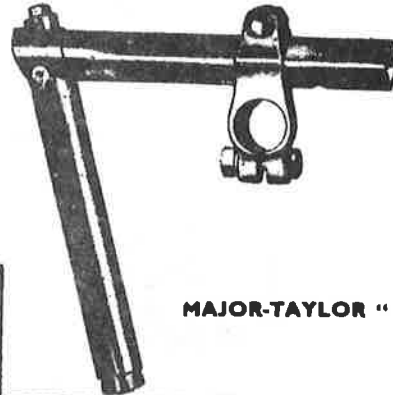
- 701 Expander bolt medium (Alloy Stems)
- 702 Expander bolt long (Steel stems)
- 703 Washer for all expander bolts
- 704 Cone for Alloy Stems
- 705 Cone for Steel Stems
- 706 Handlebar Clamp Bolt
- 707 Handle Clamp Bolt (Monogram hd.)
- 708 Handlebar Clamp Bolt Nut
- 709 Ferrule to adapt 1/2" bar centre to 1" (Alloy Stem)
- 710 Ferrule to adapt 3/8" bar centre to 1" (Alloy Stem)
- 711 Ferrule to adapt 3/8" bar centre to 1" (Steel Stem)

KROMO STEEL STEMS

STEM SIZES

Extension (A)	Column (B)
4"	
4 1/2"	

Handmade from lapped solid drawn KROMO tubes. Attractively finished, polished and heavily chrome plated. In six popular lengths complete with expander and clamp bolt. The stem for the specialist rider.



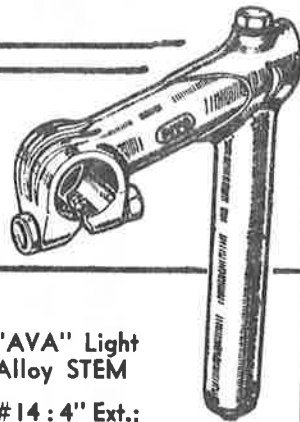
MT.15 Complete as illustrated.

MAJOR-TAYLOR "OUTRIGGER"



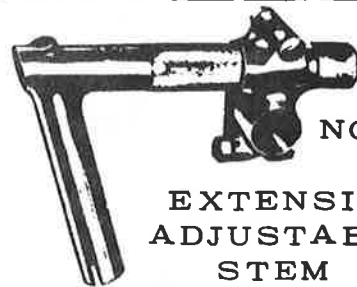
#75

A High Quality Alloy Stem Used on Gitane Bicycles



"AVA" Light Alloy STEM
 #14 : 4" Ext.;
 #19 : 2 1/2" Ext.;
 (diam. 22 mm)

CINELLI

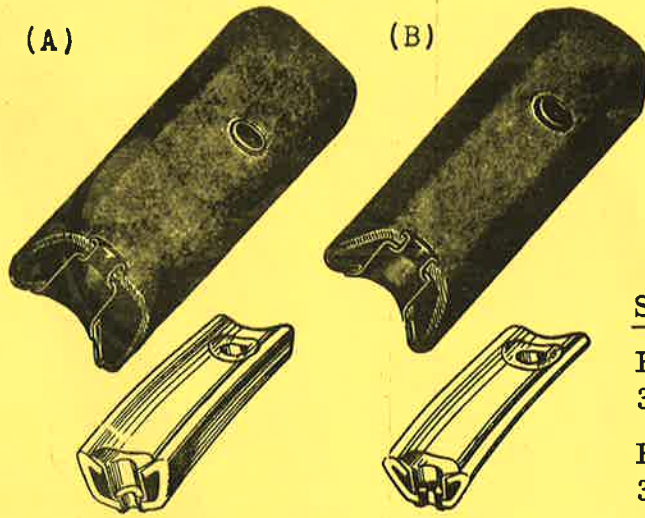


NO.2

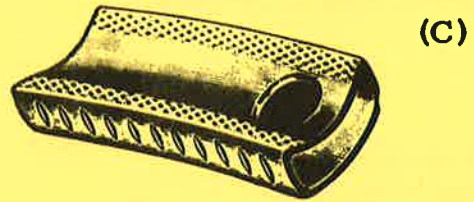
EXTENSION ADJUSTABLE STEM

All Steel, Chrome Plated Complete with Expander Bolt-----

RIMS



FIAMME RIMS



SUPER ALLOY TUBULAR RACING RIMS

- Fiamme Red Label Road Rims (A)
36/36 Holes Ferruled 14oz.
- Fiamme Red Label Track Rims (B)
36/36 Holes Ferruled 12oz.
- Fiamme Blue Label Road or Track (C)
36/36 Holes not Ferruled

RIGIDA



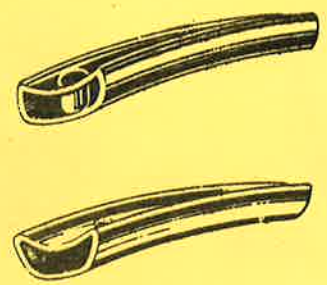
2636

RIGIDA CHROME STEEL RIMS - 1

ENDRICK TYPE

2436	24 x 1-3/8	EA5	36H
2632	26 x 1-3/8	EA3	32H
2636	26 x 1-3/8	EA3	36H
2640	26 x 1-3/8	EA3	40H
2732	27 x 1-1/4	HP	32H
2736	27 x 1-1/4	HP	36H
2740	27 x 1-1/4	HP	40H

MAVIC



THE WORLD'S BEST RIM

- For Tubulars
- MONTHLERY Narrow Rim Track or Road
Ferruled 36 x 36 Holes
- PROFESSIONAL Road Rim
Ferruled 36 x 36 Holes
- PROFESSIONAL Track Rim
Ferruled 36 x 36 Holes
- SPORT
Not Ferruled 36 x 36
- FOR CLINCHER TIRES ONLY

27 x 1-1/4 Dural 36 x 36
700C or 28 x 1-5/8 x 1-1/4 36 x 36

TYPE PROFESSIONNEL

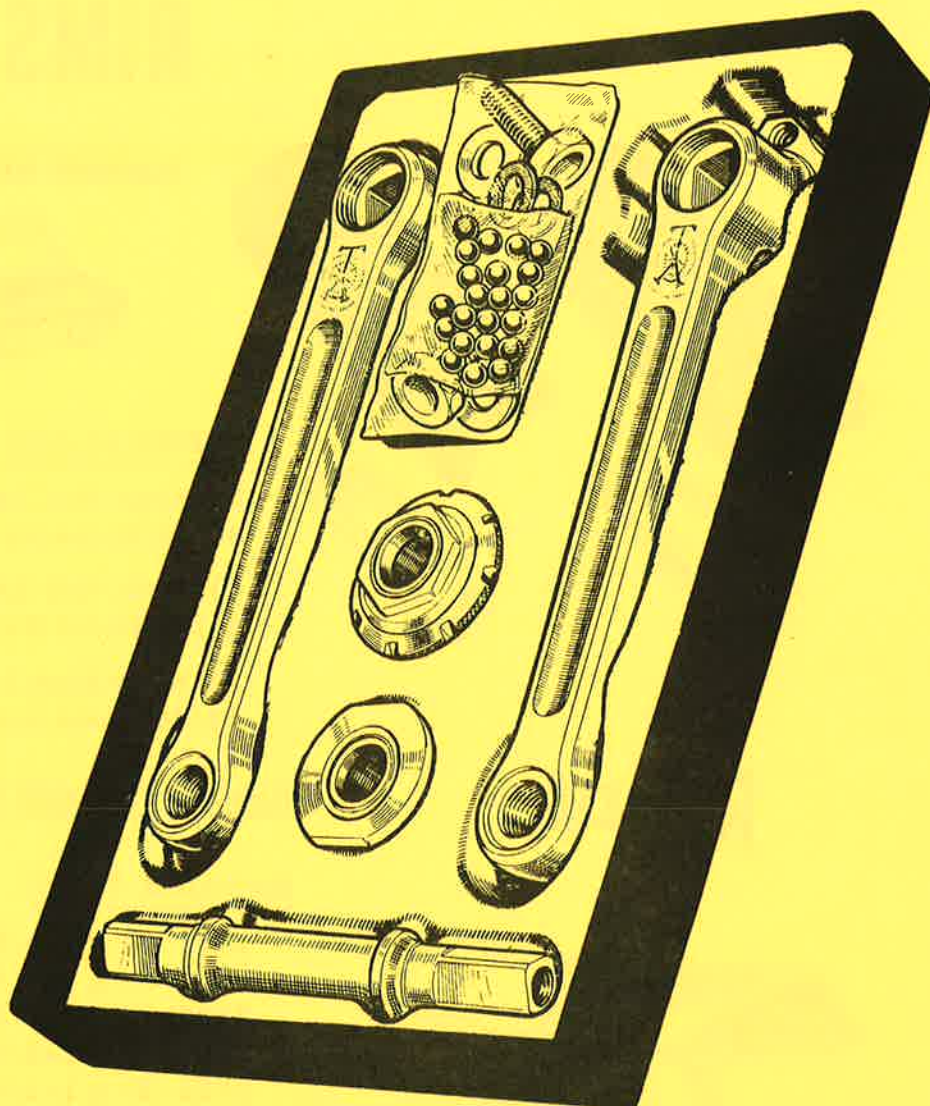
Light alloy crank set with square standard fitting.

Specially ground and polished axle and cups made from chrome-nickel steel. High precision balls.

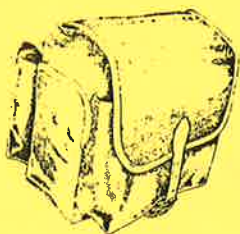
Crank Length

160 ; 162,5 ; 165 ; 167,5
170 ; 172,5 ; 175 ; 177,5
180.

COMPLETE SET

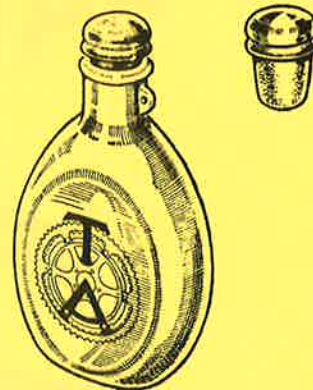
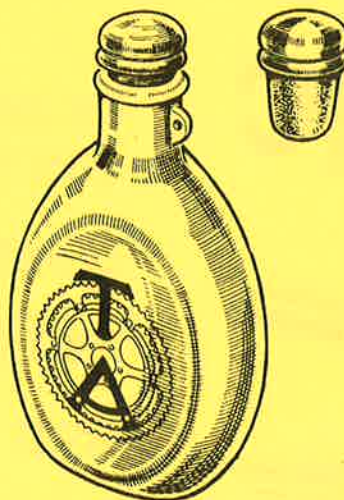


SPECIALITÉS T. A.



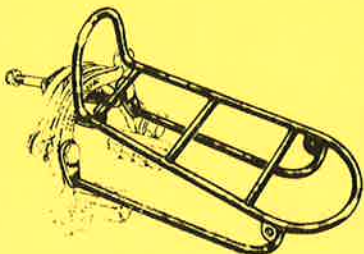
Handlebar Bag

Ideal for touring,
camping, training.



FLASKS

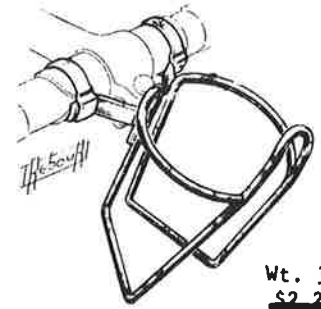
Designed to fit snugly in pockets
large size
small "



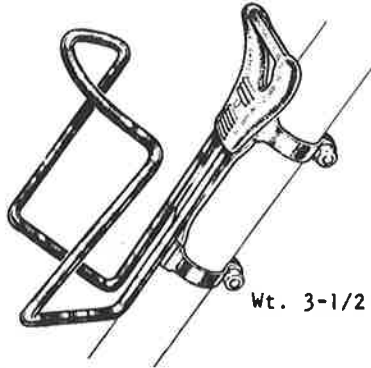
Front Bag Support
Fits on center-pull
brake

Spécialités T.A.

T.A. HANDLEBAR BOTTLE CAGE



Wt. 3-1/2 oz.
\$2 25



Wt. 3-1/2 oz

T.A. SEAT TUBE BOTTLE CAGE

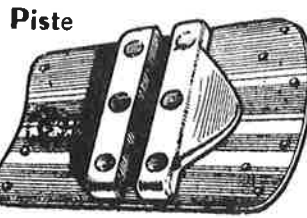


Wt. 2 oz.

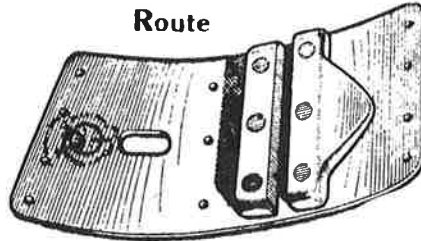
T.A. PLASTIC WHITE FEEDER BOTTLE - PINT SIZE, WHITE



Bottle cage clamps
for either types
Set of two, complete



Piste

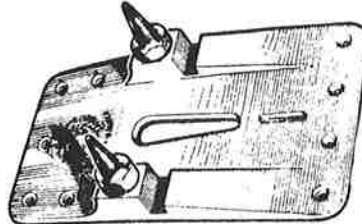


Route

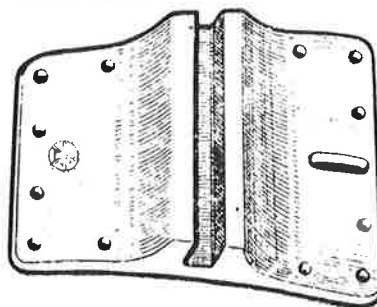
PROFESSIONAL

J. ANQUETIL

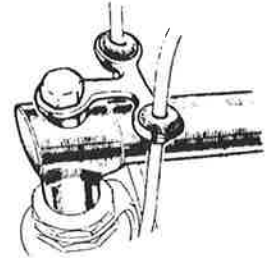
CYCLO-CROSS



CRITERIUM



SHOE CLEATS



T.A. BRAKE CABLE GUIDES

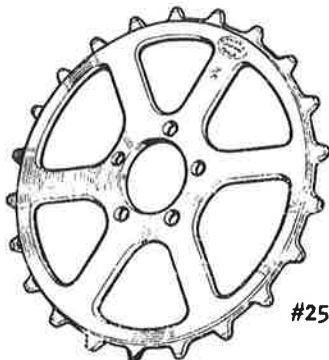
The fine alloy guide can be fitted to either expander bolt or handle bar clip bolt. Cable guides & rubber ring inserts are slotted so that the brake cable can be fitted without cutting.



Wt. 1 oz.

T.A. BRAKE CABLE CLIP

A very simple and practical Chrome Plated Brake Cable Clip. The spring fastening allows for complete flexing of the cable housing for acute maneuvering.

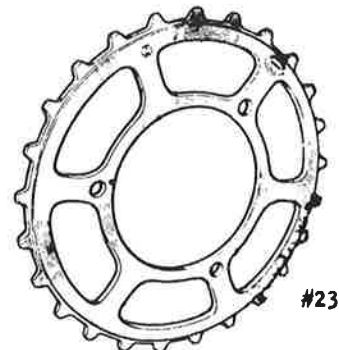


#255

T.A. PRECISION FORGED TRACK CHAINWHEELS

Five Pin - One Inch Pitch (Wt. 5 oz.)

22, 23, 24, and 25 Teeth....
26 & 27 Teeth....
28 Teeth....



#233

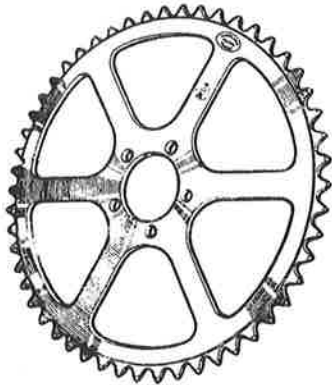
T.A. PRECISION FORGED TRACK CHAINWHEELS

Three Pin - One Inch Pitch (Wt. 5 oz.)

22, 23, 24, and 25 Teeth....
26 & 27 Teeth....
28 Teeth....

accessories that are absolutely dependable.

T.A. -the *FIRST* name in precision



FIVE PIN - #205

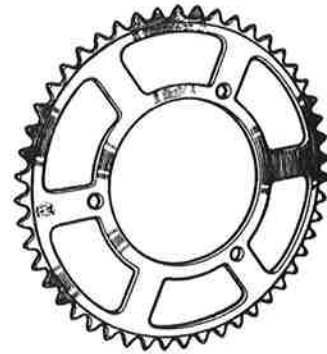
T.A. SINGLE CHAINWHEELS - DURAL

For track and road.

The use of 1/2 x 1/8 inch chainwheels in the World's track and Olympic events has gained considerable popularity, as the use of 1/2 inch pitch allows for closer matching of gear ratios to the rider's capabilities.

Weight: 4 ozs. - - -

Available in 46 to 54 Teeth - extra for each additional tooth over 50.



THREE PIN - #203

INTRODUCING THE LATEST PRODUCTION FROM



Type Critérium

T.A. DOUBLE CHAINWHEELS - DURAL

For road.....

Close ratio double chainwheels for the sports and racing cyclist.

Weight: Approximately 7-1/2 ozs.

1/2 x 3/32 inch chainwheels in double combinations from 44 to 52 Teeth.



FIVE PIN - #2205



THREE PIN - #2203

FIVE PIN TRIPLE CYCLO-TOURIST DURAL CHAINWHEEL

Ideal for the travelling cyclist - fine craftsmanship. 1/2 x 3/32". Write for



tourist who wants high performance and Weight 8-1/2 oz..... Selection in Stock.



#25 - Bushed Nut and Screw to fasten Chainwheel to Five Pin Cranks (Wt. 1 oz.).....



#64 - Bushed nut screw and washer for double chainwheel coupling (Wt. 1-3/4 oz.).....



#85 - Bushed nut, screw and washer for triple chainwheel coupling (Wt. 1-3/4 oz.).....

THESE PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Spécialités Huret

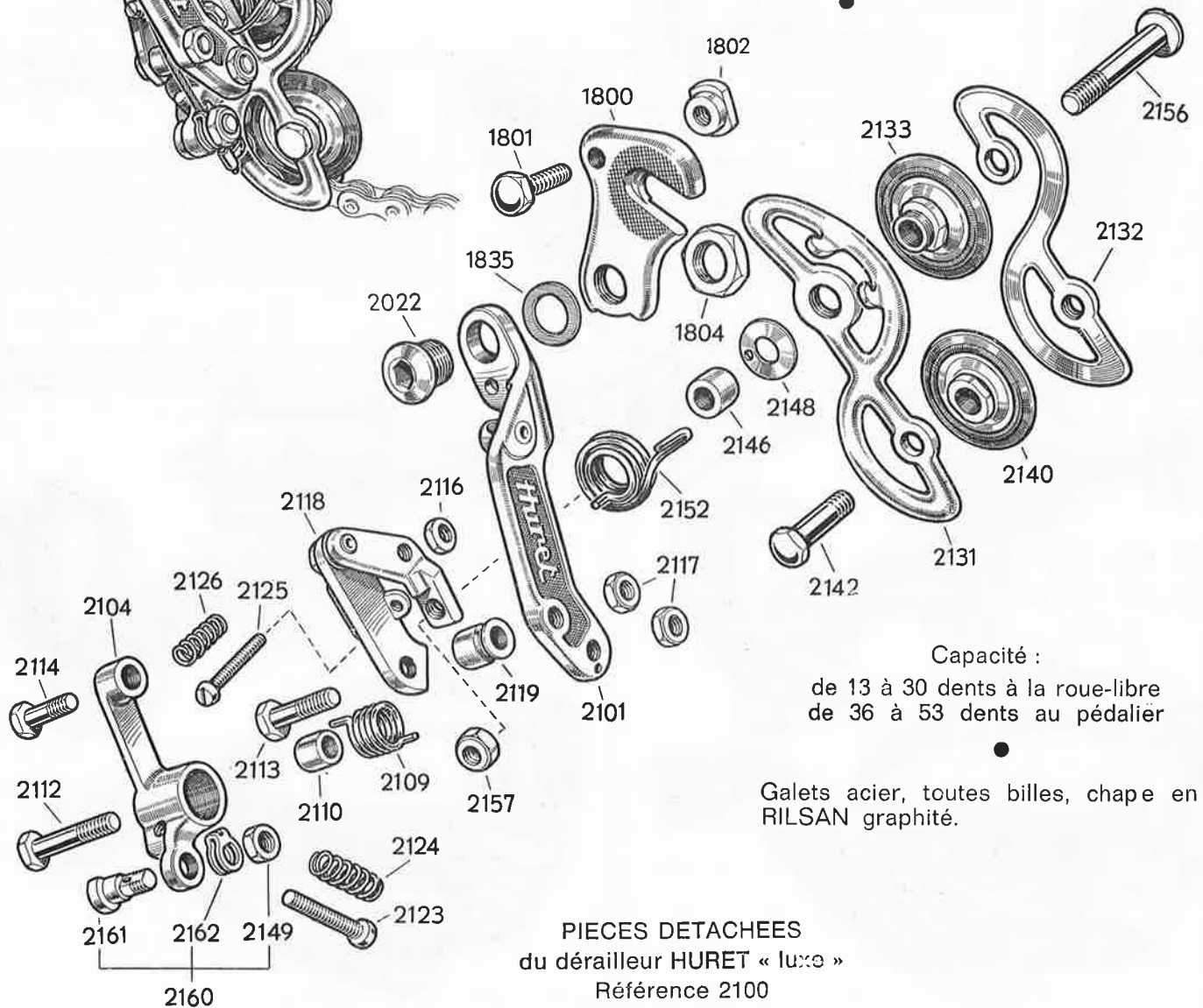
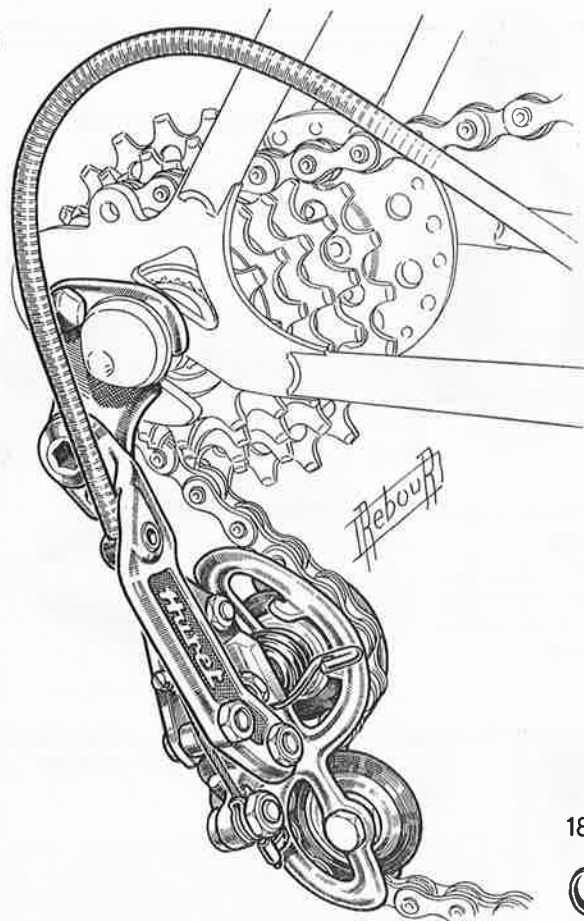
DERAILLEUR

Huret "Luxe"

Référence 2100

Modèle recommandé pour la compétition,
le cyclotourisme et les bicyclettes de grand luxe.

convient pour chaînes de 3,17 et 2,38
se règle sur 3, 4, 5 et 6 vitesses



Capacité :
de 13 à 30 dents à la roue-libre
de 36 à 53 dents au pédalière

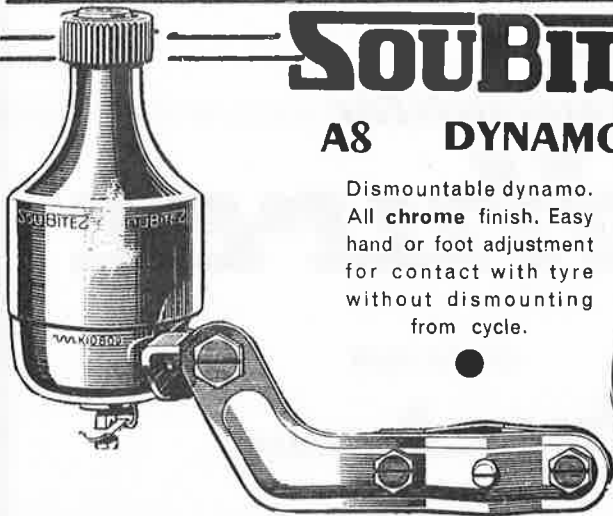
Galets acier, toutes billes, chape en
RILSAN graphité.

