

catalogue n. 17



Campagnolo



S.p.A. Brevetti Internazionali CAMPAGNOLO
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"Brevetti Internazionali Campagnolo S.p.A." is a leading Company that through the high qualifications of its technicians and the experience of its skilled workers has established a worldwide reputation for products in various technological sectors. It has created all the cycle racing articles presented in this catalogue.

Campagnolo products are held in highest repute by qualified engineers and leading sportsmen alike, because of their superior quality confirmed by the numerous victories gained in every field, not only by the leading professional riders but also amateurs in every country.

Articles which have been often imitated but never equalled.

N. B. Any person infringing Campagnolo patents, trade marks, and registered designs will be prosecuted.



CAMPAGNOLO®

BREV. INTER. CAMPAGNOLO®

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Brevetti Internazionali Campagnolo is identified with its founder, the current President and Managing Director - Tullio Campagnolo.

On the 11th November 1927 Tullio Campagnolo, by that time a recognised amateur racing cyclist, is competing in a hard cycle race being run on roads in the Dolomites. Suddenly the weather turns to intense cold with snow on the scene resembles winter on the difficult twisting road on the Aune Cross Pass.

Campagnolo is in a good position but punctures. His fingers are so numb with the cold that he cannot unscrew the wing-nuts which hold his wheel in the frame. He loses valuable time but thereby conceives ideas which will change the mechanics of racing cycles.

A clever and imaginative engineer - Campagnolo begins to produce and patent a series of prototypes of cycle accessories which will eventually make him famous throughout the world.

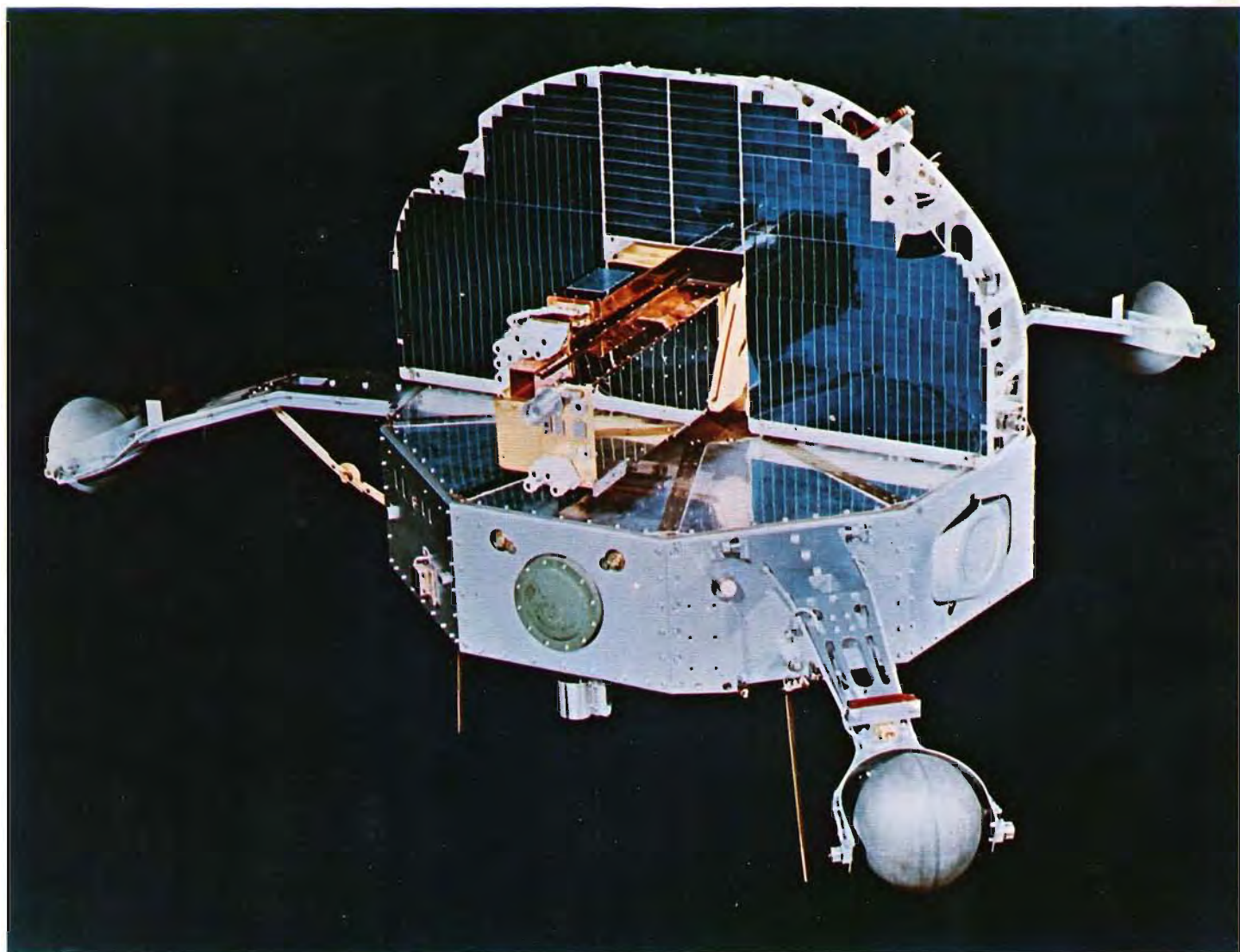
Though an undisputed leader in the field of special racing components, Campagnolo also has interested himself in other fields such as special lightweight magnesium wheels for racing, Grand Touring, Sporting and Production cars. He also excels in this field and from wheels for Formula One racing cars has moved into special parts for the automotive field of motor cycle, aviation and aerospace industries.



Campy
bike **Campagnolo - Tullio**

Tullio Campagnolo competing on the Aune Cross Pass during a cycle race November 11th 1927.

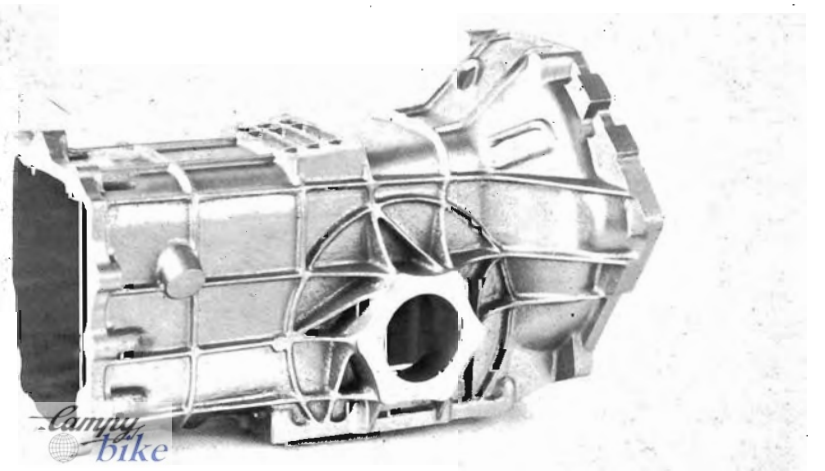
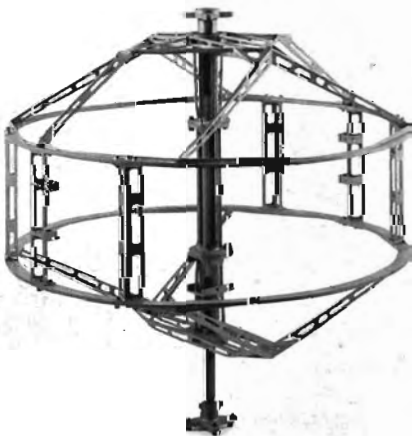
This short introduction is an abbreviation of the many and varied activities of Brevetti Internazionali Campagnolo S.p.A. and what it produces in several factories all controlled to the same standards of scientific and technical accuracy.



Campagnolo produces for:

The Aviation and Aerospace Industry components for aeroplanes, helicopters, scientific research rockets, sounding balloons, satellites... etc...

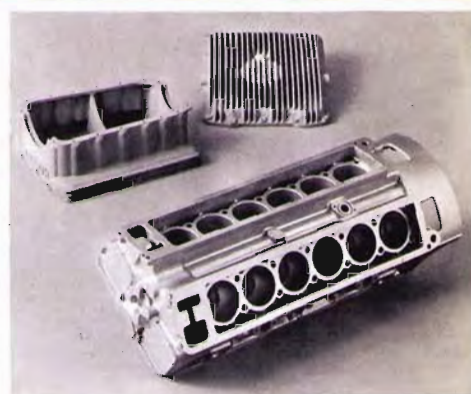
It is this a field wherein a few highly qualified companies only may operate, able to guarantee the highest degree of accuracy and quality of the rigidly controlled production.



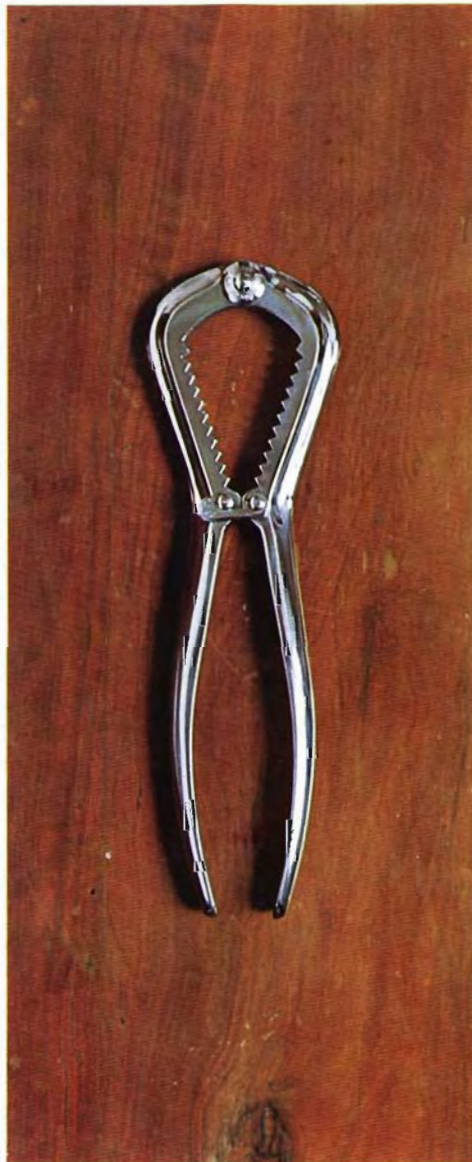
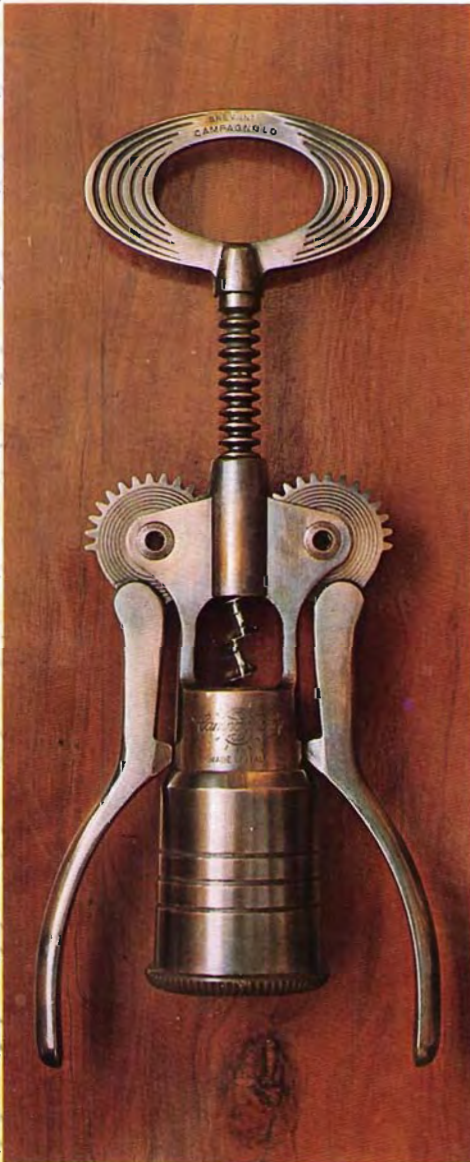
The Motor-Car manufacturing Industry wheels made of superlightweight Elektron alloy for sports, racing and touring motor-cars, as well as special engine and carframe components. Motor-car manufacturers such as: Ferrari, Abarth, De Tomaso, Autodelta, Lancia, Alfa Romeo, Maserati, Lamborghini, Tecno, Iso Rivolta... etc..., use Campagnolo wheels because they are the lightest in weight, the most durable, the safest.

The Motor-Cycle Industry alloy wheels, hubs and special parts for racing and sports motor-cycles.

The Mechanical Industry in general pieces for any appliance or plant or operating machines, for which it is necessary to combine maximum lightness with maximum strength.



Campagnolo also produces articles for the gifts and sports trades. Among the former let us remember the patented giant cork-screws permitting even the most resistant corks to be easily and safely extracted, and the nut-crackers, which do not break but do crack the nuts. With the latter are now included tennis rackets made of special ultralightweight alloys.





Campagnolo employs more than 2,000 skilled production workers and is constantly expanding. It exports directly to approximately 100 countries including all european markets, every american state, and a large number of African and Asian nations. Exports account for approximately 80% of the total production.



The most modern production processes, the use of high-grade materials, the most stringent controls, the most accurate workmanship distinguish all Campagnolo articles.

This catalogue, renewed in its general lines also with the introduction of colours for ease in reading it and making easier the identification of pieces and sets which they belong to, supersedes the previous ones.

This catalogue revised in its general layout has had colours introduced for ease of reading and identifying component parts of the various articles. It supercedes all previous issues.

IMPORTANT

Orders not stating catalogue part reference numbers against each article will not be executed.

"Brevetti Internazionali Campagnolo S.p.A." reserves the right to make design changes when necessary for technical advancement without previous notice.

catalogue of special bicycle products

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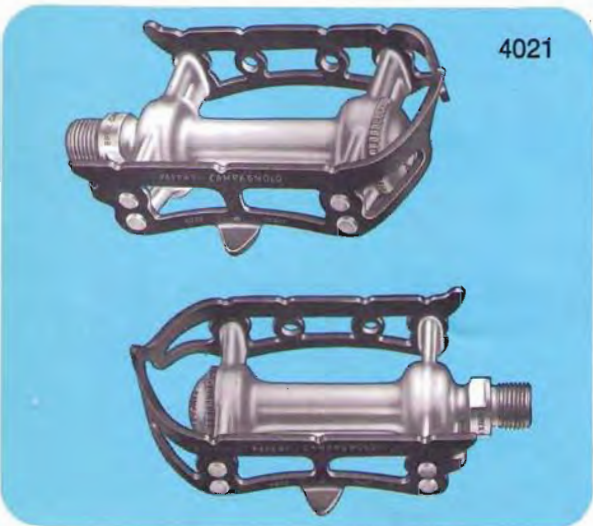
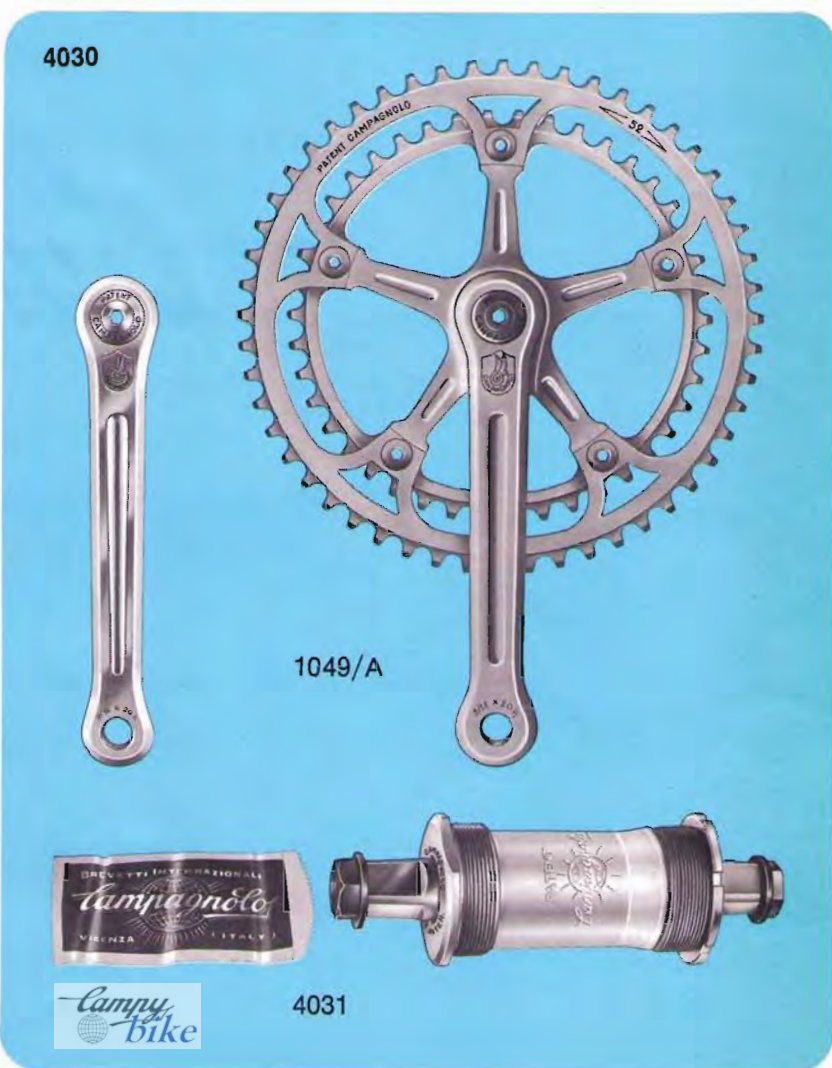
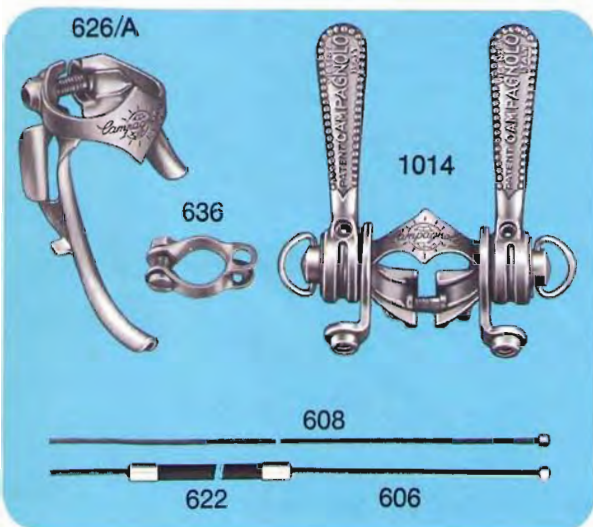
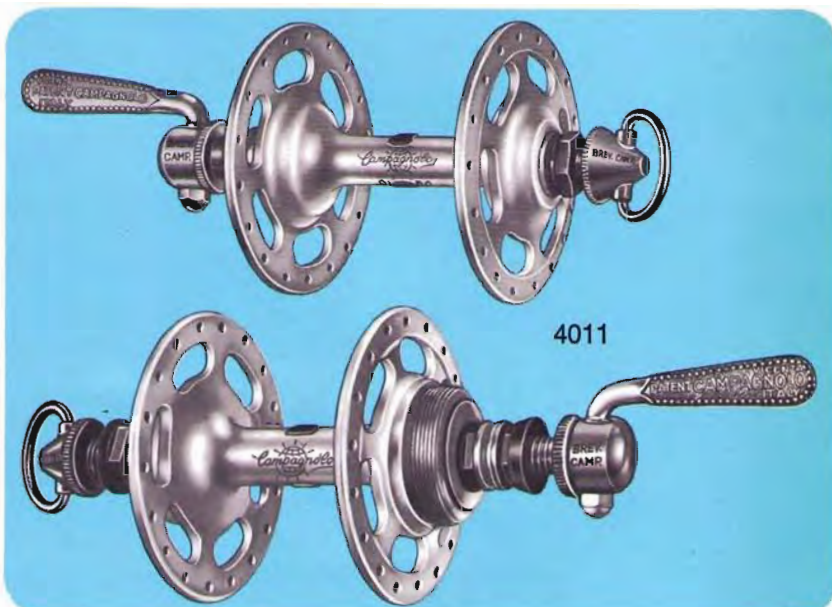
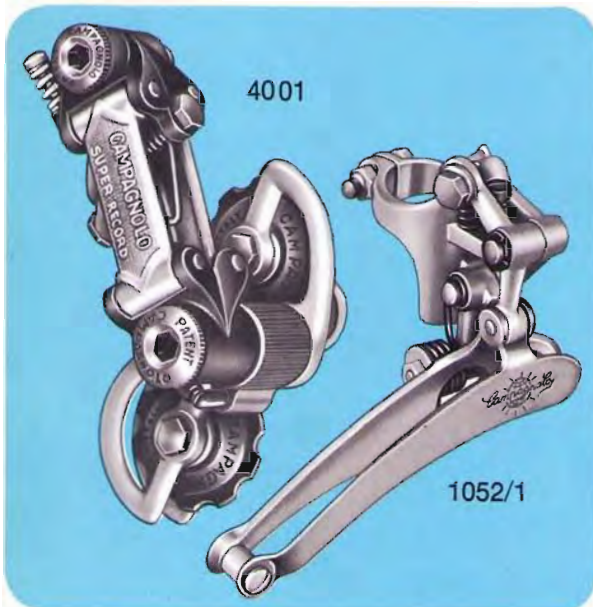
4000/F CAMPAGNOLO SUPER RECORD ROAD GROUP

(Particular components of this group are illustrated from page 8 to page 19)



- 606 Down tube control gear inner wire (118 cm.)
- 608 Down tube control front changer inner wire (72 cm.)
- 622 Gear stainless steel outer casing (21 cm.)
- 626/A Twin gear cable clip
- 636 Chainstay clip
- 649 Stainless steel brake cable clip
- 1010/A Set Record front and rear fork ends without eyelet
- 1014 Twin down tube control lever. See alternatives on pages 10-11
- 1030/2 Pump connector

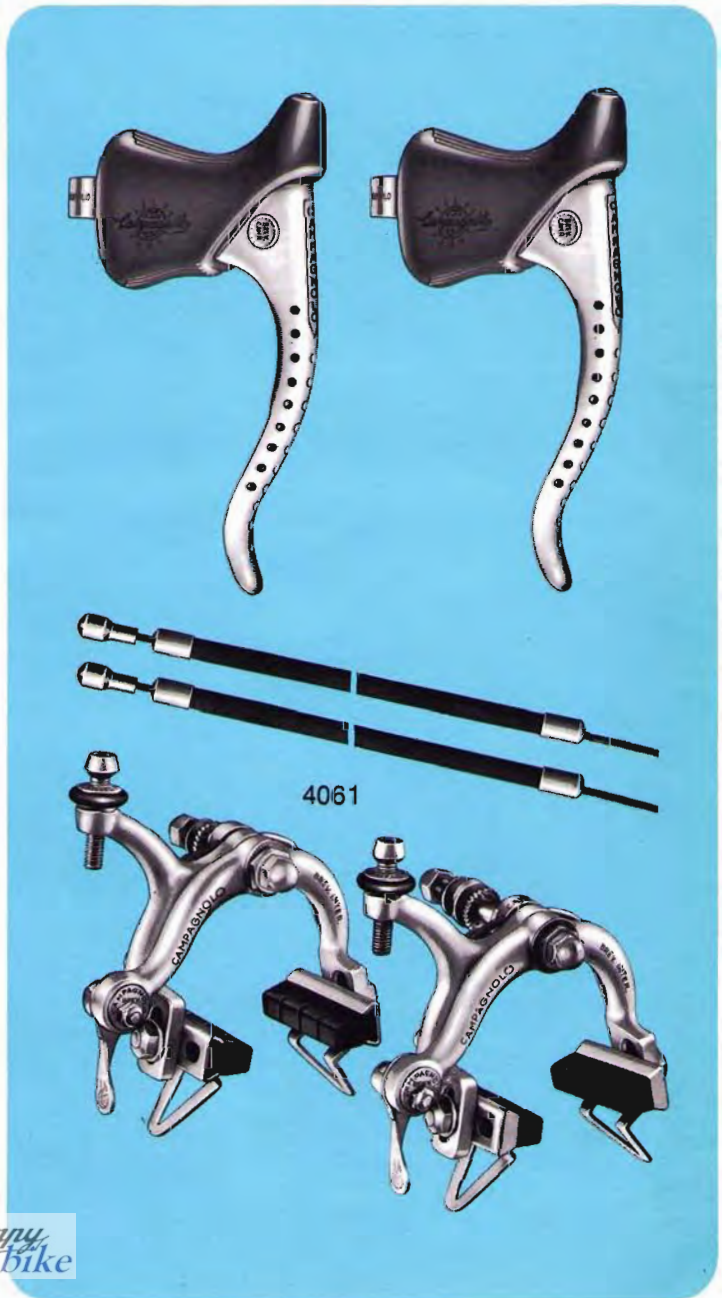
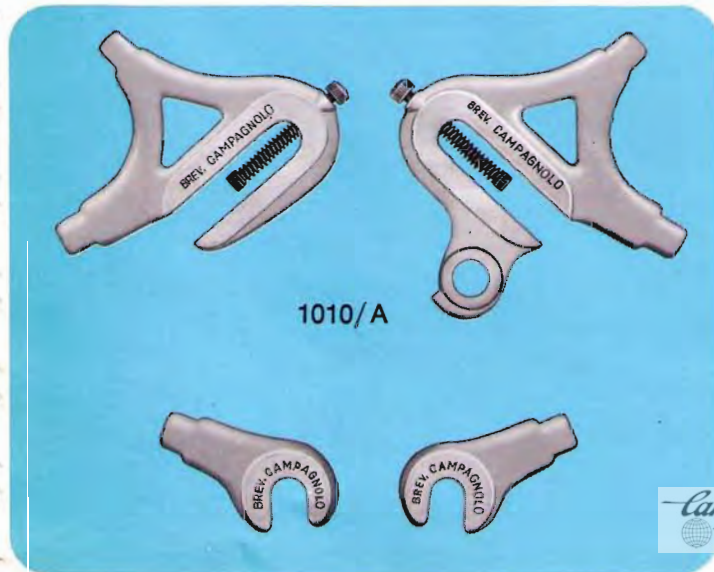
1049/A Super Record road chainset (with cranks 170 mm. pedal hole \varnothing 9/16" x 20 F. and chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth of the chainrings available from 42T to 57T. Upon request are furnished cranks with lengths 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm.