PIECES DETACHEES
du dérailleur HURET « luxe »
Référence 2100

SOUBITEZ

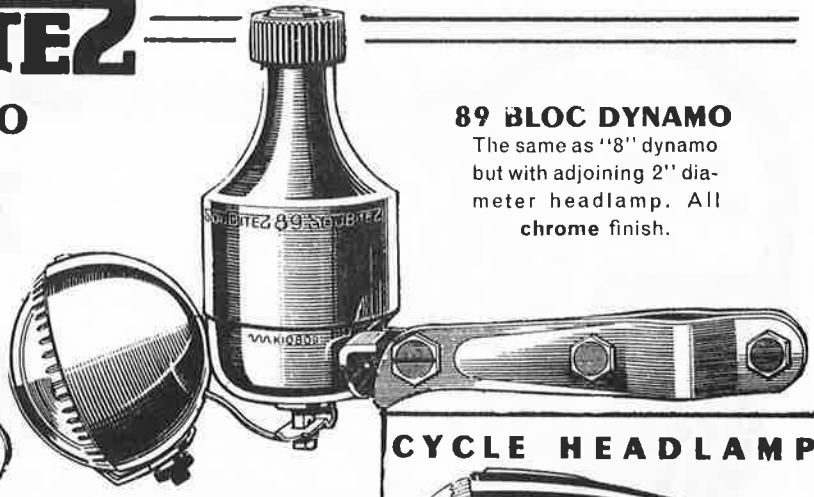
A8 DYNAMO

Dismountable dynamo. All **chrome** finish. Easy hand or foot adjustment for contact with tyre without dismounting from cycle.



89 BLOC DYNAMO

The same as "8" dynamo but with adjoining 2" diameter headlamp. All **chrome** finish.

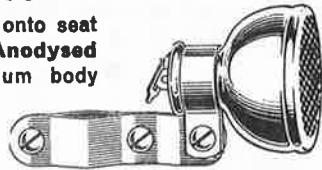


CYCLE HEADLAMP

TAILLAMPS

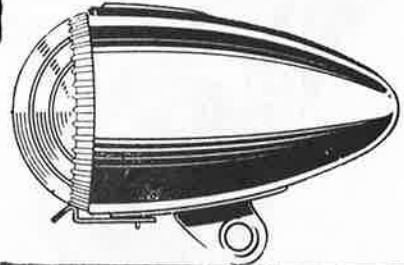
H3

Fitting onto seat stays **Anodysed** aluminium body



255

2" diameter - One bulb **Anodysed** aluminium body. Fitting on any bracket model.



CATALUX 6

Taillamp combined with glass reflector French approved TPV 312 and 335 **Anodysed** aluminium body.

CATALUX 3

Taillamp combined with "scotchlite" reflector **anodysed** aluminium body



DYNAMO PULLEY COVER

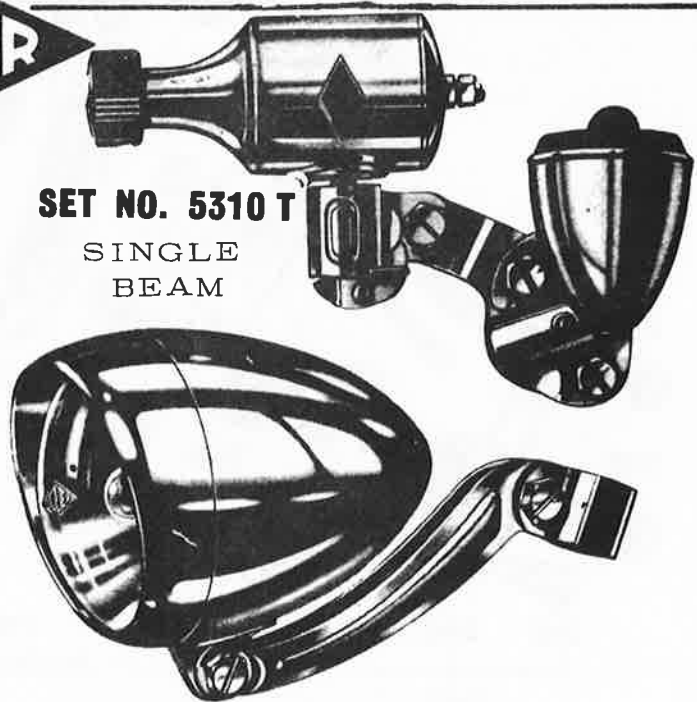
This neat moulded rubber cap has deep serrations to give a sure grip to the pulley wheel in wet or snowy weather. Saves replacing worn pulley ---essential for all dynamo users.



SET NO. 537 T HIGH-LOW BEAM

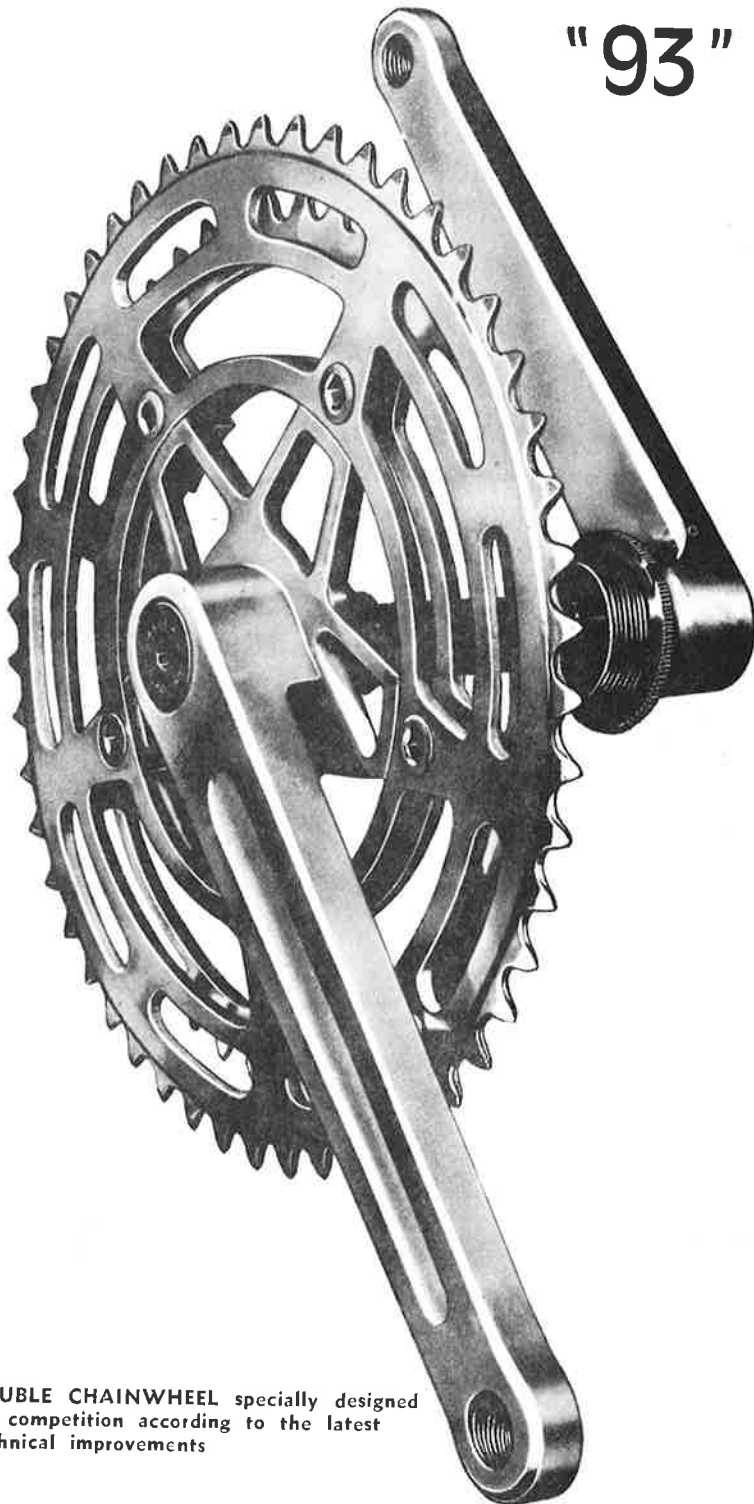


SET NO. 5310 T SINGLE BEAM



STRONGLIGHT

"93"

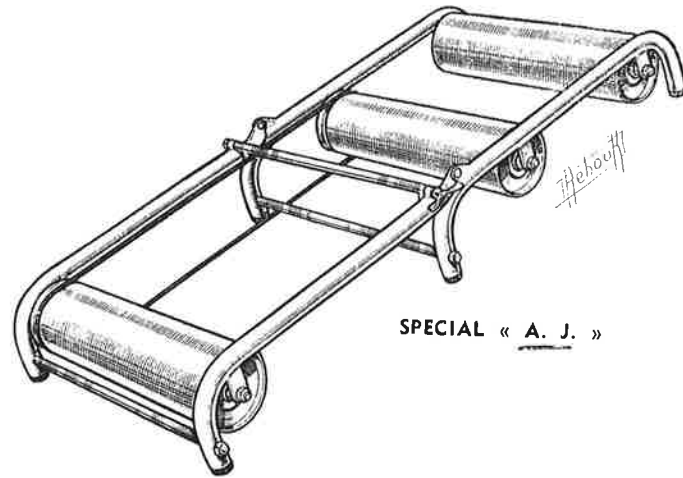


DOUBLE CHAINWHEEL specially designed for competition according to the latest technical improvements

FINEST PROFESSIONAL TRACK SUIT

A real professional stylish track suit. A must for the athlete who has to lay around in between meets. Sweat shirt has full opening zip front, crew neck collar. Pants have long zippers at the ankles (easy to pull over shoes).

Stocked in 4 sizes: Small, Medium, Large and Extra Large. Wt. Approx. 2 lbs.....



SPECIAL « A. J. »

Now train in your home as well as on the road with the folding French rollers

ROBERGEL

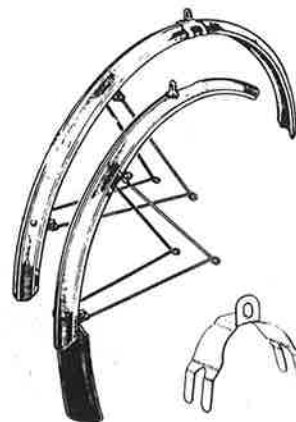


SPOKES & NIPPLES

*WHEN ORDERING SPOKES, PLEASE GIVE US SPOKE LENGTH.

12 1/8"	.(308 mm)..
12 1/16"	.(306 mm)..
12"	.(305 mm)..
11 7/8"	.(302 mm)..
11 13/16"	.(300 mm)..
11 5/8"	.(295 mm)..
11 1/8"	.(282 mm)..
11"	.(280 mm)..

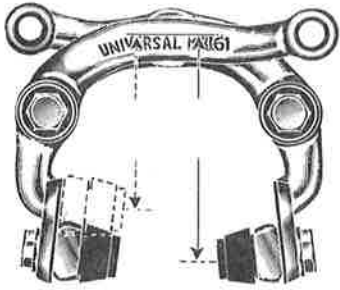
SPECIFY whether you want wheels dished for 3, 4, or 5 speed free-wheels, or fixed track. WHEELS WILL BE SHIPPED R.E.A. EXPRESS - TOO LARGE FOR PARCEL POST.



RALEIGH PLASTIC MUDGUARDS
No. 413 - For 26" or 27" wheels. Complete with fender bridge, reflector and braces. Wt. 16 oz. pr..

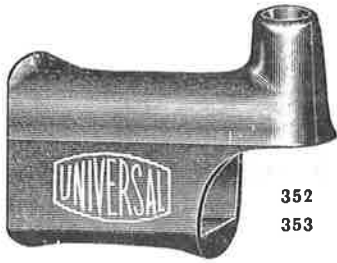
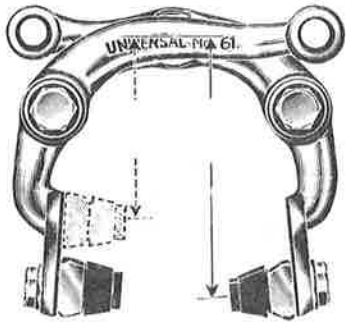
FENDER BRIDGE CLIP
Heavy gauge steel. Wt. 1 oz.....

UNIVERSAL SUPER



mod. 61

N. 108



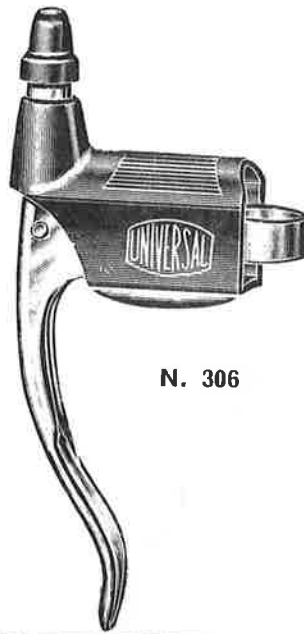
352
353



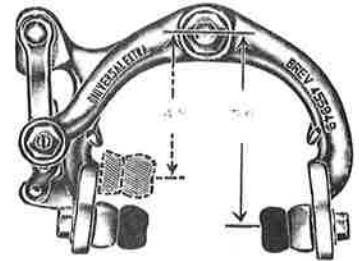
UNIVERSAL

IN SPECIAL FURALUMIN

Model #68 NEW Sidepull Brakes used on most Italian Pro bicycles

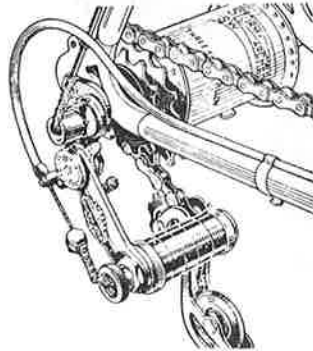


N. 306



Benelux Sturmey Hub Gear Conversion Sets

HIGHLY RECOMMENDED FOR TOURING

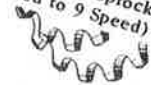


CB79

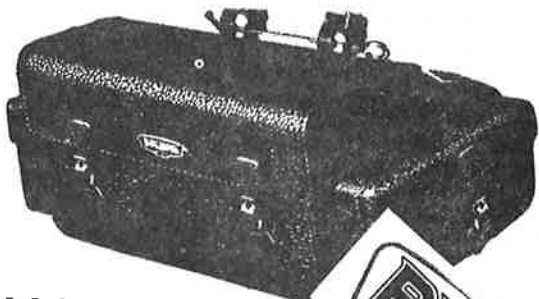


Three Speed Conversion Set

Three Speed Conversion Set complete with 3 Spline Body, one 15 tooth sprocket, one 19 tooth sprocket, and one 24 tooth sprocket. (Converts 3 Speed to 9 Speed)



Size: 13" x 8" x 9 1/2"

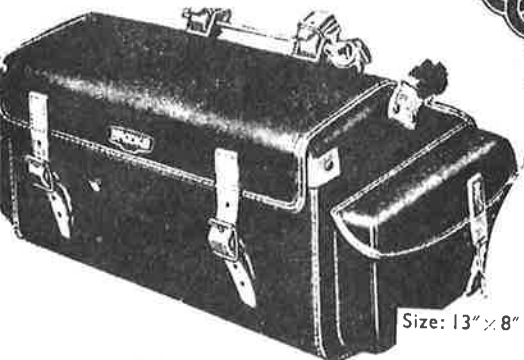


MOSSBROOK

"LEMET ROK" Saddle; Black Top; designed with the girls in mind. Also especially suitable for home trainers.

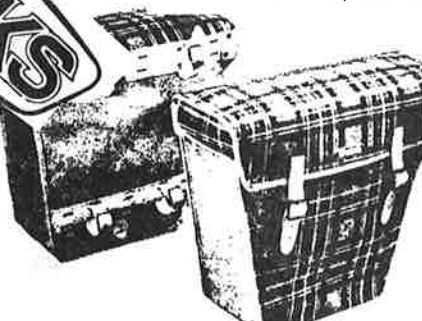


Size: 12" x 4" x 14" tapered to 8"

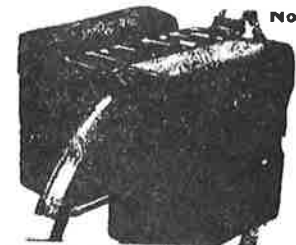


Size: 13" x 8" x 9 1/2"

HIGHBROOK



B2085 PANNIER



No. 4107

Size: 12" x 12" x 5"
Designed for the keen touring cyclist. Consists of two bags (12" x 12" x 5"). Manufactured from black or tan proofed canvas. Easily fitted and instantly detached.



L.15 STANDARD

Sports model, with solid leather top. Mounted on light, sturdy two-wire frame. Finish: Black Enamel or Chromium Plated.



L.15 NARROW

Similar in design to the L.15 Standard. Finish: Bl Enamel or Chromium Plated.



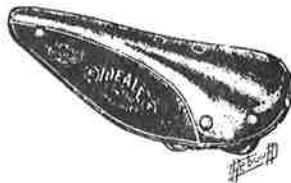
L.15 SWALLOW

The specially cut-away top gives great freedom of leg action. Fully tensioned top and patent bridge support, ensuring permanent retention of shape. The top is cut away at the backplate in the modern manner. Available chromium plated.



No. 42. Norex

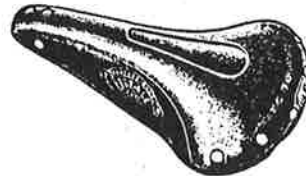
Gent's racing saddle, 2 high strength wires, top quality butt hide, natural or black. Size 11 1/2" x 7 1/8". Weight 21 oz.



No. 43. "RECORD".

Butt hide—WEATHERPROOFED. Steel wire springs, on single point of attachment to saddle-bar (patented), ensuring rapid removal. Size 10 1/4" x 5 3/4". Weight 26 1/2 oz.

IDEALE RACING SADDLES



● No. 48 PROFESSIONNEL

Size 10 1/4" x 6". Weight 11b. 9ozs. For professional riders, clubmen and long distance amateurs. HOLLOW formed in the centre of the leather, avoiding any hurt, as the most delicate part of rider is not in contact with the saddle. FINEST BUTT HIDE with SPECIAL NOSE, with FOUR COPPER rivets, giving extra strength. Large curved back gives "long distance" support. DURALUMIN frame, detachable.

No.49 Deluxe .

Same specifications as #48 but with spring steel frame.



No. 42. Ideale

2 high-strength wires. Top quality butt hide, natural or black. Size 10 1/2" x 5 3/4". Weight 23 oz.



No. 88 "SPECIAL COMPETITION"

Extra quality tanned butt hide, with internal mud guard. New shape specially designed to avoid triangulation. Detachable 2-wire steel springs (patented). Reinforced front tension. Red copper rivets. Special patented frame. Adjustable to all positions. Size 10 5/8" x 6". Weight 28 1/5 oz.

UNICA =

Used by the World's leading Professional and Amateur cyclists. The top is moulded to the saddle frame, giving a clean and finished appearance. Its modern curved back design, short curved chamfered sides and rivetless construction prevents chafing. Rain, hot or cold temperatures cannot affect its original shape. No breaking-in required. Top is perforated for coolness.

— Made in Italy —



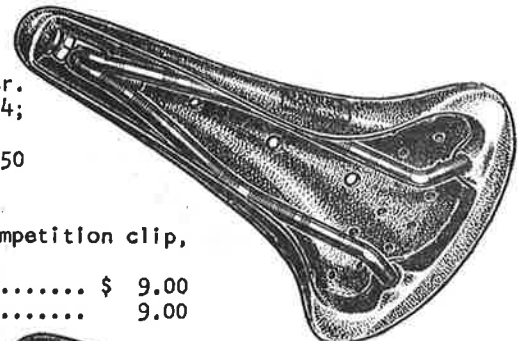
SEAT PILLER

Patented Unica Micro-adjusting dural pillar. Length of post - 7". O.D. - 26; 26.2; 26.4; 26.8; 27; and 27.2 mm. Wt. 10 oz..... \$ 7.50

NYLON-PLASTIC UNICA SADDLE

Will fit Campagnolo #1004 pillar, Ideale competition clip, Brooks clip or any standard clip.

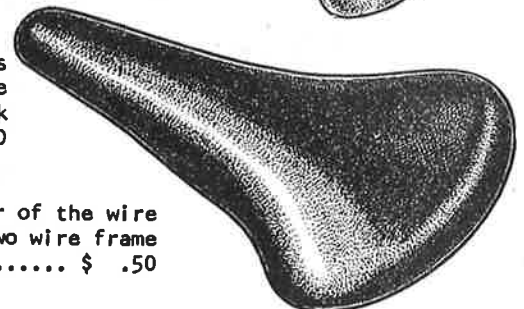
Track saddle - Black only - Wt. 12 oz..... \$ 9.00
Road saddle - Black only - Wt. 11 oz..... 9.00



LEATHER TOP NYLON BOTTOM UNICA - Road & Track Models
Same design and appearance as plastic model. Top is made of choice grain leather. Rivetless construction. Black only. Wt. 11 oz..... \$ 13.50

UNICA SADDLE BAG CLIPS

Two neat appearing yoke clips that fasten on to the rear of the wire frame to hold tool or saddle bags. Will work on any two wire frame racing saddle. Wt. 1 oz..... \$.50



B66 TOURING



BROOKS

B66 Tourist model with solid Butt leather top. Four-wire upswept bracket incorporating patent tensioning adjustment, two coils at rear, with 5/8" or 7/8" adjustable clip. Finish: Black enamel. Size: 10-1/2 x 8-1/2 x 2-7/8" ins. Weight: 2 lbs, 5-ozs. Ladies model available

Chrome Springs-
Black Springs---

B72 TOURIST



B72 BROOKS

B. 72 Solid Butt leather top, mounted on single loop four-wire frame with 5/8" or 7/8" adjustable clip. Finish: Black enamel. Size: 10-1/2 x 8-1/2 x 2-1/4 ins. Weight: 1-lb, 11-ozs. Ladies model available.

Chrome Springs-
Black Springs---

S21 MATTRESS



SOFTY

S21 Very comfortable saddle, suited to ladies or gents. Multi-spring mattress, girder frame, Four-wire bracket with two rear coils with 5/8" or 7/8" adjustable clip. Patent nose-piece adds to comfort and appearance. Black, Brown or Tan Vyanide top covers, felt pad. Finish: Black enamel or Chromium Plated. Size: 9-3/4 x 8-1/2 x 2-3/4 ins. Weight: 2-lb, 8-ozs.

LYCETT, as above

STRAIGHT POST

Fits Most Lightweight



1 1/8" x 20 ga.
Best Quality Tubing
Standard Open Top
Chrome Plated

- 7"-Length-----
- 9"-Length-----
- 12"-Length-----
- 15"-Length-----

'L' PATTERN



Standard size - to suit 1-1/8 x 20 gauge seat tubes - 'L' pattern

STRAIGHT POST

Fits RALEIGH



1" x 20 ga.
Best Quality Tubing
Standard Open Top
Chrome Plated

- 7"-Length-----
- 10"-Length-----
- 12"-Length-----
- 15"-Length-----

LUCAS CYCLOMETER



LUCAS
for 26" & 27"
Wheels
Striker----
Bracket---

Totals your miles as you ride.

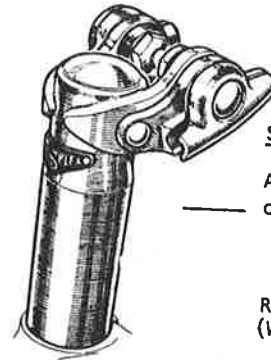
VDO Speedometer



... a brand new precision-instrument that will fit on short front axles on imported and domestic bicycles. The only speedometer which can be hooked up to a generator and illuminated for night riding. We carry bulbs in stock.

PARTS

- 101-Cable & Core-
- 102-Drive Assly--



SIMPLEX SADDLE PILLAR

Available in Diameter of: 26, 26.2, 26.4, 26.8, 27 and 27.2 mm.

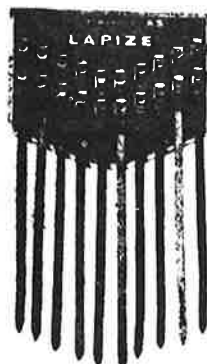
Ref TS 530 -
(Wt. 10 oz.)

TOE CLIPS



Ref. 50. "CHRISTOPHE"
Of chrome tempered steel. World-wide reputation. Suitable for sports, racing and competition machines.
Dimensions: Ref. 50 DAC short size.
Ref. 50 C medium size.
Ref. 50 SC long size.
Made up in boxes of 10 pairs.

TOE STRAPS



513 C

Ref. 513. LAPIZE
Of chrome leather. De luxe article. Colours: grey, red, green or blue. Quick fastening and release buckle fitted with brass roller. Essential for the rational use of "CHRISTOPHE" toe clips. The quick release system makes it possible to free the foot instantaneously.
Made up in:
Ref. 513 P. Packs of 25 pairs all of one colour (If no colour specified, the straps are supplied in red).
Ref. 513 C. Card with 10 pairs in assorted colours (3 red, 3 grey, 2 green and 2 blue).

CLOTHING SECTION

RACING JERSEYS



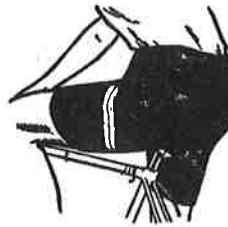
Road jersey - Wool, Durene, Cotton, or combination, reinforced knit collar, front pocket, many colors, short sleeve, front zipper.

SIZES: S, M, L, XL

Track jersey - Nylon, reinforced knit collar, front zipper, short sleeve.

Sizes: S, M, L, XL

SHORTS



Cycling shorts - Special narrowing, for professionals type 'Gran Classe', pure reinforced with nylon, non-shrink, hard wearing, seat in first class chamois.

Sizes; S, M, L, XL

Cycling shorts - woolep, chamois seat, washable.

Sizes: S, M, L, XL

A good value -

SHOES



MODEL No. 4

These high quality shoes made by Danish and Italian craftsmen are without a doubt the favorite of cyclists.

No. 4

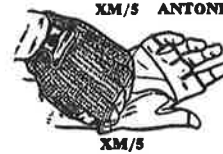
No. 6



DETTO PIETRO. MODEL PROFESSIONAL No. 6

Sizes for both models: 5½ 6½ 7 8 9 9½ 10½ 11 or the Continental equivalents: 39 40 41 42 43 44 45 46

GLOVES



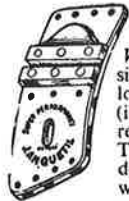
XM/5 ANTONIO RAMIS "Miguel." The famous Spanish mitts that are the choice of Brian Robinson and so many other "aces." Made in extremely light and supple washable chamois leather these mitts fit extra close. Seams are carefully finished and the palms neatly reinforced. Full string backs for coolness, and with finger ends having extra stitching for strength, these mitts are the ultimate in hand comfort. Square back opening with press stud fastening. Sizes 8 to 10 in half sizes.

XM/2 SERGAL



"Coppi." Introduced by the famous "Campionissimo" himself and still our most popular mitt. Made with backs of hand and thumb in full fine quality open design hand crocheted string. Fronts of superb soft leather with reinforced palm, elasticated front of wrist and with neat button to fasten V opening at the back.

SHOE PLATES



ANQUETIL

Weight 2 ozs. pr.) Manufactured in forged duralumin consisting of 3 pieces rivetted with copper and a special extra long steel plate to protect the shoe sole. ROAD model (illustrated) has an extra long base plate, joining the heel and re-inforcing the sole without losing the necessary flexibility. The famous French rider, J. ANQUETIL, claims that this design assists in avoiding cramp during long races in the wind or in the rain. TRACK model is shorter with deep cuts and extra strong base plate.

T.A. Here are the reasons why these shoe plates are different—and better.

- * The lightest—½ oz. only in finest 4G Duralumin.
- * The strongest—perfectly machined in one piece.
- * The most practical—carefully tapered into a deep slot.
- * The easiest to fit—new location slot enables the plate to be held with one tack to the shoe sole while exact position is set. (Set of tacks included in packet).



CRASH HELMETS



No. 2, ROAD HELMET "CM"

Pell syntex material, sponge rubber and inside lining of leather. Type Campione Del Monde.



CAPS

Caps - Good visor, light, assorted colors, washable, rear elastic.



No. 5, SIX DAY TYPE

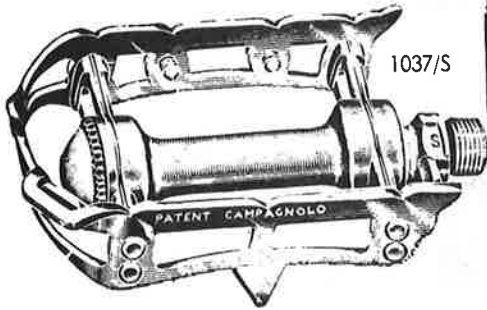
Extra heavy, all leather helmet, with sponge rubber padding.

MEUSETTE OR FEEDER BAG

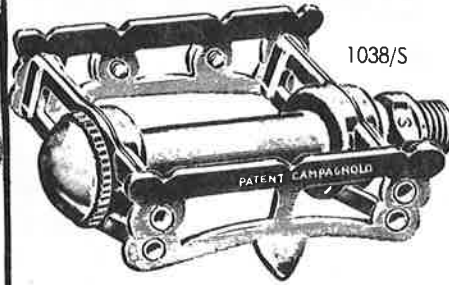


Suitable for handing up feeds during road racing. Also handy for carrying lunch and personal items.

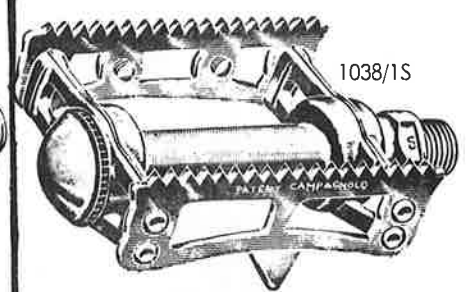
CAMPAGNOLO PEDALS



1037/S



1038/S



1038/1S

1037-Road Racing Pedals 1038-Track Racing Pedals 1038/1-Track Racing Pedals
 CAMPAGNOLO PEDAL PARTS



669



670



671



BEARINGS



672



673



674



675



676



677



678



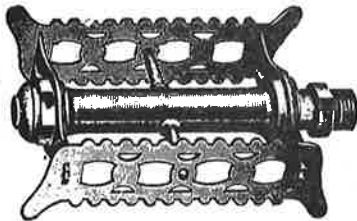
679

669-Right Hand Axle-----
 670-Left Hand Axle-----
 671-Washer-----
 672-Bearing Cup-----
 673-Lockwasher-----
 674-Adjusting Cone-----

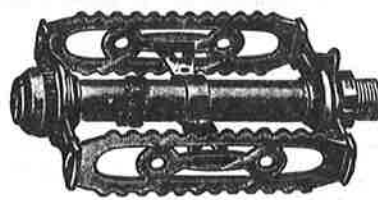
675-Lock Nut-----
 676-Bolt-----
 677-Washer-----
 678-Dust Cover-----
 679-Outer Nut-----

LYOTARD

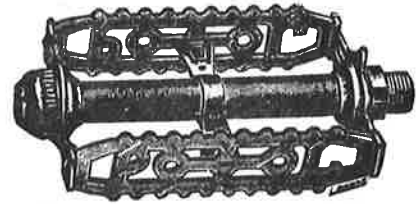
The finest **PEDALS** *in the world*



N° 36

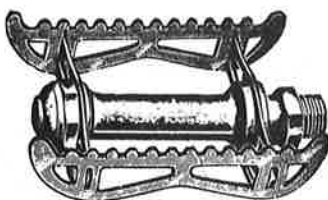


N° 460

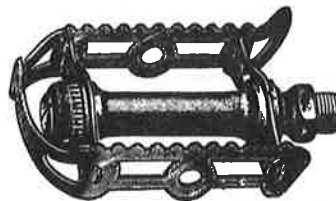


N° 240

36F-RAT TRAP CHROME PEDALS, 9/16" for FOREIGN CRANK-
 36A-RAT TRAP CHROME PEDALS, 1/2" for AMERICAN CRANK-
 460-STEEL COURSE RAT TRAP PEDALS, 9/16"-----
 240-DURALUMINUM COURSE PEDAL, 9/16"-----



FAUCHEUX COURSE



N° 45 N° 45 CA



N° 23

F-FAUCHEUX COURSE RACING PEDAL, STEEL, 9/16"-----
 45-RACING PEDAL, STEEL, 9/16"-----
 45CA-RACING PEDAL, DURALUMINUM, 9/16"-----
 23-MARCEL BERTHET PROF. RACING PEDAL, STEEL, 9/16"-----

USEFUL EQUIVALENTS

Frame Sizes

Inches	20	20.7/16	20.13/16	21.3/16	21½	22	22½	22.13/16	23.3/16	23.9/16	24	24½	24½
Cms.	51	52	53	54	55	56	57	58	59	60	61	62	63

Spoke Lengths (Measured from inside of the head to the end of thread)

Inches	11½	11.9/16	11½	11.11/16	11½	11.13/16	11½	11.15/16	12	12.1/16	12½
Mms.	292	293.6	295.2	296.8	298.4	300	301.6	303.2	304.8	306.4	308

Crank Sizes

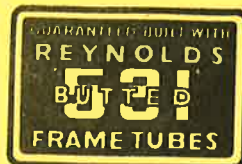
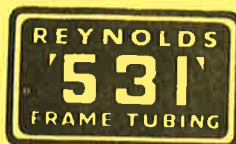
Inches	6.5/32	6½	6.9/16	6.11/16	6.13/16	6½	7	7.3/32
Mms.	160	165	167.5	170	172.5	175	177.5	180

Shoe Sizes

English	4	5	6	7	8	9	10	11	12	13	14
Continental Shoes	37	38	39	40	41	42	43	44	45	46	47
Bootees	39	40	41	42	43	44	45	46	47	48	49

Sp	GEAR CHART				CHAINWHEEL TEETH								27-INCH WHEELS				
	26	30	32	36	40	42	44	45	46	47	48	49	50	51	52	54	56
13	54.0	62.3	66.4	74.7	83.1	87.2	91.4	93.6	95.5	97.6	99.7	102.0	103.7	105.9	108.0	112.1	116.7
14	50.1	57.7	61.7	69.4	77.1	81.0	84.8	86.8	88.7	90.6	92.6	94.5	96.4	98.3	100.0	104.1	108.0
15	46.8	54.0	57.6	64.1	72.0	75.6	79.2	81.0	82.8	84.6	86.4	88.2	90.0	91.8	93.6	97.2	100.8
16	43.8	50.6	54.0	60.7	67.5	70.9	74.2	75.9	77.2	79.3	81.0	82.7	84.4	86.1	87.7	91.1	94.5
17	41.2	47.6	50.8	57.1	63.5	66.7	69.9	71.4	73.0	74.6	76.2	77.8	79.4	81.0	82.6	85.7	88.9
18	39.0	45.0	48.0	54.0	60.0	63.0	66.0	67.5	69.0	70.5	72.0	73.5	75.0	76.5	78.0	81.8	84.0
19	36.9	42.6	54.4	51.2	56.8	59.7	62.5	63.9	65.4	66.8	68.2	69.6	71.0	72.4	73.9	76.7	79.6
20	35.1	40.5	43.2	48.6	54.0	56.7	59.4	60.7	62.1	63.4	64.8	66.1	67.5	68.8	70.2	72.6	75.6
21	33.4	38.8	41.1	46.3	51.4	54.0	56.6	57.8	59.1	60.4	61.7	63.0	64.3	65.5	66.8	69.4	72.0
22	31.9	36.8	39.2	44.6	49.1	51.5	54.0	55.2	56.4	57.7	58.9	60.1	61.4	62.5	63.8	66.2	68.7
23	30.5	35.2	37.5	42.3	47.0	49.3	51.6	52.8	54.0	55.2	56.3	57.5	58.7	59.8	61.0	63.4	65.3
24	29.2	33.7	36.0	40.5	45.0	47.2	49.5	50.6	51.7	52.9	54.0	55.1	56.2	57.3	58.5	60.7	63.0
25	28.8	32.4	34.5	38.9	43.2	45.4	47.5	48.6	49.7	50.8	51.8	52.9	54.0	55.1	56.2	58.3	60.4
26	27.0	31.2	33.2	37.8	41.5	43.6	45.7	46.7	47.8	48.8	49.8	50.9	51.9	52.9	54.0	56.1	58.1
28	25.0	28.9	30.8	34.7	38.5	40.5	42.7	43.3	44.3	45.3	46.3	47.2	48.2	48.8	50.2	52.1	54.0

Below is illustrated one of the more popular tube decals, describing the tubes in a frame. Although the Reynolds tube is one of the best, other fine tubes are Falk, Columbus and others. Ask any reputable dealer what kind of tubing is in the bike of your choice.



Only the Top Tube, Seat Tube, and Down Tube of a frame with this transfer are made from REYNOLDS 531 Tubing—Plain Gauge.

The same three tubes are REYNOLDS 531 when the frame bears this transfer, but this time they are BUTTED.

All the tubing in a bicycle with this transfer is REYNOLDS 531 — Frame Tubes, Chain and Seat Stays and Fork Blades, and it is all plain gauge tubing.

This transfer signifies that the bicycle is an aristocrat, a thoroughbred — made throughout of REYNOLDS 531 Tubing, BUTTED for Lightness with Strength.

VITTORIA 'FULMINE' TUBULAR TYRE CARRIER

Created in Italy and patented throughout the world the VITTORIA "Fulmine" consists of a light dural frame which clips across the two wires under the saddle.

Attached to one end are double bands made in a special rubber, stamped under pressure, and having exceptional strength and durability.

At the other end of the rubber bands is a finger loop and security hook which attaches to another hook at the opposite end of the frame thus securing the spare tubular tyre firmly to the underneath of the saddle, but at the same time keeping it readily accessible when required in an emergency.

FIG. 1. Method of attaching the "Fulmine" to the saddle frame.

FIG. 2. Spare tyre folded and ready to be held, finger and thumb gripping finger loop.

FIG. 3. Security hooks contacted with tyre safely held.

NOTE. The "Fulmine" will also carry a cape or similar parcel.

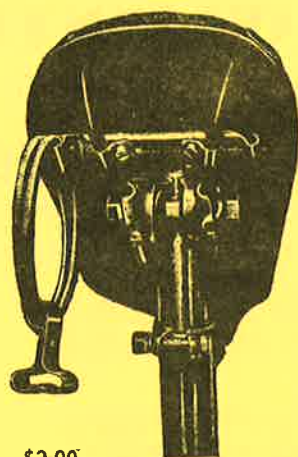


FIG. 1.

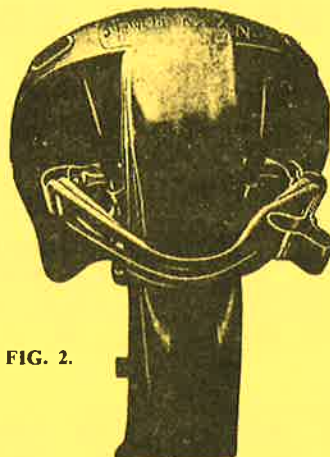


FIG. 2.

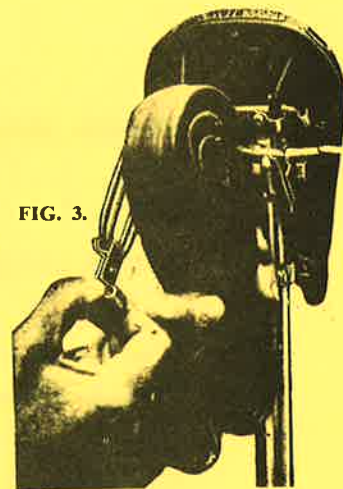


FIG. 3.

\$2.00

PIRELLI

THE LEADING TUBULARS FOR RACING CYCLES

(code 8 5 0) PIRELLI model Gran Premio

(code 8 5 1) PIRELLI model Corsa Legerissimo

(code 8 5 2) PIRELLI model Corsa Extra Legerissimo

"I depend on Pirelli Tires for the most traction" -- *Larry Palmgren*

"Best road holding tire ever" -- *Joe Leonard*

"Pirelli Tires have terrific bite" -- *Dick Klamfoth*

"Wonderful high speed stability" -- *Brad Andres*

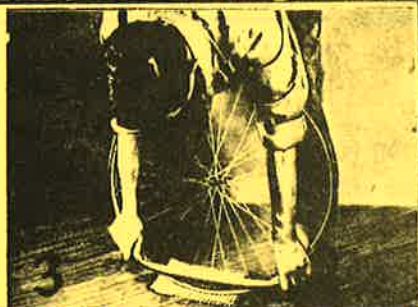
"Yet to find one to stick and hold like Pirelli" -- *Dick Mann*

"Fantastically long wearing" -- *Ed Kretz, Jr.*

"Sure sticks in the groove" -- *Carol Resweber*

"Safe and dependable at highest speeds; sharp cornering and hard braking" -- *Everett Brashear*

METHOD OF FITTING TUBULARS

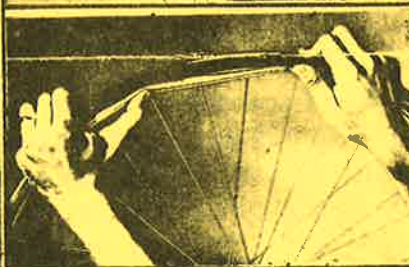
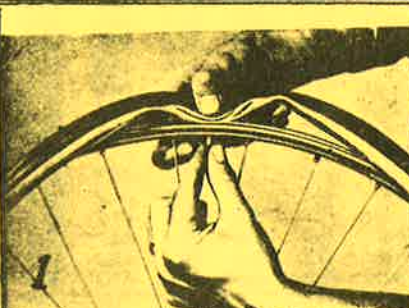


Clean tyre seat of rim.

Make sure that spoke ends and nipple heads are flush with the tyre seat of the rim. Protruding spoke ends will pierce the tyre rim tape and damage the stitching.

Track racing tyres Nos. 0, 1 and 6 are usually fitted to rims without the use of tacky or adhesive rim tape. Apply two or three coats of Dunlop rim cement to the tyre seat of the rim. As an alternative shellac is often used by leading riders instead of rim cement. A good bond is obtained this way, but quick tyre changes cannot be made easily.

For other tubular racing tyres tacky rim tapes are necessary. The tape should be firmly bedded down on the rim with two coats of Dunlop rim cement and allowed to stand for some time before fitting the tyre. This ensures that the tape will be fixed firmly to the rim and will not pull off when making a quick tyre change. Before fitting tyre apply one coat of Dunlop rim cement to the fitted rim tape.

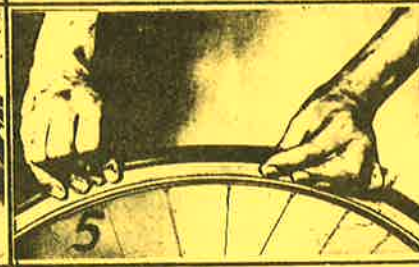
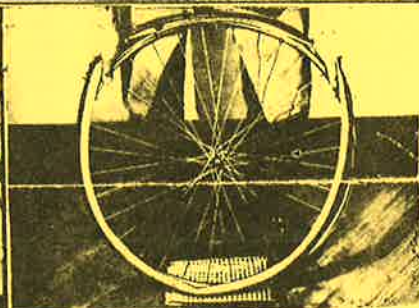


This will ensure a firm fit of the tyre on the rim, but when necessary to remove the tyre this can be done without pulling the tacky tape off the rim.