1052/1 Record front changer
4001 Super Record gear
 (without hanger)
4011 Pair Super Record large flange
 quick release road hubs with
 Titanium spindle (front width
 100 mm. - rear width 120 mm.,
 flanges with 36 holes,
 thread $\varnothing 35 \times 24F.$).
 Upon request furnished with
 rear hub suitable for
 6 sprockets, width 125 mm.,
 flanges with 24 - 28 - 32 - 40

holes, thread $\varnothing 34,7 \times 1$ M. or
 $\varnothing 1,370'' \times 24$ Tpi-BSC.
 See other alternatives on page 12
4021 Pair Super Record road pedals
 with Titanium spindle
 (spindle thread $\varnothing 9/16 \times 20F.$).
 The pedals are supplied with
 unassembled screws and washers
 for fixing toe clips
4030 Super Record road chainwheel
 set
4031 Super Record bottom bracket
 road set with Titanium spindle
 (bracket width 70 mm. and cups

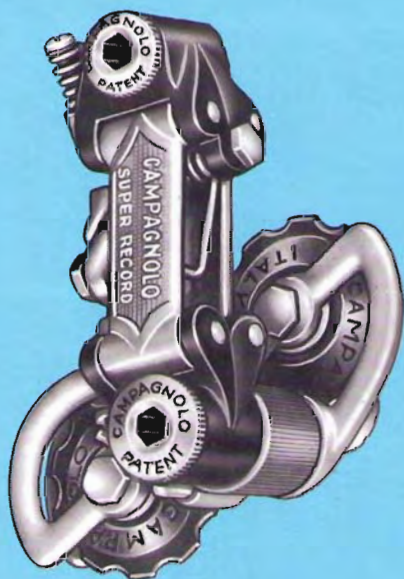
threaded $\varnothing 36 \times 24F.$).
 See alternatives on pages 14-15
4041 Super Record road head set
 (thread $25,4 \times 24F.$).
 Upon request furnished with
 thread $\varnothing 25 \times 1M.$ or
 $\varnothing 1'' \times 24$ Tpi-BSC
4051 Super Record seat pin.
 (pin length 147 mm.)
 Specify diameter stem: 25 -
 25,8 - 26 - 26,2 - 26,4 - 26,6 - 26,8
 - 27 - 27,2 - 27,4 mm.
4061 Set Super Record brakes.
 See alternatives on pages 18-19



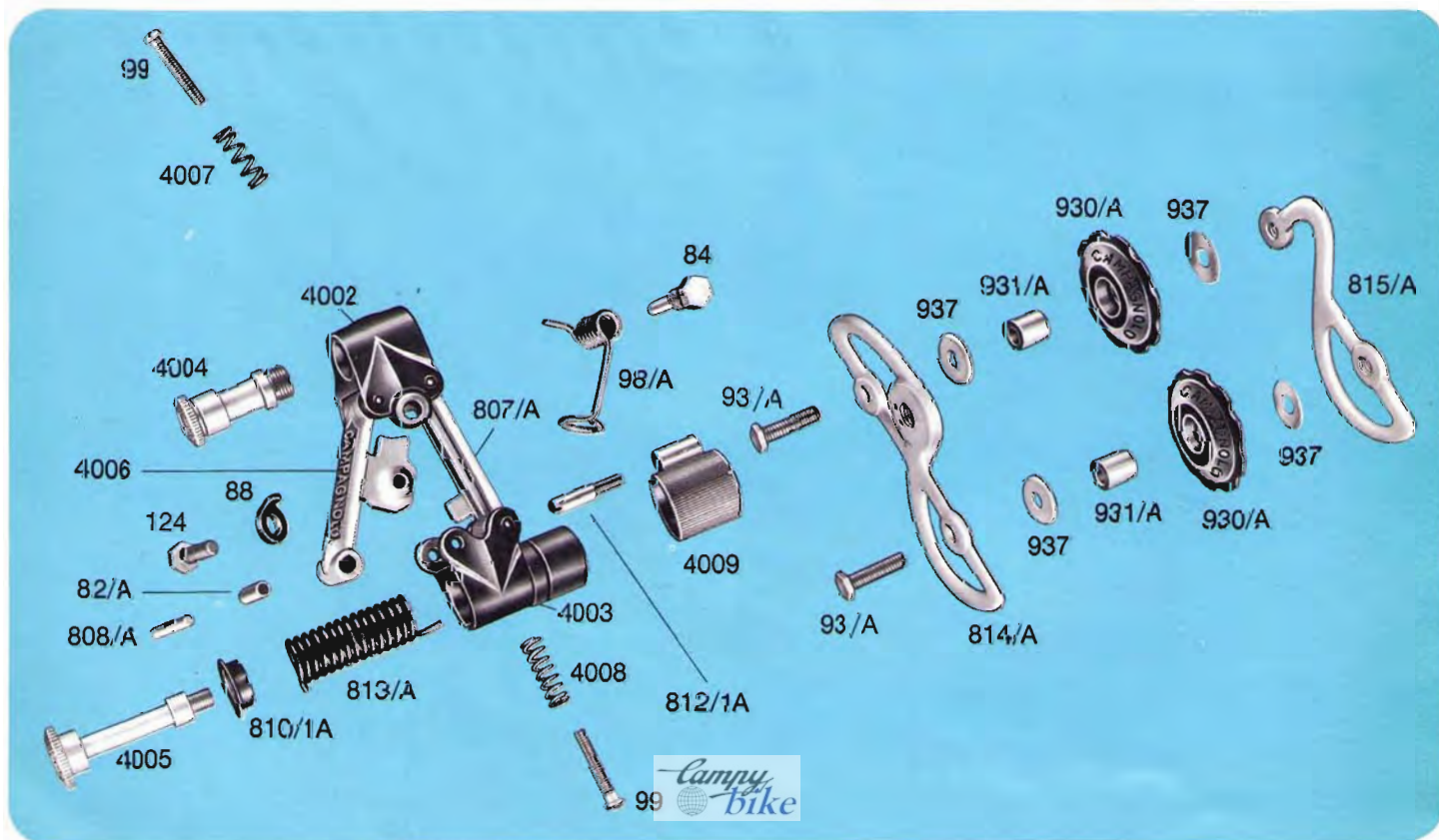
PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

4001	Super Record gear
82/A	Body ferrule
84	Gear return spring screw
88	Clamp washer
93/A	Sprocket bolt
98/A	Gear return spring
99	Gear adjusting screw
124	Fixing screw
807/A	Inner arm
808/A	Spindle
810/1A	Lower body bush
812/1A	Grub screw
813/A	Tension spring

814/A	Outer cage plate
815/A	Inner cage plate
930/A	Roller
931/A	Roller bush
937	Roller dust cover
4002	Upper body
4003	Spring cage
4004	Upper pivot Titanium bolt
4005	Spring cage Titanium bolt
4006	Front arm
4007	Adjusting bolt upper spring
4008	Adjusting bolt lower spring
4009	Spring cage cover



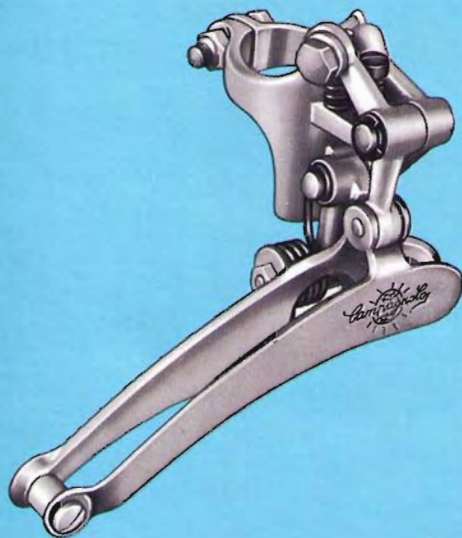
4001



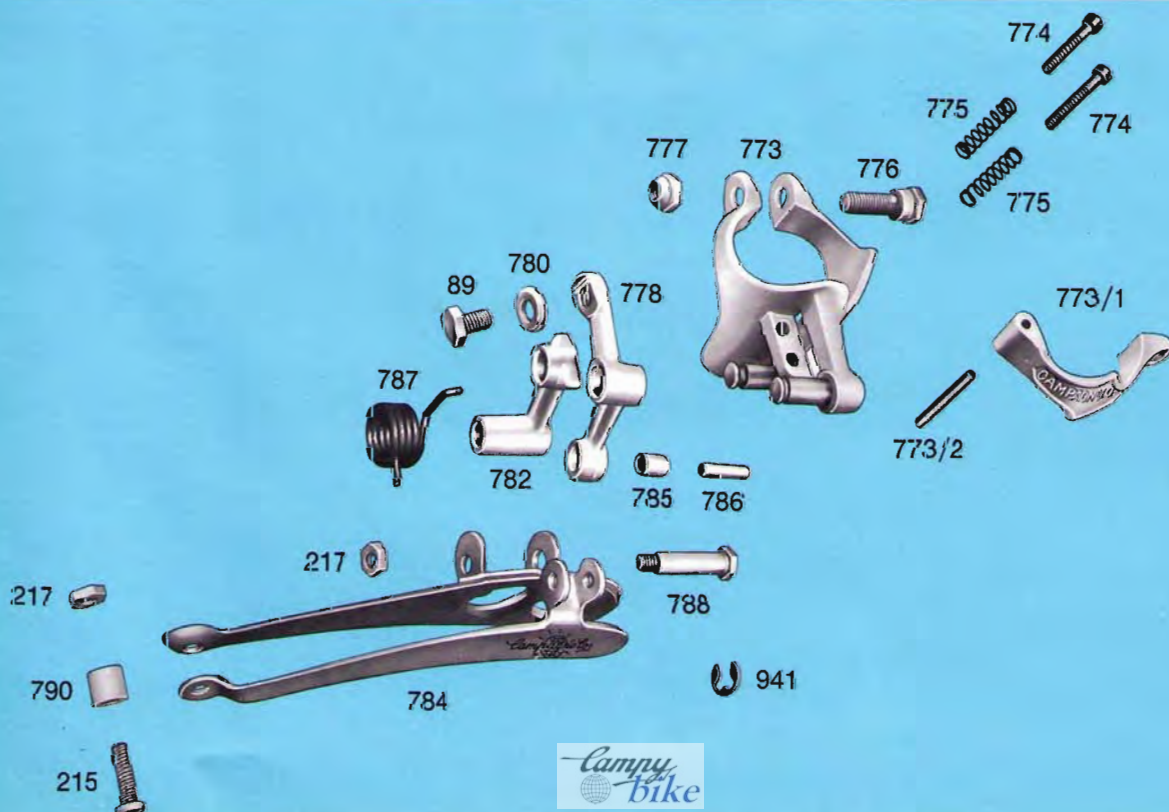
PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

1052/1	Record front changer
89	Clamp washer
215	Cage spanner bolt
217	Nut
773	Record front changer body (complete with clip and hinge)
773/1	Hinge
773/2	Hinge pin
774	Adjusting screw
775	Adjusting bolt spring
776	Clip fixing screw

777	Clip nut
778	Upper arm
780	Cable clamp bolt washer
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
790	Bush
941	Circlip



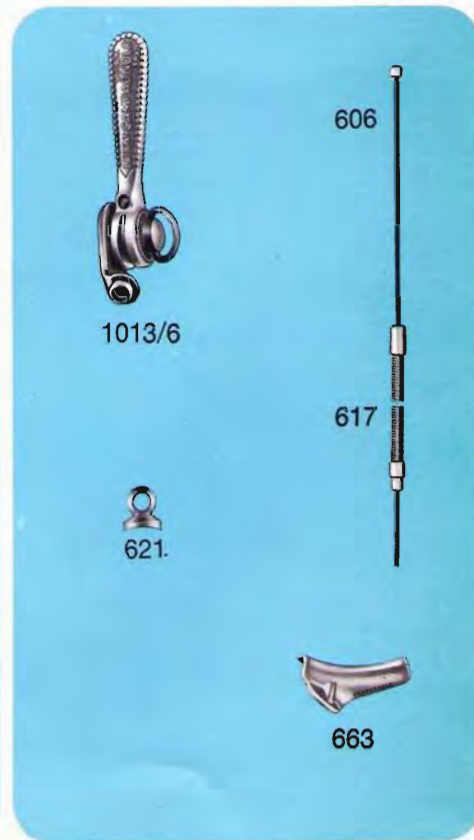
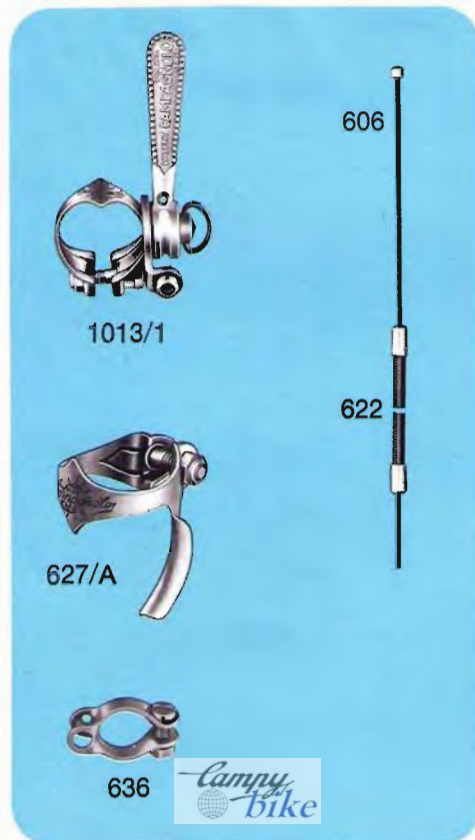
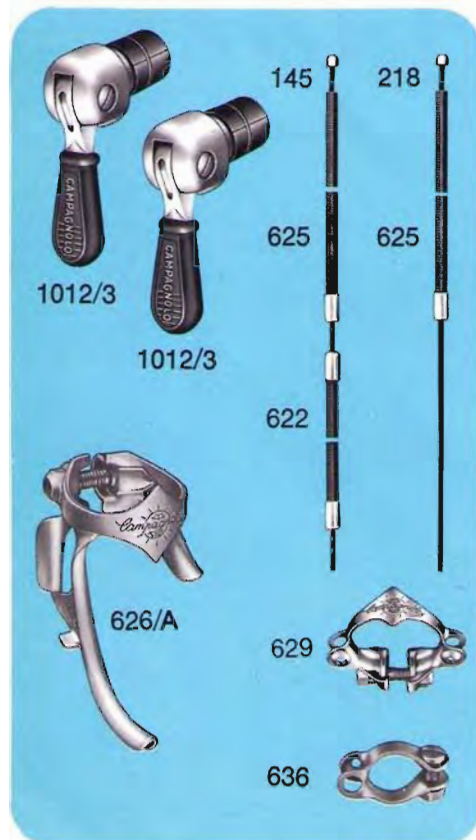
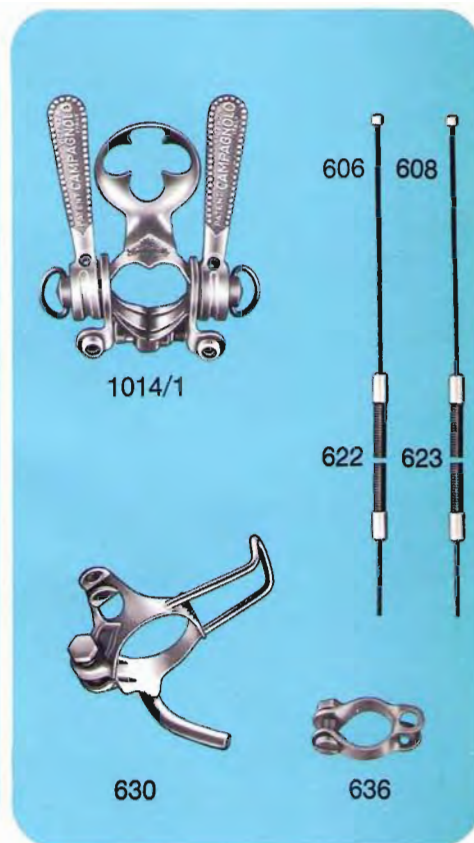
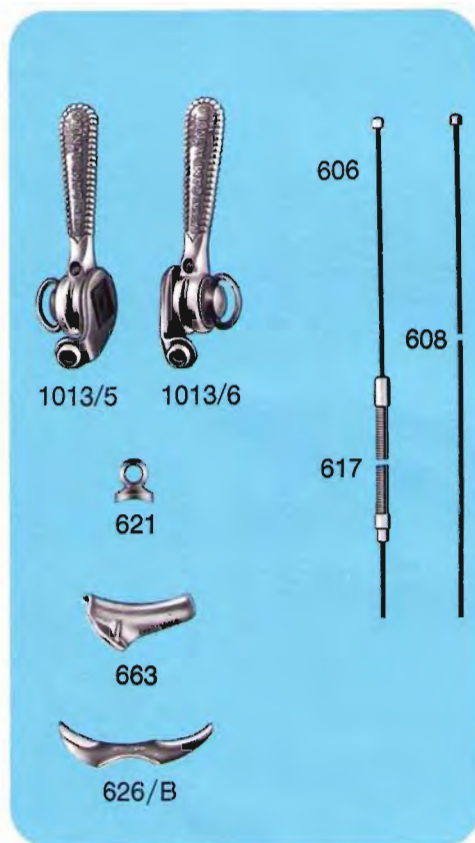
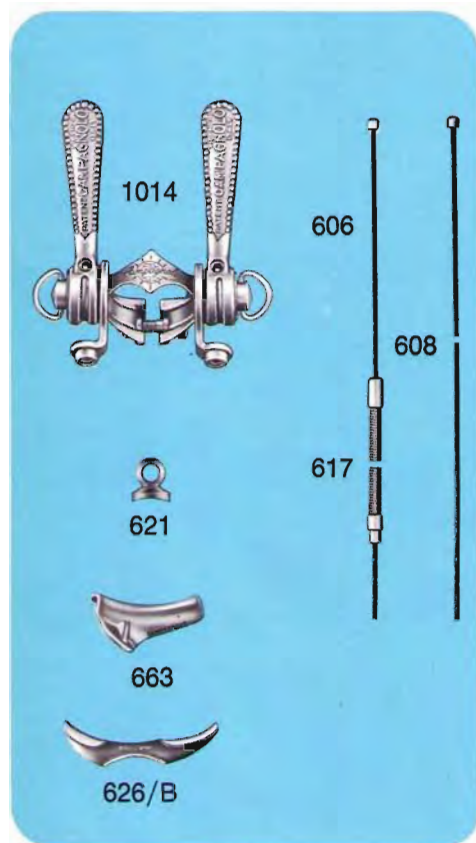
1052/1



PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

- 137 Segment expanding screw
- 138 Segment
- 139/1 Counter-nut
- 139/2 Hexagonal screw
- 140/1 Tension adjusting screw
- 142 Spring segment holder
- 145 Gear cable to handlebar control (197 cm.)
- 173 Handlebar lever rubber
- 174 Handlebar friction plate
- 174/1 Lever friction plate
- 200/2 Handlebar control body
- 201 Handlebar lever

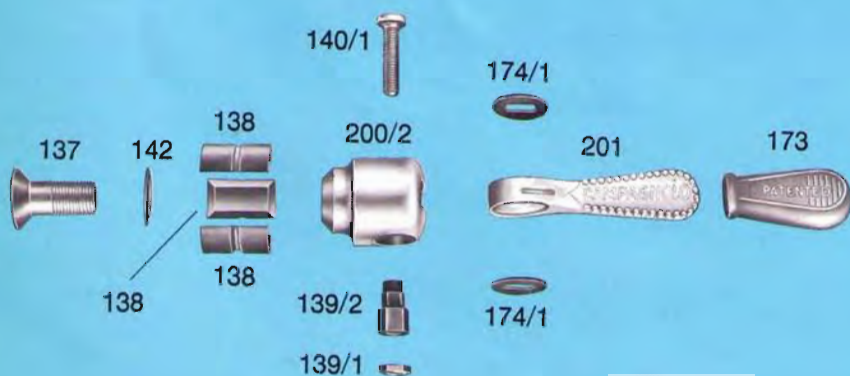
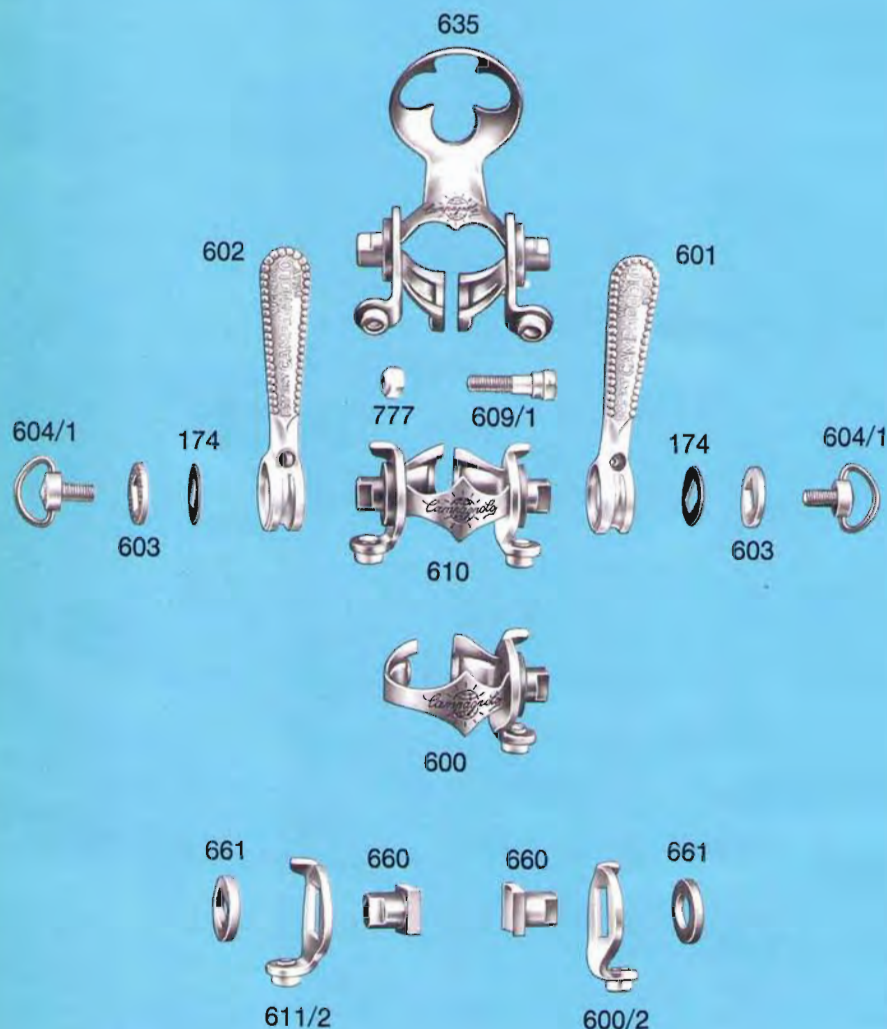
- 218 Front changer cable to handlebar control (150 cm.)
- 600 Right hand collar (without screw and nut)
- 600/2 Right hand braze-on control lever plate
- 601 Gear control lever only
- 602 Front changer control lever only
- 603 Cover plate
- 604/1 Friction adjusting wing nut
- 606 Down tube control gear inner wire (118 cm.)



608 Down tube control front changer
inner wire (72 cm.)
609/1 Fixing clip bolt
610 Record twin control clip
611/2 Left hand braze-on control lever
plate
617 Braze-on gear stainless steel
outer casing (21 cm.)
621 Braze-on cable stop
622 Gear stainless steel outer casing
(21 cm.)
623 Front changer stainless steel

625 outer casing (15,5 cm.)
Stainless steel outer casing to
down tube handlebar control
(75 cm.)
626/A Twin gear cable clip
626/B Braze-on cable ferrule
627/A Down tube tunnel R/H for gear
629 Twin handlebar control clip
630 Clip-on-tunnel and stop with
pump holder D/T
635 Pump holder twin control Record
lever bosses

636 Chainstay clip
660 Braze-on boss
661 Brazed boss collar
663 Braze-on cable ferrule
777 Clip nut
1012/3 Handlebar control
1013/1 Right hand down tube control
1013/5 Front changer braze-on control
1013/6 Gear braze-on control
1014 Twin down tube control lever
1014/1 Twin down tube control lever
with pump clip

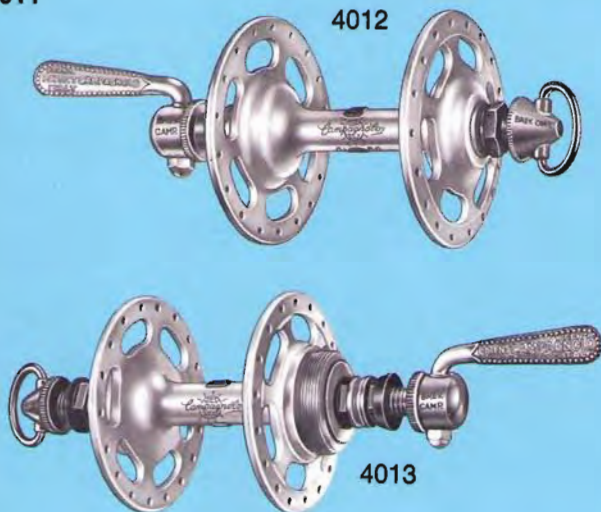


PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

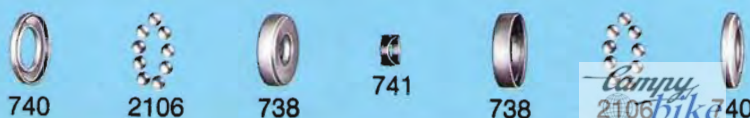
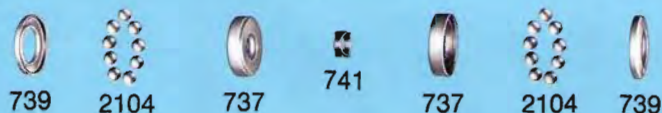
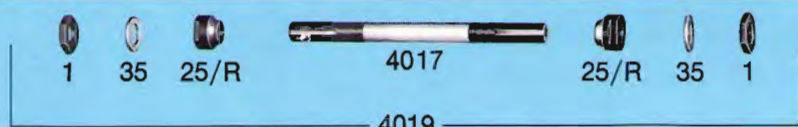
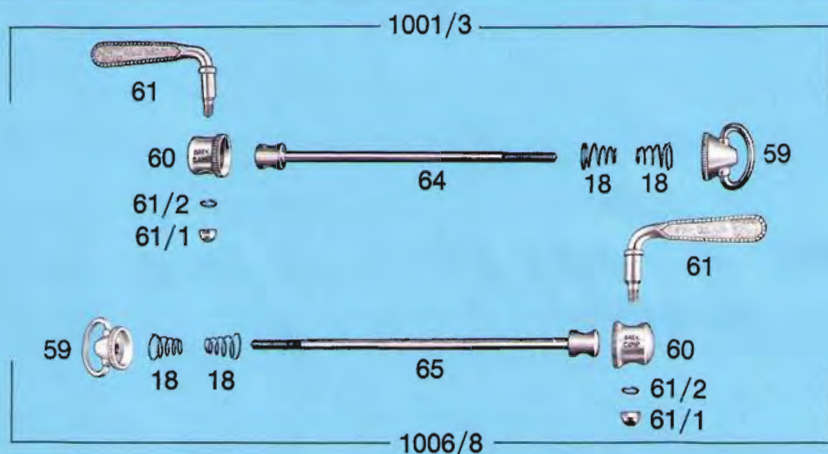
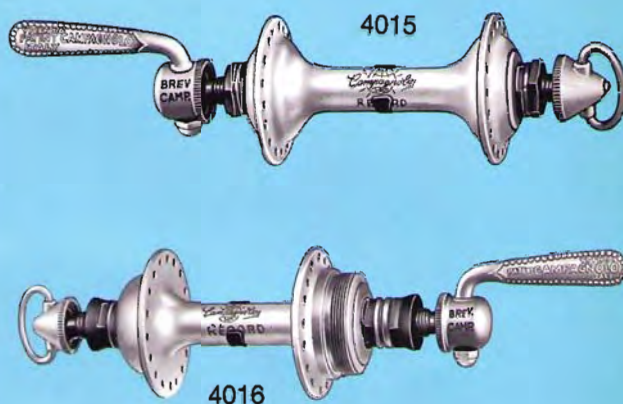
- 4011** Pair Super Record large flange quick release road hubs with Titanium spindle (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1.370" x 24 Tpi-BSC
- 4012** Super Record large flange front road hub
- 4013** Super Record large flange rear road hub

- 4014** Pair Super Record small flange quick release road hubs with Titanium spindle (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request furnished with hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1.370" x 24 Tpi-BSC
- 4015** Super Record small flange front road hub
- 4016** Super Record small flange rear road hub

4011



4014



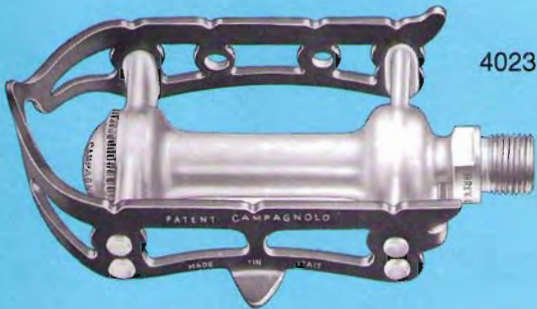
- 1** Front lock nut
- 18** Conical spring
- 25/R** Front cone
- 32/R** Rear cone
- 33** Rear lock nut
- 35** Front hub lock washer
- 36** Rear hub lock washer
- 46** Rear spacing collar
- 59** Quick release conical adjuster
- 60** Quick release cap
- 61** Quick release lever
- 61/1** Spring washer
- 61/2** Grower washer
- 64** Quick release front skewer
- 65** Quick release rear skewer
- 737** Front ball cup
- 738** Rear ball cup
- 739** Front dust cover
- 740** Rear dust cover
- 741** Spring clip
- 1001/3** Complete front quick release skewer for Record hub
- 1006/8** Complete rear quick release skewer for Record hub
- 2104** Set (9+9) special \varnothing 7/32" balls selected with 1/1000 of mm. tolerance
- 2106** Set (9+9) special \varnothing 1/4" balls selected with 1/1000 of mm. tolerance
- 4017** Front hollow Titanium axle for Super Record road hub
- 4018** Rear hollow Titanium axle for Super Record road hub (129 mm. long). Upon request are furnished spindles 132 - 134 and 140 mm. long
- 4019** Complete front axle for Super Record road hub
- 4020** Complete rear axle for Super Record road hub