When the cement is tacky, fit the tyre as follows:

- 1 Completely deflate the tyre. An inflated or partly inflated tyre is constricted circumferentially and therefore more difficult to fit.
- 2 Stand the wheel in an upright position and insert the valve through the valve hole in the rim (Fig. 1).
- 3 Holding the tyre firmly with each hand, both sides of the valve, stretch slightly by pushing downwards (Fig. 2) and gradually work into position on the rim, finishing diametrically opposite the valve (Fig. 3).

An alternative method in place of the above. Place the wheel in a horizontal position and push against a table or bench.



4 Having fitted the tyre as far as possible, lift the assembly to a horizontal position and stretch the remaining portion of the tyre into place (Fig. 4). An even tension for the whole of the circumference is necessary if the tyre is to take up its proper shape and position on the rim.

5 Partially inflate the tyre, see that it is seated correctly on the rim and true it up before fully inflating (Fig. 5).

Allow a little time before using the tyre for the cement to become fixed.

It is important that the tyre should be firmly fixed to the rim. Otherwise the tyre will tend to creep round the rim when in use and as it is anchored to the rim by the valve, the tyre will pile up near the valve. This pile-up will appear as a bulge, resulting in a tyre of varying sectional width and giving uneven running.

CORRECT METHOD OF REPAIRING

TUBULAR RACING TYRES

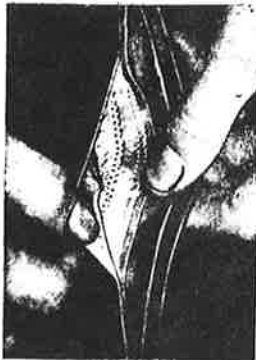


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

First deflate and then push the complete tyre off the rim. If the position of the puncture is not obvious, immerse the tyre in water and mark the spot where the leakage is taking place. Next, thoroughly dry the tyre.

The rim tape should be parted from the casing for a distance of approximately 4" either side of the puncture. (Fig. 1).

This tape is solutioned to the casing, and will pull apart from the casing provided a little at a time is taken.

The cross stitching which holds the casing in shape and prevents the tube from blowing out is now exposed. Before cutting these stitches and withdrawing the tube from the casing it is necessary to mark the two edges of the casing at suitable intervals so that when the restitching operation takes place the marks can be held opposite one another and the original stitching holes can be used again. By this method, it is possible to ensure the tyre will again take up its proper shape, that puckering will be prevented, and that there will not be any appearance of lumps or blisters after the repair is completed and the tyre mounted on the rim.

Fig. 2 clearly illustrates the stitching and correct method of cutting it. The inside tube protecting tape can now be pulled on one side. (On No. 8 tyres the inside tube protecting tape requires cutting for as short a distance as possible on one side only near the plain stitching).

The casing may now be pulled apart, thus exposing the tube. Withdraw the portion to be repaired (Fig. 3) and proceed in the following manner.

Clean the tube with very fine glass paper, and then wipe off the dust thus formed.

Next solution the tube only. When the solution is tacky, remove the linen backing from a Dunlop patch and press the patch firmly on to the tube, the specially prepared side of the patch being next to the tube.

Apply chalk around the repair to prevent the tube adhering to the casing.

Examine the casing, and if a fracture has occurred apply a special Dunlop Canvas patch on the inside. Any tread cuts should be thoroughly cleaned and sealed with tyre stopping compound.

The tube is now ready to replace in the casing. Care must first be taken to remove any grit or dirt which may have worked inside the tyre. Replace the tube in the casing in its normal position, and make sure that the tube protecting tape is lying correctly, being free from puckers or creases. On the No. 8 tyre where cutting of this tape was necessary restitching is not essential.

Restitch the casing, making sure that the marks are exactly opposite each other and that the tube is held in such a position that it will not be damaged by the needle. Fig. 4 indicates the best method of holding the tyre and the type of stitching needed. For the last portion, the blunt end of a pencil should be inserted in order to push the tube away from the stitching. (Fig. 5).

After the stitching operation is completed, flatten out the casing so that the tyre when refitted to the rim reseats itself correctly. Having done this, lightly solution the rim tape and replace in position on the casing.

When refitting to the rim, clean off any surplus solution (or cement) from the tyre seat of the rim and the rim tape of the tyre, and then proceed to fit in the usual way.

THE CARE OF TUBULAR RACING TYRES

It is most important to use recommended pressures, particularly as the propelling force is provided by human effort. Power loss or rolling resistance of the tyre varies considerably with the pressure in the tyre. For example, an under-inflated tyre travelling at 20 m.p.h. will consume 30 per cent more power than a tyre correctly inflated. This means that with an under-inflated tyre the rider will have to exert more power on the pedals to maintain the 20 m.p.h.

On a fine, even track surface, a highly inflated tyre will transmit the maximum power put on the pedals to the track surface in the form of speed, without machine chatter or wheel spin, but it would be unwise to use the same pressure when riding on the road. The unevenness of the road, and some track surfaces, cause considerable wheel bounce, and a large amount of energy would be lost owing to the driving wheel being frequently off the ground. These conditions would also give a very uncomfortable ride.

Because of these different surface conditions, it is not practicable to suggest exact pressures to suit individual riders and all conditions of use, but the following recommendations will enable the rider to make a choice to suit his purpose.

For tracks having very smooth surfaces and free from bumps: rear tyres 90 to 120 lb. per sq. inch.

For tracks with uneven surfaces: rear tyres 80 to 100 lb. per sq. inch.

For road racing, according to the type of surface: rear tyres 75 to 100 lb. per sq. inch.

Grass track surfaces vary considerably, consequently a wide range of pressures are used by riders to suit their own individual choice, usually about 50 to 85 lb. per sq. inch.

Front tyres may be inflated to 8 to 10 lb. per sq. inch less than rear tyres.

For tandem cycles, these pressures should be increased by 10 to 20 lb. per sq. inch to cater for the extra load on the tyres.

The G/17 Dunlop High Pressure Cycle Tyre Pressure Gauge is designed for testing the inflation pressure in Dunlop Tubular Racing Tyres and Dunlop Road Racing (High Pressure) Tyres, fitted with Dunlop Racing or Presta type valves.

The G/17 gauge enables the discerning rider to use the pressure ideal for his particular type of riding, racing or time trial work on road or track.

Even the most expert rider will find it very difficult to judge tyre pressures by just feeling the tyre, or perhaps kicking it, particularly when tyres are inflated hard.

When the most suitable pressure has been determined by taking a reading with the G/17 gauge, the rider can, with certainty, always reproduce with complete accuracy the same tyre conditions at any time.

The gauge should be pressed firmly on to the partially opened valve otherwise variations in reading will occur.

IMPORTANT

It is inadvisable to leave tyres inflated to high pressures for long periods, particularly when exposed to the sun. Riders of international repute always reduce the pressures immediately after riding to reduce to a minimum the high stresses imposed on the tyre casing by the high inflation pressures.

Big Wheel, Ltd.

Bicycle Specialist

◆ SERVICE ◆

310 HOLLY STREET
DENVER, COLORADO 80220

Support the A.B.L.

JOHN BULL JR



JOHN BULL
JUNIOR REPAIR OUTFITS

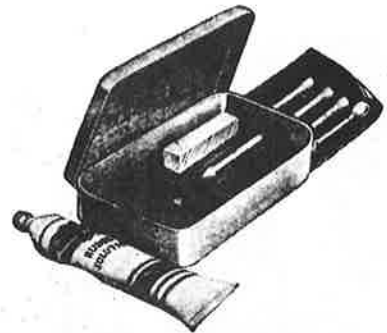
REPAIR OUTFITS

JOHN BULL



JOHN BULL
LONG REPAIR OUTFITS

WELDTITE



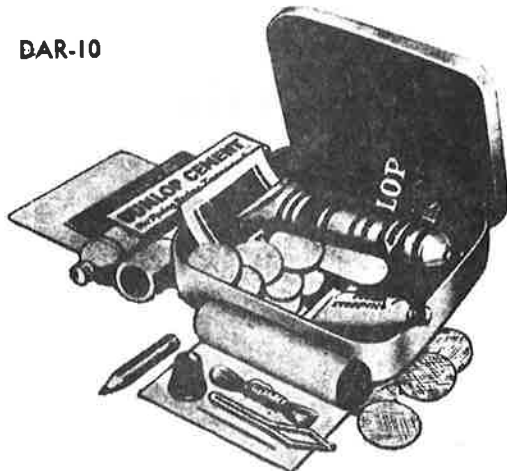
CYCLE REPAIR
OUTFIT
Self Vulcanising

DUNLOP

TUBE AND TIRE
REPAIR MATERIALS

**The Dunlop Tubular Racing
Tyre Repair Outfit**

DAR-10



CONTENTS

- 1 Tube Solution.
- 1 Tube Rim Cement.
- 1 Tube Tyre Stopping Compound.
- 1 Solutioned Fabric. 6" x 2".
- 1 Patching Rubber. 3" x 1"
- 8 Repair Patches.
- 4 Fabric Patches.
- 1 Open-ended Thimble.
- 1 Triangular Pointed Needle.
- 12 Yards Thread.
- 1 Square Glass Paper.
- 1 Cylinder French Chalk.
- 1 Tube Extractor.
- 1 Crayon.

DUNLOP TUBE REPAIR KITS

Dunlop Kit for regular use. Small enough to fit in a tool bag. 12 per counter display box.



DAR-7

DUNLOP RIM ADHESIVE TAPE

4 1/2 Yards x 3/4"

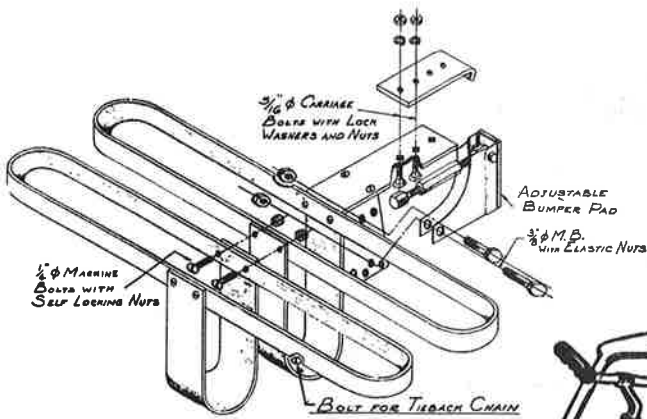
For fixing Tubular Tires to Rim.

RIM CEMENT

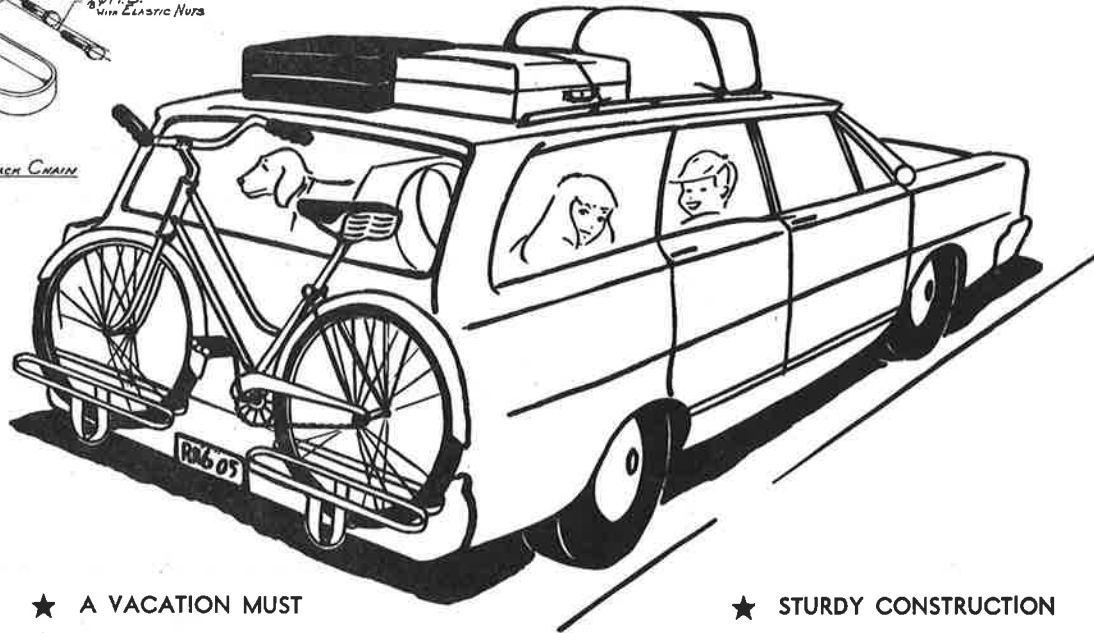
For Tubular Tires

Track Tire Cement Shellac
Road Tire Cement Adhesive

SPORT CYCLE CARRIER



Shipping weight 23 lbs.

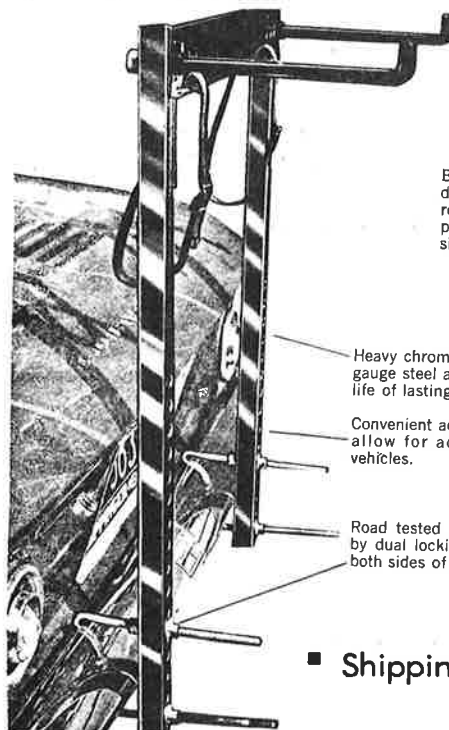


- ★ A VACATION MUST
- ★ FITS MOST ANY BUMPER
- ★ SAFELY CARRIES TWO BICYCLES

- ★ STURDY CONSTRUCTION
- ★ DURABLE PLATED FINISH
- ★ PROVEN DESIGN

BIKE TOTER

Trademark



Easy to load, vinyl-coated brackets permit a variety of mountings without scratching the cycle finish. (Straps included)

Bicycle can be mounted under "V" of frame for greater road clearance or lower on parallel bar for less wind resistance.

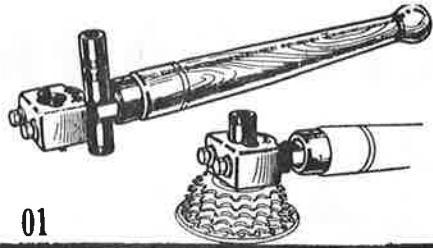
Heavy chrome plating on 18 gauge steel assures a longer life of lasting beauty.

Convenient adjustment holes allow for adaption to all vehicles.

Road tested and safety insured by dual locking nuts located on both sides of the carriage posts.

■ Shipping weight 9 Lbs.

VAR FREEWHEEL REMOVERS AND TOOLS



01

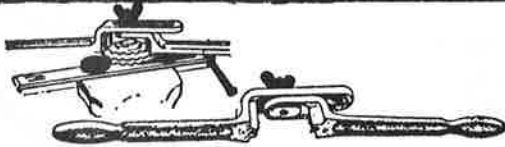
Freewheel remover for 1, 2, 3, 4 or 5 speeds on axles $9\frac{1}{2}$ - 10 - 11 mm. \varnothing on ordinary or quick release hubs.
Length: 22"

03



Freewheel & chain wheel vice. Adjustable holders made of special alloy to avoid damage to the teeth.

04



Sprocket removing tool, used in combination with jaw vice guarantees rapid changing of sprockets without damage.
Length: 30"

12



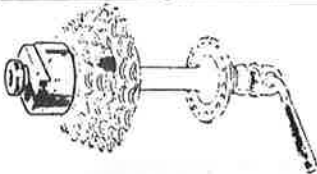
Freewheel jig. Fits in a jaw vice and opens up in the interior of the freewheel thus permitting easy repair.

186



Freewheel remover for "MILREMO - SUPREMO - DUBAN-PRIOR" freewheels. Made from specially treated chromium-nickel steel.

186
bis



Freewheel remover for "MILREMO - SUPREMO - DUBAN - PRIOR" freewheels when fitted to quick release hubs. Indispensable for racers. Specially treated steel.

187



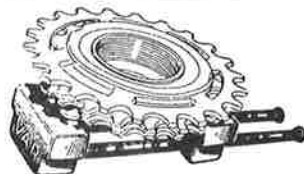
Freewheel remover "standard" type. Treated steel.

188



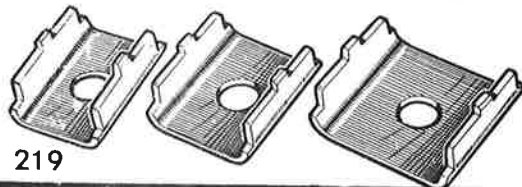
Freewheel remover for 4 and 5 speed "MOYNF REGINA" freewheels. Treated steel.

210



Freewheel jaw vice. Sliding grips made of special bronze aluminium. To be used in vice.

219



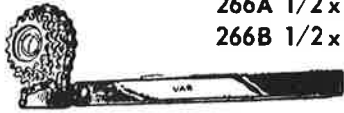
Set of 3 handy tools to dismount multi-speed cogs and freewheels. Each bicycle racer should have this set.

252



Sprocket remover. Range 12 to 28 teeth. Very handy for unlocking fixed cogs and freewheel sprocket. Length: 14".

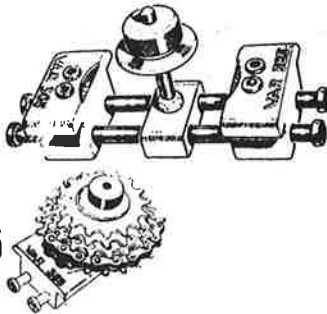
266



266A 1/2 x 1/8 -
266B 1/2 x 3/32 -

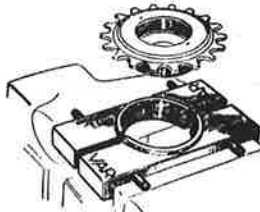
Removes sprockets without any damage to teeth. Can be supplied with either 1/2" or 3/32" pitch chain. Please specify required thickness. Length: 12"

365



First universal freewheel remover that removes EVERY sprocket. Fits every brand of freewheel. This is the tool you have been looking for!

368



Indispensable tool to remove the last sprocket of "ATOM - REGINA or MOYNE" freewheels. Gives full protection to the threading of the freewheels.

V A R TOOLS

02



Caliper brake shoe clamp. The third hand indispensable for gripping the brake shoes in position during adjustment of the cable. Length: 12".

11



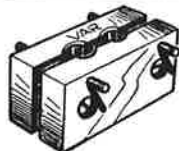
Combined tool set. Permits the extraction of cotterless crank, locks the axle screw and tightens dust cap.

13



Alligator type pliers for adjusting all locking rings, washers, dust caps, freewheel locking plates with round recesses. Adjustable plier jaws permit 2 positions of cylindrical pins (vertical or horizontal).

14



Hub axle vice. Indispensable for holding firmly all sizes of axles from 7 to 14 mm dia. without any damage to threads.

16

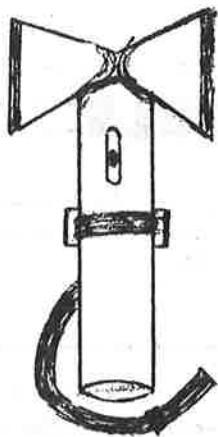


Pliers for locking and unlocking (one hand) head or bracket lockrings. Replaceable pegs. Tool locks in two different positions. Length: 11 1/2".

BIG WHEEL LTD. carries a complete line of Cycling merchandise. If you do not find what you want listed, in this catalog, please write us with your request and we will do our best to fill your order to your specifications.

We are recognized experts in Custom Wheel Building. Any size or type of Cycling wheel will be built to your requirements. Our prices average \$14 per pair for labor; parts are extra. Also add \$2.00 per wheel for tie and solder. We will be glad to give you an exact quote prior to starting work. Send us your specifications and we will forward you the exact price.

We are also specialists in framing. We accept orders for custom built frames, built to your specifications including; 531 Tubing, Double Budded throughout, Fully Chromed, and complete with frame and fork.



**A REAL SPECIAL - - Arm or Leg Band LIGHTS
For added safety - -**

We carry a complete selection of the following well-known tires:

**CLEMENT
MICHELIN**

**DUNLOP
GOODYEAR**

(See the catalog for PIRELLI prices)

REMEMBER: Whatever your cycling requirements, be sure to contact **BIG WHEEL LTD.**, 310 Holly St., Denver, Colo., Phone 333-2449.

Misc TOOLS



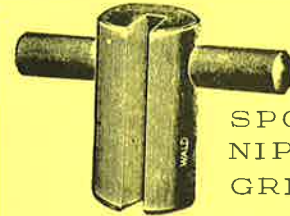
Set of 3 bicycle spanners
with tire levers



PEDAL WRENCH
19/32" 12" Length



Tyre levers
for bicycles and autocycles,
set of 3 pieces in card-board
box, nickel-plated



No. 74

SPOKE
NIPPLE
GRIPS

Popular seller, has positive grip,
preventing the rounding of corners
of spoke nipples. Recommended for
small size velocipede wheels. Good
quality steel and hardened to give
long satisfactory service.
Satin Plated Finish.



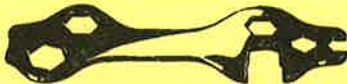
DUMBBELL SPANNER
TEN IN ONE



No. AAB 305
PEG AND CONE SPANNER



No. AAB 301
FIVE HOLE SPANNER



No. AAB 303
SIX-WAY SPANNER



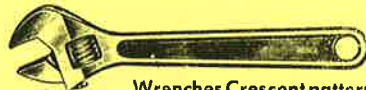
WRENCH SET



No. AAB 309
FLYWHEEL REMOVER
SPANNER



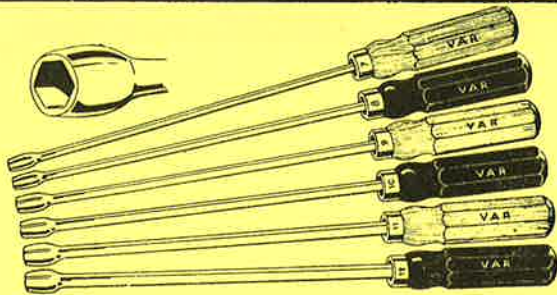
No. 23 Pliers for steering heads
drop forged steel, black, with
polished jaws, length 10 inch.



Wrenches Crescent pattern
No. 90 drop forged steel,
jaws and edges polished
6" 10"

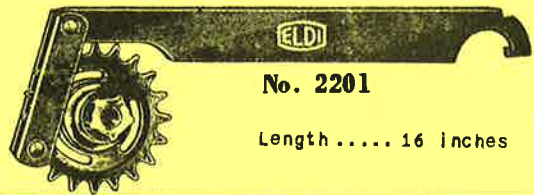


No. 71A
Wire cutting nippers
side cutting, extra strong, for
hard wire, black with polished
jaws
length inch. 6 1/2
weight oz. 7



Extra long screwdriver with adaptor, chrome molybdenum steel, to reach nuts attached to mudguard.
Set of 6: 7-8-9-10-11-12 mm.
Length: 16".

SPROCKET REMOVER



No. 2201

Length 16 inches



Brushes for hubs
with long bent up handles

PEDAL WRENCH WALD... No. 15



Made from Chrome Molybdenum Steel. Overall length 8 in., heads are 3/16" thick, openings 9/16", and 19/32", the perfect pedal sizes.
Satin Plated Finish

PEDAL WRENCH No. 61



One end fits domestic bikes and other end fits imported bikes. Chrom-vanadium steel, nickel-plated with pol. 13-1/2" long.



No. 30Y2

New Standard Pedal Tap, R. and L., Double Ended.

RATCHET SCREW DRIVER



Can be used for building wheels as well as regular screwdrivers.

WEINMANN



No.
555



No.
666

Special WEINMANN PLIERS for fastening the Cable Connecting Strips; Partno. 555.

Special screwdriver for tightening pull up bolt (101-W, 4-W) in levers : Partno. 666.



SET WEINMANN Wrenches (6 pcs.); Part no. 444.

DON'T FORGET YOUR
STURMEY-ARCHER OIL



KOMET
CYCLE GREASE



A premium quality grease suitable for all types of gears and bearings.

.30 ea.

HANDLEBAR TAPE

We can supply the following types of Handlebar Tape:

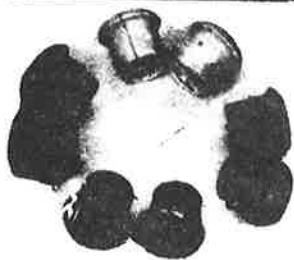
PLASTIC: Non-adhesive backed, waffle embossed.

PLASTIC: Adhesive backed, smooth finish.

CLOTH: Adhesive backed, herringbone finish.

These tapes are available in all standard colors:

Black, Red, White, Green, Blue, Yellow, Grey, Purple and Gold.



-HANDLEBAR
END PLUGS

#401 for 7/8" I.D. Bars

#402 for 15/16" I.D. Bars



ADHESIVE TAPE WAFFLE EMBOSSED

4 Yard Rolls 24 Rolls to Ctn.

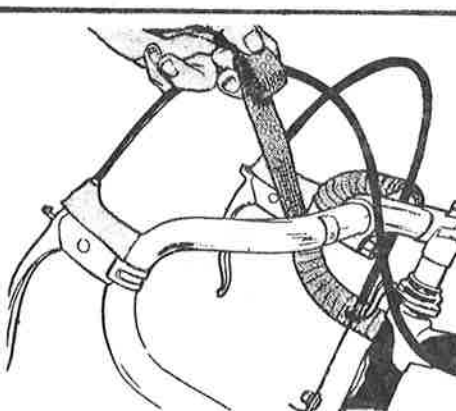
#1-Black

#3-Red

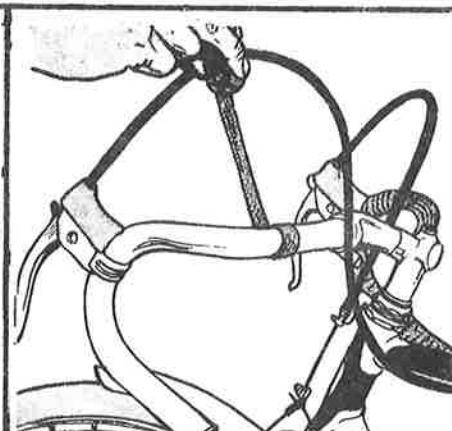
#2-White

#4-Blue

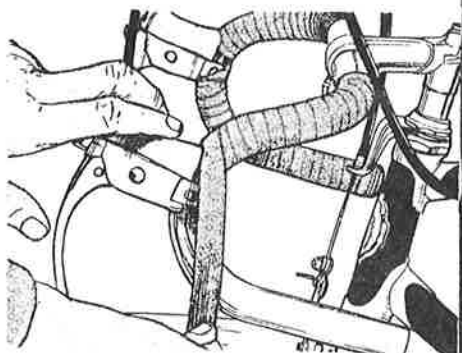
TAPING THE HANDLEBARS



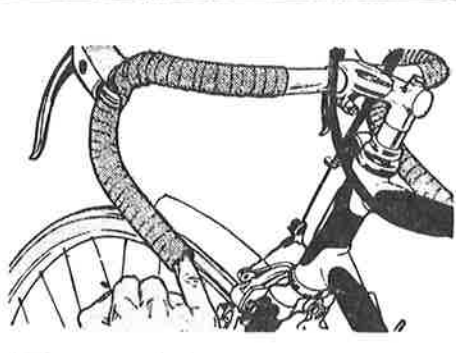
1 Both plastic and cloth tape have their advantages; which type you use is entirely up to you. If the cloth is adhesive, start at the bottom and work upwards; if not, it will have to be plugged into the end of the bars with a rubber or plastic 'bar plug' and starting at the top of the 'bars' is necessary.



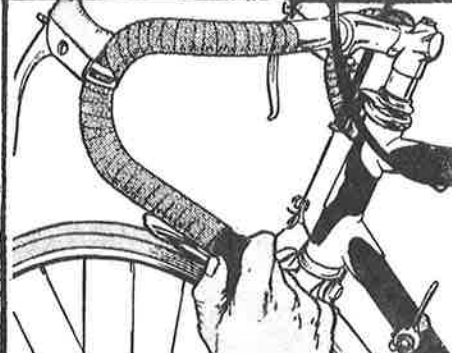
2 Leave about two inches of space on each side of the 'bar extension clip. Stick the end of the tape to the 'bar with a small piece of adhesive tape or paper. Then work downwards towards the brake lever, making sure not to leave any unsightly gaps of metal between each twist of the tape.



3 Tape over the lever (useful for added comfort if the lever is not fitted with a honking rubber), or (as illustrated), loosen the lever, tape the 'bar inside it and over the clip, then screw the lever tightly back.



4 When you reach the end of the 'bar, push about two or three inches of tape inside the end of the 'bar with your finger. Then check to see that you have left no gaps through which metal is showing.



5 Finally, plug the end with a 'bar plug, which will secure the tape and complete a workmanlike job.

Big Wheel, Ltd.

Bicycle Specialist

310 HOLLY STREET
DENVER, COLORADO 80220

WING NUTS

Gripfast



No. 1

LEVER WING NUTS

CHROME PLATED

5/16" Front-----

3/8" Rear-----



CHROME PLATED

5/16" Front-----

3/8" Rear-----



BRASS PLATED

5/16" Front-----

3/8" Rear-----

TRACK NUTS



Standard Model

CHROME PLATED

5/16" Front-----

3/8" Rear-----



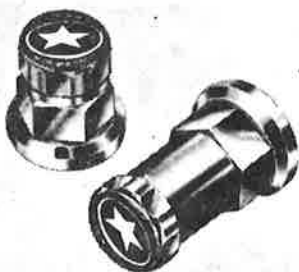
Domed Model

CHROME PLATED

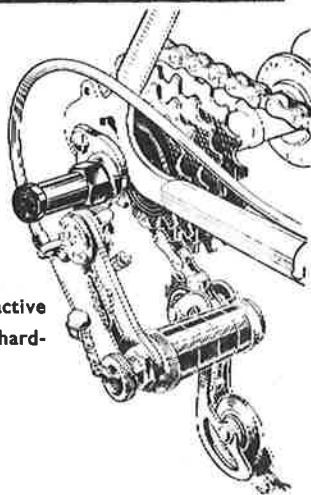
5/16" Front-----

3/8" Rear-----

GEAR PROTECTOR TRACK NUTS



Ideal gear protector against fall of cycle. Attractive and well-finished component. Solid serrated hardened revolving washer.



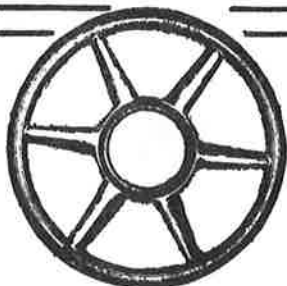
GEAR PROTECTOR WING NUTS



No. 8260

Chrome Plated

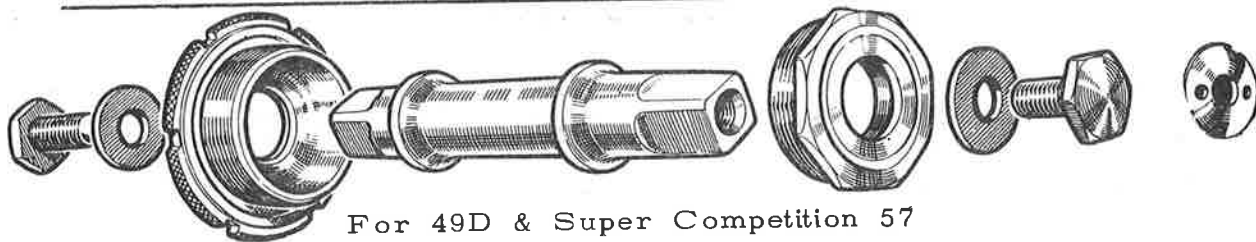
For 3/8" Rear Axle
Used with Derailleurs



DERAILLEUR

SPOKE PROTECTORS

STRONGLIGHT #32N-COTTERLESS CRANK AXLE SETS



Cotterless Crank Axle-----
 Right Hand Crank Cup-----
 Left Hand Crank Cup-----

For 49D & Super Competition 57
 Left Hand Lock Nut-----
 Cotterless Axle Bolt & Washer-----
 Cotterless Crank Dust Cover-----

STRONGLIGHT NO. 34 STANDARD BOTTOM BRACKET ASSEMBLY

Axle made of chrome-nickel steel, drilled through. Ground bearing surfaces. Lightened cups. Fixed, octagonal. Adjustable, hexagonal. Available in French or English Standard. Lengths: 125, 127, 130, 132, 135.

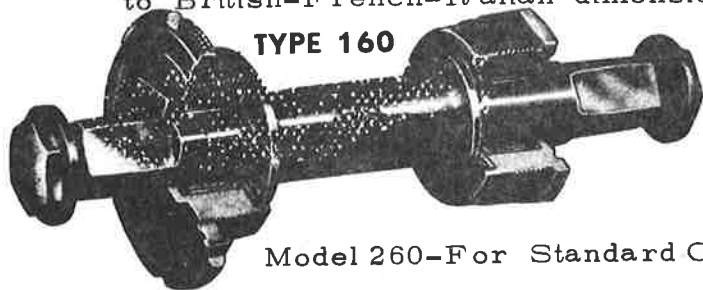


Weight : a set: 10 oz.

Cottered Axle---
 Left Cup-----
 Right Cup-----
 Lock Nut Washer-----

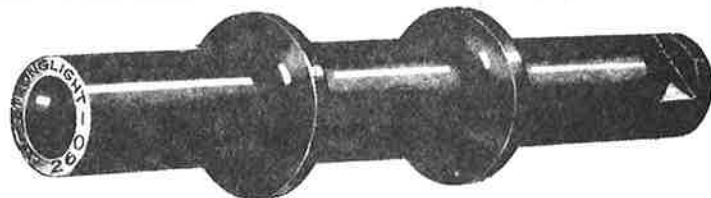
STRONGLIGHT BOTTOM BRACKET SET with NEEDLE ROLLER BEARING

Axles made from nickel chrome with large bearing surface precision ground. Both cups incorporate a complete needle roller bearing assembly. This set is available to fit bicycles with Bottom Bracket shells made to British-French-Italian dimensions.



TYPE 160

Model 260-For Standard Crank Sets



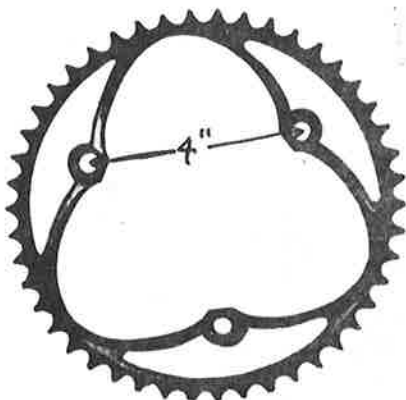
TYPE 260

Model 160-For use with Cotterless Stronglight crank sets 49D & Super Competition 57

NERVAR CHAINWHEELS

WILL FIT ANY STANDARD CONTINENTAL 3-PIN OR 5-PIN CRANKS

Of chromed steel, with double chain bearing flange. For 1/8" or 3/32" chains.



Ref. 3. 3-PIN MOUNTING CHAIN-WHEEL

The 3-pin chainwheel with two chain-bearing flanges is the companion to the 3-pin treated or setted crank; by loosening the three screws the chainwheel can be changed rapidly without the necessity of removing the crank.

Teeth: 44-46-47-48-49-50.
 3/32".

Fixing Screws are not supplied with order but can be supplied separately

3-pin screws

5-pin screws



Ref. 5. 5-PIN MOUNTING CHAIN-WHEEL

Teeth: 44-46-47-48-49-50.
 3/32".

Big Wheel, Ltd.

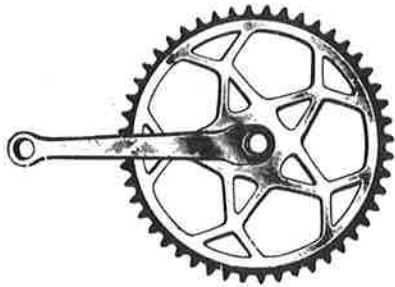
Bicycle Specialist

◆ SERVICE ◆
 310 HOLLY STREET
 DENVER, COLORADO 80220

WHEN ORDERING PLEASE SPECIFY
 In the case of chainwheels: number of
 teeth and chain size.

CRANK PARTS

CHAINWHEEL



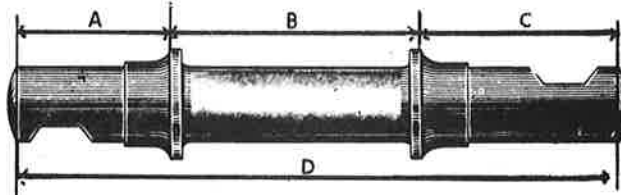
The above Chainwheel and Right Arm is available in the following sizes

- 7" CRANK 48 TOOTH SPROCKET
- 6½" CRANK 46 TOOTH SPROCKET
- 5½" CRANK 40 TOOTH SPROCKET
- 4½" CRANK 32 TOOTH SPROCKET
- 4" CRANK 32 TOOTH SPROCKET
- 4" CRANK 28 TOOTH SPROCKET

BOTTOM BRACKET AXLES



Measure all 4 sizes for proper axle and check for number stamped on axle.



No.	A	B	C	D
11	1-3/8	2-7/32	1-13/16	5-13/32
14	1-9/32	2-1/16	1-5/8	4-31/32
15	1-5/16	2-1/16	1-5/16	4-11/16

LEFT CRANKS



This picture shows how to measure crank length.



The above Crank is available in the following sizes:

- 7", 6½", 5½", 4½", 4"

CRANK COTTERS - NUTS



Standard Patern Crank Cotters, complete made from hard steel.

Nuts Only

Complete

BOTTOM BRACKET - CUPS and LOCK RING



Left Bottom Bracket Cup



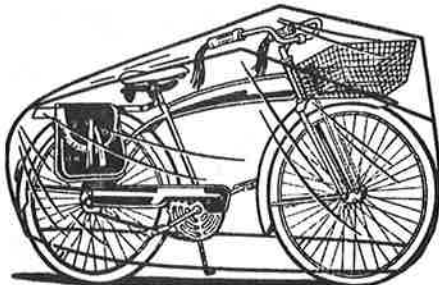
Right Bottom Bracket Cup



Lock Ring

26" CHAIN GUARD

PROTECTO BICYCLE COVERS



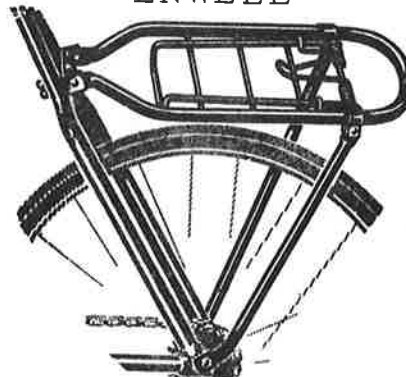
Bike shed, for complete bicycle protection. Strong Vinyl Plastic Construction — Fits all bikes

WG101 as above in double weight opaque vinyl

BLUE (Number).....

BRACKET AXLE UNIT

ENWELL



No. 215

15" x 6-1/2"
Large Size, Black Tubular
Carrier Axle Attachment

Cycle Pumps & Fittings



No. 42



No. 38

All "SOLIBLOC" pump barrels are made in one piece, making leakage of air impossible. The technique used in their manufacture is a guarantee of sturdiness. The strength of a heavy pump combined with lightness.

Ref. 42. "ZEFAL SOLIBLOC" racing
Of polished duraluminium.
Dimensions 18" · 7/8".

No. 38. "TORNADE SOLIBLOC"
Of polished light metal
Dimensions: 15" · 15/16".
Made up in boxes of 20 pumps.

VERY IMPORTANT.

POU TRAIT-MORIN Pumps are supplied with connections for either

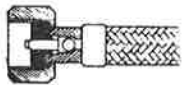
DUNLOP or WOOD Type valves (English) or
SCLAVERAND Type valves (French)

without extra charges.

Slight extra charge for SCHRAEDER Types valves (American)

For the latter we strongly recommend the "AFA" clack-valve connection.

Pumps of any length can be supplied on request with a polished, coloured or brilliant finish obtained by means of anodal oxydation or electrostatic painting.



1041
Clack-valve



1077

SPECIAL CONNECTIONS

Ref. 1041. "AFA" clack-valve connection for SCHRAEDER pattern valves incorporates a push-rod which eliminates pressure inside the valve and a clack-valve which restores airtightness inside the connection.

WITH AN "AFA" CLACK-VALVE CONNECTION TYRES FITTED WITH SCHRAEDER PATTERN VALVES CAN BE INFLATED WITHOUT EFFORT.

Ref. 1077. EXPRESS CONNECTION

Of duralumin. Fitted direct to the barrel of the pump, allows of the rapid inflation of tyres fitted with Sclaverand valves without the necessity for a rubber connection.

Made up in show cards of 20 connections.

WHEN ORDERING PUMPS, PLEASE SPECIFY.

The type of valve for which a connection should be supplied. The price of pumps includes the rubber connection.

APEX "GRAND PRIX" ALUMINUM ALLOY PUMPS



Racing—with Red, White, & Blue Bands

18 x 15/16"-----

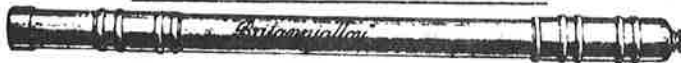
17 3/8 x 15/16"----

Regular Size

15 x 7/8"-----

Fitted with Presta type valve connections.

"BRITANNIALLOY" LIGHT ALLOY PUMPS



Fitted with 5" braided connections for Schrader Type Valves.

No. 310—15"x 7/8"-----

No. 404—18"x 7/8"-----

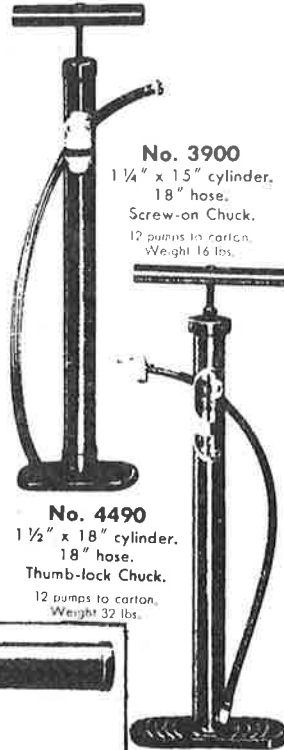


A good quality pump with 5 1/2" braided hose for American valves. Spring handle.

PUMP - Metal, Nickel Plate.....

PUMP - Metal, Black or Color.....

PUMP - Celluloid, Black or White.



No. 3900

1 1/4" x 15" cylinder,
18" hose,
Screw-on Chuck.
12 pumps in carton.
Weight 16 lbs.

No. 4490

1 1/2" x 18" cylinder,
18" hose,
Thumb-lock Chuck.
12 pumps to carton.
Weight 32 lbs.

PUMP CLIPS



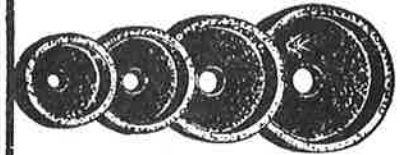
TERRY NO. 1171 Pump Clips.
Black Enamelled. 1-1/8" or
7/8" Diam.



No. 1411

Snap-On Pump Clips
Easy to Install
Chrome Plated

PUMP WASHERS



Superior quality—packed in tubular cylinder ready to use

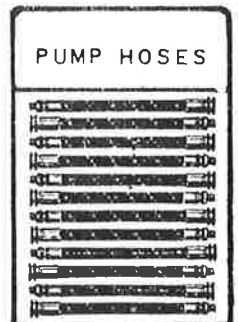
WASHER PUMP

PUMP CONNECTION ADAPTORS



Converts an English valve to use an American Pump

PUMP CONNECTIONS



PUMP HOSES

Braided, 5 1/2" long. Reinforced instant spring hold Carded 12



CONVERTING YOUR 3-SPEED GEARS TO 6 OR 9-SPEED in Six Easy Stages

CYCLO BENELUX CONVERSION KIT
#CB 70 for converting
Sturmey-Archer 3-speed gears
into 6-speed;
#CB79 into 9-speed

Carefully observe the type of Sturmey-Archer 3-speed you have — AW or SW. This reference is marked on the hub shell (see Fig. 1). When ordering a conversion kit, it is necessary to state whether the conversion is being done for AW or SW and whether a threaded or splined driver is used. Note: Unless your Sturmey-Archer 3-speed gear is more than 8 years old, it is most likely to use a splined driver.