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

- 4021** Pair Super Record road pedals with Titanium spindle (spindle thread \varnothing 9/16" x 20F.). The pedals are supplied with unassembled screws and washers for fixing toe clips.
- 89** Toe clip locking screw for superlight pedals
- 673** Pedal axle washer
- 675** Pedal axle lock nut
- 677** Toe clip washer
- 678** Inner dust cap
- 679/A** Pedal dust cap

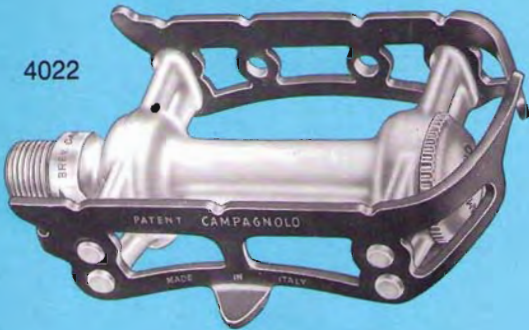
- 4022** Super Record right hand road pedal
- 4023** Super Record left hand road pedal
- 4024** Super Record right hand Titanium pedal
- 4025** Super Record left hand Titanium pedal
- 4026** Inserted pedal race (available also in oversize)
- 4027** Pedal axle cone
- 4028** Set (64) special \varnothing 1/8" pedal balls selected with 1/1000 of mm. tolerance

4021



4023

4022



4026



4026



4027



673



675



678



679/A



677



89



4028



4025



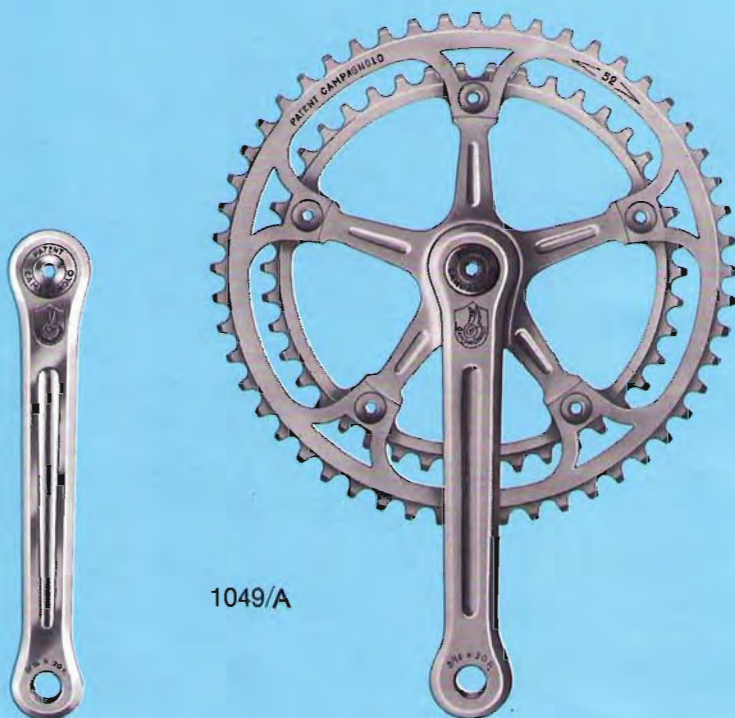
4024

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

- 4030** Super Record road chainwheel set
1049/A Super Record road chainset (with cranks 170 mm., pedal hole \varnothing 9/16" x 20F. and chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth available from 42T to 57T. Upon request furnished cranks with lengths

- 4031** 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. Super Record bottom bracket road set with Titanium spindle (bracket width 70 mm. and cups threaded \varnothing 36 x 24F.). Lockring with normal 3.5 mm. thickness (available also with 4 mm. and 4.5 mm. thickness) Indicate required thread

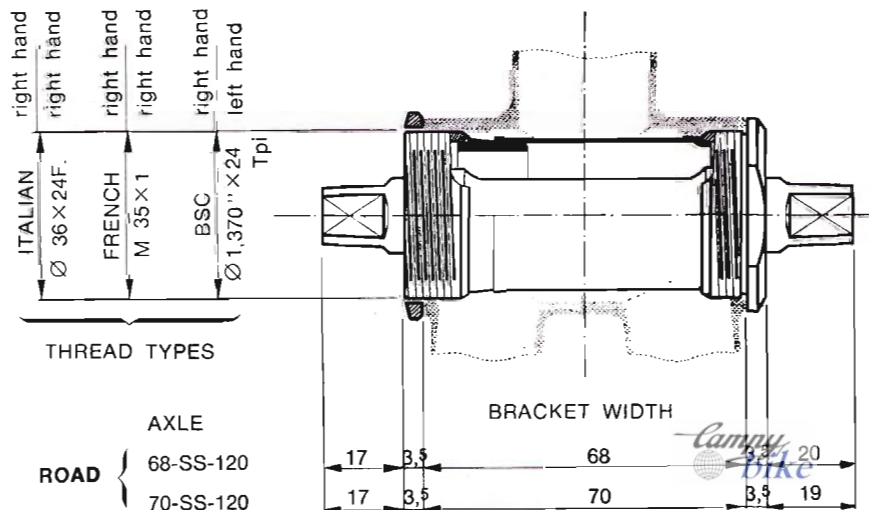
4030



1049/A



4031



Details of bracket number:

- The first number indicates the bracket width
- SS indicates road
- Number 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

748
749
751

Fixing screw
Fixing washer
Right hand road crank
(complete with cover 756,
170 mm. long). Upon request are
furnished the following
sizes: 165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long
Left hand road crank
(complete with cover 756,
170 mm. long). Upon request are
furnished the following

753/A

754

755

756

801

2110

2110/1

sizes: 165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long
Super Record road chainring for
1/2 x 3/32" (2 mm.) chain.
Specify the number of teeth
available from 42T to 57T
Road chainwheel fastening screw
Road chainwheel fastening nut
Crank cover plate
Spacer for single chainring
Record sleeve
Cone for sleeve

4032

4033

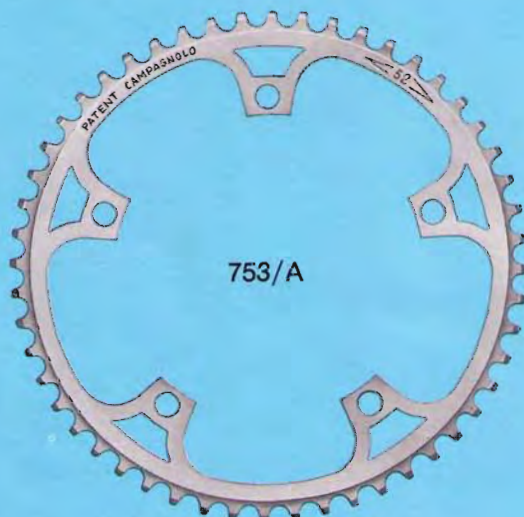
4034

4035

Super Record cotterless
Titanium road spindle.
See measurements and indicate
spindle size
Fixed cup.
Indicate required thread
Adjustable cup.
Indicate required thread
Set (14+14) special Ø 3/16" b/b
balls selected with 1/1000 of
mm. tolerance



752



753/A



751



756



755



754



801



2110/1



2110



4035



748



749



747



4034



4032



4033



749



748

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

- 4041** Super Record road head set
2101 Set (20+20) special b/b
 \varnothing 3/16" balls selected with
1/1000 of mm. tolerance
- 4042** Super Record locking nut
(specify type of threading)
- 4043** Super Record locking washer
- 4044** Super Record screwed road race
(specify type of threading)

- 4045** Super Record road top head
race (0,5 mm. larger
gauge available)
- 4046** Super Record road bottom head
race (0,5 mm. larger
gauge available)
- 4047** Super Record road crown race
(smaller diameter available)

4041



4051



4054



4055



4056



4052



4053

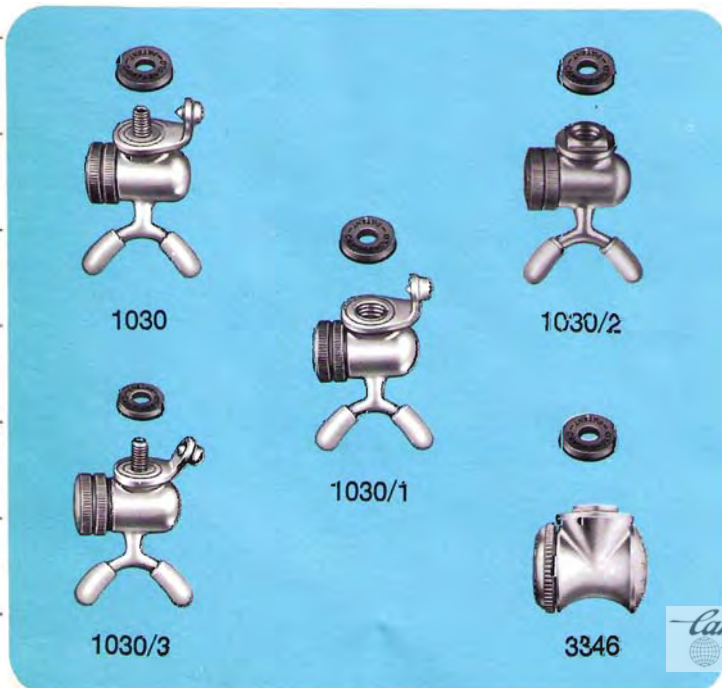
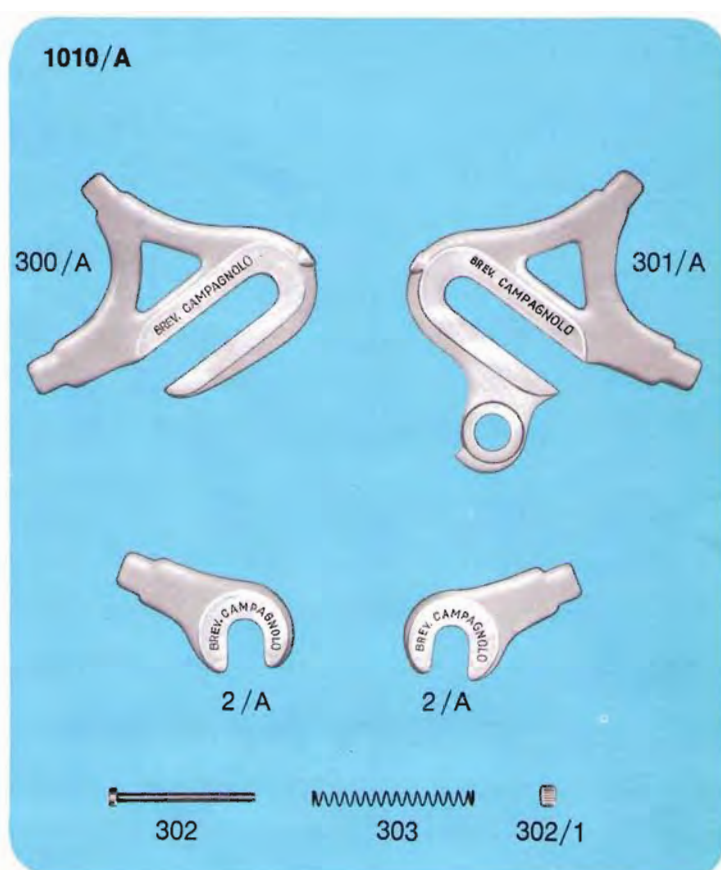


4057

- 4051** Super Record seat pin.
(pin length 147 mm.)
Specify diameter stem:
25 - 25,8 - 26 - 26,2 - 26,4 - 26,6
26,8 - 27 - 27,2 - 27,4 mm.
- 4052** Left hand side support
- 4053** Right hand side support
- 4054** Front bracket
- 4055** Rear bracket
- 4056** Fixing and adjusting bolt
- 4057** Bolt nut

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

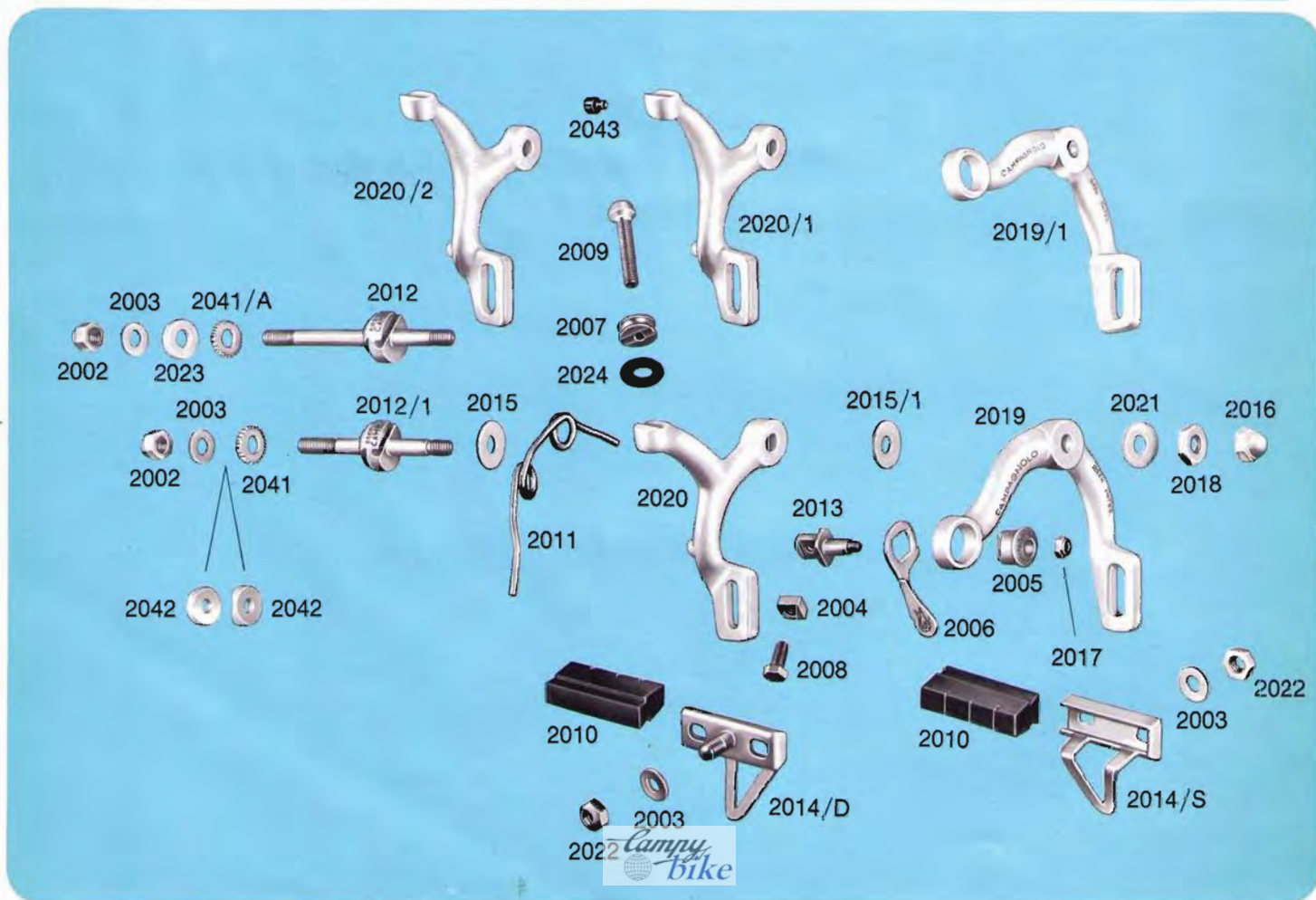
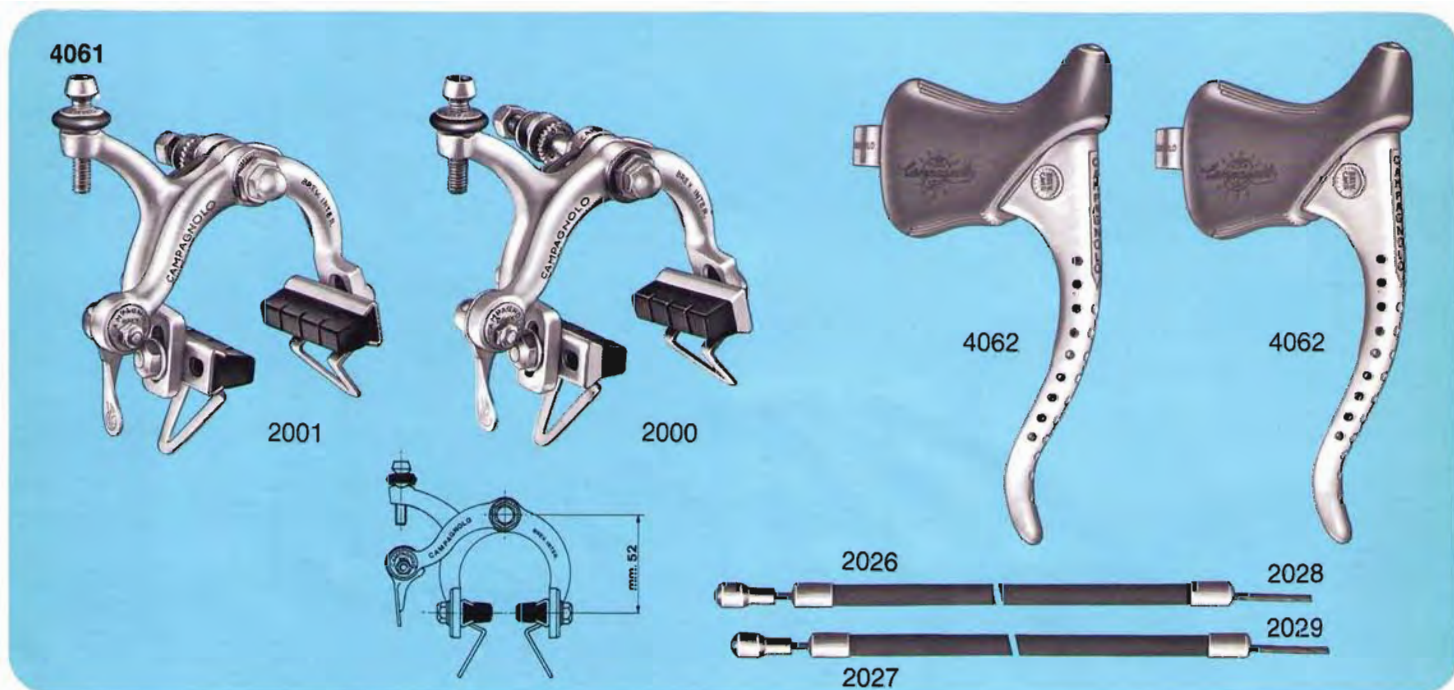
- 2/A Record right and left hand front fork ends without eyelet
- 300/A Record left hand rear end without eyelet
- 301/A Record right hand rear end without eyelet
- 302 Adjusting bolt
- 302/1 Nut for bolt 302
- 303 Adjusting bolt spring
- 640 Rubber cap
- 641 Milled nut
- 642 Rubber washer
- 643 Rubber washer for tubular valves
- 644 Rubber washer for pump connector 1030
- 645 Connecting screw
- 646 Rubber washer for pump connectors 1030/1 and 1030/2
- 653 Rubber washer for pump connector 1030/3
- 1010/A Set Record front and rear fork ends without eyelet
- 1030 Pump connector with $\varnothing 7/32''$ or M7 x 1 locking screw
- 1030/1 Pump connector with M9 x 1,25 locking screw
- 1030/2 Pump connector with M9 x 1,25 locking screw
- 1030/3 Pump connector with M5 x 1 or M7 x 1 locking screw (French type)
- 3346 Superlight connector ensemble with square boss (with M9 x 1,25 locking screw)
- 3349 Cover for superlight pump connector
- 3351 Washer for superlight pump connector



PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP 4000/F

4061	Set Super Record brakes
4061/1	Set Super Record small brakes
4062	Brake control with drilled levers
2000	Front brake
2000/1	Small front brake
2001	Rear brake
2001/1	Small rear brake
2002	Centre bolt fixing nut
2003	Washer
2004	Clamp bolt washer
2005	Cam
2006	Quick release cam lever

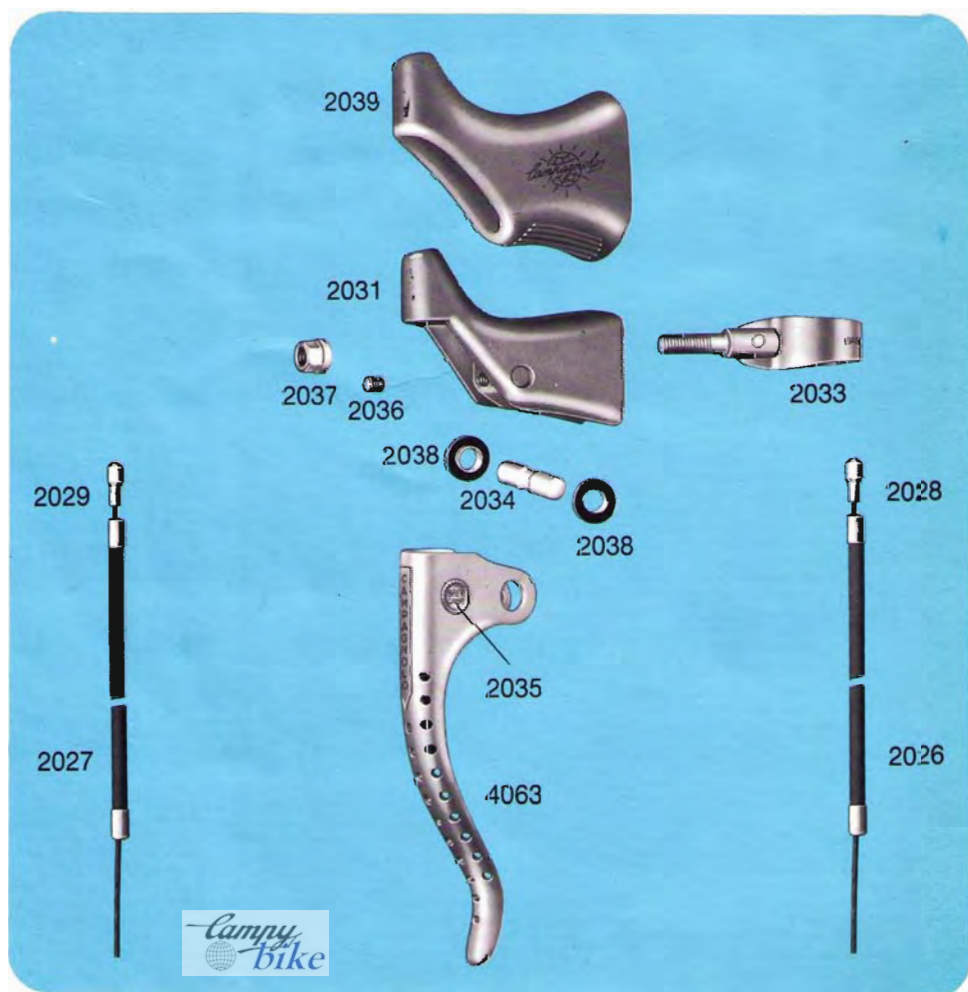
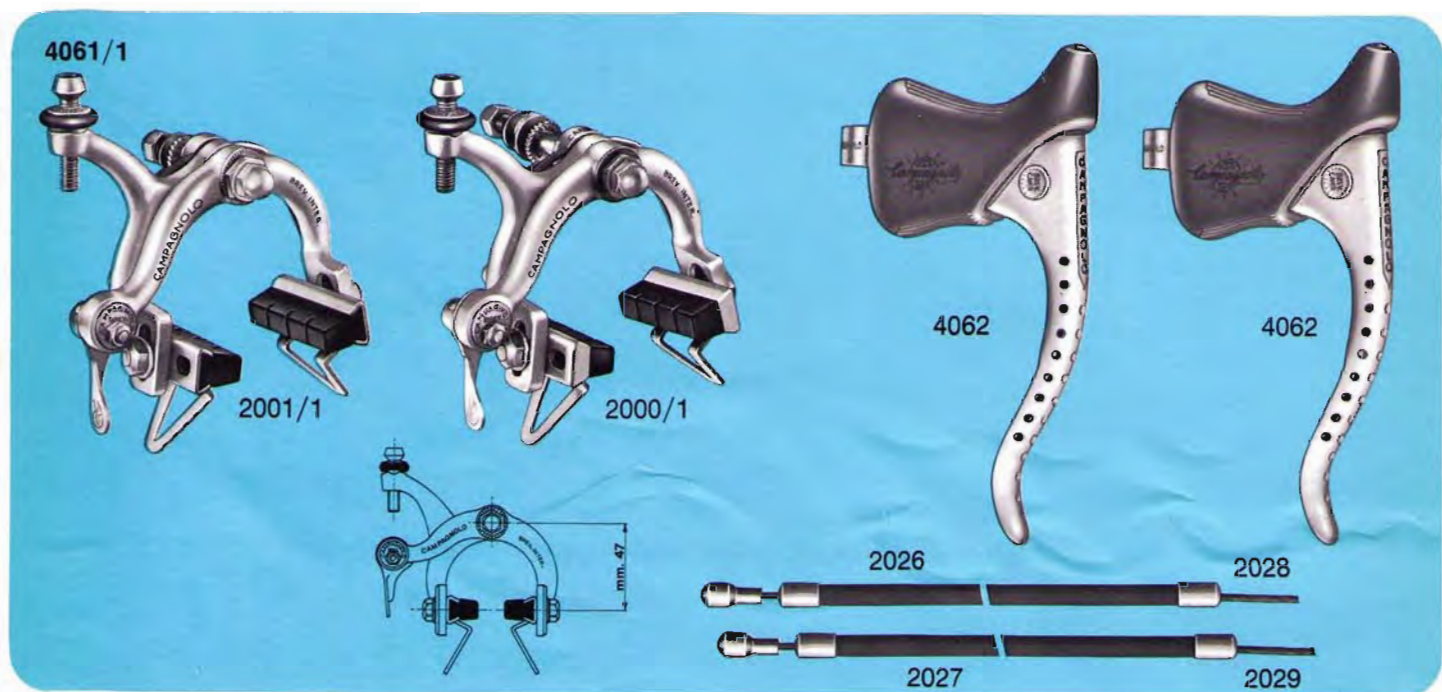
2007	Adjusting nut
2008	Cable clamp bolt
2009	Adjusting screw
2010	Brake block
2011	Tension spring
2012	Front brake center bolt
2012/1	Rear brake center bolt
2013	Cable clamp
2014/D	Right hand brake shoe
2014/S	Left hand brake shoe
2015	Friction washer
2015/1	Inner friction washer
2016	Domed nut



2017 Cam locking nut
 2018 Locking nut
 2019 Front stirrup
 2019/1 Small brake front stirrup
 2020 Rear stirrup
 2020/1 Small brake front stirrup
 2020/2 Small brake rear stirrup
 2021 Milled washer
 2022 Brake shoe nut
 2023 Concave washer for front brake
 2024 Adjusting rubber

2026 Front brake outer casing
 (61 cm.)
 2027 Rear brake outer casing
 (119 cm.)
 2028 Front inner cable (73 cm.)
 2029 Rear inner cable (131 cm.)
 2031 Lever hood
 2033 Brake lever clip
 2034 Lever pivot pin
 2036 Grub screw
 2037 Clamp nut

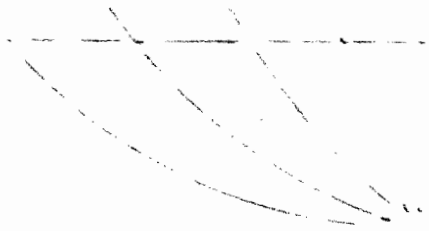
2038 Lever bush
 2039 Rubber lever hood
 2041 Serrated washer for rear brake
 2041/A Serrated washer for front brake
 2042 Concave washer for rear brake
 (upon request is furnished for
 round breast band)
 2043 Lever rubber for small brake
 4063 Drilled lever control (complete
 with cable holder 2035)





Campagnolo

Pauline



SUPER RECORD TRACK GROUP	pages 22-23
SUPER RECORD TRACK HUBS	page 24
SUPER RECORD TRACK PEDALS	page 25
SUPER RECORD CHAINWHEEL SET - TRACK BOTTOM BRACKET SET	pages 26-27
SUPER RECORD TRACK HEAD SET SUPER RECORD SEAT PINS - FORK ENDS	page 28

4100 CAMPAGNOLO SUPER RECORD TRACK GROUP

(Particular components of this group
are illustrated from page 24 to page 28)