FITTING INSTRUCTIONS

Stage 1. First determine whether the type of your 3-speed gear is AW or SW. This information is found stamped on the hub shell. See Fig. 1. Next see if the sprocket is attached by threads or 3 splines, Fig. 2. As already stated, it is necessary to know whether a threaded or splined driver is used in your existing 3-speed hub. A visual indication of a splined driver being used is a split snap ring in center of sprocket.

Stage 2. Remove the present sprocket and replace it by a splined body (J) Fig. 2, in the case of the splined driver, or a thread sleeve (K) Fig. 2, in the case of a threaded driver.

To remove a sprocket fitted to a splined driver, it is only necessary to pry the split snap ring (F) Fig. 2, at the opening with a screw driver and the ring will snap off. In the case of a threaded driver, a blunt-nose chisel can be tapped with a hammer in the opposite direction of normal rotation and the sprocket will unthread from the driver (L) Fig. 2. For unthreading a screwed sprocket, it is necessary to remove driver from hub.

Stage 3. Now with the wheel removed from the frame you can insert the derailleur gear mechanism in the chainstays (A) Fig. 3, until it seats itself, and then tighten bolt and nut (C) shown in Fig. 3.

Stage 4. If you have not done so already, screw the sprockets onto either the threaded or splined body assuring that the proper spacing is maintained, i.e. if sprockets have flanges, they must face inwards towards the hub.

Stage 5. The gear is now ready for threading the chain. It may be found that with your existing 3-speed arrangement that the chain is too short by a couple of links. It is best that no connecting

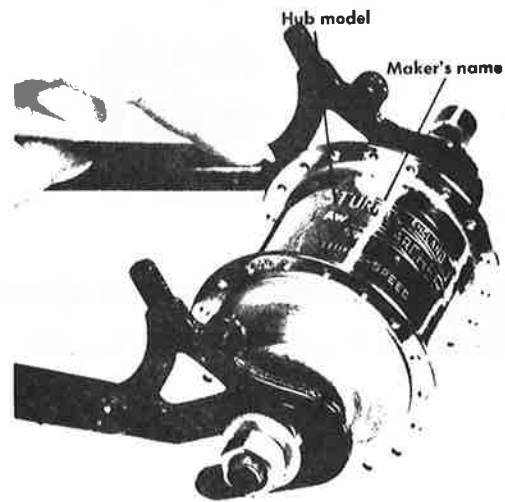


Figure 1: Finger points to markings on hub shell where maker's name and hub model index is stamped. Wheel spokes have been removed for demonstration purposes only.

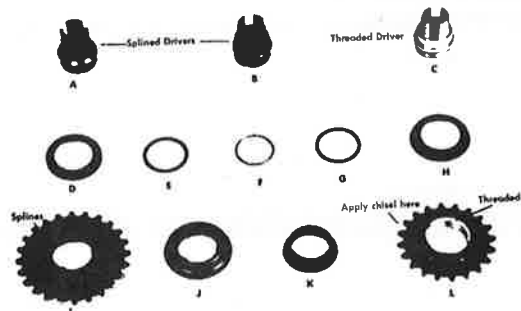


Figure 2: Parts line up merely to show splined parts against threaded or screwed parts (drivers and sprockets).

links be used and that the new links be riveted to the old by a chain rivet tool as shown in Fig. 4. A chain rivet tool, relatively inexpensive, is available from your dealer. The chain should be lengthened so that it adjusts easily over the largest sprocket. The chain is threaded through the gears as shown in Fig. 5.

Stage 6. The last step is the final adjustment, and this is a matter of one rough adjustment and two fine adjustments. First the initial adjustment on the chain tension. There should be sufficient tension on the driving chain in all gears. If there is not enough tension, then the spring (B) Fig. 3 should be given a slight turn clockwise.

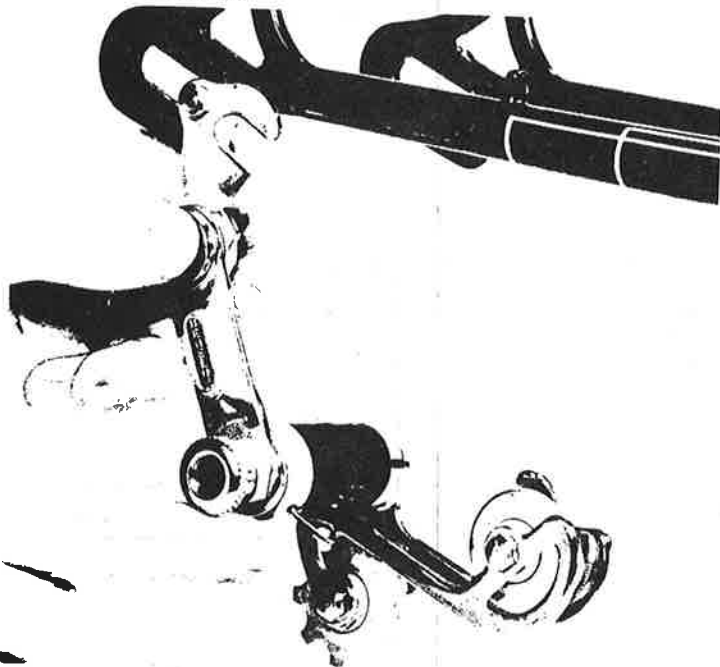


Figure 3: Inserting derailleur gear mechanism into chainstays, after removing wheel from frame.

Now line up the low, or largest, gear sprocket with the 9-tooth jockey pulley, (A) Fig. 5, by loosening locknut (B) Fig. 5, and adjusting knurled knob (C) Fig. 5. When low gear sprocket and pulley are in line, tighten locknut (B) Fig. 5.

The last adjustment is to insure that 3 chain rivets or one and one half chain links exist between the low gear sprocket and the 9-tooth jockey pulley (B) Fig. 6. This is accomplished by adjusting screw (D) Fig. 5 or 6 in one direction or the other.

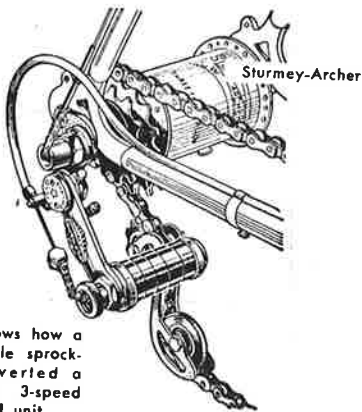


Illustration shows how a Benelux (double sprocket) has converted a Sturmev-Archer 3-speed into a 6-speed unit.



Figure 4: Using chain rivet tool when adding two more links to lengthen chain.

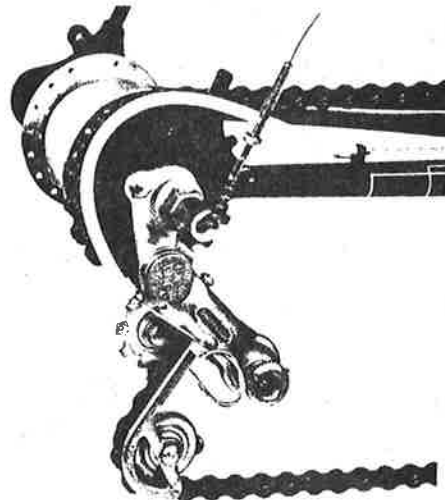


Figure 5: Showing 9-tooth jockey pulley "A"; locknut "B" and adjusting knurled knob "C".

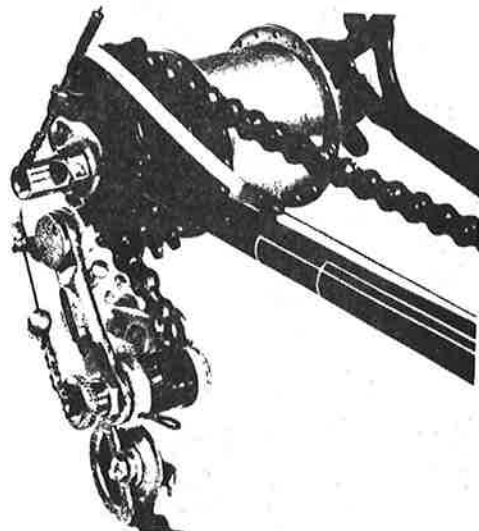
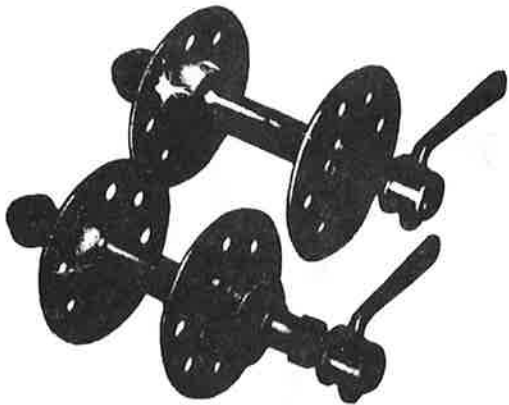
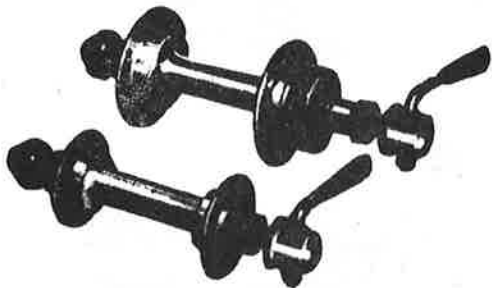


Figure 6: Showing area where distance from gear drive sprocket tooth "A" to jockey sprocket tooth "B" should be 3 chain rivets or 1 1/2 chain links. "D" shows adjusting screws.

QUICK RELEASE HUBS



NORMANDY SPORT



ATOM SPORT

"NORMANDY SPORT"

Light alloy hub with large flanges and M.M. quick release.

Front spindle diameter 5/16".

Rear spindle plain 3/8".

Drilled 36/36 holes or 32/40 for racing if required.

The rear hub can be supplied with single or double threading.

Front Hub-----

Rear Hub-----

"NORMANDY COMPETITION"

Same characteristics as Normandy Sport, but de luxe model with curved flanges, special S.K.F. ring bearing for smooth rotation, and slender, elegant lines specially designed for high-class racing machines.

Front Hub-----

Rear Hub-----

"ATOM SPORT"

Hub of light alloy with small flanges ATOM M.M. quick release.

Diameter forward spindle 5/16". Rear spindle 3/8".

Rear hub supplied with either single or double threading.

Front Hub-----

Rear Hub-----

QUICK RELEASE UNITS



ATOM M.M.

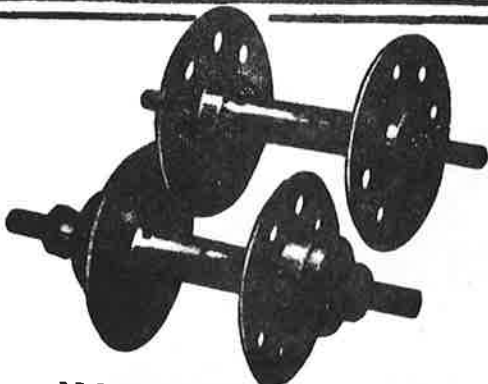
"ATOM M.M."

Cannot get out of adjustment, incorporating spindle, cone and quick release device.

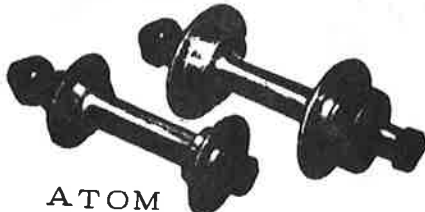
Front Quick Release Spindle--

Rear Quick Release Spindle--

HUBS



NORMANDY



ATOM

"NORMANDY"

Light alloy hub with large flange for sports bicycles.

Front spindle diameter 5/16".

Rear spindle plain 3/8".

Drilled 36/36 holes or 32/40 for racing if required.

The rear hub can be supplied with single or double threading.

Front Hub-----

Rear Hub-----

"ATOM"

Hub of light alloy with small flanges

Diameter forward spindle 5/16". Rear spindle 3/8".

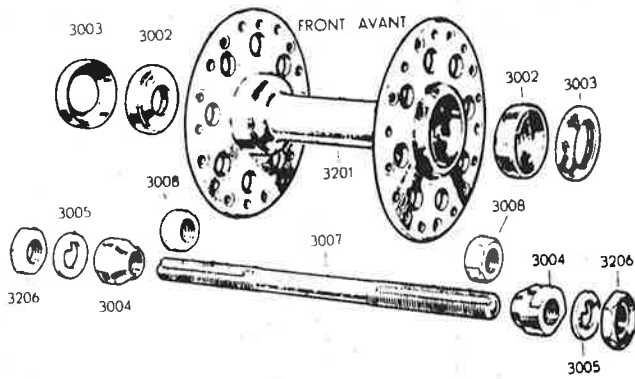
Rear hub supplied with either single or double threading.

Front Hub-----

Rear Hub-----

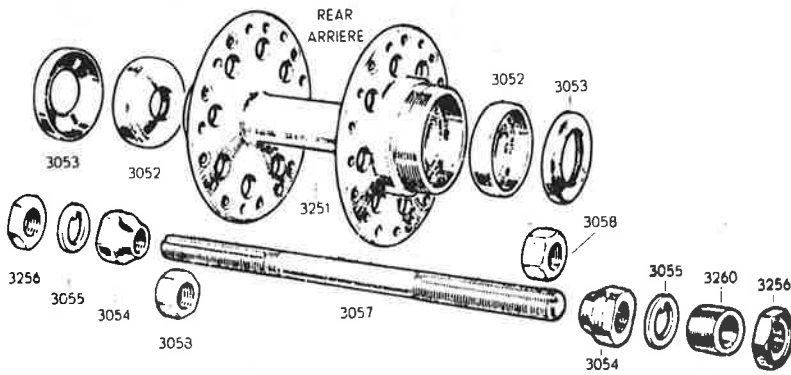
IN ORDERING BE SURE TO SPECIFY NO. OF SPOKE HOLES NEEDED

NORMANDY FRONT HUB PARTS



No.	Item
3201	Hub Body
3002	Cup
3003	Dust cap
3004	Cone
3005	Tongue Washer
3206	Lock Nut
3007	Bare Axle
3008	Axle Nut
3210	Axle Set, Complete

NORMANDY REAR HUB SPARES



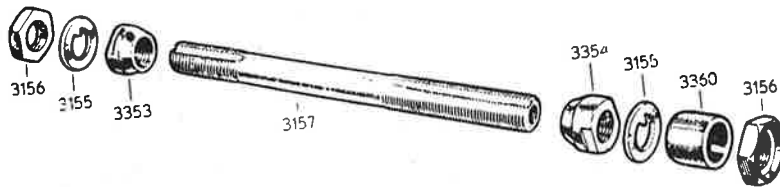
No.	Item
3251	Hub Body
3052	Cup
3053	Dust Cap
3054	Cone
3055	Tongue Washer
3256	Lock Nut
3257	Bare Axle
3058	Axle Nut
3260	Spacer
3262	Axle Aet, Complete

ATOM FRONT HOLLOW AXLE SPARES



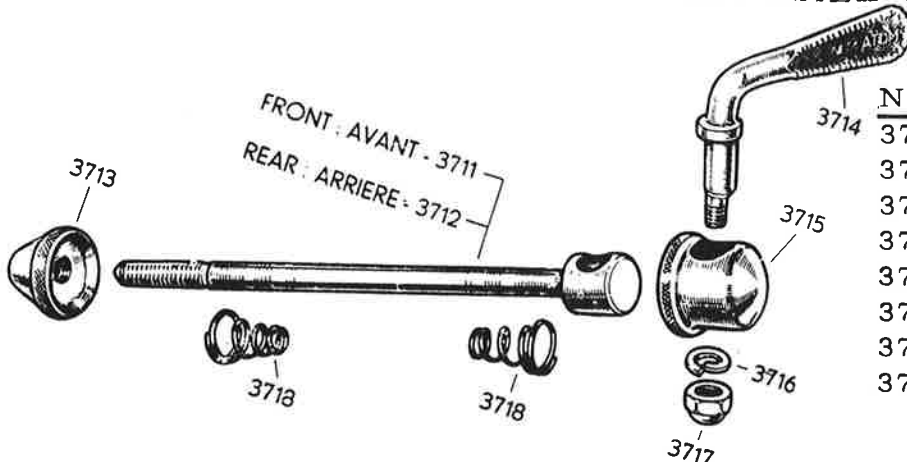
No.	Item
3104	Cone
3105	Tongue Washer
3106	Lock Nut
3107	Hollow Axle
3110	Axle Set, Complete

ATOM REAR HOLLOW AXLE SPARES



No.	Item
3154	Cone
3155	Tongue Washer
3156	Lock Nut
3157	Hollow Axle
3160	Spacer
3162	Axle Set, Comple

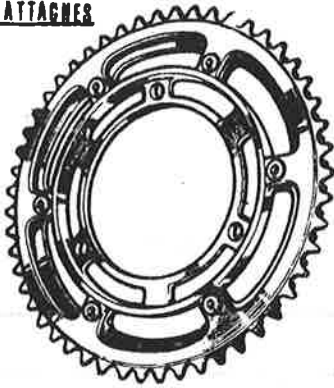
QUICK RELEASE AXLE SPARES



No.	Item
3711	Front Axle
3712	Rear Axle
3713	Cone Nut
3714	Lever
3715	Cap
3716	Lock Washer
3717	Acorn Nut
3718	Spring

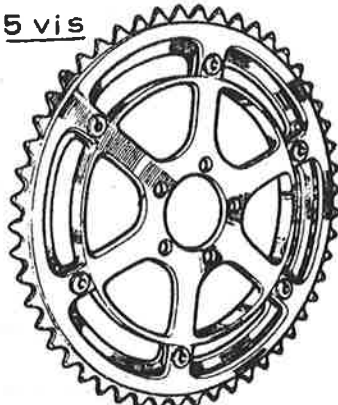
TA TYPE PROFESSIONNEL

3 ATTACHES

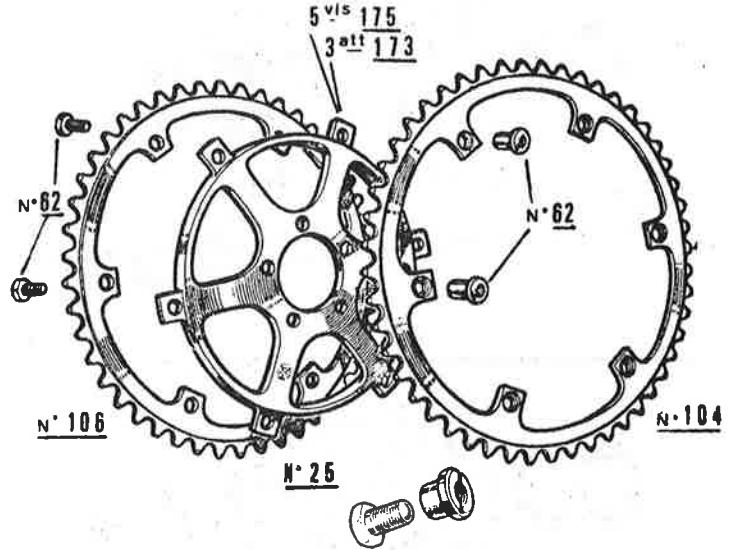


2173

5 vis



2175



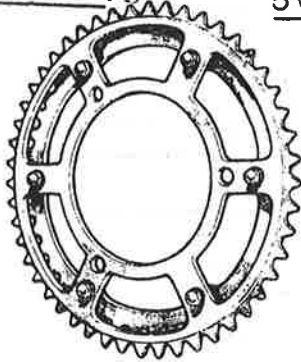
- 2173-3 Pin Double Sprocket with Adapter
- 2175-5 Pin Double Sprocket with Adapter
- 104-Outside Sprockets
- 106-Inside Sprockets

- 173-3 Pin Adapter
- 175-5 Pin Adapter
- 25-Inner Pins Complete
- 62-Outer Pins Complete

BE SURE TO SPECIFY NUMBER OF TEETH ON SPROCKETS.

TA TYPE CRITERIUM

3 attaches

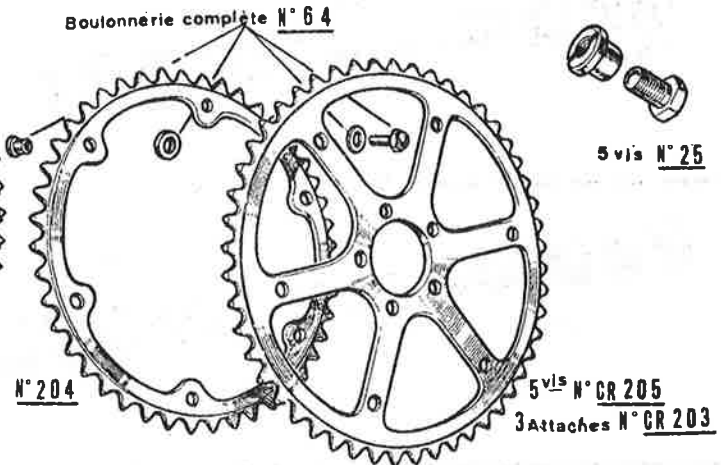


2203

5 vis



2205



- 2203-3 Pin Double Sprocket with Adapter
- 2205-5 Pin Double Sprocket with Adapter
- 203-3 Pin Outside Sprockets
- 204-Inside Sprockets

- 205-5 Pin Outside Sprockets
- 25-Inner Pins Complete
- 64-Outer Pins Complete

BE SURE TO SPECIFY NUMBER OF TEETH ON SPROCKETS.

It's New!

For Hot And Cold

Drinks

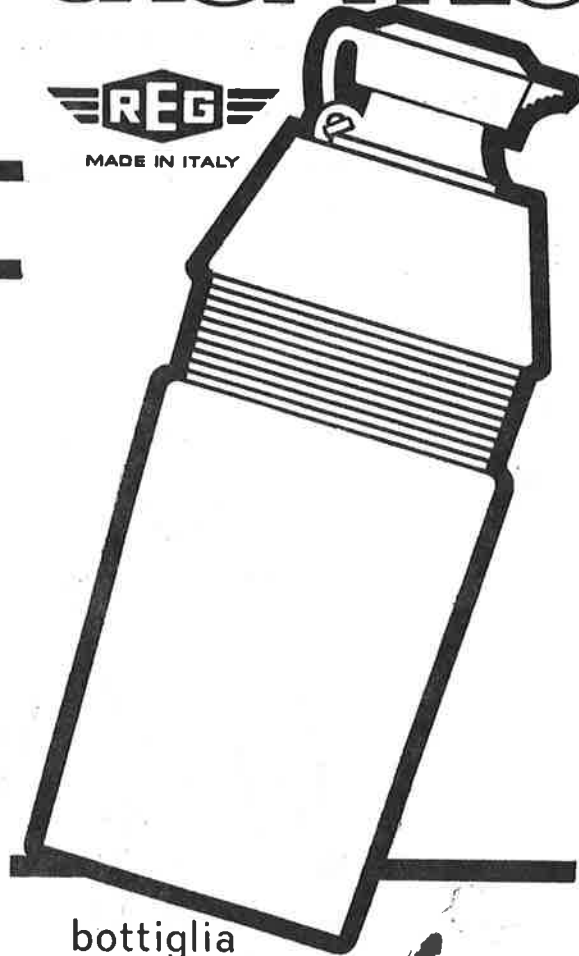
thermic



MADE IN ITALY

INFRANGIBILE

UNBREAKABLE



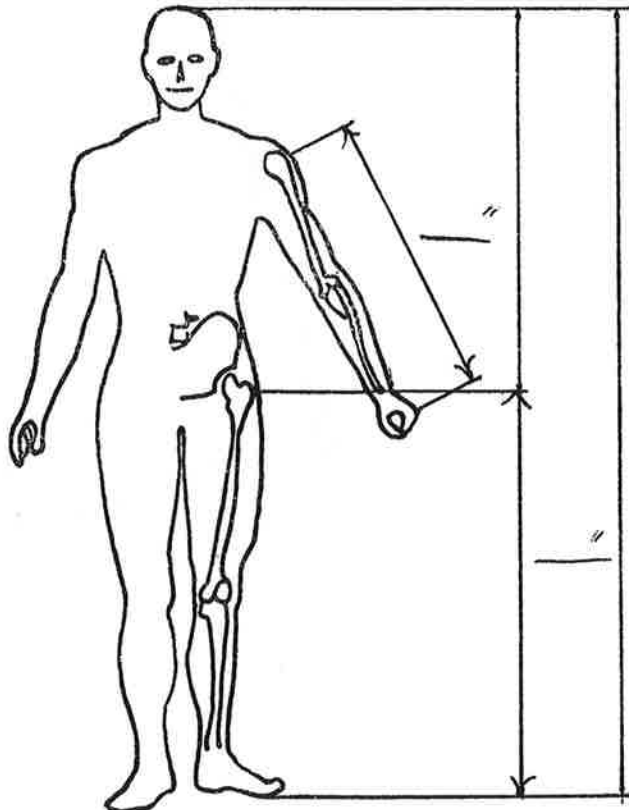
bottiglia
termica
thermic
bottle

ITEMS NOT PICTURED

10 speed chain-REGINA	2.95
10 speed chain-BRAMPTON.....	2.95
10 speed chain-SEDIS.....	2.75
Three speed chain.....	1.95
Road Rim Cement.....	.60
Track Rim Cement.....	.60
Road Rim Tape.....	.50
Mavic 27 x 1 $\frac{1}{4}$ Clincher Light Alloy Rims.....	5.50
Nail Pullers or Tire Savers for Sew-Up Tires-Per Pair.....	.95
SILCA "IMPERO" Pumps-With CAMPAGNOLO Pump Tip.....	5.95
CAMPAGNOLO "Valentino" Front and Rear Derailleur Set.....	10.00
HURET "Luxe 700" Front Derailleur.....	5.95

Please fill out the chart with the two indicated measurements, and send to Big Wheel Ltd along with your bicycle request.

NOTE: Please measure from hip joint and not from crotch.



P R I C E L I S T

Description & Number	Price	Description & Number	Price
<u>Page 3</u>		<u>Page 12</u>	
Gitane #510 W/quick release	89.50	Continental Tires	
Gitane #510SB w/regular nuts on hub (not shown)	82.50	Black wall any size	2.95
Gitane #520	89.50	White wall any size	3.25
Gitane #530	105.00	Gum wall any size	3.95
Gitane #565	192.50	Gum wall Dunlop sprite	4.15
Gitane #590	115.00	Gum wall Dinlop road racing	4.95
Gitane #600	240.00		
Gitane #580	225.00	<u>Page 13</u>	
Gitane #585	165.00	Libertas	
Gitane #595 Ladies not shown, same as #585	165.00	w/side pull brakes	74.95
		w/center pull brakes and w/light alloy cranks	79.95 109.95
<u>Page 5</u>		<u>Page 15</u>	
Model Professional Road	265.00	S5 5speed hub gear	17.25
Model Tour de France	155.00	For parts ask for prices	
Model Tour de France w/light alloy crank	195.00		
<u>Page 6</u>		<u>Page 16</u>	
de Ron' - Trainers	57.95	Cycl-Cisor	13.95
#5 Velox repair kit	1.00	Bike X-R-Sizer	13.95
Cinelli Hub set	39.95		
<u>Page 7</u>		<u>Page 17</u>	
Cinelli Supercorsa	350.00	Professional Frames w/Campagnolo headset & crank axle from 95.00 Professional bicycles from 175.00 Write for availability & colors; specify frame size	
<u>Page 8</u>		<u>Page 18</u>	
Peugeot PX10 E	175.00	Atom 5 speed	5.95
<u>Page 9</u>		Most any combination	
Peugeot UO-8 10 speed	95.00	Atom 6 speed	7.50
Peugeot UO-8 15 speed	105.00	Starting with 11 tooth	
Peugeot Caravan UE-8	125.00	Regina 5 speed	5.95
<u>Page 10</u>		Regina 6 speed	6.95
Huret Speedometer	6.95	Regina "Oro" (5 only)	9.25
#401 Driver	2.25	Atom or Regina body only	2.50
#402 Head Gray only	3.75	Single sprocket freewheel	1.75
#403 Transmissions	1.45	Single spricket for 5 or 6 speeds	1.50
#404 Inner Wire	.85	Fixed sprocket (not shown) $\frac{1}{2}$ X $\frac{1}{8}$ or $\frac{1}{2}$ X $\frac{3}{16}$.95
<u>Page 11</u>		<u>Page 19</u>	
Clement Tubulars	No.	20-21-22-24 See special Campagnolo price list	
No. 1	15.50		
6	14.50		
12			
13	14.00		
20	7.50		
21			
	No. 22	7.00	
	23		
	24	6.00	

Description & Number	Price	Description & Number	Price
<u>Page 22</u> Campagnolo Record Brake set	55.00	<u>Page 38</u> Pogliaghi	345.00
<u>Page 25</u> Unicycle 20" Unicycle 24"	29.00 35.00	<u>Page 39</u> Shimano 3 speed hub	15.00
<u>Page 26</u> Raleigh Supercourse Raleigh Grand Prix Raleigh Record	112.95 85.95 75.95	<u>Page 40 and 41</u> Tubulars D'Alesandro Mondiale or Aigle Butyl 21B Specialissimo 31 Tour De France 60 Giro D'Italia 61 Criterium 62 Criterium seta 64 Imperforabile 66 Imperforabile seta 67	5.00 5.50 6.00 8.25 8.25 8.25 9.50 9.95 10.95
<u>Page 27</u> International Professional MKII	240.00 330.00	<u>Page 42</u> Quick Release Unit Parts: No. 1 Front Axle Rod No. 2 Rear Axle Rod No. 3 Lever No. 4 Spring No. 5 Axle Nut No. 6 Lever Bush Axle Sets & Parts: Complete Frontset Complete Rear set Front Axle 5/16 .35 Rear Axle Front Axle Cone .35 .50 Fr. Lockwasher .10 R Axle Cone Fr. Lock Nut .10 .40 R Axle Bushing .15 R Lock Nut .15 Kickstands: #285 Esge 2.00 #XPT/A Shuresta 1.75 Shuresta "V" Cycle Stand 3.95	
<u>Page 28</u> Legnano	265.00	<u>Page 43</u> No. 1882 Dbl Control L & R Hand 2.25 No. 1884 Single Control RH 1.20 Control Lever Spare Parts: 1838 .15 1854 .15 1868 .10 1840 .35 1855 .10 1880 .35 1850 .65 1856 .10 1883 .65 1851 .20 1858 .30 115 .35 1852 .50 1865 .65 178 .35 1853 .15 1867 .05 902 .15	
<u>Page 29</u> Legnano Olimpiade Record Legnano Grand Premio	265.00 165.00		
<u>Page 34</u> Simplex rear Derailleur #537 w/out lever 5.95 Simplex Criterium, front & rear (not shown) Complete 18.25 Simplex front w/out cable & lever 4.00 Simplex lever double 2.00 For identical parts use Huret prices			
<u>Page 35</u> Cosco Racks Single 3.00 Cosco Racks Double 6.00 5 piece unit -- 1 piece (not shown) 12.00			
<u>Page 36</u> MASI Special 395.00 MASI Gran Criterium 450.00 Special orders only			
<u>Page 37</u> AW 16.00 SW TCW 26.00 For parts write for prices			

Description & Number	Price	Description & Number	Price
----------------------	-------	----------------------	-------

Page 44

No. 700 Front Shifter Assembly	4.50		
No. 600 Spare Parts:			
605 .20 613 .95			
619 .25 621 .25			
623 .15 635 .10			
640 2.75 1812 .10			
1813 .10 1870 .05			
No. 650 Set. Tool & Spanner	5.00		
No. 651 Two-way spanner	1.80		
No. 652 Allen Key	1.90		
#1849 Control Lever Clip	.50		
# 188 Cable Clip (Ea.)	.30		
# 194 Chainstay Cable Stop	.45		
#1846 D/T Tunnel w/Cable Stop	1.40		

Page 45

No. 1900 Rear Derailleur	6.25		
No. 1900 Less cables & controls	2.25		
No. 1900 Spare Parts:			
#1800 .25 #1914 .05			
#1801 .20 #1915 .10			
#1802 .20 #1916 .05			
#1804 .15 #1917 .10			
#1817 .75 #1919-23 .65			
#1860 .10 #1920 .35			
#1870 .05 #1921 .25			
#1901 1.15 #1920c .40			

Page 46

Williams Chainwheels & Cranks
Only a few in stock
Williams no longer MFO Steel parts anymore

Racer (LWR)	4.00
#1232	4.50
Half-Round (HR)	2.00
Crank Fixing Bolts	.35
Szuaire Fluted (SQ FD)	2.50
Chainwheels:	
36-52 only	3.95
MI 331/F99 Nichlin Chainwheel	10.30
No. 2175 Steel 5-pin spr.	4.50
No. 25 Crank Fixing Bolts	.35
No. 3175 Steel 5-pin spr.	5.50

Page 47

Mafac Brake (pair)	11.95
Front Complete	6.00
Rear Complete	6.35
Racing Lever	2.95

Page 47 (cont'd)

Racing Lever Parts:			
RMT	.60	#51	.50
#106E	.50	#60	.60
#50	.50	#61	.20
Mafac Tool Kit 2.00			
Mafac Racer Brake Parts:			
#53	.25	#457	.25
#56	.15	#458	.25
#59	.15	#460	.25
#60b	.25	#460a	.25
#61	.15	#469	.25
#62	.15	#475	.25
#63	.25	#478	.50
#64	.15	##479	.25
#64s	.40	#480	.25
#65	.35	#491	.25
#68	.10	#491a	.10
#450/1	1.00	#493	.25
#454g	1.25	#495	.10
#454d	1.25	#496	.15
#456	.30	#499	.25

Page 48

Weinmann Light wight Brake Parts:					
27-W	.20	43-W	1.20	60-W	.20
29-W	.10	45-W	.04	61-W	.70
33-W	.10	46-W	.10	62-W	.70
35-W	.30	47-W	.24	105-W	.04
36-W	.12	48-W	.46	106-W	.10
37-W	1.10	49-W	.14	107-W	.50
38-W	1.10	50-W	.14	108-W	.20
39-W	.14	51-W	.12	109-W	.20
40-W	.14	52-W	.02	112-W	.04
41-W	1.20	58-W	.02	113-W	.10
80-W	.14	81-W	.10	110-W	.04
82-W	.14	83-W	.04	111-W	.10
84-W	.04	90-W	1.30	114-W	1.20
91-W	1.30	92-W	.24	115-W	.76
116-W	1.20	117-W	1.20	125-W	.76
126-W	1.20				

Page 49

Weinmann Vaninqueur 999 Center-Pull Brakes & Parts:			
Type 610 Front Complete			6.75
Type 610 Rear Complete			6.90
Parts:			
#27-W	.20	#1190	.70
#29-W	.10	#1200	.30
#40-W	.14	#1210	.24
#48-W	.46	#1220	.10
#49-W	.14	#1230	.90

Description & Number	Price	Description & Number	Price
----------------------	-------	----------------------	-------

Page 49 cont'd

#50-W	.14	#1235	.10
#58-W	.04	#1240.2	.22
#105-W	.04	#1240.3	.10
#109-W	.20	#1240.4	.80
1008.610	1.44	#1241	.30
1009.610	1.44	#1241.1	.44
1010.750	1.44	#1245	2.10
1011.750	1.14	#1252.66	1.20
1040	1.10	#1252.1	1.70
1040.1	.50	#1261.66	.80
1042	1.00	#1261.1	1.10
1046.610	.90	#1256	.10
1042.1	.40	#1256.1	.10
1046.650	.90	66.1 thru 3	.10
1050	.10	33-W	.10
1056	.30	#1270.110	.50
Handlever (Hooded type, racing Parts:			
57-W	1.70	4W .15	53W .65
130-W	1.70	7W .15	55W .65
2W	1.70	9W .65	103W .60
132-W	.15		

Page 50

Bottle Cages - Bottles-Hip Flasks			
#215 Down Tube Type			2.75
#213 Handlebar Type			2.75
#200 Bottle			1.25
# 20 Cap for #200 Bottle			.25
#300 Hip Flask Lg.			2.00
#150 Small Hip Flask			1.50
#L-6 Leco Std. Child Carrier			8.95
#550 Bulldog Seat w/footrests			5.95
#550 Bulldog Seat w/out footrests			4.95
#AC2C Rear Spring Carrier			3.00
Nervar Cranks #33 3 pin			3.50
Nervar Cranks #50T 5 pin			3.70

Page 51

Phillipe Handlebars			
Type Professional			3.50
Type Franco Belge			3.50
Type Olympic w/out stem			3.50
Type Standard w/out stem			3.50
Phillipe Stems: sizes 1 3/4"			4.00
2" 2 3/4" 3 1/2" & 4"			

Page 52

Tromo Steel Stems 4" & 4 1/2"			6.75
GB Light Alloy Stems 1 3/4"			3.70
GB Light Alloy Stems:			
2" 2 3/4" 3 1/2"			4.00

Page 52 cont'd

GB Light Alloy Stems 4"			4.10
Mt. 15 Complete			8.95
Spares for Stems:			
#701 .56	#705 .20	#709	.20
#702 .56	#706 .30	#710	.20
#703 .54	#707 .40	#711	.20
#704 .20	#708 .50		
#75 Pivo Stem			3.95
AVA Light Alloy Stem			3.95
Cinelli No. 2 Stem			8.95
GB Handlebars:			
Maes, Road Champion			4.00
Capoberto (for ladies 10-sp)			3.75
Pivo #58 alloy			3.25
Pivo #58A steel			2.75
Handlebar plugs pair--colors white, blue, red and green			.50

Page 53

Super Alloy Tubular Racing Rims:			
A Red; B Yellow; C Blue			6.00
Rigida Chrome Steel Rims:			
Endrick Type 24 & 26			3.00
Endrick Type 27's			3.50
Mavic Rims; Mont; Pro Road;			
Pro Track			6.00
Sport			5.00
For Clincher tires 27 x 1 1/4"			
Dural Mavic or Weinmann			6.00
For Clincher tires 700C Steel			3.50

Page 54

Light Alloy Crank St. Complete			27.50
Handlebar Bag			9.50
Front Bag Support			3.50
Large Flask			2.00
Small Flask			1.50

Page 55

TA Seat Tube Bottle Cage			2.75
Plastic Wh. Bottle 1 Pr.			1.25
Bottle Cage clamps (pr.)			.50
TA #255 chainwheels:			
22,23,24,25 teeth			9.00
26 & 27 teeth			10.00
28 teeth			12.50
Shoe Cleats: Piste			
			1.25
Cyclo-cross			
			2.75
Criterium			
			1.10
TA Handlebar Bottle Cage			2.75

Description & Number	Price	Description & Number	Price
<u>Page 55 cont'd</u>		<u>Page 60</u>	
TA Brake Cable Clip	.75	Universal Mod 61 Pr.	11.95
TA Brake Cable Guides	.60	" " 68 Pr.	12.95
TA #233 Chainwheel:		" lever ea.	2.95
22,23,24,25 teeth	9.00	" hooded cover ea.	.60
26 & 27 teeth	10.00	(white and gum)	
28 teeth	12.50	Universal #108 ea.	.50
		" shoe with holder	.35
		" cross over cable	.15
<u>Page 56</u>		Benelux Conversion	
TA single Chainwheel 3-pin		Complete Derailleur & Sprocket	
#203	5.25	12.95	
TA Single Chainwheel 5-pin		Special Designed Saddle	
#205	5.25	for Ladies LEMET "Rok"	
(25¢ extra for each additional		(skirt)	
tooth over 50.)		5.95	
TA Dbl Chainwheel 3-pin		colors: checkered, blue	
#2203	10.00	red, green, black, and	
TA Dbl Chainwheel 5-pin		gray	
#2205	10.00	Brooks Saddlebags:	
Five pin triple Cyclo-		Mossbrook	
Tourist Dural Chainwheel	15.00	10.95	
#25 Bushed nut, screw ea	.25	Highbrook	
#64 Bushed nut, screw, washer	.30	11.95	
#85 Bushed nut, screw, washer	.35	Halesbrook (not shown)	
		11.25	
		Pannier Set	
		12.95	
		Pannier Set #4707	
		9.95	
<u>Page 57</u>		<u>Page 61</u>	
Huret "Luxe" 2100 derailleur	8.95	Lycett Saddle L. 15 Std.	9.75
(Parts prices on request)		Lycett L. 15 Narrow	9.75
		Lycett L. 15 Swallow	9.75
<u>Page 58</u>		Ideale No. 42 Norex	
A-8 Cynamo	2.95	Saddle	
89 Bloc Dynamo w/Headlamp	4.95	4.95	
H-3 Taillamp	1.25	No. 43 Record	
#255 Headlamp	2.25	5.50	
Catalux #6 Taillamp	1.50	No. 48 Professional	
Catalux #3 Taillamp	1.50	12.95	
Dynamo pulley cover	.25	No. 42 Ideale	
Miller #537 T High/Low Beam	8.50	3.95	
Miller #5310 T Single Beam	6.95	No. 88 Special	
		Competition	
		11.95	
		No. 90 New ProModel	
		12.95	
		Seat Piller	
		7.50	
		Nylon-Plastic Unica Saddle	
		8.00	
		(Both Track and Road)	
		Leather Top Nylon Bottom	
		13.50	
		Unica Tour de France #4	
		15.95	
		Unica Saddle Bag Clips	
		.50	
		Unica Chamios covered	
		14.50	
<u>Page 59</u>		<u>Page 62</u>	
Stronglight 93 Dbl Chainwheel		B66 Brooks Touring Saddle	
	37.95	CH. spr.	
French Rollers	47.95	9.95	
Spokes & Nipples Lengths:		B66 Brooks Touring Saddle	
12 1/8", 12 1/16", 12"		black spr.	
11 7/8", 11 3/16", 11 5/8"		9.95	
11 1/8", 11"		B72 Saddle chrome springs	
7¢ each. 100 per box	5.00	7.95	
Raleigh Plastic Mudguards	3.95	B72 Saddle black springs	
(Set)		7.95	
Center Bridge Clips	.25	S21 Mattress	
Track Suit	25.00	4.95	

Description & Number	Price	Description & Number	Price
<u>Page 62 cont'd</u>		<u>Page 69</u>	
Straight Post 7"	.75	Cycle Carrier	17.95
9" 1.00 12" 1.25 15" 1.50		Bike Totter	
"L" Pattern ea.	1.00	Chrome plated	14.95
Straight Post 7"	.75		
10" 1.00 12" 1.25 15" 1.50		<u>Page 70</u>	
Lucas Cyclometer	2.50	VAR Freewheel Removers &	
VDO Speedometer	6.50	Tools:	
#101 Cable & Core	2.30	#01 freewheel remover	11.25
#102 Drive Assembly	3.20	#03 freewheel & chain	
Simplex Saddle Pillar	10.75	wh. vice	7.95
Toe Clips #50 Pr.	1.50	#04 sprocket removing	
Toe Straps #513 Lapize Pr.	1.50	tool	7.50
		#12 freewheel jig	3.25
<u>Page 63</u>		#186 freewheel remover	3.75
Racing Jerseys	12.95	#186 bis, freewheel	
Track Jersey	8.50	remover	4.95
Shorts	11.95	#187 freewheel remover	2.50
Woolen cycling shorts	10.95	#188 freewheel remover	2.40
No. 4 shoes		#210 freewheel jaw vice	2.00
No. 7 shoes	17.95	#219 set of 3 tools	2.65
XM/5 Miguel Gloves	5.95		
XM/2 Coppi Gloves	6.95	<u>Page 71</u>	
Anquetil Shoe Plates short	1.75	#252 sprocket remover	3.95
Anquetil Shoe Plates long	2.25	#266 - (both sizes)	4.00
TA Shoe Plates	1.10	#365 freewheel remover	7.95
No. 2 Road Helmet CM	5.95	#368 sprocket remover	9.95
Caps	.98	#02 caliper brake shoe	
No. 5 six day type	6.95	clamp	4.50
Meusetts/Fedder Bag	1.00	#11 combined tool set	3.25
		#13 pliers	7.50
		#14 hub axle vice	7.75
		#16 pliers	8.15
<u>Page 64</u>		<u>Page 72</u>	
See special Campagnolo Price List		Arm or Leg Band Lights	1.75
<u>Page 66</u>		<u>Page 73</u>	
Vittoria Fulmine Tubular		Miscellaneous Tools:	
Carrier	3.50	Set of 3 bicycle spanners	.60
Pirelli #850 Cran Premio		Pedal Wrench	1.50
tire	7.50	Tyre Levers (set of 3)	.60
Pirelli #851 Corsa Leger-		Spoke Nipple Grips	.35
issimo	13.00	Dumbbel Spanner-10 in 1	.50
Pirelli #852 Corsa Xtra	13.00	No. AAB 305 peg & cone	
		spanner	.35
<u>Page 68</u>		No. AAB 301 five hole	
John Bull Jr. Repair Kit	.50	spanner	.35
John Bull Long Repr. Outfits	.50	No. AAB 303 Six-way	
Weldite Cycle Repr. Outfits		spanner	.35
Dunlop Repr. Outfit DAR-10	1.95	Wrench Set	1.50
Dunlop Repair Kit DAR-7	.50	No. AAB 309 flywheel	
Dunlop Rim Adhesive Tape	.50	remover	.50
Rim Cement:			
Track tire Cement			
Shellac	.50		
Road tire Cement			
Adhesive	.50		