4101



4121



4130



4151



4131

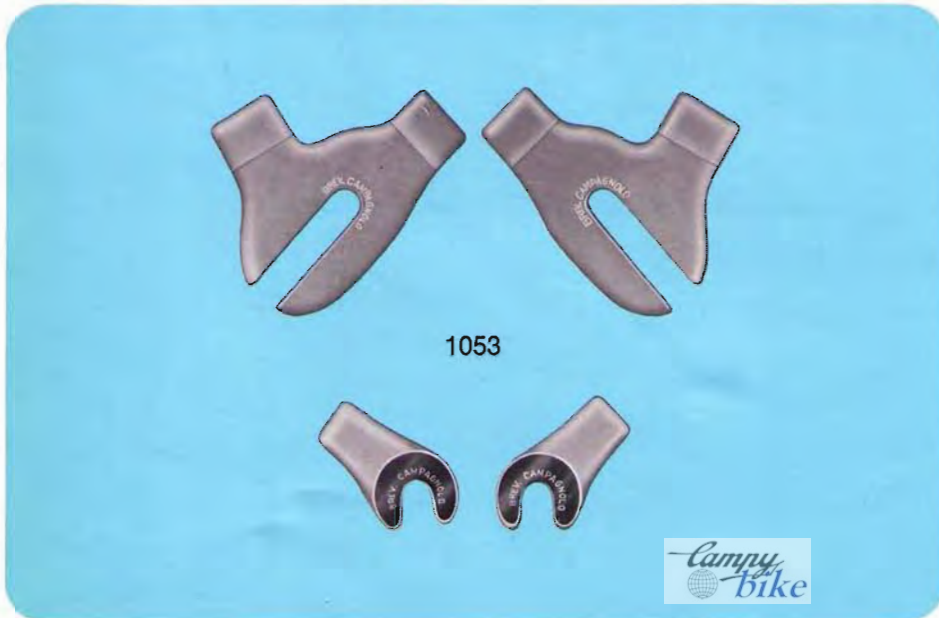




4141



4051



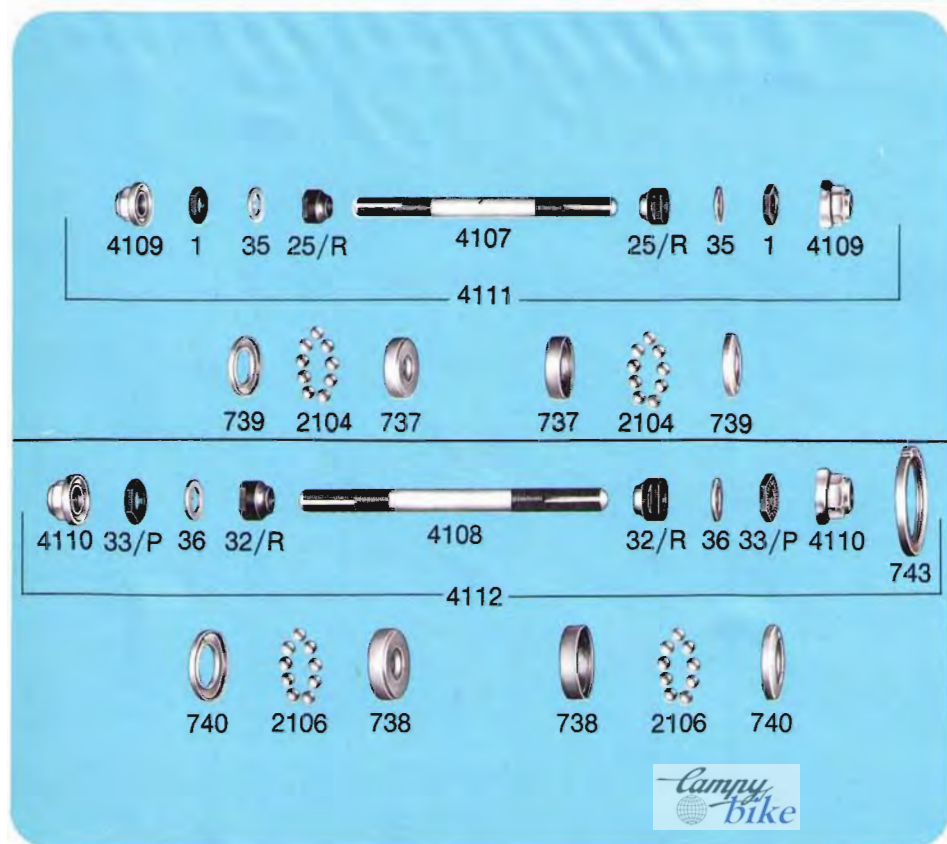
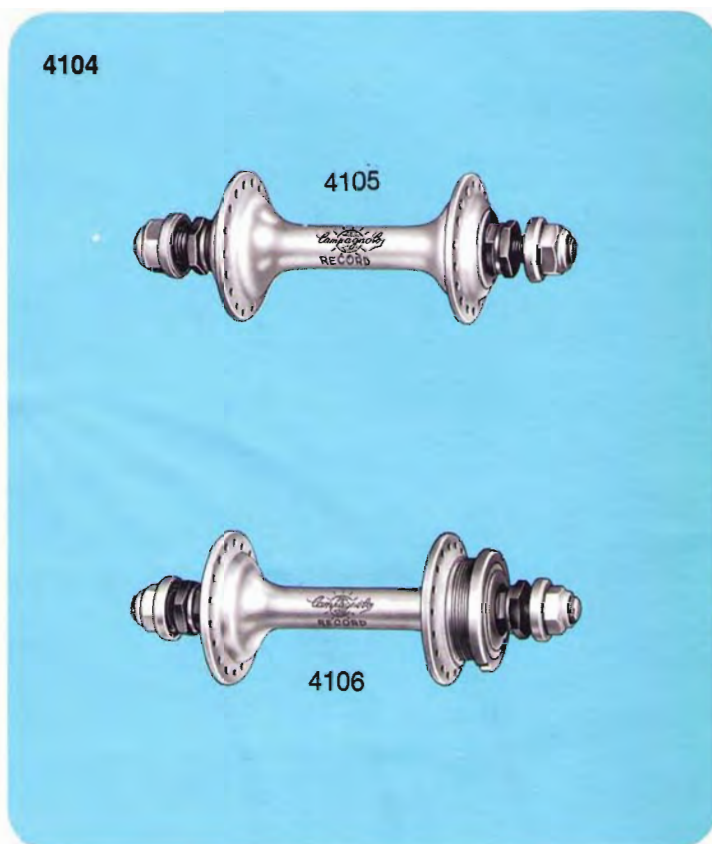
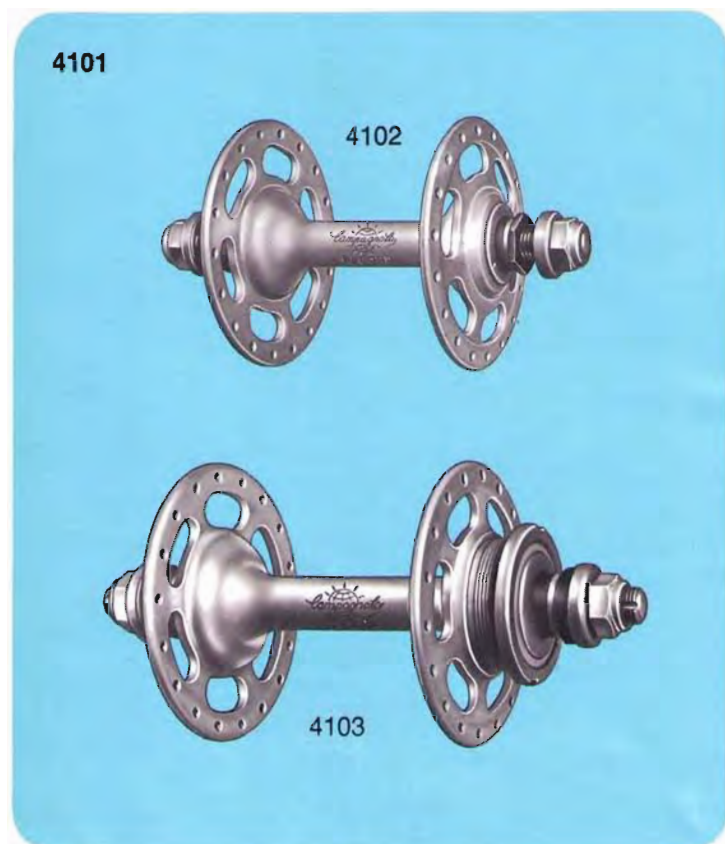
1053

- 1053** Set track front and rear fork ends
- 4051** Super Record seat pin.
(pin length 147 mm.)
Specify diameter stem: 25 - 25,8
- 26 - 26,2 - 26,4 - 26,6 - 26,8 -
27 - 27,2 - 27,4 mm.
- 4101** Pair Super Record large flange
with Titanium spindle track hubs
(front width 100 mm., rear width
110 mm., flanges with 36 holes,
thread \varnothing 35 x 24F.).
Upon request are furnished with
rear hub width 120 mm., flanges
with 24 - 28 - 32 - 40 holes,
thread \varnothing 34,7 x 1 M. or
 \varnothing 1,370" x 24 Tpi-BSC
See alternatives on page 24
- 4121** Pair Super Record track pedals
with Titanium spindle (spindle
thread \varnothing 9/16" x 20F.).
The pedals are supplied with
unassembled screws and washers
for fixing toe clips
- 4130** Super Record track chainwheel
set
- 4131** Super Record bottom bracket
track set with Titanium spindle
(bracket width 70 mm. and cups
threaded \varnothing 36 x 24F.).
See alternatives on pages 26-27
Upon request is furnished the
bracket safety sleeve
ref. 2110 - 2110/1. See page 81
- 4141** Super Record track head set
(thread \varnothing 25,4 x 24F.).
Upon request are furnished with
thread \varnothing 25 x 1M. or
 \varnothing 1" x 24 Tpi-BSC
- 4151** Super Record track chainset
(with cranks 170 mm.,
pedal hole \varnothing 9/16" x 20F. and
chainring for chain 1/2" x 1/8"
(3 mm.)). Specify the number
of teeth of the chainrings
available from 44T to 70T.
Upon request are furnished
cranks with lengths 165 -
167,5 - 172,5 - 175 -
177,5 and 180 mm. and chainrings
for chain 1/2" x 3/32" (2 mm.)
P.S. For the sprockets see
page 81

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD TRACK GROUP 4100

- 4101** Pair Super Record large flange track hubs with Titanium spindle and nuts (front width 100 mm., rear width 110 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request are furnished with rear width 120 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 4102** Super Record large flange front track hub
- 4103** Super Record large flange rear track hub

- 4104** Pair Super Record small flange track hubs with Titanium spindle and nuts (front width 100 mm., rear width 110 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request are furnished with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 4105** Super Record small flange front track hub
- 4106** Super Record small flange rear track hub

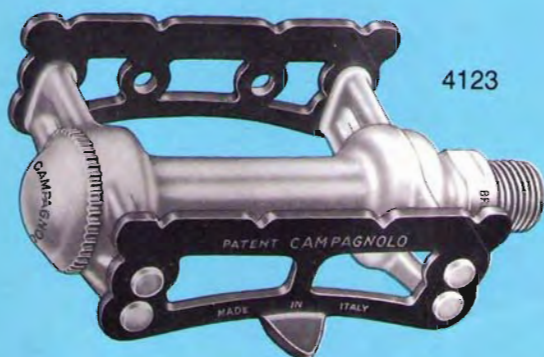


- 1** Front lock nut
- 25/R** Front cone
- 32/R** Rear cone
- 33/P** Rear lock nut for track hubs
- 35** Front hub lock washer
- 36** Rear hub lock washer
- 737** Front ball cup
- 738** Rear ball cup
- 739** Front dust cover
- 740** Rear dust cover
- 743** Track lock ring
- 2104** Set (9+9) special \varnothing 7/32" balls selected with 1/1000 of mm. tolerance
- 2106** Set (9+9) special \varnothing 1/4" balls selected with 1/1000 of mm. tolerance
- 4107** Front Titanium axle for Super Record track hub
- 4108** Rear Titanium axle for Super Record track hub
- 4109** Titanium lock nut for Super Record track front hub
- 4110** Titanium lock nut for Super Record track rear hub
- 4111** Complete front axle for Super Record track hub
- 4112** Complete rear axle for Super Record track hub

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD TRACK GROUP 4100

4121	Pair Super Record track pedals with Titanium spindle (spindle thread \varnothing 9/16" x 20F.). The pedals are supplied with unassembled screws and washers for fixing toe clips	4122	Super Record right hand track pedal
89	Locking screw for superlight pedals	4123	Super Record left hand track pedal
673	Pedal axle washer	4024	Super Record right hand Titanium pedal spindle
675	Pedal axle lock nut	4025	Super Record left hand Titanium pedal spindle
677	Toe clip washer	4026	Inserted pedal race (available also in oversize)
678	Inner dust cap	4027	Pedal axle cone
679/A	Pedal dust cap	4028	Set (64) special \varnothing 1/8" pedal balls selected with 1/1000 of mm. tolerance

4121



4123

4122



4026



4026



4027



673



675



678



679/A



677



89



4028



4025



4024

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD TRACK GROUP 4100

- 4130** Super Record track chainwheel set
- 4131** Super Record bottom bracket track set with Titanium spindle (bracket width 70 mm. and cups threaded $\varnothing 36 \times 24F.$). Upon request is furnished the bracket safety sleeve ref. 2110/2110/1. See page 81
- 4151** Super Record track chainset (with cranks 170 mm., pedal hole $\varnothing 9/16'' \times 20F.$ and

chainring for chain $1/2'' \times 1/8''$ [3 mm]). Specify the number of teeth of the chainring available from 44T to 70T. Upon request are furnished cranks with lengths 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long and chainrings for chain $1/2'' \times 3/32''$ (2 mm.). Lockring with normal 3.5 mm. thickness (available also with 4 mm. and 4.5 mm. thickness)

747

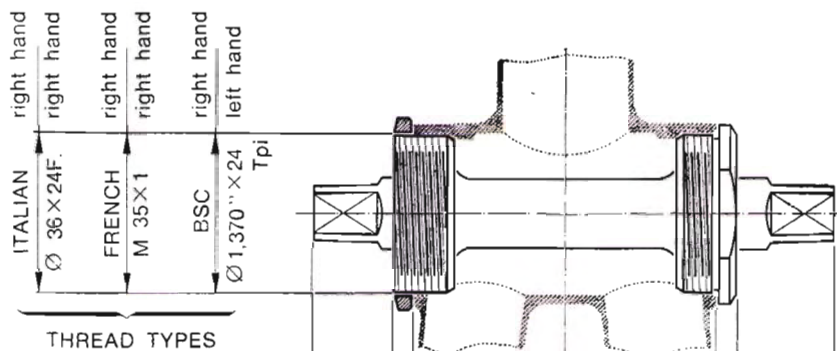
4130



4151



4131



Details of bracket number:

- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

TOTAL AXLE LENGTH

- 104 mm.
- 105 mm.
- 109 mm.
- 109 mm.

- 748** Fixing screw
749 Fixing washer
756 Crank cover plate
757 Track right hand crank
 (complete with cover 756,
 170 mm. long). Upon request are
 furnished the following sizes:
 165 - 167,5 - 172,5 - 175 -
 177,5 and 180 mm. long
760/A Super Record track chainring for
 1/2" x 1/8" (3 mm.)
 chain. Specify the number of
 teeth available from 44T to 70T
761 Track chainwheel fastening screw
 (complete with cover 756,
 170 mm. long). Upon request are
 furnished the following sizes:
 165 - 167,5 - 172,5 - 175 -
 177,5 and 180 mm. long

- 762** Track chainwheel fastening nut
4035 Set (14+14) special \varnothing 3/16" b/b
 balls selected with 1/1000 of
 mm. tolerance
4132 Super Record cotterless Titanium
 track spindle. See measurements
 and indicate spindle size
4133 Fixed cup. Indicate required
 thread
4134 Adjustable cup. Indicate required
 thread



758



756



760/A



757



761



762



748



749



747



4134



4132



4133



749



748



4035



PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD TRACK GROUP 4100

- | | |
|---|--|
| <p>4141 Super Record track head set
(thread \varnothing 25.4 x 24F.).
Upon request are furnished with
thread \varnothing 25 x 1M. or
1" x 24 Tpi-BSC</p> <p>4051 Super Record seat pin.
(pin length 147 mm.)
Specify diameter stem: 25 - 25,8
- 26 - 26,2 - 26,4 - 26,6 - 26,8 -
27 - 27,2 - 27,4 mm.</p> <p>664 Right and left hand track fork
ends</p> <p>665 Right and left hand track fork
ends</p> <p>2102 Set (25+25) special b/b
\varnothing 5/32" balls selected with
1/1000 of mm. tolerance</p> <p>4042 Super Record locking nut</p> | <p>(specify type of threading)</p> <p>4043 Super Record locking washer</p> <p>4052 Left hand side support</p> <p>4053 Right hand side support</p> <p>4054 Front bracket</p> <p>4055 Rear bracket</p> <p>4056 Fixing and adjusting bolt</p> <p>4057 Bolt nut</p> <p>4142 Super Record track screwed race
(specify type of threading)</p> <p>4143 Super Record track top head
race (0,5 mm. larger gauge
available)</p> <p>4144 Super Record track bottom head
race (0,5 mm. larger gauge
available)</p> <p>4145 Super Record track crown race
(smaller diameter available)</p> |
|---|--|

4141



4051



The image features a large, stylized wireframe globe in the background. The globe is composed of a grid of lines representing latitude and longitude. The Campagnolo logo is superimposed on the center of the globe. The logo is written in a blue, cursive script font. The word "Campagnolo" is written in a flowing, elegant style, with the "C" and "G" being particularly prominent. The logo is positioned horizontally across the middle of the globe.

Campagnolo

— Gottfried —



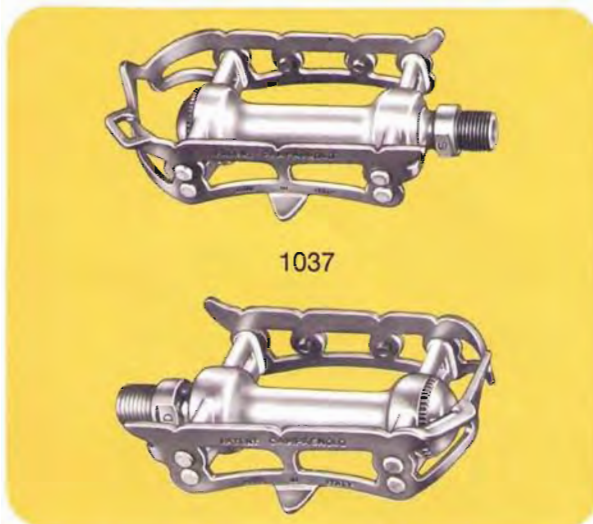
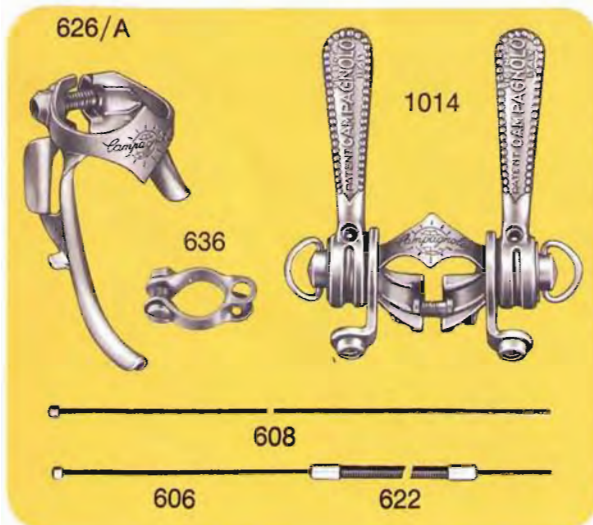
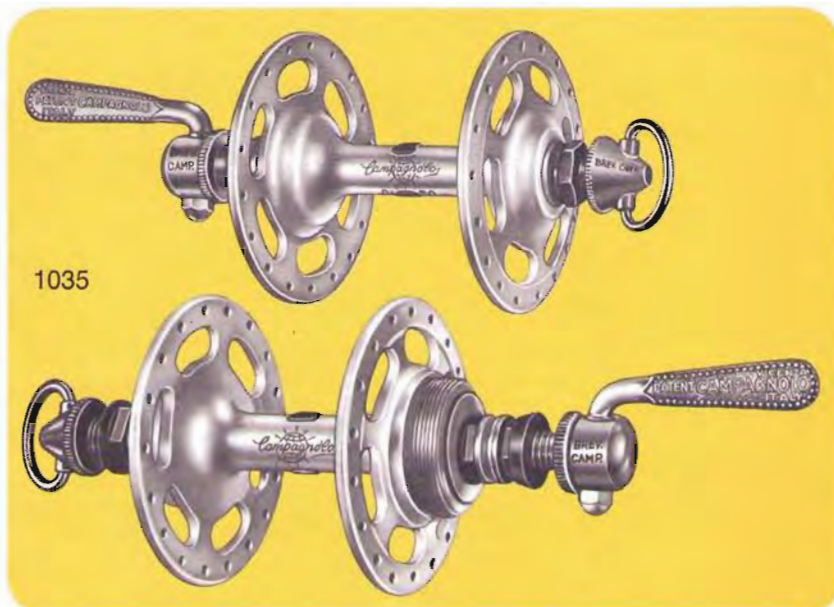
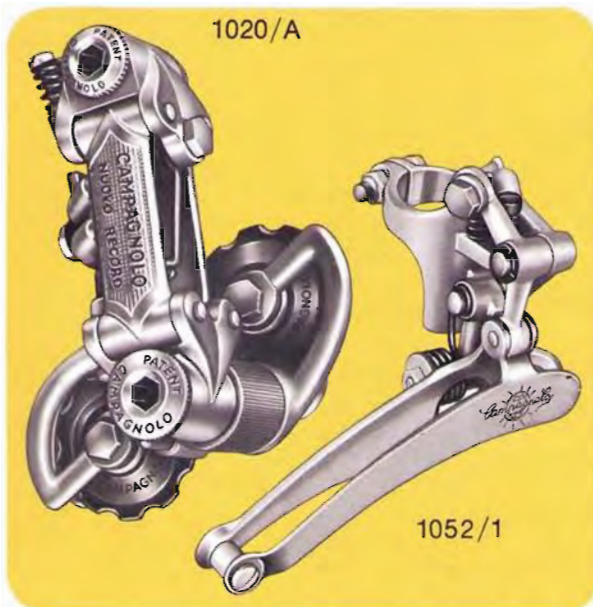
RECORD ROAD GROUP	pages 30-31
RECORD GEAR - RECORD FRONT CHANGER AND ALTERNATIVE RECORD CONTROL LEVERS	pages 32-33-34-35
RECORD ROAD HUBS	page 36
RECORD AND SUPERLIGHT RECORD ROAD PEDALS	page 37
ROAD RECORD CHAINWHEEL SET AND BOTTOM BRACKET SET	pages 38-39
RECORD ROAD HEAD SET - RECORD SEAT PIN	page 40
FORK ENDS - SPECIAL CONNECTORS	page 41
RECORD BRAKES	pages 42-43

1032/F CAMPAGNOLO RECORD ROAD GROUP

(Particular components of this group are illustrated from page 32 to page 43)



- 606 Down tube control gear inner wire (118 cm.)
- 608 Down tube control front changer inner wire (72 cm.)
- 622 Gear stainless steel outer casing (21 cm.)
- 626/A Twin gear cable clip
- 636 Chainstay clip
- 649 Stainless steel brake cable clip
- 1010/A Set Record front and rear fork ends without eyelet.
See alternatives on page 41
- 1014 Twin down tube control lever.
- 1020/A Nuovo Record gear (without hanger)
- 1030/2 Pump connector (thread M9 x 1,25). Any pump connectors shown on page 41 can be supplied instead
- 1035 Pair Record large flange quick release road hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread Ø 35 x 24F.). Upon request are furnished with rear hub suitable



for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34.7 x 1M. or \varnothing 1.370" x 24 Tpi-BSC. See other alternatives on page 36

Pair Record road pedals with steel spindle (spindle thread \varnothing 9/16" x 20F.). Upon request furnished spindles threaded M.14 x 1,25

Record road head set (thread 25,4 x 24F.). Upon request furnished with thread

1044 \varnothing 25 x 1M. or 1" x 24 Tpi-BSC Seat pin. Specify diameter stem: 25 - 25,8 - 26 - 26,2 - 26,4 - 26,6 - 26,8 - 27 - 27,2 - 27,4 mm. and if pin length in 130 mm. normal or in 180 mm. long

1046/A Nuovo Record bottom bracket set (bracket width 70 mm. and cups threaded \varnothing 36 x 24F.). See alternatives on pages 38-39

1048 Record road chainwheel set with Nuovo Record bottom bracket

1049 Record road chainset (with crank 170 mm. pedal hole \varnothing 9/16" x 20F. and chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth of the chainrings available from 42T to 57T. Upon request furnished cranks with lengths 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm.

1052/1 Record front changer

2040 Set Record brakes. See alternatives on pages 42-43

1037

1039



1039



1044



649

649

649



1030/2



2040



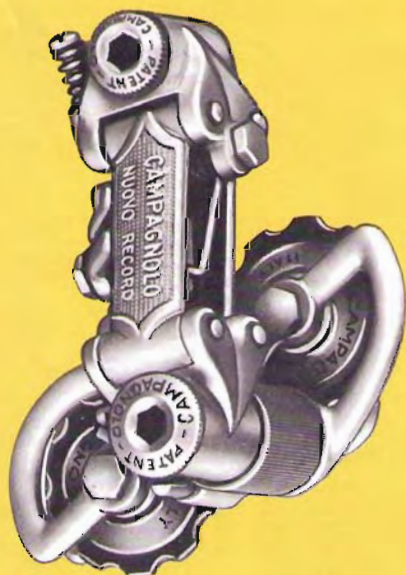
1010/A



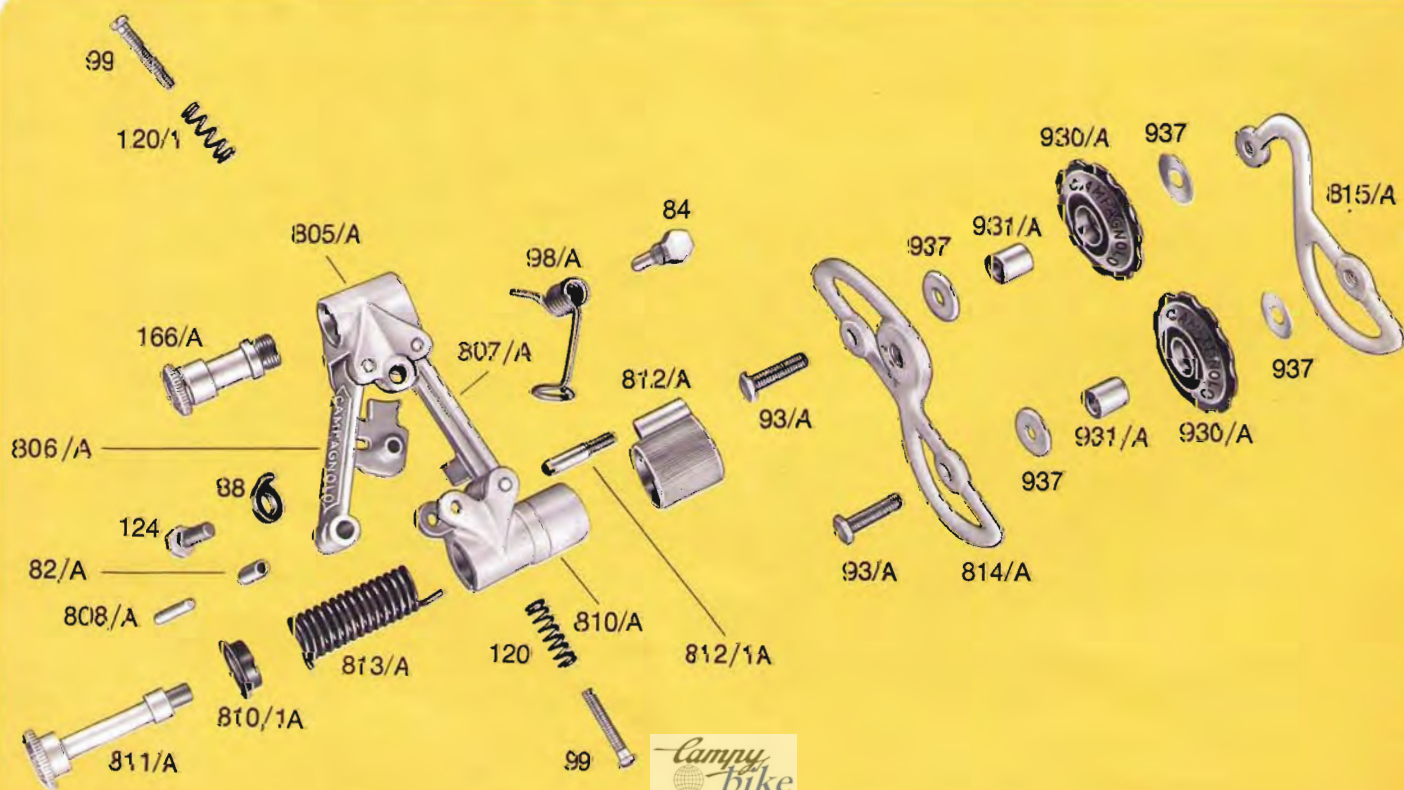
PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

1020/A	Nuovo Record gear
82/A	Body ferrule
84	Gear return spring screw
88	Clamp washer
93/A	Sprocket bolt
98/A	Gear return spring
99	Gear adjusting screw
120	Lower adjuster spring
120/1	Upper adjuster spring
124	Fixing screw
166/A	Upper pivot bolt
805/A	Upper body
806/A	Front arm

807/A	Inner arm
808/A	Spindle
810/A	Lower body
810/1A	Lower body bush
811/A	Gear spring bolt
812/A	Spring cage cover
812/1A	Grub screw
813/A	Tension spring
814/A	Outer cage plate
815/A	Inner cage plate
930/A	Roller
931/A	Roller bush
937	Roller dust cover



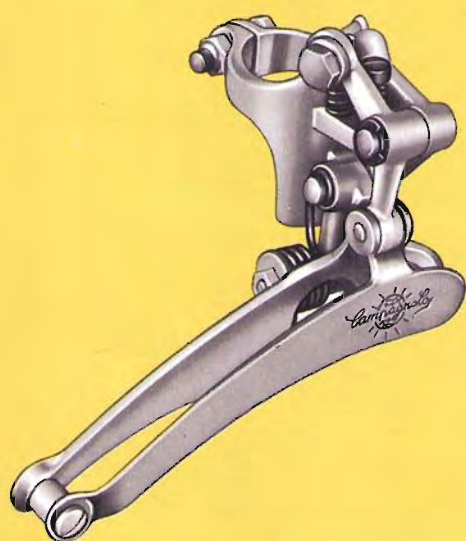
1020/A



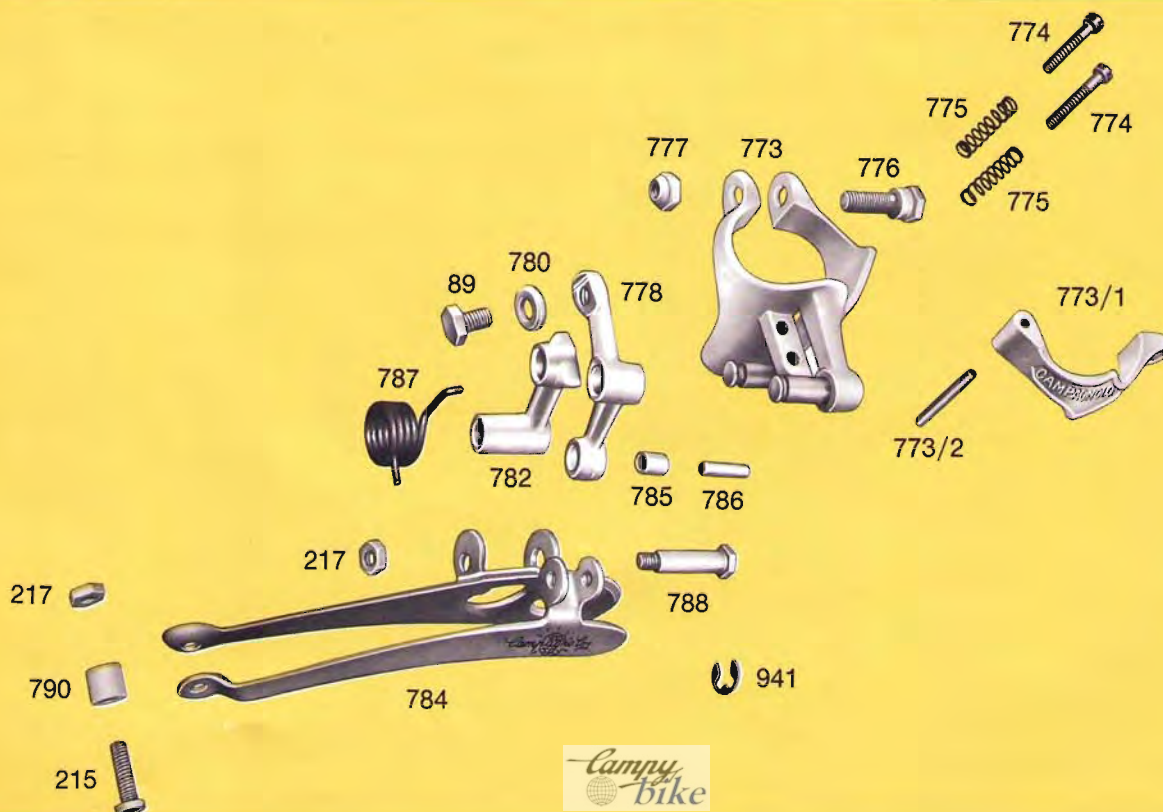
PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

1052/1	Record front changer
89	Locking screw
215	Cage spacing bolt
217	Cage spacer bolt nut
773	Record front changer body (complete with clip and hinge)
773/1	Hinge
773/2	Hinge pin
774	Adjusting screw
775	Adjusting bolt spring
776	Clip fixing screw

777	Nut
778	Upper arm
780	Cable clamp bolt washer
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
790	Bush
941	Circlip



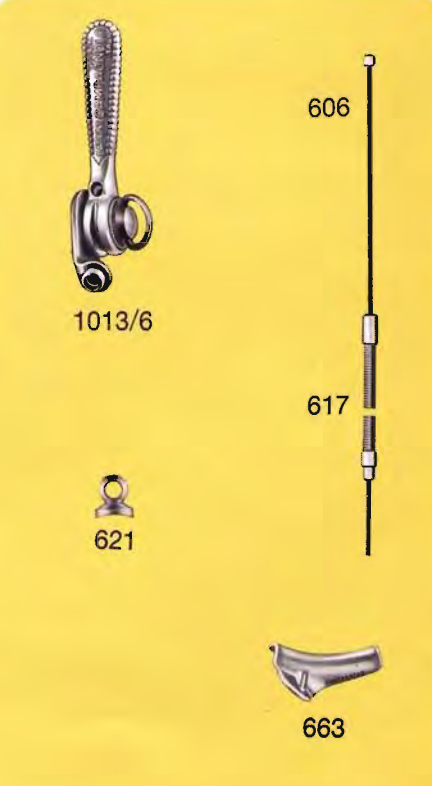
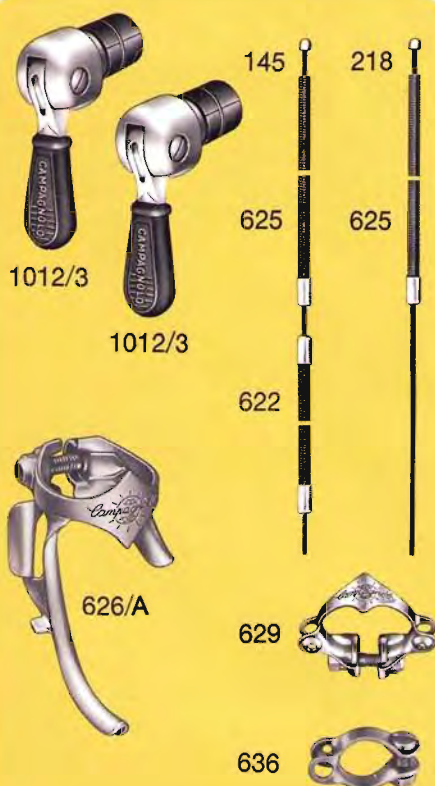
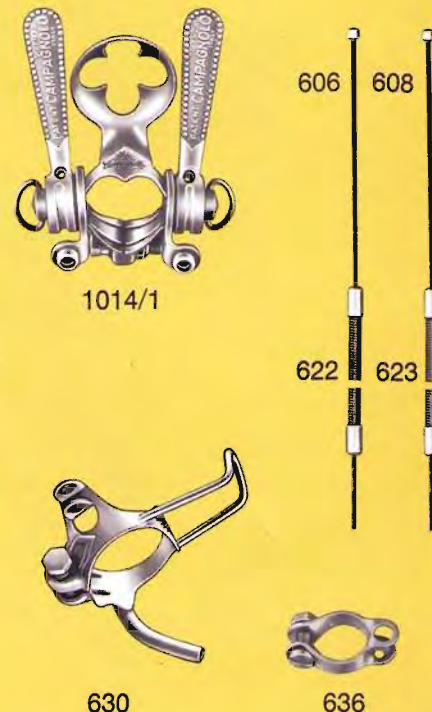
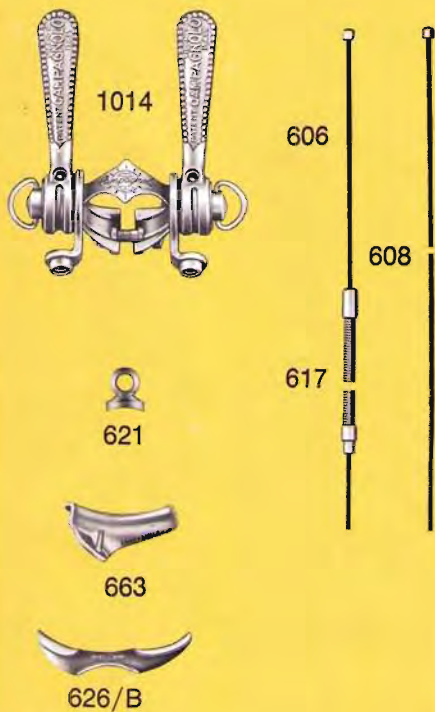
1052/1



PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

- 137 Segment expanding screw
- 138 Segment
- 139/1 Counter-nut
- 139/2 Hexagonal screw
- 140/1 Tension adjusting screw
- 142 Spring segment holder
- 145 Gear cable to handlebar control (197 cm.)
- 173 Handlebar lever rubber
- 174 Handlebar friction plate
- 174/1 Lever friction plate
- 200/2 Handlebar control body
- 201 Handlebar lever

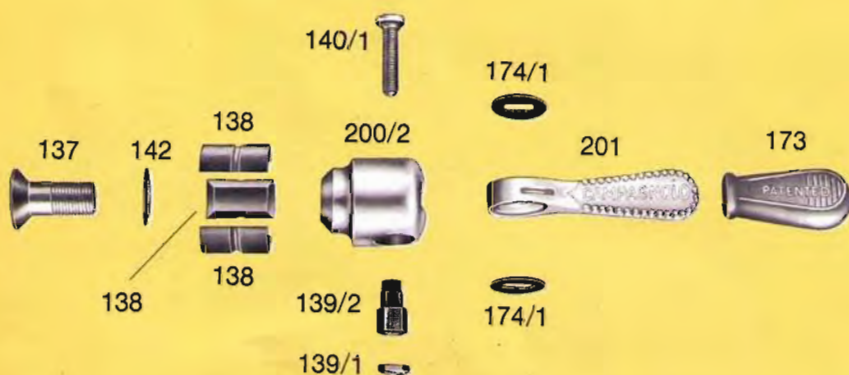
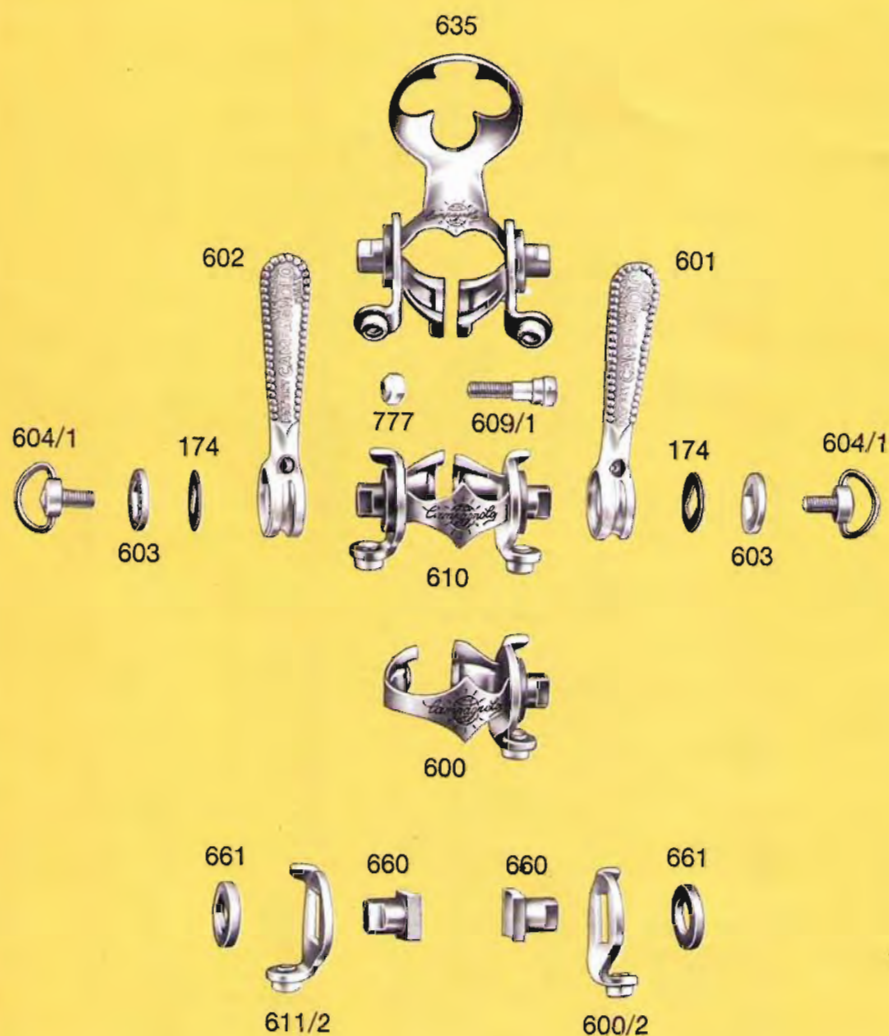
- 218 Front changer cable to handlebar control (150 cm.)
- 600 Right hand collar (without screw and nut)
- 600/2 Right hand braze-on control lever plate
- 601 Gear control lever only
- 602 Front changer control lever only
- 603 Cover plate
- 604/1 Friction adjusting wing nut
- 606 Down tube control gear inner wire (118 cm.)



608 Down tube control front changer
inner wire (72 cm.)
609/1 Fixing clip bolt
610 Record twin control clip
611/2 Left hand braze-on control
lever plate
617 Braze-on gear stainless steel
outer casing (21 cm.)
621 Braze-on cable stop
622 Gear stainless steel outer casing
(21 cm.)
623 Front changer stainless steel

625 Stainless steel outer casing to
down tube handlebar control
(75 cm.)
626/A Twin gear cable clip
626/B Braze-on cable ferrule
627/A Down tube tunnel R/H for gear
629 Twin handlebar control clip
630 Clip-on-tunnel and stop with
pump holder D/T
635 Pump holder twin control Record
lever bosses

636 Chainstay clip
660 Braze-on boss
661 Brazed boss collar
663 Braze-on cable ferrule
777 Nut
1012/3 Handlebar control
1013/1 Right hand down tube control
1013/5 Front changer braze-on control
1013/6 Gear braze-on control
1014 Twin down tube control lever
1014/1 Twin down tube control lever
with pump holder



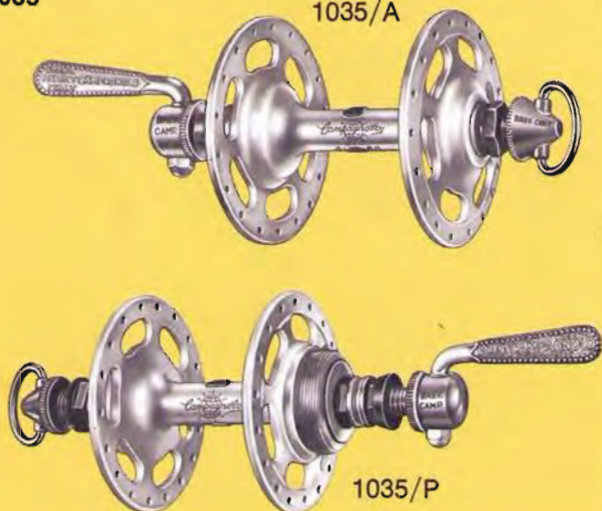
PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

- 1034** Pair Record small flange quick release road hubs (front width 100 mm. - rear width 120 mm., flanges with 36 holes, thread $\varnothing 35 \times 24F.$). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread $\varnothing 34,7 \times 1M.$ or $\varnothing 1,370'' \times 24$ Tpi-BSC
- 1034/A** Record road small flange front hub
- 1034/P** Record road small flange rear hub

- 1035** Pair Record large flange quick release road hubs (front width 100 mm. - rear width 120 mm., flanges with 36 holes, thread $\varnothing 35 \times 24F.$). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread $\varnothing 34,7 \times 1M.$ or $\varnothing 1,370'' \times 24$ Tpi-BSC
- 1035/A** Record road large flange front hub
- 1035/P** Record road large flange rear hub

1035

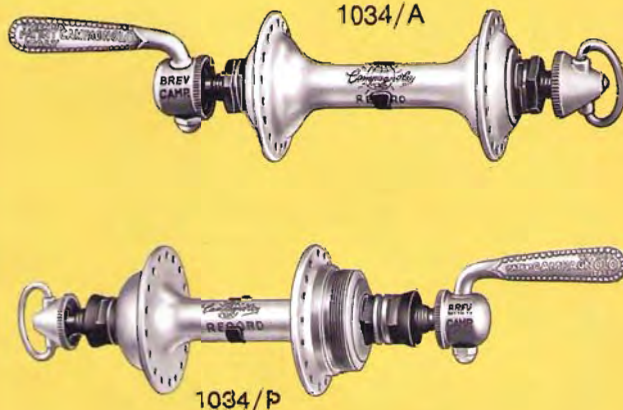
1035/A



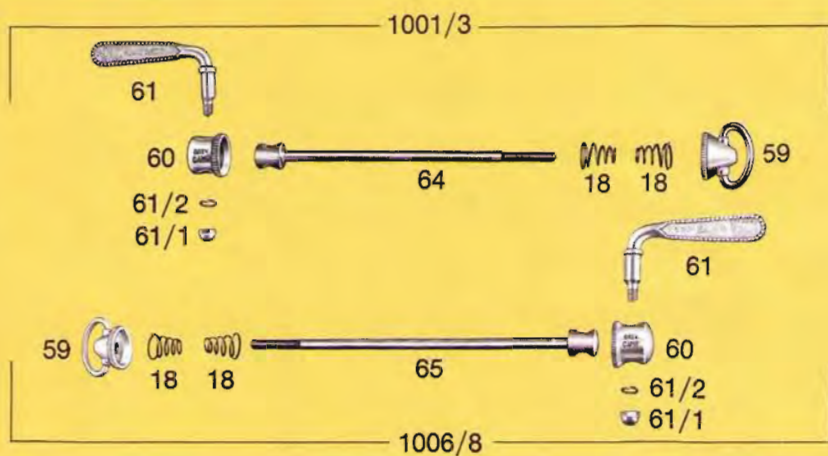
1035/P

1034

1034/A



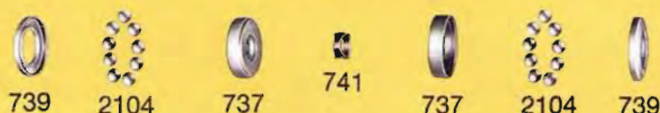
1034/P



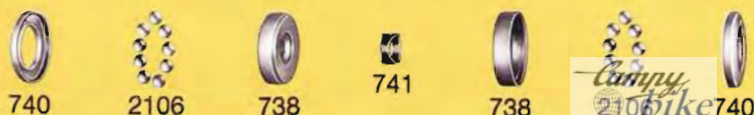
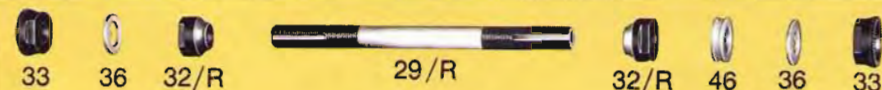
1006/8



1001/4S



1006/5S



- 1** Front lock nut
- 18** Conical spring
- 19** Front hollow axle
- 25/R** Front cone
- 29/R** Rear hollow axle (129 mm. long). Upon request are furnished spindles 132 - 134 and 140 mm. long
- 32/R** Rear cone
- 33** Rear lock nut
- 35** Front hub lock washer
- 36** Rear hub lock washer
- 46** Rear spacing collar
- 59** Quick release conical adjuster
- 60** Quick release cap
- 61** Quick release lever
- 61/1** Domed nut
- 61/2** Grower washer
- 64** Quick release front skewer
- 65** Quick release rear skewer
- 737** Front ball cup
- 738** Rear ball cup
- 739** Front dust cover
- 740** Rear dust cover
- 741** Spring clip
- 1001/3** Complete front quick release skewer for Record hub
- 1001/4S** Complete front axle for Record road hub
- 1006/5S** Complete rear axle for Record road hub
- 1006/8** Complete rear quick release skewer for Record hub
- 2104** Set (9+9) special $\varnothing 7/32''$ balls selected with 1/1000 of mm. tolerance
- 2106** Set (9+9) special $\varnothing 1/4''$ balls selected with 1/1000 of mm. tolerance

PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

1037 Pair Record road pedals
(spindle thread \varnothing 9/16" x 20F.).
Upon request are furnished
threaded M.14 x 1,25

1037/D Record road right hand pedal

1037/S Record road left hand pedal

1037/A Pair superlight Record road
pedals

1037/AD Superlight Record road right
hand pedal

1037/AS Superlight Record road left
hand pedal

89 Locking screw for superlight
pedal

669 Left hand pedal axle with
thread \varnothing 9/16" x 20F.

Upon request are furnished with

670 thread M.14 x 1,25
Right hand pedal axle with
thread \varnothing 9/16" x 20F.
Upon request are furnished with
thread M.14 x 1,25
672 Inserted race
(available also in oversize)
673 Pedal axle washer
674 Pedal axle cone
675 Pedal axle lock nut
676 Toe clip bolt
677 Toe clip washer
678 Inner dust cap
679 Record pedal dust cap
679/A Superlight pedal dust cap
2103 Set (48) special \varnothing 5/32" pedal
balls selected with 1/1000 of mm.
tolerance

1037

1037/S



1037/D

1037/A

1037/AS



1037/AD



672



672



674



673



675



678



679



89



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676



2103



679/A



669



670



PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

- 1048** Record road chainwheel set with Nuovo Record bottom bracket
- 1049** Record road chainset (with cranks 170 mm., pedal hole \varnothing 9/16" x 20F. and chainrings for chain 1/2" x 3/32" [2 mm]). Specify the number of teeth of the chainrings available from 42T to 57T. Upon request furnished cranks with lengths 165 - 167,5 - 172,5 -

- 175 - 177,5 and 180 mm.
- 1046/A** Nuovo Record bottom bracket set (bracket width 70 mm. and cups threaded \varnothing 36 x 24F.).
- 744/A** Nuovo Record cotterless road spindle. See measurements and indicate spindle size
- 745/A** Fixed cup. Indicate required thread
- 746/A** Adjustable cup. Indicate required thread
- 747** Lockring with normal 3,5 mm.

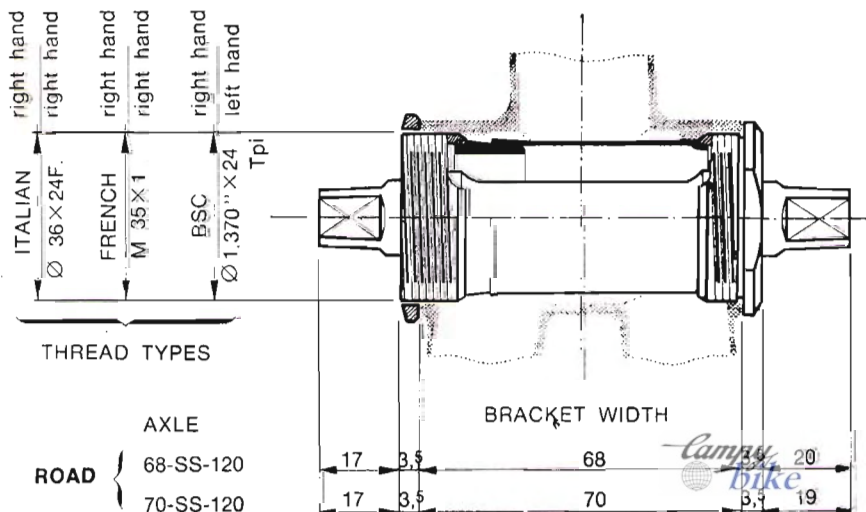
1048



1049



1046/A



Details of bracket number:

- The first number indicates the bracket width
- SS indicates road
- Number 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

748
749
751

thickness (available also with 4 mm. and 4,5 mm. thickness).
Indicate required thread
Fixing screw
Fixing washer
Right hand road crank (complete with cover 756, 170 mm. long). Upon request are furnished in the following sizes: 165 - 167,5 - 172,5 - 175 -

752

177,5 and 180 mm. long
Left hand road crank (complete with cover 756, 170 mm. long). Upon request are furnished in the following sizes: 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long
Road chainring for 1/2" x 3/32" (2 mm.) chain. Specify the number of teeth available from

753

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801

2100

2110

2110/1

42T to 57T

Road chainwheel fastening screw

Road chainwheel fastening nut

Crank cover plate

Spacer for single chainring

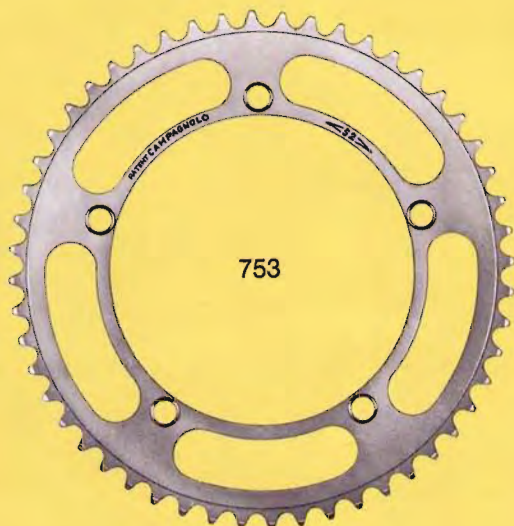
Set (11+11) special Ø 1/4" balls selected with 1/1000 of mm. tolerance

Record sleeve

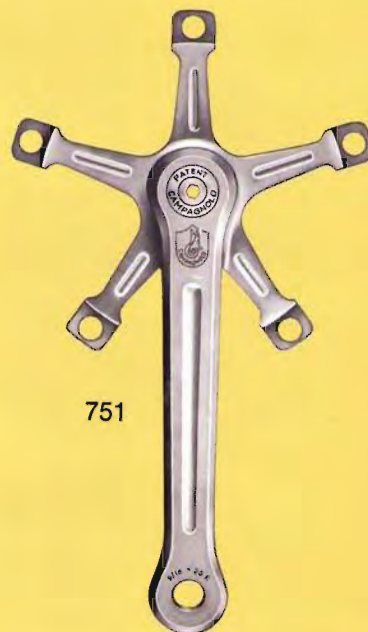
Cone for sleeve



752



753



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801



2110/1



2110



2100



748



749



747



746/A



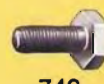
744/A



745/A



749



748

PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

- 1039** Record road head set
thread 25,4 x 24F.). Upon request
are furnished with thread
Ø 25 x 1M. or 1" x 24 Tpi-BSC
- 681** Locking nut
(specify type of threading)
- 682** Locking washer
- 683** Screwed road race
(specify type of threading)

- 684** Road top head race
(0,5 mm. larger gauge available)
- 685** Road bottom head race
(0,5 mm. larger gauge available)
- 686** Road crown race
(smaller diameter available)
- 2101** Set bearings with (20+20)
special b/b Ø 3/16" balls
selected with 1/1000 of mm.
tolerance

1039



1044

- 1044** Seat pin. Specify diameter stem:
25 - 25,8 - 26 - 26,2 - 26,4 -
26,6 - 26,8 - 27 - 27,2 - 27,4 mm.
and if pin length in 130 mm.
normal or in 180 mm. long
- 698** Front bracket
- 699** Rear bracket
- 700** Bolt nut
- 701** Left hand side support
- 702** Right hand side support
- 703** Fixing and adjusting bolt