Description & Number	Price	Description & Number	Price
<u>Page 73 cont'd</u>		<u>Page 77</u>	
No. 23 Pliers for steering heads	3.95	#32W-Cotterless Crank Axle Sets	
No. 4212 wrenches 6"	1.10	Axle 5.00	Lh Lock Nut .50
No. 2412 wrenches 10"	1.65	RH Cr. Cup .75	Bolt & Washer.50
No. 71A Wire cutting nippers	3.95	Lh Cr. Cup .70	Dust Cover .50
Set of screwdrivers w/adaptor	16.50	#34 Std. Bottom Bracket Assembly:	
Sprocket Remover #2201	2.95	Cottered Axle	2.25
Brushes for hubs	1.50	Left Cup	.75
Pedal Wrench Wald #15	1.25	Right Cup	.75
Pedal Wrench #61	2.95	Lock Nut Washer	.50
No. 30Y2 New Std. Pedal Tap	3.50	Complete Set	3.25
Ratchet Screw Driver	5.95	Stronglight Bottom Bracket Set (Needlebearing)	
		Complete Set	17.50
		L Cup	3.50
		R Cup	3.50
		Locking ring	.50
		Type 160-complete set	14.50
		Type 160 Axle w/Fast Screws	7.50
		Type 260 Complete set	12.50
		Type 260 Axle only	5.00
		Nervar #3 3-pin chainwheel	3.75
		Nervar #5 5pin chainwheel	3.75
<u>Page 74</u>		<u>Page 78</u>	
No. 555 Weinmann Pliers		Chainwheel W/R Crank	3.50
No. 666 Weinmann Pliers		Left Cranks	1.50
Set Weinmann wrenches No. 444	10.25	Bottom Bracket Axles ea.	1.00
S/A Oil (4 oz. can)	.40	Crank Cotters complete	.25
Komet Cycle Grease ea.	.30	Nuts only	.10
		L Bottom Bracket Cup	.50
<u>Page 75</u>		R Bottom Bracket Cup	.50
Handlebar Tape Pr. roll	.60	Lock Ring	.25
Handlebar End Plugs pr.	.50	WG 101 Bicycle Cover	5.95
Adhesive Tape	.60	Enwell Lg. Carrier No. 215	5.25
<u>Page 76</u>		<u>Page 79</u>	
#1 lever wing nuts 5/16 front	.60	No. 38 Pump	1.75
#1 lever wing nuts 3/8 rear	.60	No. 42 Pump	2.00
Cyclo wing nuts 5/16 front	.50	No. 1041 Clack-valve ea.	.40
Cyclo wing nuts 3/8 rear	.50	No. 1077 Express connection ea.	.40
Huret brass wing nut front	.50	Apex-Alum-reg size 15 x 7/8"	1.75
Huret brass wing nut rear	.50	Apex Alum. Pumps 18x15/16"	2.00
Track nuts Std. Model-front	.60	Apex Alum Pumps 17 3/8x15/15"	2.00
Track nuts domed Model-front	.75	Light Alloy Pumps No. 310	1.75
Track nuts Std. Model rear	.60	Light Alloy Pumps No. 404	2.00
Track nuts domed Model rear	.75	Pump w/5 1/2" br. hose	1.50
Gear protector track nuts pr1	1.25	Pump clips No. 1171 (pr.)	.40
Gear protector wing nuts #8260	.75		
Huret (998 spoke protector 7 1/2 dia.)	.95		

Description & Number	Price	Description & Number	Price
<u>Page 79</u> dont'd		<u>Page 83</u> cont'd	
Pump Clips snap on No. 1411	.30	#3206	.10
Pump washers ea.	.10	#3007	.30
Pump Connection Adaptors ea.	.25	#3008	.15
Pump Connections ea.	.30	#3210	1.00
No. 3900 Pump	1.95	#3104	.30
No. 4490 Pump	3.50	#3105	.10
		#3106	.10
		#3107	1.40
		#3110	1.90
<u>Page 82</u>		#3160	.20
Quick Release Hubs:		#3711	1.35
Normandy Sport Ft. Hub	4.80	#3713	.75
Normandy Sport Rear Hub	5.10	#3715	.70
Normandy Comp. Fr. Hub	5.65	#3717	.25
Normandy Comp. Rear Hub	6.15		
Atom Sport Ft. Hub	3.85	<u>Page 84</u>	
Atom MM Pr. Quick Rel.		#2173-3	7.25
Spindle	3.50	#2175-5	7.25
Atom MM Rear Quick Rel		#104	5.00
Spindle	3.70	#106	5.00
Normandy Hub-front	2.10	#2203-3	12.15
Normandy Hub-rear	2.30	#203-3	5.90
Atom Hub-front	1.75	#2205-5	12.25
Atom Hub-rear	1.95	#204	5.00
<u>Page 83</u>			
#3201	3.00	#3251	3.25
#3002	.15	#3052	.20
#3003	.10	#3053	.15
#3004	.20	#3054	.30
#3005	.10	#3055	.10
		<u>Page 85</u>	
		Thermic Bottle	3.50

SPECIAL CAMPAGNOLO PRICE LIST

Crank sets Complete

Road #1048 Record set with double chainwheel, cranks, Bottom bracket set In 165-170-175 crank lengths Others on special order only. Chainwheels from 42 to 54, others special order only- for English, French or Italian B.B. Please specify	set	\$ 65.84
Track #1050 Record set complete - same as above but with single chainwheel 48-49-50-51-51 T	set	62.70

Rear Derailleur or Changer

Nuevo Record rear - the latest one - light, quiet, smooth running -- the ultimate #1020/1a, no control, no cable or casing	ea	23.20
--	----	-------

Front Derailleur

Nuevo Record - the latest model #1052/1 No control, no cable or casing	ea	10.48
Valentino Extra #2050 no control, no cable or casing ..	ea	4.92
<u>Rear</u>		
Valentino Extra #2170 with control and cable	ea	6.27
Sport Extra #2180 with control and cable	ea	5.78

Hubs (sets) British threads

#1035 Record High Flanged Quick Release road In 36/36-32/40 rear and front	set	27.72
#1034 Record Low Flanged Quick Release road in 36/36-32/40 rear and front	set	25.41
#1036 Record High Flanged track hubs in 36/36-32/36 rear and front	set	24.58
#1036/1 Record High Flanged track hubs with quick releases - in 36/36-32/36 rear and front	set	28.87
Misc. Hubs various hubs in stock. Separate rear and front, track and road - Please inquire for these		

Pedals

#1037 Road 9/16x20F English, right and left	set	23.03
#1037 Road 14x 1.25 French, right and left	set	21.27
#1038 Track 9/16x20F right and left	set	23.03
#1038/1 Track right and left	set	23.03

Seat Posts 180m/m long

#1044 in 26.2 - 26.4 - 26.6 - 26.8 - 27 - 27.2 - 27.4 .	ea	10.29
#1045 special order only		11.38

Head Sets

#1039 Road 1"x24TP1 English - 25.4x24 Italian - 25x1 French	ea	12.30
#1040 Track 1"x24TP1 English - 25x1 French	ea	12.30

Assembling or repair stand

#1102 For the shop, the club or home	ea	115.42
--	----	--------

Accessories

Chainwheels Road 1/2x3/32

#753 old style 44-45-46-47-48-49-50-51-52-53-54 teeth	ea	\$10.65
new style 42-43-44-45 teeth	ea	10.65
Others special orders only		

Chainwheels Track 1/2x1/8

#744 in 48-49-50-51-52-53	ea	19.64
#759 1"x1/8 pitch in 24-25 teeth	ea	16.50

Crank

#751-752 Road New Right and left, in 165-170-175mm	set	32.24
#757-758 Track Right and left, in 165-170-175mm	set	32.24
Some cranks available separately, please inquire.		

Bottom Bracket Sets and Parts

#1046/a Road for English, French or Italian please specify for which and size of spindle	set	14.82
#1046 Track, same as above, please specify the desired thread	set	14.82
#744/a Road spindle 68-SS 120 or 70-SS-120 or 74-SS-120	ea	6.90
#744/1 Road spindle for triple chainwheels 68-SS-120	ea	7.10
#744 Track spindle 68-P-120 and 70-P-120	ea	6.90
#745 and #745/a Right cup	ea	3.96
#746 and #746/a Left cup	ea	3.27
#747 Lock ring	ea	1.16
#745-746-747 cups- lock ring; specify thread	set	8.17

Hub Parts - Road and Track

#1006/5S Road axle for Quick Release Hub--rear	ea	3.50
#1001/4S Road axle for Quick Release Hub--front	ea	2.30
#1006/5P Track axle - complete-rear	ea	3.50
#1001/4P Track axle - complete-front	ea	2.30
#1006/8-rear Quick Release Skewer - complete	ea	3.63
#1001/3 - front Quick Release Skewer - complete	ea	3.40
We have other smaller parts for hubs ... see other pages.		

Derailleur Levers - Cables and Parts

#1014 Double Levers - complete	set	5.35
#1012/3 Handlebar control levers	ea	4.72
#606 Cable rear 118cm	ea	.50
#608 Cable front 70cm	ea	.50
#622 Rear Handlebar control outer casing	ea	.75
#623 Outer casing for rear Derailleur 15 cm	ea	.50
#625 Front Handlebar control outer casing	ea	1.55
#145 Rear cable for handlebar control 197cm	ea	.95
#218 Front cable for handlebar control 150cm	ea	.75
#601-602 lever replacements Right or left	ea	.99
#201 lever replacements for H.B. control	ea	1.24

Tools

#143/2 T. Allen wrenches	ea	1.65
#768 Chainwheel peg spanner	ea	.25
# 97 Gear wrench	ea	.16
#767 Chainwheel Allen wrench	ea	.66
#710 Pedal wrench	ea	1.32
#771 Seat Post wrench	ea	2.23
#770 Cotterless crank extractor	ea	4.79
#769 Cotterless B/B axle spanner	ea	2.64
#704 Cog removing tool, insert only	ea	3.80

Tools (Cont.)

Fig Q Cone spanners set of 2, 13/14-15/16	set	\$ 7.43
Fig. 1 Freewheel removing tool	ea	11.55
Fig. N Wheel dishing tool	ea	10.23
Fig. P Hubaxle vise	ea	9.41
#714/1 Fork stem die	ea	32.95
#709 Forkend tap	ea	3.30
#712 Bottom bracket locking tool	ea	6.27
#712/1 Bottom bracket right cup tool	ea	6.44
#713 Bottom bracket left cup tool	ea	6.27

Other tools not listed can be ordered special.
Replacement pins are available for some tools.

Rear Cogs - Track

#763 1/2x 1/8 track cogs in 12/13/15/16 teeth.....	ea	2.97
#764 1"x 1/8 cogs in 6/7/8/ teeth	ea	2.97

Clips-Stops-Clamps-Pegs Holders-Guides-Ferrules, etc.

#632 Pump Holder	ea	1.58
#636 Rear changer, stop, chain stay	ea	.56
#629 Double stop for H.B. controls	ea	.86
#128/1 Rear fork end adjuster	ea	.40
#648 Pump peg	ea	.91
#649 Cable Clips (set of three)	ea	.79
#626/a Double stop down tube	ea	1.65
#627 Liner or shim for 632 or 633	ea	.30
#620 Ferrule	ea	.09
#619 Outer casing Ferrule	ea	.09
#612 Cable stop	ea	.09
#621 Braze-on type cable stop	ea	.25

Fork Ends and Parts

#1010 Record set Road	set	6.19
#1053 Track set	set	4.71
#302-301/1-303 Bolt, nut, spring set (3)	set	.25

Grease

100 gram, tin for every job99
-----------------------------------	--	-----

Pump adapters and parts

#1030 British Pump adapter	ea	2.48
#1030/1 Italian Pump adapter	ea	2.48
#1030/2 Italian Silca pump adapter	ea	2.48
#1030/3 French pump adapter	ea	2.48
#644-646-653 Washers for above pump adapters	ea	.36
#640 Rubber tips for above pump adapters	ea	.07

Derailleur parts

#814/a Outer cage plate Nuevo Record	ea	2.97
#815/a Inner cage plate Nuevo Record	ea	1.91
#930 Idler wheel or roller Nuevo Record set of 2	ea	1.08
#1606 Front Derailleur Cage Valentino	ea	1.08
#1607 Cage fixing bolt for above	ea	.10
#1203 Lever stop for Valentino levers	ea	.25
#604/1 Friction adjusting wing nut	ea	.30
#214 Cage for Gran Sport front derailleur	ea	2.33
#139/1-139/2-140/1 Nut, screw, bolt for H.B. control .	ea	.36
#173 Rubber lever covers	ea	.17

Bushings, bolts, nuts, screws, washers, spacers, lock rings.

#667-668 Track Hub nuts Front-Rear	ea	\$ 1.29
#748 Spindle fixing screw	ea	.47
#749 Spindle washer for above	ea	.09
#681 Head set locking nut 1x24TP1	ea	1.63
#743 Track rear Hub lock ring	ea	.58
#686 Head set fork race	ea	2.48
# 37 Screw and washer for fork ends to use on fender braces	ea	.17
#215/216/217 Screw, spacer, nut for front derailleur cage	ea	.17
#609 Clamp bolt and nut	ea	.25
#754-755 Road chainwheel Bush nut and screw .. set ..	ea	.58
#761-762 Track chainwheel Bush nut and screw	ea	.58
#830-831 Bush nut and screw for triple chainwheels ..	ea	.91
# 88 cable fixing plate	ea	.17
#124 Fixing plate bolt	ea	.17

Miscellaneous

#2110-2110/1 Bottom Bracket plastic protector	ea	.99
#2101 Ball Bearings for head set	ea	.59
#2100 Ball Bearings for B.B. set	ea	.59
#679 Pedal dust cap	ea	.99
#756 Crank dust cap	ea	.58
# 18 Skewer spring for hub	ea	.17
#737 Front Record hub ball race	ea	.83
#739 Front Record hub dust cover	ea	.30
#740 Rear Record hub dust cover	ea	.33
#32/R Rear Record cones	ea	.42
#46 Rear axle spacing collar	ea	.17
#36 Rear axle washer	ea	.09
#33 Rear axle lock nut	ea	.32
#741 Hub spring clip	ea	.09
#742 Lever Liners or Shim	ea	.32
#98 Tension spring for Gran Sport Rear	ea	.30
#80/2 Fixing plate for rear derailleur	ea	.36
#124-125 Fixing plate screw and plate	ea	.25
#99 Adjusting screw	ea	.17
#120 Spring	ea	.17

This is your latest Campagnolo price list.
It cancels all previous price sheets or catalogs.
Prices are Net - and are subject to change without notice.

HOW TO ORDER

- Please print or type your NAME, ADDRESS and ORDER clearly to avoid confusion.
- When ordering merchandise please identify item by name, number, price and page number.
- Include cost of packing and shipping with payment for your parts order. Consult the following tables for estimated costs for postage and insurance.
- Please be assured all over-payments will be immediately returned to you.

BICYCLES CANNOT BE MAILED AND WILL BE SHIPPED FREIGHT CHARGES COLLECT VIA CHEAPEST CARRIER UNLESS OTHERWISE SPECIFIED BY CUSTOMER.

We have listed only estimates of most frequently ordered items. This includes packing.

Derailleur gear.....	2-3 lbs.	Saddles.....	2 lbs.
Derailleur fittings.....	1-2 lbs.	Pannier Bags.....	6 lbs.
Chainwheel Sets.....	3 lbs.	Shoes pair.....	1 lbs.
Head Sets.....	2 lbs.	Gloves.....	½ lbs.
Chainwheels (approx.).....	2 lbs.	Helmet.....	½ lbs.
Cranks only (approx.).....	3 lbs.	Riding Pants.....	½ lbs.
Pedals (approx.).....	3 lbs.	Jersey.....	1 lbs.
Tires.....	2-3 lbs.	Locks (approx.).....	1 lbs.
Water Bottles.....	1 lbs.	Kickstands.....	1 lbs.
Hubs.....	2 lbs.	Cycle Bags—small and medium.....	2 lbs.
Rims—Alloy.....	2 lbs.	Cycle Bags—large.....	3-4 lbs.
Rims—Steel.....	3 lbs.	Generator sets.....	2 lbs.
Hand Brake Set.....	2 lbs.	Headlights.....	1 lbs.
Brake Handles only.....	½ lbs.	Horns.....	1 lbs.
Mafac Tool Set.....	1 lbs.	Carriers.....	2 lbs.
Handle Bar Stems.....	½ lbs.	Chain.....	1 lbs.
Handle Bar—Alloy.....	1 lbs.	Pumps—foot.....	2 lbs.
Handle Bar—Steel.....	2 lbs.	Pumps—mounted on bike.....	1 lbs.

Fourth-Class Mail—New Rates

Weight 1 pound and not exceeding—	Zones							
	Local	1 and 2	3	4	5	6	7	8
Pounds								
2.....	\$0.50	\$0.60	\$0.60	\$0.65	\$0.70	\$0.80	\$0.85	\$0.90
3.....	.50	.65	.70	.75	.85	.95	1.05	1.15
4.....	.55	.70	.75	.85	.95	1.10	1.20	1.35
5.....	.55	.75	.80	.90	1.05	1.25	1.40	1.60
6.....	.55	.80	.90	1.00	1.15	1.40	1.55	1.75
7.....	.60	.90	.95	1.10	1.30	1.50	1.75	1.95
8.....	.60	.95	1.00	1.15	1.40	1.65	1.90	2.15
9.....	.65	1.00	1.05	1.25	1.50	1.80	2.05	2.35
10.....	.65	1.05	1.15	1.35	1.65	1.90	2.25	2.55
11.....	\$0.65	\$1.10	\$1.20	\$1.40	\$1.75	\$2.00	\$2.40	\$2.75
12.....	.70	1.15	1.25	1.50	1.85	2.15	2.55	2.90
13.....	.70	1.20	1.35	1.65	1.95	2.25	2.70	3.10
14.....	.75	1.25	1.40	1.65	2.05	2.40	2.85	3.25
15.....	.75	1.30	1.45	1.75	2.15	2.50	3.00	3.45
16.....	.75	1.35	1.55	1.80	2.25	2.60	3.15	3.60
17.....	.80	1.40	1.60	1.90	2.35	2.75	3.30	3.80
18.....	.80	1.45	1.65	1.95	2.45	2.85	3.45	4.00
19.....	.85	1.50	1.75	2.05	2.55	2.95	3.60	4.15
20.....	.85	1.55	1.80	2.10	2.65	3.10	3.75	4.35
21.....	.85	1.60	1.85	2.15	2.75	3.20	3.90	4.50
22.....	.90	1.65	1.90	2.25	2.80	3.30	4.05	4.70
23.....	.90	1.70	1.95	2.30	2.90	3.40	4.20	4.85
24.....	.95	1.75	2.00	2.35	3.00	3.55	4.35	5.00
25.....	.95	1.75	2.05	2.45	3.05	3.65	4.50	5.20

- Please remember above items are estimated and includes packing
- All overages will be refunded.
- No order under \$2.00 can be shipped.
- Please include self-addressed stamped envelope when requesting general information.

REPAIRS Please do not ship your equipment without first writing us as to the nature of your trouble, history and make of machine and specifically what work you desire done. We will write you with an approximate estimate cost of alterations or repairs.

BACK ORDERS If your order can not be shipped immediately you will be notified. We are renowned for our service. However, the bulk of our merchandise is imported, delays or shortages cannot always be anticipated.

CLAIMS We are not responsible for damage or loss occurring in transit. Shipments are insured by the carrier and therefore, transit claims for damage or loss should be made at once by customer against the carrier.

INSURANCE

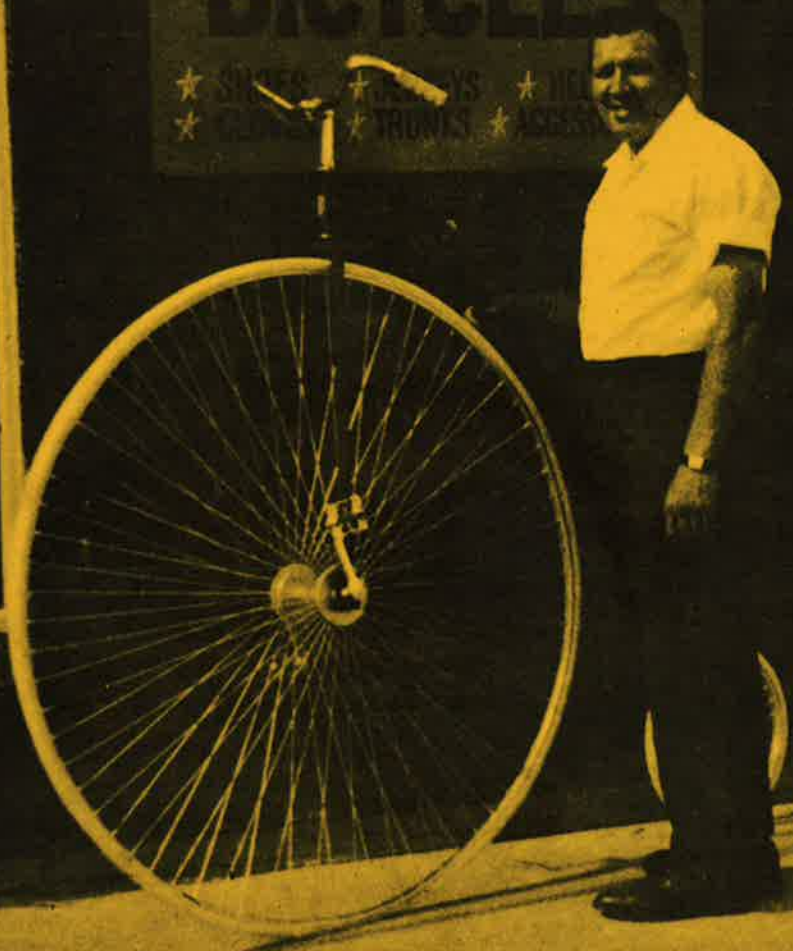
Insurance and C.O.D. Fees

Liability	Insurance fee 3rd & 4th class	Insurance coverage C.O.D.	C.O.D. fee Non-Registered
\$0.01 to \$15.00	20 cents	\$0.01 to \$10.00	60 cents
\$15.01 to \$50.00	30 cents	\$10.01 to \$25.00	70 cents
\$50.01 to \$100.00	40 cents	\$25.01 to \$50.00	80 cents
\$100.01 to \$150.00	50 cents	\$50.01 to \$100.00	90 cents
\$150.01 to \$200.00	60 cents	\$100.01 to \$200.00	\$1.00

BICYCLES · SALES · SERVICE

WORLD'S FINEST
RACING and TOURING
BICYCLES
★ SADDLES ★ TRUNKS ★ ACCESSORIES

310



Big Wheel Co.
Bicycle Specialists
340 HOLLY ST., DENVER, COLO. 80230