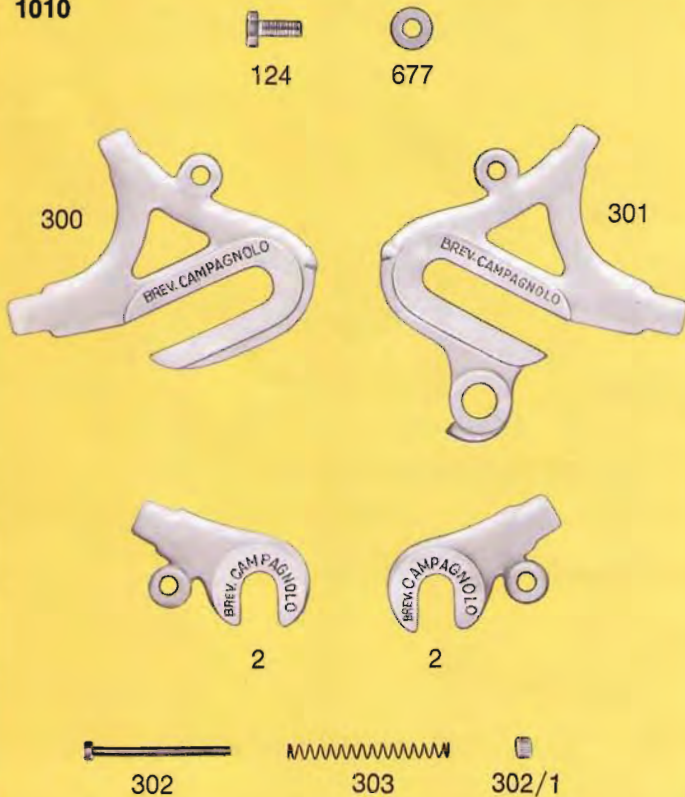


PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

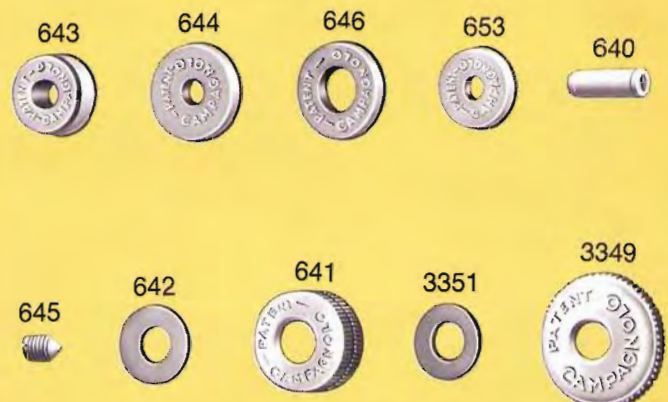
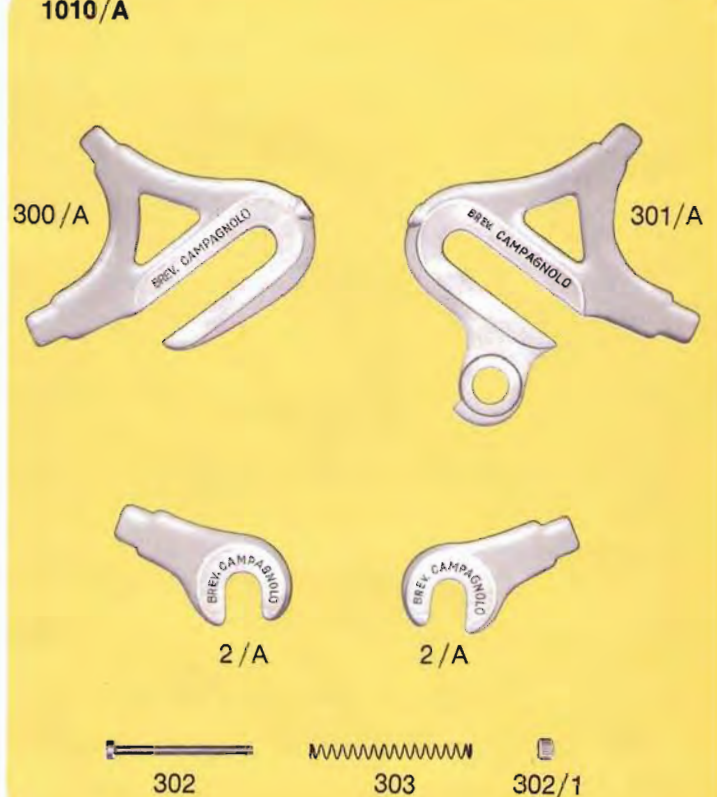
- 1010 Set Record front and rear fork ends
- 1010/A Set Record front and rear fork ends without eyelet
- 2 Record right and left hand fork ends
- 2/A Record right and left hand fork ends without eyelet
- 124 Fixing screw
- 300 Record left hand rear end
- 300/A Record left hand rear end without eyelet
- 301 Record right hand rear end
- 301/A Record right hand rear end without eyelet
- 302 Adjusting bolt
- 302/1 Nut for bolt 302
- 303 Adjusting bolt spring
- 640 Rubber cap
- 641 Milled nut
- 642 Rubber washer
- 643 Rubber washer for tubular valves

- 644 Rubber washer for pump connector 1030
- 645 Connecting screw
- 646 Rubber washer for pump connectors 1030/1 and 1030/2
- 653 Rubber washer for pump connector 1030/3
- 677 Washer
- 1030 Pump connector with $\varnothing 7/32''$ or M7 x 1 locking screw
- 1030/1 Pump connector with M9 x 1,25 locking screw
- 1030/2 Pump connector with M9 x 1,25 locking screw
- 1030/3 Pump connector with M5 x 1 or M7 x 1 locking screw (French type)
- 3346 Superlight pump connector with M9 x 1,25 locking screw
- 3349 Cover for superlight pump connector
- 3351 Washer for superlight pump connector

1010



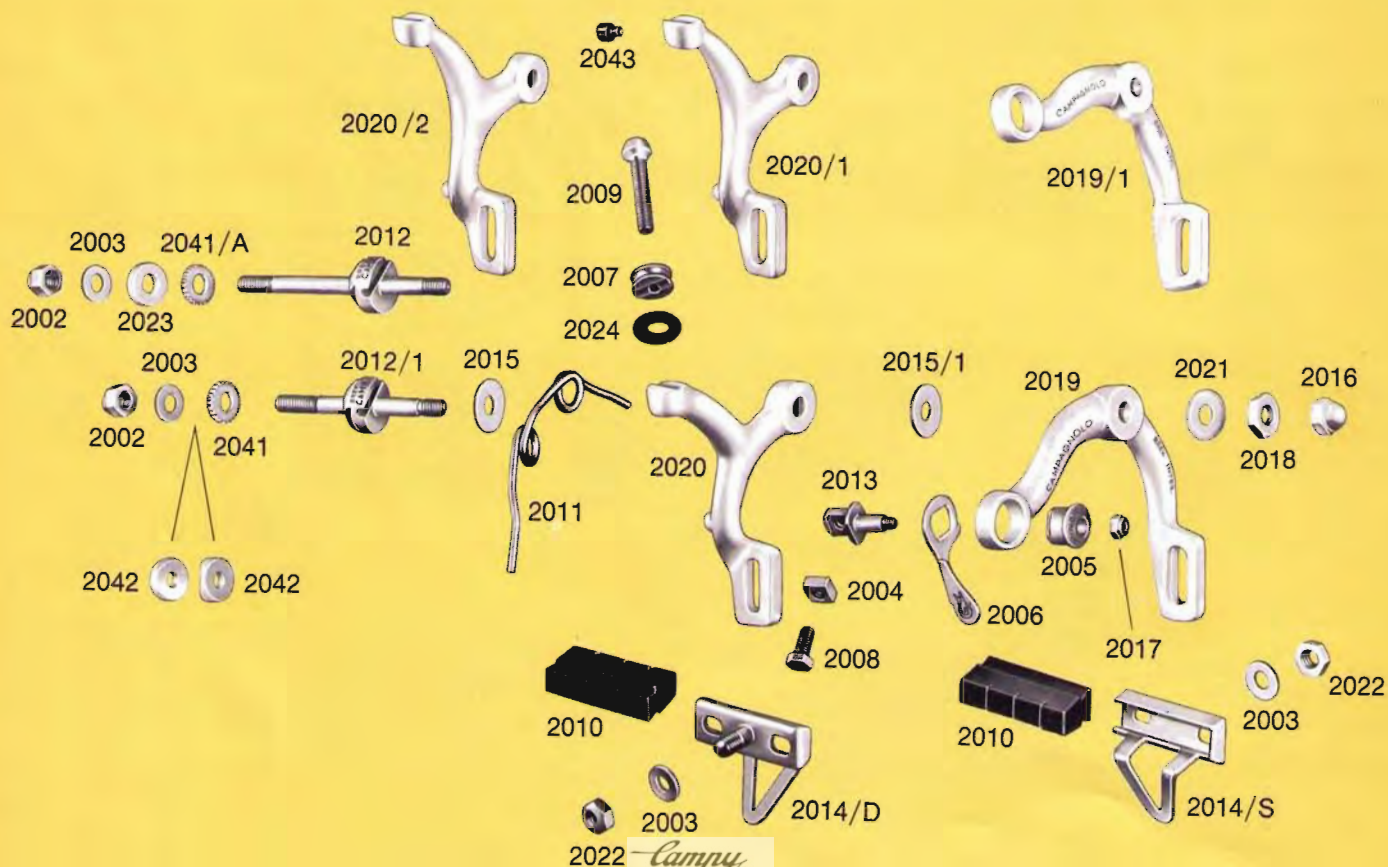
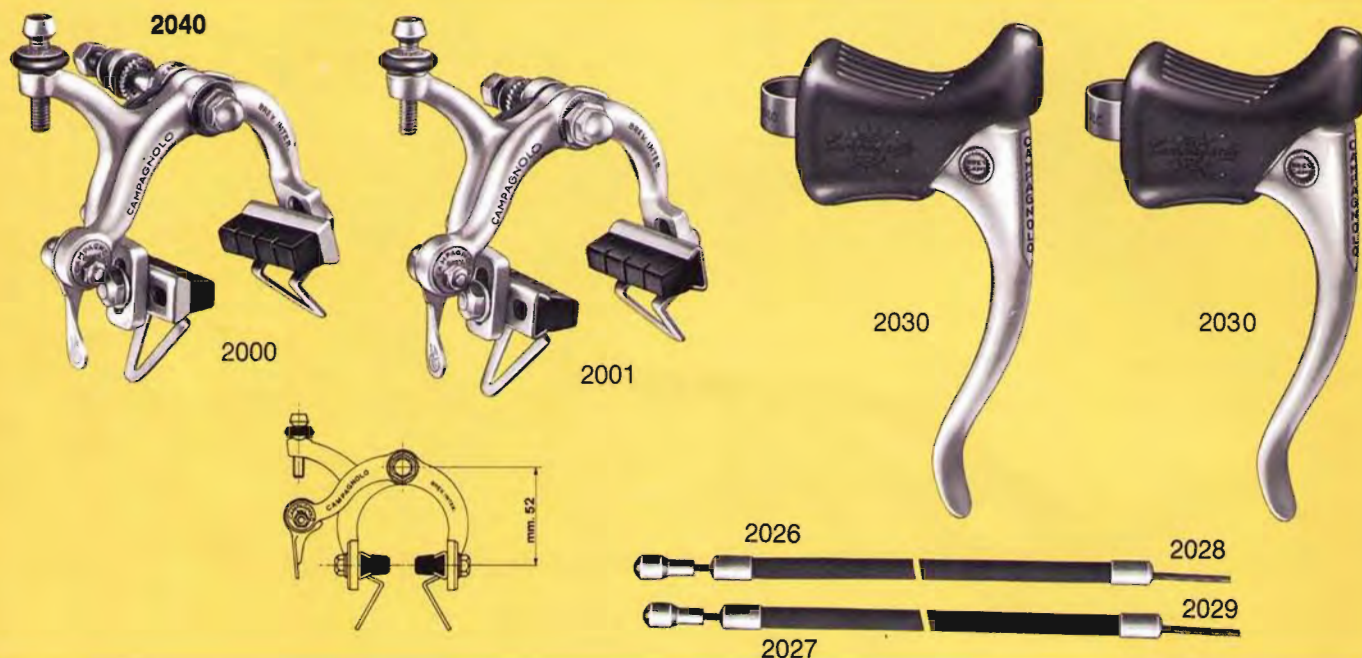
1010/A



PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP 1032/F

2040 Set Record brakes
2040/1 Set Record small brakes
2030 Brake lever
2000 Front brake
2000/1 Small front brake
2001 Rear brake
2001/1 Small rear brake
2002 Center bolt fixing nut
2003 Washer
2004 Clamp bolt washer
2005 Cam

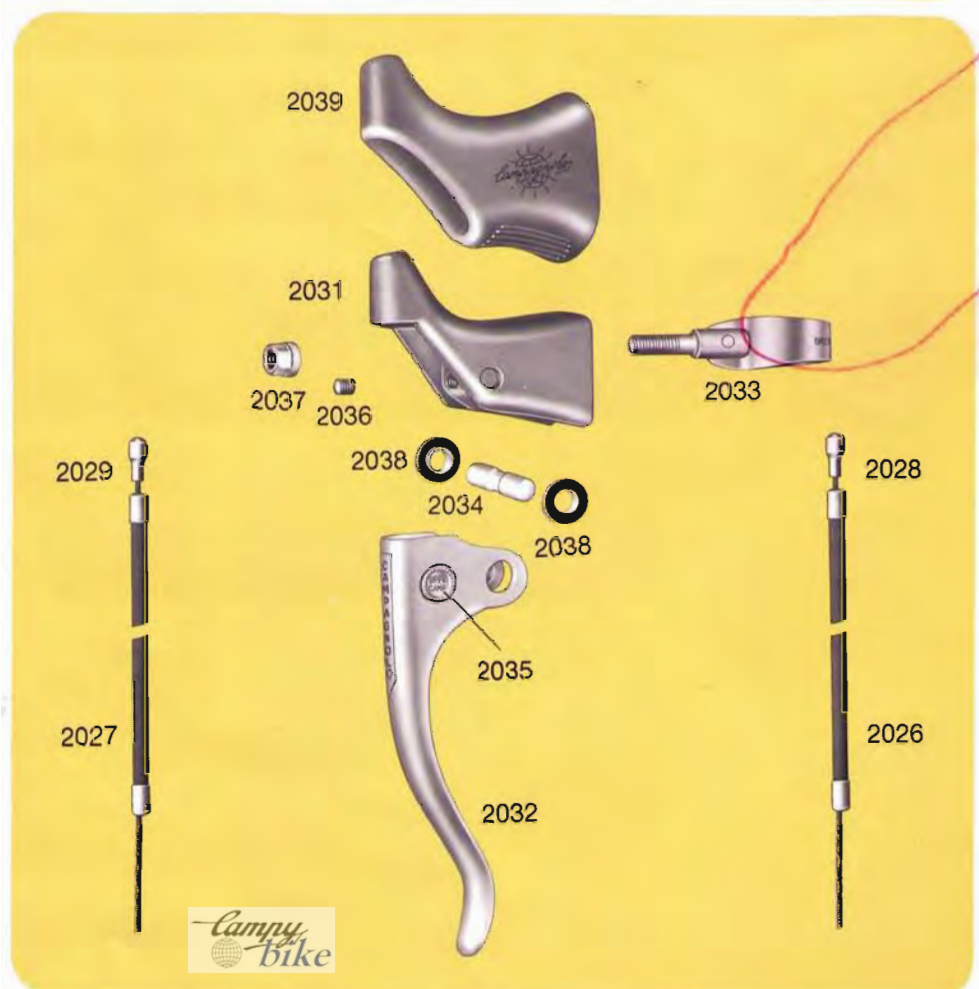
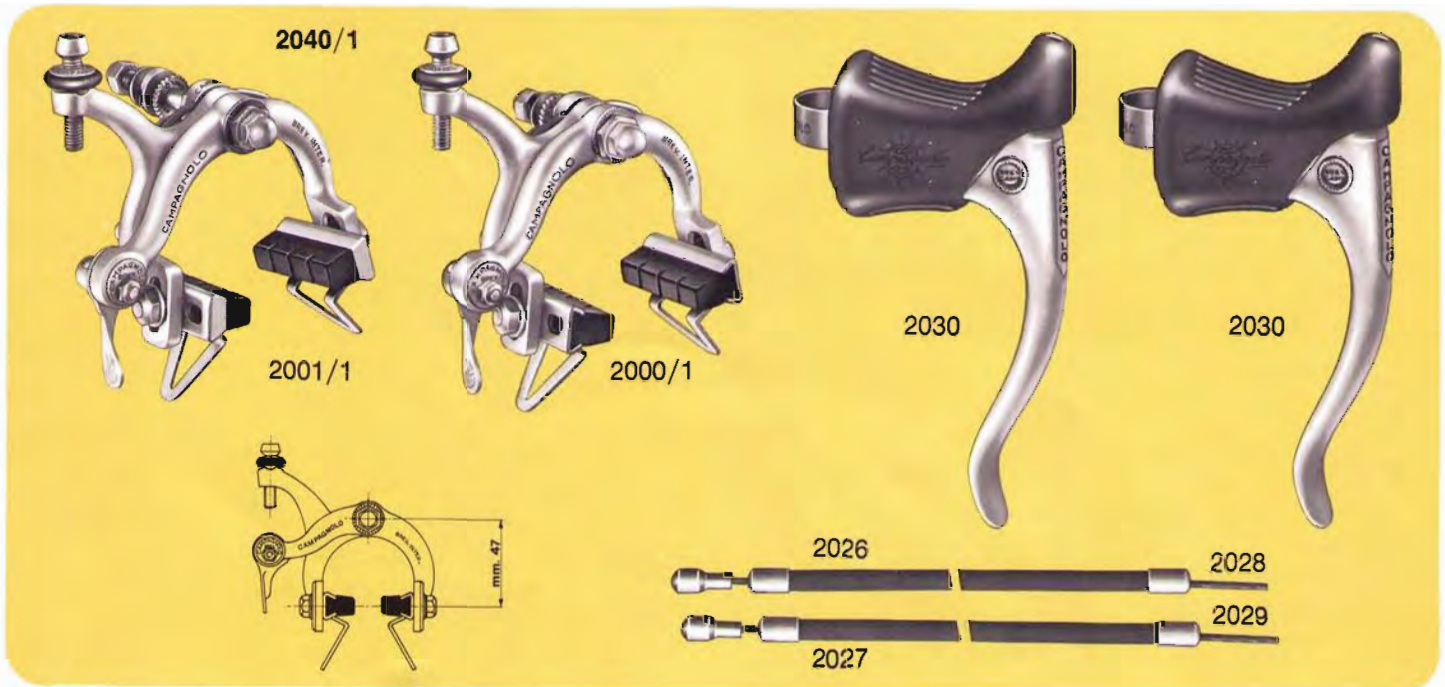
2006 Quick release cam lever
2007 Adjusting nut
2008 Cable clamp bolt
2009 Adjusting screw
2010 Brake block
2011 Tension spring
2012 Front brake center bolt
2012/1 Rear brake center bolt
2013 Cable clamp
2014/D Right hand brake shoe
2014/S Left hand brake shoe



2015 Friction washer
 2015/1 Inner friction washer
 2016 Domed nut
 2017 Cam locking nut
 2018 Locking nut
 2019 Stirrup arm
 2019/1 Small brake front stirrup
 2020 Rear stirrup
 2020/1 Small front brake rear stirrup
 2020/2 Small rear brake rear stirrup
 2021 Milled washer

2022 Brake shoe nut
 2023 Concave washer for front brake
 2024 Adjusting rubber
 2026 Front brake outer casing (61 cm.)
 2027 Rear brake outer casing (119 cm.)
 2028 Front inner cable (73 cm.)
 2029 Rear inner cable (131 cm.)
 2031 Lever hood
 2032 Lever control
 (complete with cable holder 2035)
 2033 Brake lever clip

2034 Lever pivot pin
 2036 Grub screw
 2037 Clamp nut
 2038 Lever bush
 2039 Rubber lever hood
 Serrated washer for rear brake
 2041 Serrated washer for front brake
 2041/A Concave washer for rear brake.
 (Upon request is furnished
 for round breast band)
 2042 Lever rubber for small brake



A large, faint wireframe globe is centered on the page. The Campagnolo logo is superimposed over the center of the globe. The logo is written in a blue, cursive script. The globe's grid consists of vertical lines converging at the poles and horizontal lines. The logo is positioned across the middle of the globe, slightly to the right of the center.

Campagnolo

11/11/11

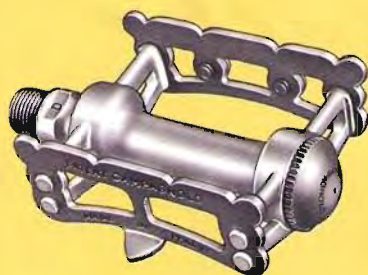
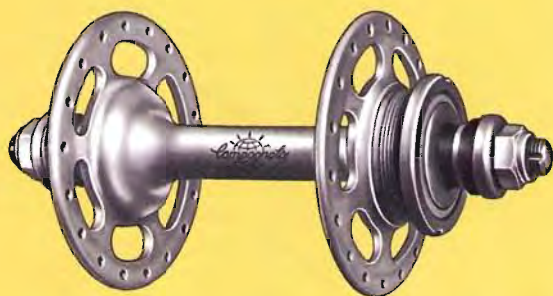
RECORD TRACK GROUP	pages 46-47
RECORD TRACK HUBS	page 48
RECORD AND SUPERLIGHT RECORD TRACK PEDALS	page 49
RECORD TRACK CHAINWHEEL SET AND BOTTOM BRACKET TRACK SET	pages 50-51
RECORD TRACK HEAD SET - RECORD SEAT PIN-FORK ENDS	page 52

1033 CAMPAGNOLO RECORD TRACK GROUP

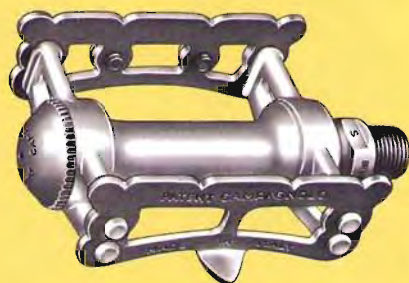
(Particular components of this group are illustrated from page 48 to page 52)



1036



1038



1050



1051



1046

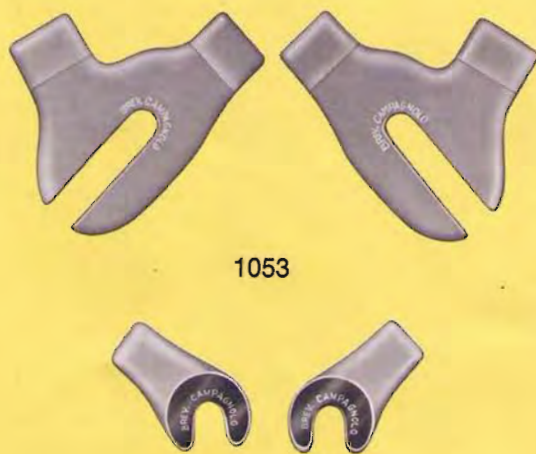




1040



1044



1053



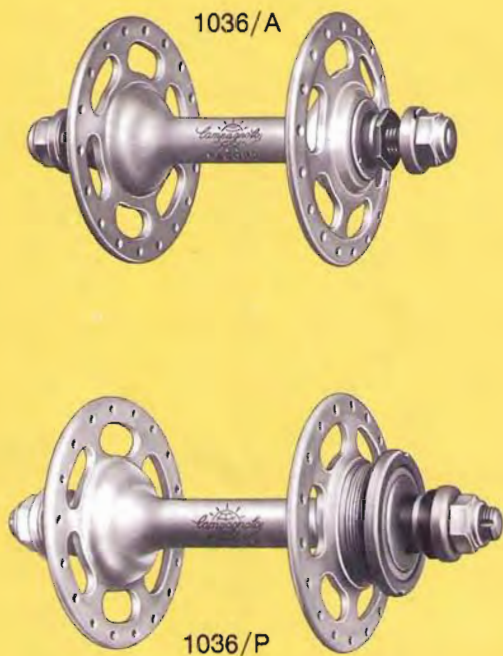
- 1036** Pair Record large flange solid spindle track hubs (front width 100 mm., rear width 110 mm., flanges with 36 holes, thread $\varnothing 35 \times 24F.$). Upon request furnished with rear hub width 120 mm., flanges with 24 - 28 - 32 - 40 holes, thread $\varnothing 34,7 \times 1M.$ or $1,370'' \times 24$ Tpi-BSC. See other alternatives on page 48
- 1038** Pair Record track pedals (spindle thread $\varnothing 9/16'' \times 20F.$). Upon request furnished spindles threaded M. 14 x 1,25. See page 49
- 1040** Record track head set (thread $\varnothing 25,4 \times 24F.$). Upon request furnished with thread $\varnothing 25 \times 1M.$ or $1'' \times 24$ Tpi-BSC
- 1044** Seat pin. Specify diameter stem: 25 - 25,8 - 26 - 26,2 - 26,4 - 26,6 - 26,8 - 27 - 27,2 - 27,4 mm. and if length stem in 130 mm. normal or in 180 mm. long
- 1046** Record bottom bracket set (bracket width 70 mm. and cups threaded $\varnothing 36 \times 24F.$). See alternatives on pages 50-51. Upon request is furnished the bracket safety sleeve ref. 2110-2110/1. See page 81
- 1050** Record track chainwheel set with track bottom bracket
- 1051** Record track chainset (with cranks 170 mm., pedal hole $\varnothing 9/16'' \times 20F.$ and chainring for chain $1/2'' \times 1/8''$ [3 mm.]). Specify the number of teeth of the chainring available from 44T to 70T. Upon request furnished cranks with lengths 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. and chainring for chain $1/2'' \times 3/32''$ (2 mm.). P.S.: For the sprockets see page 81
- 1053** Set track front and rear fork ends

PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD TRACK GROUP 1033

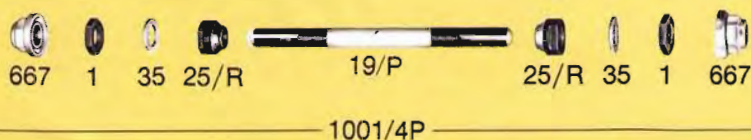
- 1036** Pair Record large flange solid spindle track hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request furnished with rear hub width 110 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 1036/A** Record track large flange front hub
- 1036/P** Record track large flange rear hub

- 1036/2** Pair Record small flange solid spindle track hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request furnished with rear hub width 110 mm., flanges with 24 - 28 - 32 - 40 holes, thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 1036/2A** Record track small flange front hub
- 1036/2P** Record track small flange rear hub

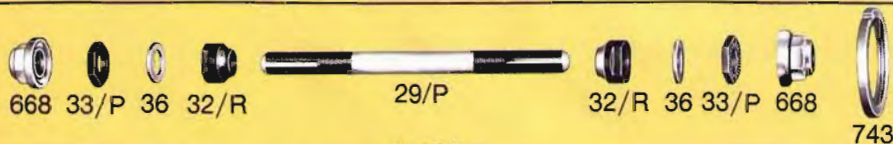
1036



1036/2



1001/4P



1006/5P



- 1** Front lock nut
- 19/P** Front track solid spindle axle
- 25/R** Front cone
- 29/P** Rear track solid spindle axle
- 32/R** Rear cone
- 33/P** Rear lock nut
- 35** Front hub lock washer
- 36** Rear hub lock washer
- 667** Track front nut
- 668** Track rear nut
- 737** Front ball cup
- 738** Rear ball cup
- 739** Front dust cover
- 740** Rear dust cover
- 743** Track lock ring
- 1001/4P** Complete front axle for Record track hub
- 1006/5P** Complete rear axle for Record track hub
- 2104** Set (9+9) special \varnothing 7/32" balls selected with 1/1000 of mm. tolerance
- 2106** Set (9+9) special \varnothing 1/4" balls selected with 1/1000 of mm. tolerance



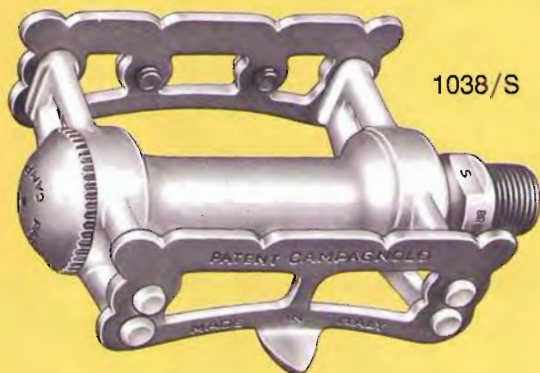
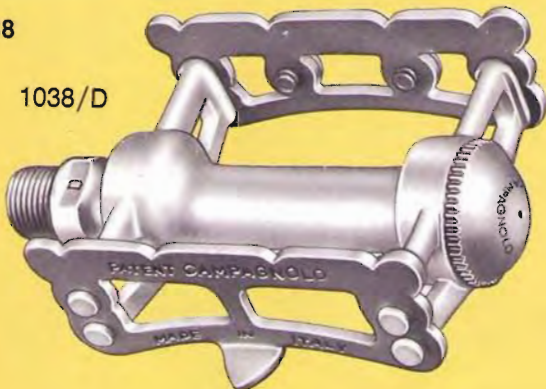
PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD TRACK GROUP 1033

- 1038** Pair Record track pedals (spindle thread \varnothing 9/16" x 20F.). Upon request furnished spindles threaded M.14 x 1,25
- 1038/D** Record track right hand pedal
- 1038/S** Record track left hand pedal
- 1038/A** Pair Record superlight track pedals
- 1038/AD** Superlight Record track right hand pedal
- 1038/AS** Superlight Record track left hand pedal
- 89** Locking screw for superlight pedals
- 669** Left hand pedal axle with thread \varnothing 9/16" x 20F. Upon request furnished with thread M.14 x 1,25

- 670** Right hand pedal axle with thread \varnothing 9/16" x 20F. Upon request furnished with thread M.14 x 1,25
- 672** Inserted race (available also in oversize)
- 673** Pedal axle washer
- 674** Pedal axle cone
- 675** Pedal axle lock nut
- 676** Toe clip bolt
- 677** Toe clip washer
- 678** Inner dust cap
- 679** Record pedal dust cap
- 679/A** Dust cap for superlight pedals
- 2103** Set (48) special \varnothing 5/32" pedal balls selected with 1/1000 of mm. tolerance

1038

1038/D



1038/S

1038/A

1038/AS



1038/AD



672



672



674



673



675



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89



677



676



2103



679/A



669



670



PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD TRACK GROUP 1033

- 1050 Record track chainwheel set with track bottom bracket
- 1046 Record bottom bracket set (bracket width 70 mm. and cups threaded $\varnothing 36 \times 24F.$). Upon request is furnished the bracket safety sleeve ref. 2110-2110/1. See page 81
- 1051 Record track chainset (with cranks 170 mm., pedal hole $\varnothing 9/16" \times 20F.$ and chainring for chain $1/2" \times 1/8" [3 \text{ mm.}]$). Specify the number of teeth of the chainring available from

1050



1051



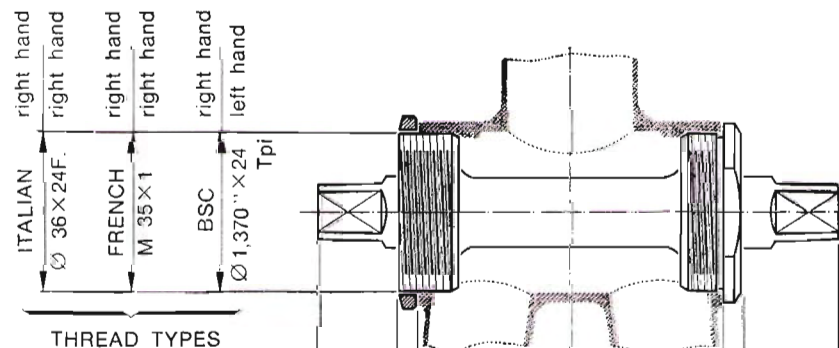
1046



Details of bracket number:

- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.



TRACK
RECORD
AND SUPER
RECORD

AXLE
65-P-110
68-P-110
68-P-120
70-P-120

BRACKET WIDTH		TOTAL AXLE LENGTH	
16	3,5	65	104 mm.
14,5	3,5	68	105 mm.
17	3,5	68	109 mm.
16	3,5	70	109 mm.

44T to 70T. Upon request are furnished cranks with lengths 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm.

- 744 Cotterless spindle. See measurements and indicate spindle size
- 745 Fixed cup. Indicate required thread
- 746 Adjustable cup. Indicate required thread
- 747 Lockring with normal 3.5 mm. thickness (available also with 4 mm. and 4.5 mm. thickness)

748
749
756
757

Indicate required thread

Fixing screw
Fixing washer
Crank cover plate
Track right hand crank (complete with cover 756, 170 mm. long). Upon request furnished in the following sizes: 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long
Track left hand crank (complete with cover 756, 170 mm. long). Upon request are furnished in

758

the following sizes: 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long and chainrings for chain 1/2" x 3/32" (2 mm.).
Record track chainring for 1/2" x 1/8" (3 mm.) chain. Specify the number of teeth available from 44T to 70T
Track chainwheel fastening screw
Set (11+11) special b/b Ø 1/4" balls selected with 1/1000 of mm. tolerance

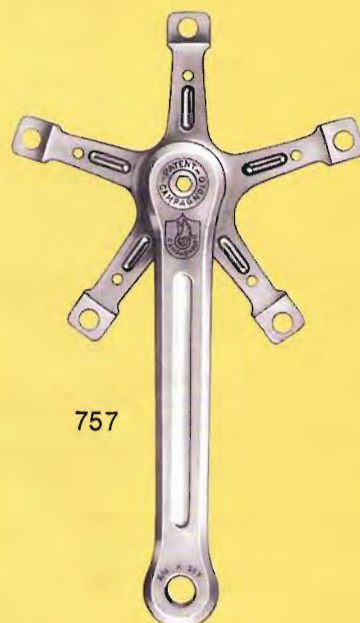
760

761
762
2100

758



760



757



756



761



762



2100



748



749



747



746



744



745



749



748

PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD TRACK GROUP 1033

- | | | | |
|------|--|------|---|
| 1040 | Record track head set
thread \varnothing 25,4 x 24F.).
Upon request furnished with
thread \varnothing 25 x 1 M. or
\varnothing 1" x 24 Tpi-BSC | 688 | Track top head race
(0,5 mm. larger gauge available) |
| 1044 | Seat pin. Specify diameter stem:
25 - 25,8 - 26 - 26,2 - 26,4 -
26,6 - 26,8 - 27 - 27,2 - 27,4 mm.
and if length stem in 130 mm.
normal or in 180 mm. long | 689 | Track bottom head race
(0,5 mm. larger gauge available) |
| 1053 | Set track front and rear fork ends | 690 | Track crown race
(smaller diameter available) |
| 681 | Locking nut
(specify type of threading) | 698 | Front bracket |
| 682 | Locking washer | 699 | Rear bracket |
| 687 | Track screwed race
(specify type of threading) | 700 | Bolt nut |
| | | 701 | Left hand side support |
| | | 702 | Right hand side support |
| | | 703 | Fixing and adjusting bolt |
| | | 2102 | Set (25+25) special b/b
\varnothing 5/32" balls selected with
1/1000 of mm. tolerance |

1040



1044



1053



698



699



703



701



702

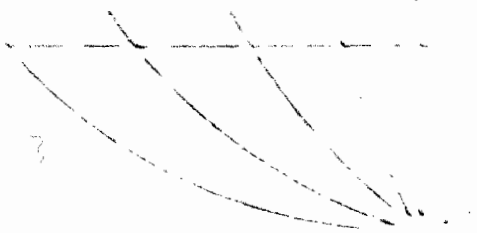


700

A wireframe globe with a grid of latitude and longitude lines. The Campagnolo logo is superimposed on the globe, centered horizontally and slightly above the equator. The logo is in a blue, stylized script font.

Campagnolo

Handwritten signature



GRAN SPORT GROUP

pages 54-55

NUOVO GRAN SPORT GEAR - FRONT CHANGERS
WITH ALTERNATIVE GRAN SPORT CONTROL LEVERS

pages 56-57-58-59-60

NUOVO TIPO HUBS

page 61

ROAD SPORT CHAINWHEEL SET AND
BOTTOM BRACKET SET

pages 62-63

SPORT HEAD SET - FORK ENDS

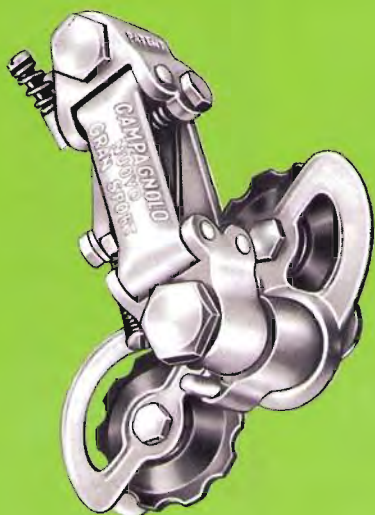
page 64

2240 CAMPAGNOLO GRAN SPORT GROUP

(Particular components of this group are illustrated from page 56 to page 64)



- 606 Down tube control gear inner wire (118 cm.)
- 608 Down tube control front changer inner wire (72 cm.)
- 622 Gear stainless steel outer casing (21 cm.)
- 626/A Twin gear cable clip
- 636 Chainstay clip
- 1010 Set Record front and rear fork ends
- 1014/1A Gran Sport twin down tube control lever. See alternatives on pages 58-59



3500

2050



1014/1A

608

606



622



1253



626/A



636

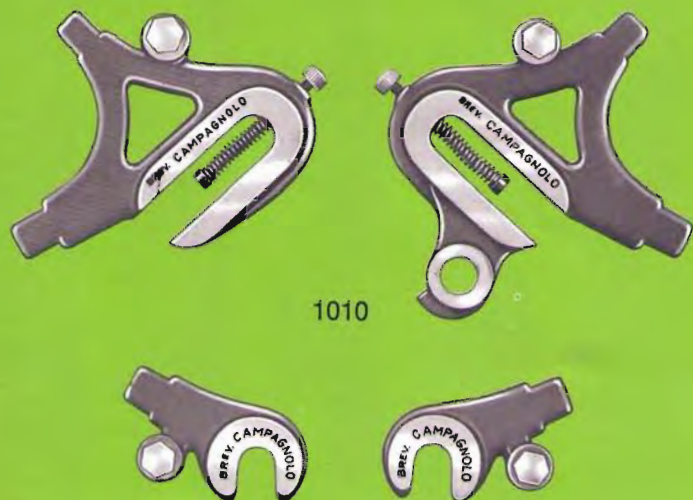


- 1040/A** Sport head set (thread \varnothing 25,4 x 24F.). Upon request are furnished with thread \varnothing 25 x 1M. or \varnothing 1" x 24 Tpi-BSC
- 1253** Pair Nuovo Tipo large flange quick release hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request furnished with thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC. See other alternatives on page 61

- 2050** Front changer. See alternatives on page 60
- 3320/A** Sport road chainset (with cranks 170 mm., pedal hole \varnothing 9/16" x 20F. and fixed couple of chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth of the fixed couple of chainrings available as follows: 42/49T - 42/50T - 42/51T - 42/52T - 42/53T. Upon request

- furnished cranks with pedal hole M.14 x 1,25
- 3330/A** Sport chainwheel set
- 3331** Sport bottom bracket set (bracket width 70 mm. and cups threaded \varnothing 36 x 24F.). See alternatives on pages 62-63. Upon request is furnished the bracket safety sleeve ref. 2110 - 2110/1. See page 81
- 3500** Nuovo Gran Sport gear (without hanger)

3330/A



Campy
bike

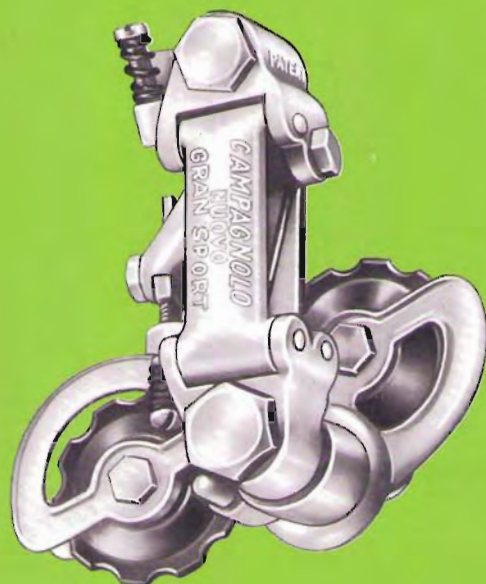


1040/A

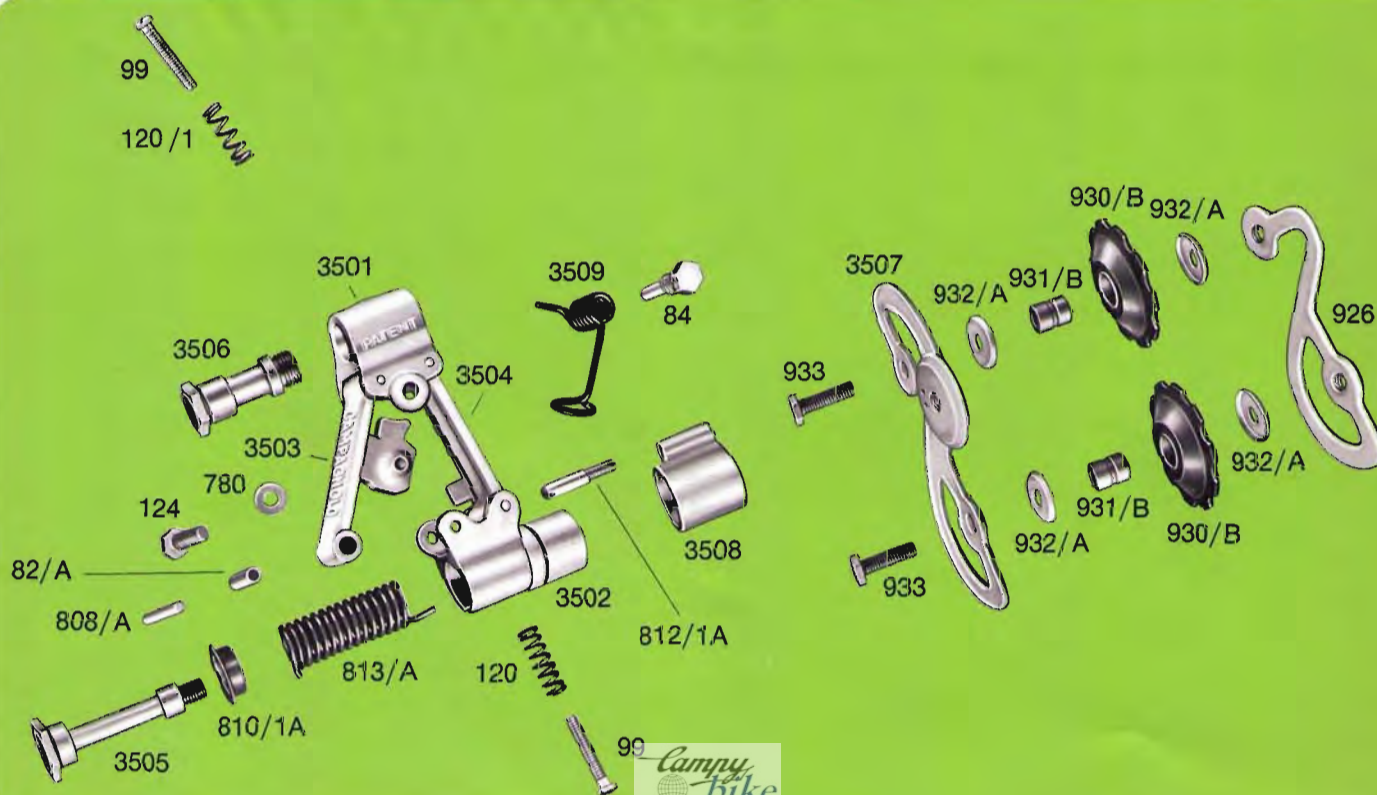
PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

3500	Nuovo Gran Sport gear (without hanger)
82/A	Body ferrule
84	Gear return spring screw
99	Gear adjusting screw
120	Lower adjuster spring
120/1	Upper adjuster spring
124	Fixing screw
780	Cable clamp screw washer
808/A	Spindle
810/1A	Lower body bush
812/1A	Grub screw
813/A	Tension spring
926	Inner cage plate

930/B	Roller
931/B	Roller bush
932/A	Roller dust cover
933	Roller bolt
3501	Upper body
3502	Lower body
3503	Front arm
3504	Inner arm
3505	Spring cage bolt
3506	Upper pivot bolt
3507	Outer cage plate
3508	Cover
3509	Gear return spring



3500



PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

2050	Front changer
89	Clamp washer
210	Body clip bolt
211	Body fixing clip
213	Fork fixing bolt
214	Fork cage
217	Nut
226	Adjusting bolt spring
227	Adjusting lever screw
780	Cable clamp bolt washer
1601	Front changer body
1602	Control fork
1603	Spindle
1604	Front changer return spring
1605	Bolt

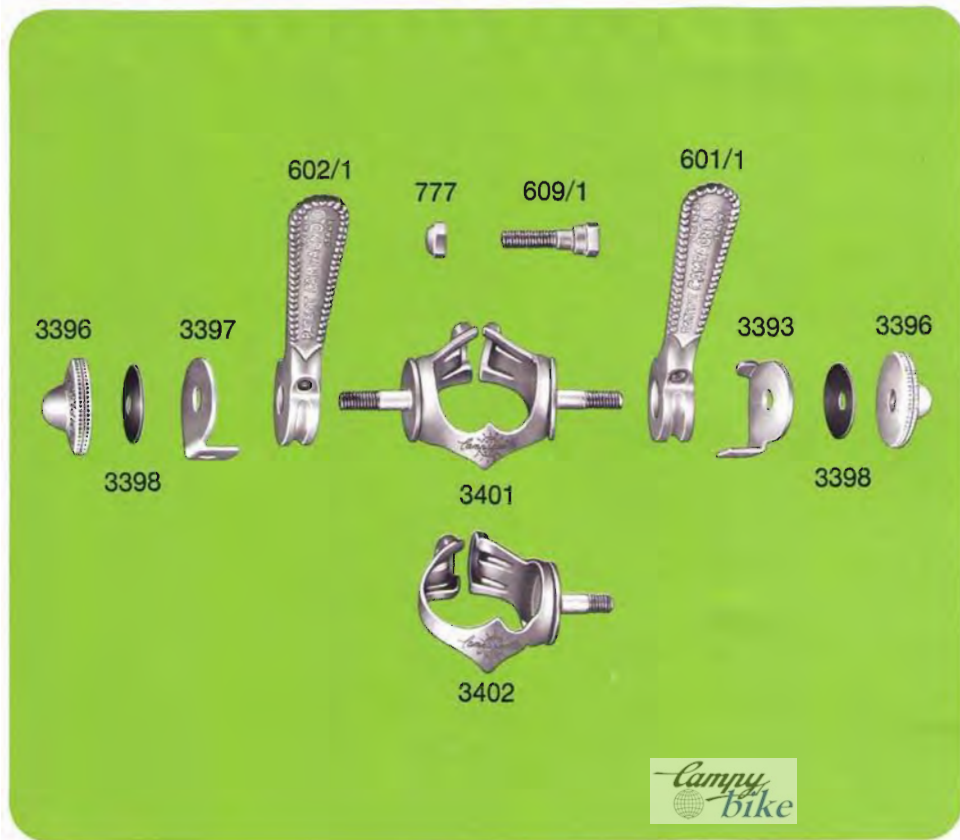
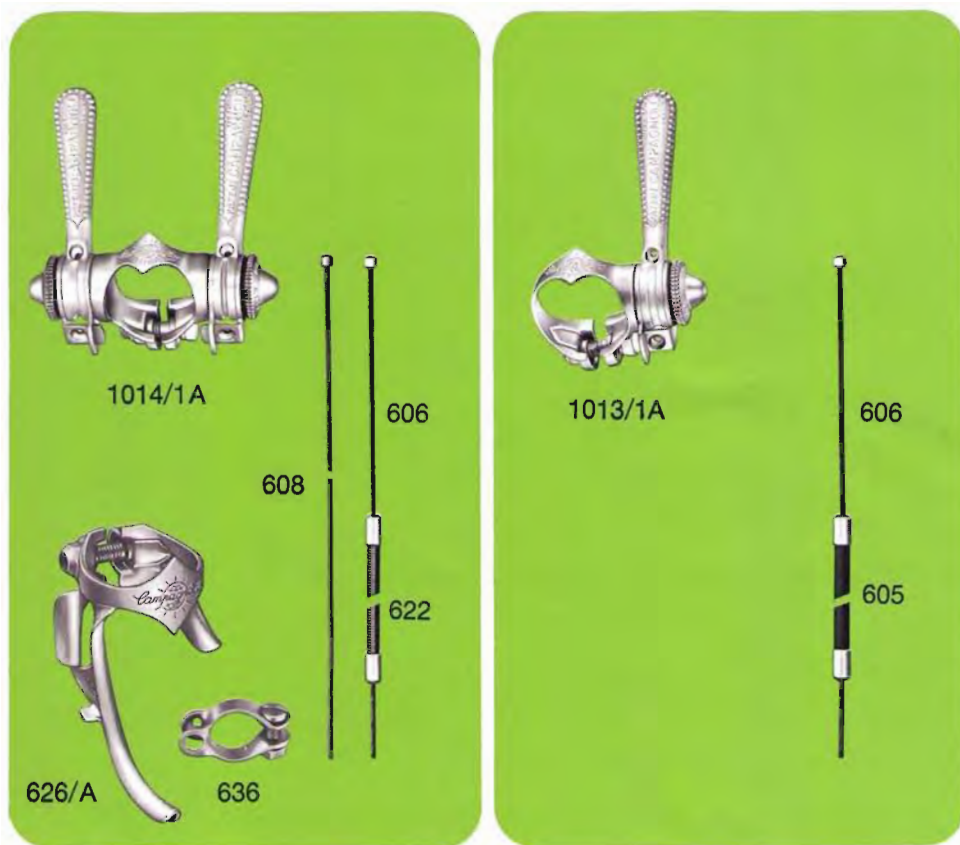


2050



PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

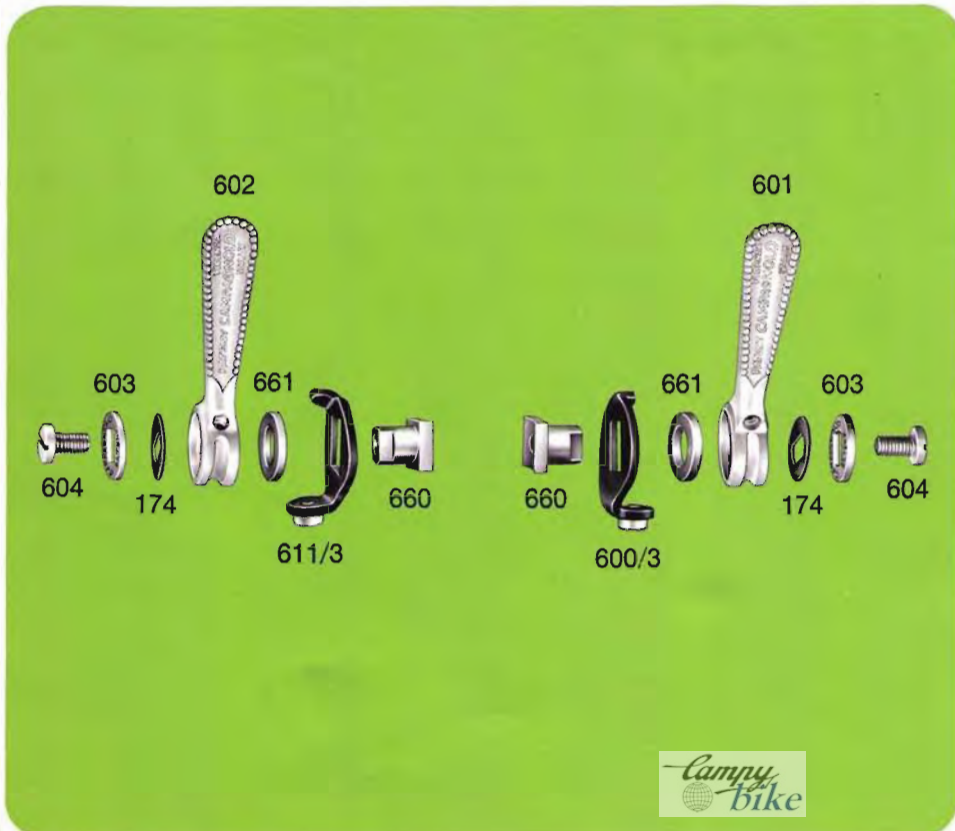
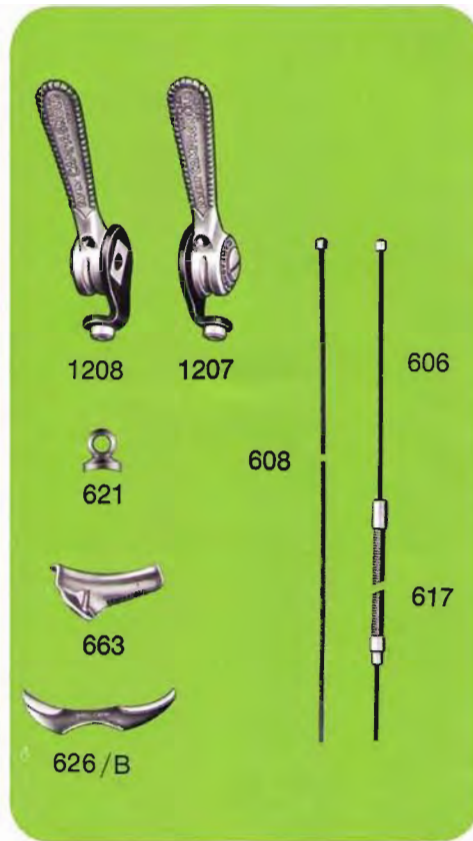
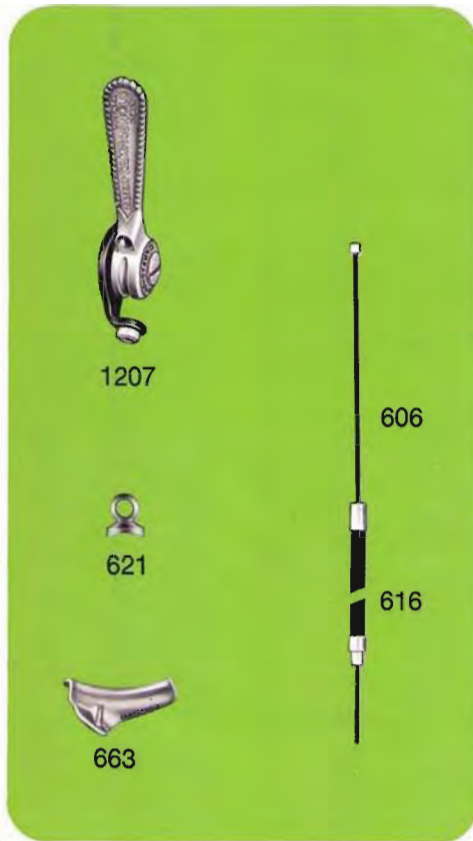
- 1013/1A Right hand Gran Sport down tube control
- 1014/1A Gran Sport twin down tube control lever
- 1207 Braze-on gear control
- 1208 Braze-on front changer control
- 174 Friction plate
- 600/3 Right hand braze-on control lever plate with ferrule
- 601 Right hand control lever only



601/1 Right hand control lever only
602 Left hand control lever only
602/1 Left hand control lever only
603 Cover plate
604 Friction adjusting screw
605 Gear outer casing (105 cm.)
606 Down tube control gear inner wire (118 cm.)
608 Down tube control front changer inner wire (72 cm.)
609/1 Fixing clip bolt

611/3 Left hand braze-on control lever plate
616 Gear viala outer casing (23 cm.)
617 Braze-on gear stainless steel outer casing (21 cm.)
621 Braze-on cable stop
622 Gear stainless steel outer casing (21 cm.)
626/A Twin gear cable clip
626/B Braze-on cable ferrule
636 Chainstay clip

660 Braze-on boss
661 Brazed boss collar
663 Braze-on ferrule
777 Nut
3393 Right hand toothed washer
3396 Milled nut for Gran Sport lever
3397 Left hand toothed washer
3398 Elastic washer
3401 Gran Sport twin control clip
3402 Gran Sport right hand control clip



PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

1052/1	Record front changer	777	Nut
89	Locking screw	778	Upper arm
215	Cage spanner bolt	780	Cable clamp bolt washer
217	Cage spacer bolt nut	782	Lower arm
773	Record front changer body (complete with clip and hinge)	784	Front changer cage
773/1	Hinge	785	Ferrule for front changer cage
773/2	Hinge pin	786	Spindle for front changer cage
774	Adjusting screw	787	Front changer return spring
775	Adjusting bolt spring	788	Cage shank bolt
776	Clip fixing screw	790	Bush
		941	Circlip



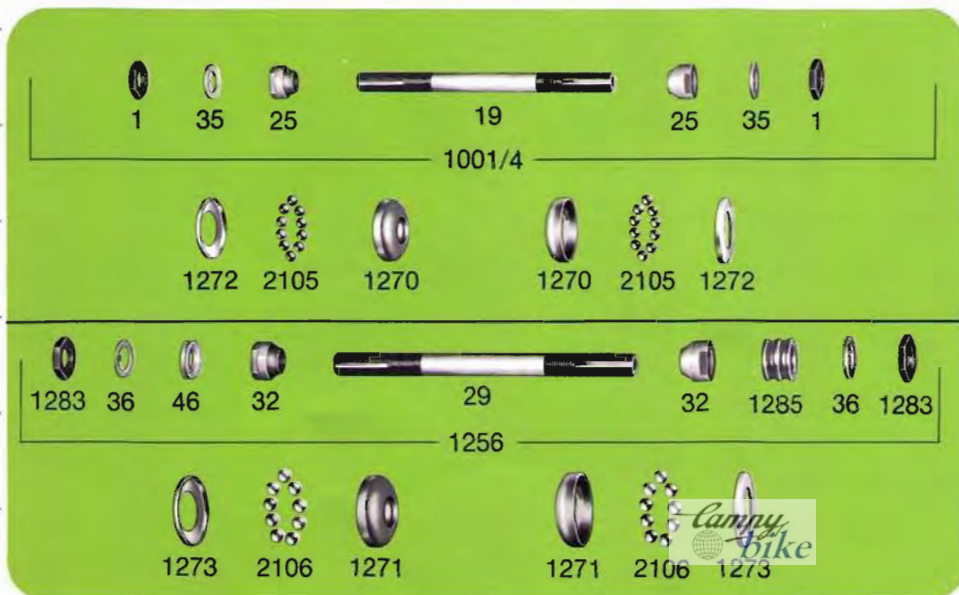
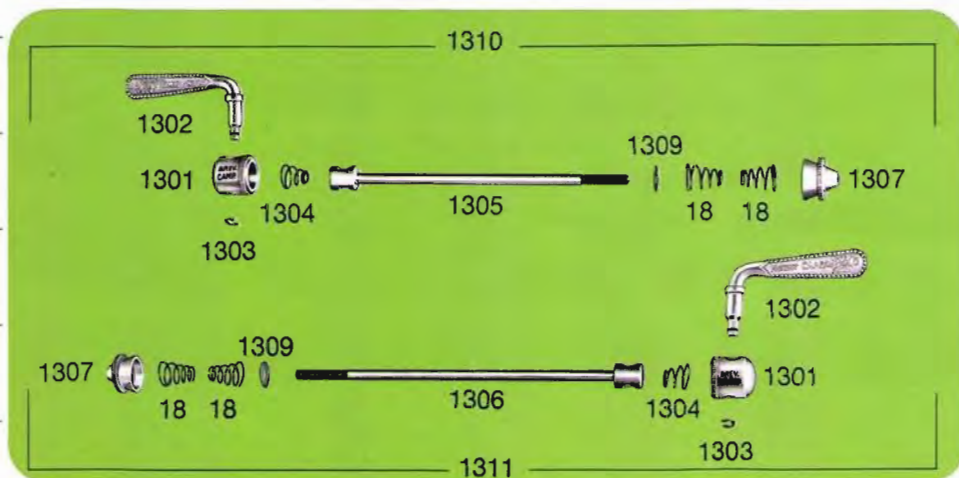
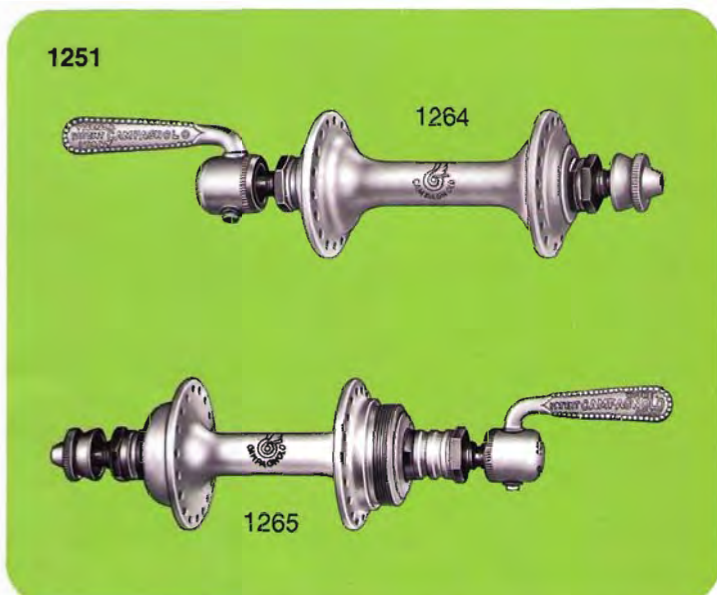
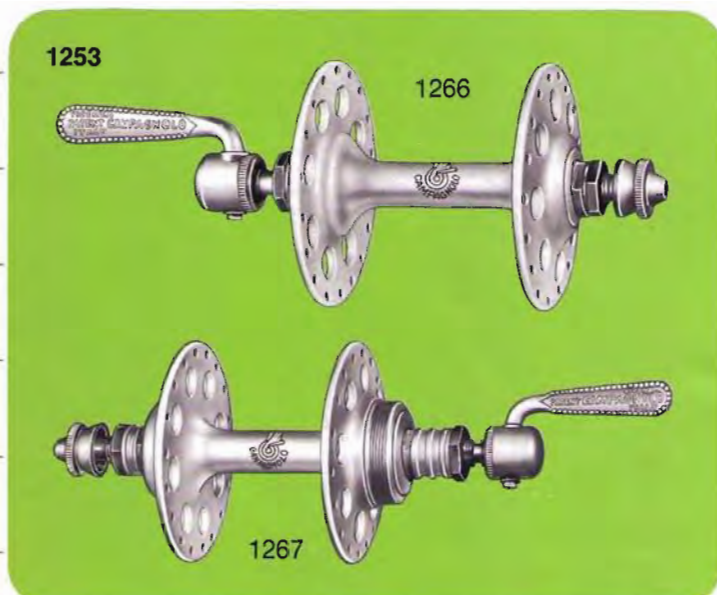
1052/1



PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

- 1251** Pair Nuovo Tipo small flange quick release hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request are furnished with thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 1264** Nuovo Tipo small flange front hub
- 1265** Nuovo Tipo small flange rear hub

- 1253** Pair Nuovo Tipo large flange quick release hubs (front width 100 mm., rear width 120 mm., flanges with 36 holes, thread \varnothing 35 x 24F.). Upon request are furnished with thread \varnothing 34,7 x 1M. or \varnothing 1,370" x 24 Tpi-BSC
- 1266** Nuovo Tipo large flange front hub
- 1267** Nuovo Tipo large flange rear hub



- 1** Front lock nut
- 18** Conical spring
- 19** Front hollow axle
- 25** Front cone
- 29** Rear hollow axle (127 mm. long). Upon request are furnished spindles 132 and 134 mm. long
- 32** Rear cone
- 35** Front hub lock washer
- 36** Rear hub lock washer
- 46** Rear spacing collar
- 1001/4** Complete front hollow spindle for Nuovo Tipo hub
- 1256** Complete rear hollow spindle for Nuovo Tipo hub
- 1270** Front ball cup
- 1271** Rear ball cup
- 1272** Front dust cover
- 1273** Rear dust cover
- 1283** Rear lock nut
- 1285** Large spacing collar
- 1301** Quick release cap
- 1302** Quick release lever
- 1303** Circlip for lever
- 1304** Conical tension spring
- 1305** Quick release front skewer
- 1306** Quick release rear skewer
- 1307** Knurled adjusting nut
- 1309** Washer for skewer
- 1310** Complete front quick release skewer for Nuovo Tipo hub
- 1311** Complete rear quick release skewer for Nuovo Tipo hub
- 2105** Set (10+10) special \varnothing 3/16" balls selected with 1/1000 of mm. tolerance
- 2106** Set (9+9) special \varnothing 1/4" balls selected with 1/1000 of mm. tolerance

PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

- 3330/A** Sport chainwheel set
3320/A Sport road chainset (with cranks 170 mm., pedal hole \varnothing 9/16" x 20F. and fixed couple of chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth of the fixed couple of chainrings available as follows: 42/49T - 42/50T - 42/51T - 42/52T - 42/53T. Upon request furnished cranks with pedal hole M.14 x 1,25
3331 Sport bottom bracket set

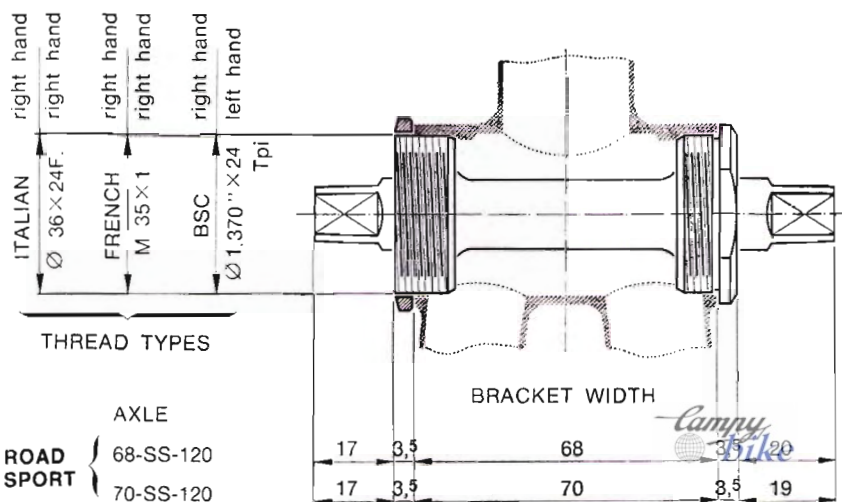
3330/A



3320/A



3331



Details of bracket number:

- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

(bracket width 70 mm. and cups threaded \varnothing 36 x 24F.). Upon request is furnished the bracket safety sleeve ref. 2110 - 2110/1. See page 81

745 Fixed cup.
Indicate required thread

746 Adjustable cup.
Indicate required thread

747 Lockring with normal 3,5 mm. thickness (available also with 4 mm. and 4,5 mm. thickness)
Indicate required thread

748 Fixing screw

749 Fixing washer

756 Crank cover plate

2100 Set (11+11) special \varnothing 1/4" balls selected with 1/1000 of mm. tolerance

3321/A Sport left hand crank (complete with cover 756, 170 mm. long, pedal hole \varnothing 9/16" x 20F.). Upon request are furnished cranks with pedal hole M.14 x 1,25

3322/A Sport right hand crank (complete with cover 756, 170 mm. long, pedal hole

\varnothing 9/16" x 20F.). Upon request are furnished cranks with pedal hole M.14 x 1,25

3325 Sport chainwheel fastening screw

3327 Sport double chainrings for 1/2" x 3/32" (2 mm.) chain. Please specify the number of teeth of the fixed double chainrings 42/49 - 52/50 - 42/51 - 42/52 - 42/53

3329 Collar nut for 3325

3332 Sport cotterless spindle. See measurements and indicate spindle size



756



3329



3325



3321/A



3327



3322 /A



748



749



747



746



3332



745



749



748

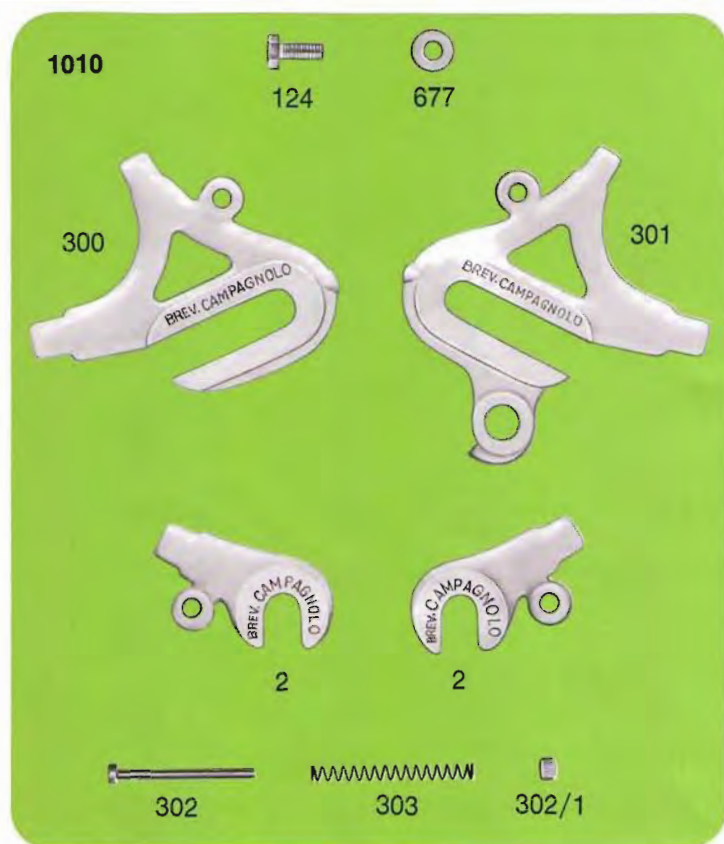
2100



PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP 2240

- 1010 Set Record front and rear fork ends
- 1040/A Sport head set (thread \varnothing 25,4 x 24F.). Upon request furnished with thread \varnothing 25 x 1M. or \varnothing 1" x 24 Tpi-BSC
- 2 Record right and left front fork ends
- 124 Fixing screw
- 300 Record left hand rear end
- 301 Record right hand rear end
- 302 Adjusting bolt
- 302/1 Nut for bolt 302
- 303 Adjusting bolt spring
- 677 Toe clip washer

- 681 Locking nut (specify type of threading)
- 682 Locking washer
- 687/A Sport screwed race (specify type of threading)
- 688/A Sport top head race (0,5 mm. larger gauge available)
- 689/A Sport bottom head race (0,5 mm. larger gauge available)
- 690/A Sport crown race (smaller diameter available)
- 2102 Set (25+25) special \varnothing 5/32" balls selected with 1/1000 of mm. tolerance





Campagnolo



VALENTINO EXTRA GROUP

page 66

VALENTINO EXTRA GEAR - FRONT CHANGER
WITH ALTERNATIVE VALENTINO CONTROL LEVERS

pages 67-68-69-70

VALENTINO EXTRA GROUP

(Particular components of this group are illustrated from page 67 to page 70)



- 606 Down tube control gear inner wire (118 cm.)
- 608 Down tube control front changer inner wire (72 cm.)
- 1206 Valentino twin control lever
- 2050 Front changer
- 2170 Valentino Extra gear with hanger



2170



2050



1206

608

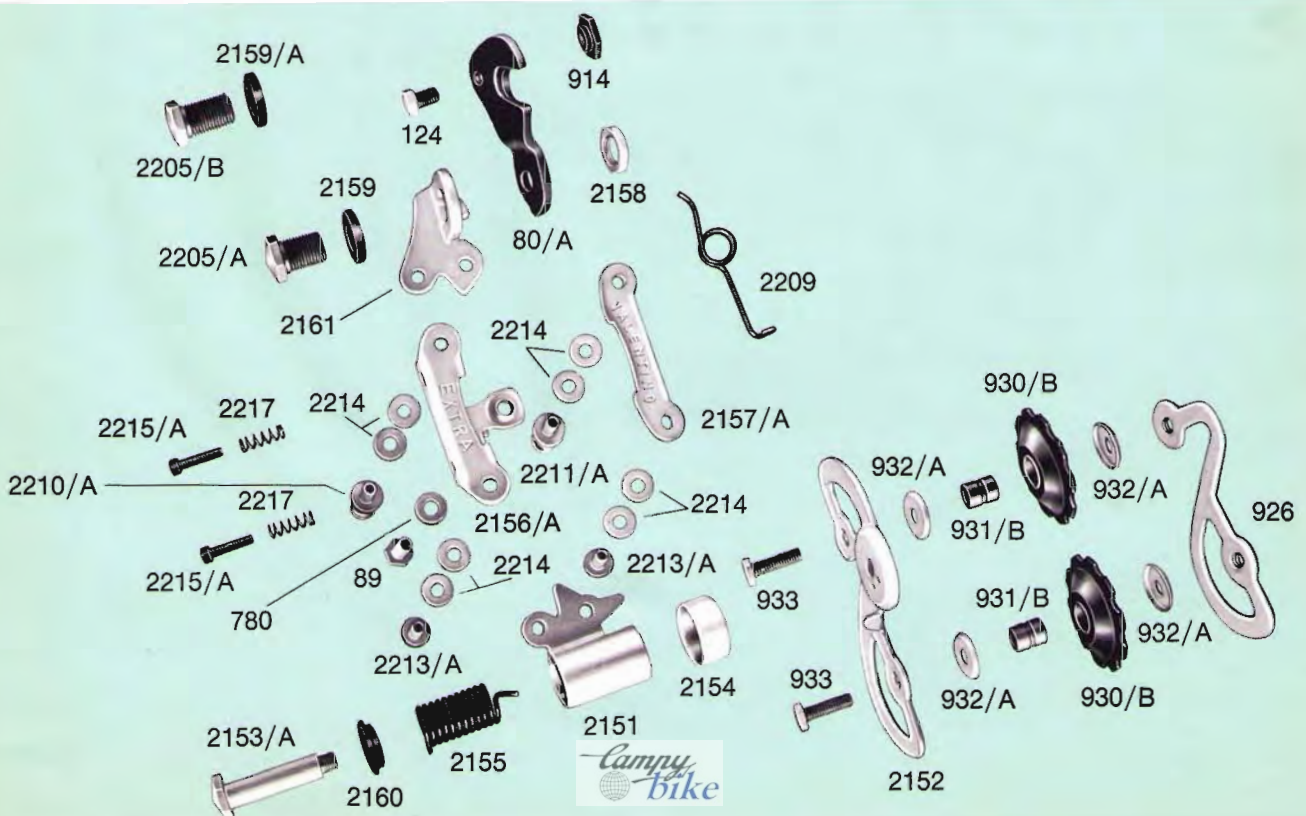
606

PARTICULAR COMPONENTS OF VALENTINO EXTRA GROUP



2170

- 2170 Valentino Extra gear with hanger
- 80/A Gear fixing plate
- 89 Locking screw
- 124 Fixing screw
- 780 Cable clamp bolt washer
- 914 Clamp nut
- 926 Inner cage plate
- 930/B Roller
- 931/B Roller bush
- 932/A Roller dust cover
- 933 Roller bolt
- 2151 Spring cage
- 2152 Outer cage plate
- 2153/A Spring cage bolt
- 2154 Cover
- 2155 Gear tension spring
- 2156/A Front arm
- 2157/A Inner arm
- 2158 Gear fixing lock nut
- 2159 Gear hanger bolt
- 2159/A Nylon washer (for gear fixing plate to Record and Sport fork end)
- 2160 Spring cage bush
- 2161 Upper body
- 2205/A Fixing pivot bolt
- 2205/B Upper body bolt (for gear fixing plate to Record fork end)
- 2209 Gear return spring
- 2210/A Return spring spindle
- 2211/A Spindle
- 2213/A Arm rivets
- 2214 Spring washer
- 2215/A Gear adjusting screw
- 2217 Adjusting bolt spring

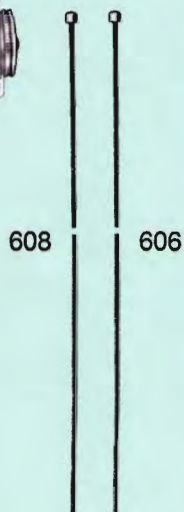


PARTICULAR COMPONENTS OF VALENTINO EXTRA GROUP

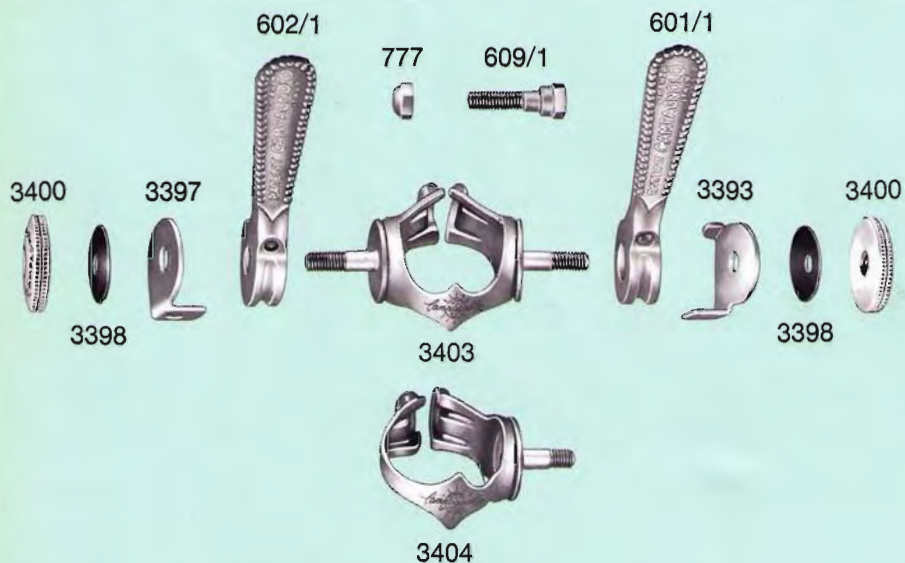
- 1204 Valentino right hand down tube control lever
- 1206 Valentino twin control lever
- 1207 Braze-on gear control
- 1208 Braze-on front changer control
- 174 Friction plate
- 600/3 Right hand braze-on control lever plate with ferrule



1206



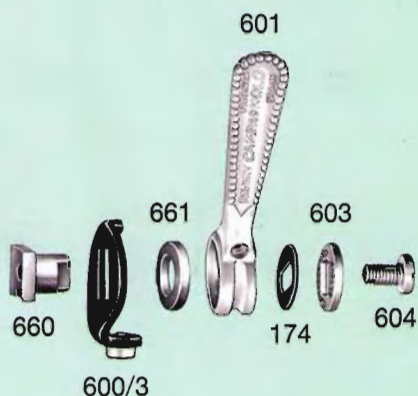
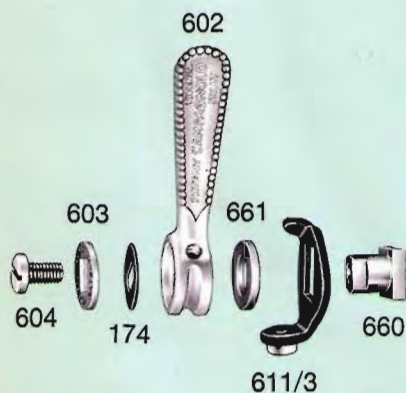
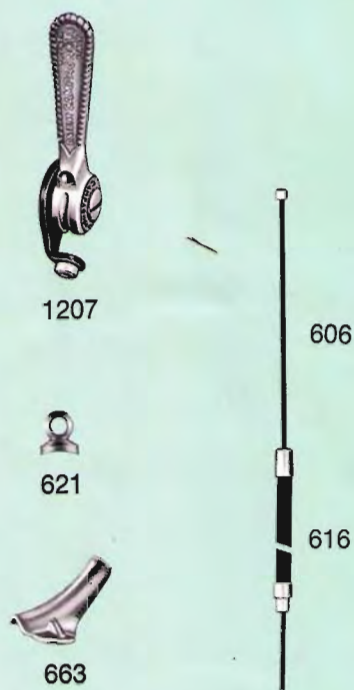
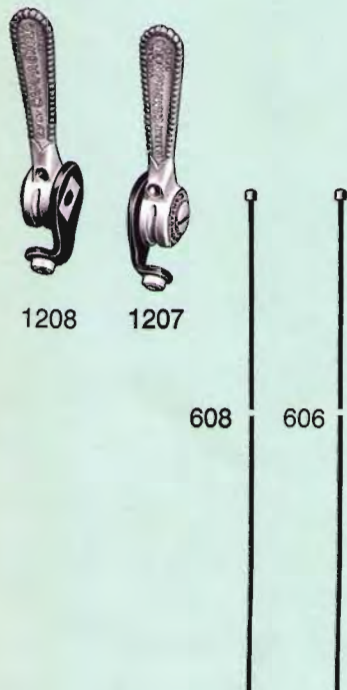
1204



601 Right hand control lever only
601/1 Right hand control lever only
602 Left hand control lever only
602/1 Left hand control lever only
603 Cover plate
604 Friction adjusting screw
605 Gear outer casing (105 cm.)
606 Down tube control gear inner wire (118 cm.)

608 Down tube control front changer inner wire (72 cm.)
609/1 Fixing clip bolt
611/3 Left hand braze-on control lever plate
616 Gear vipla outer casing (23 cm.)
621 Braze-on cable stop
660 Braze-on boss
661 Brazed boss collar

663 Braze-on cable ferrule
777 Nut
3393 Right hand toothed washer
3397 Left hand toothed washer
3398 Elastic washer
3400 Toothed nut for Valentino lever
3403 Valentino twin control lever clip
3404 Valentino right hand lever clip

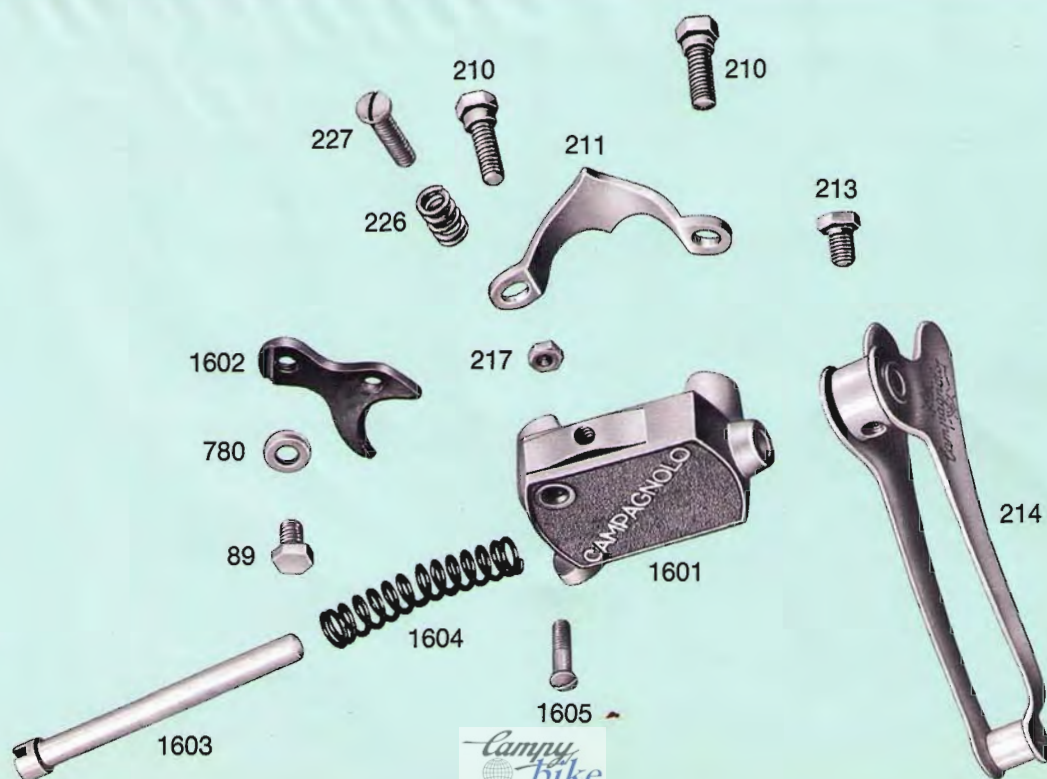


PARTICULAR COMPONENTS OF VALENTINO EXTRA GROUP

2050	Front changer
89	Clamp washer
210	Body clip bolt
211	Body fixing clip
213	Fork fixing bolt
214	Fork cage
217	Nut
226	Adjusting bolt spring
227	Adjusting lever screw
780	Cable clamp bolt washer
1601	Front changer body
1602	Control fork
1603	Spindle
1604	Front changer return spring
1605	Bolt

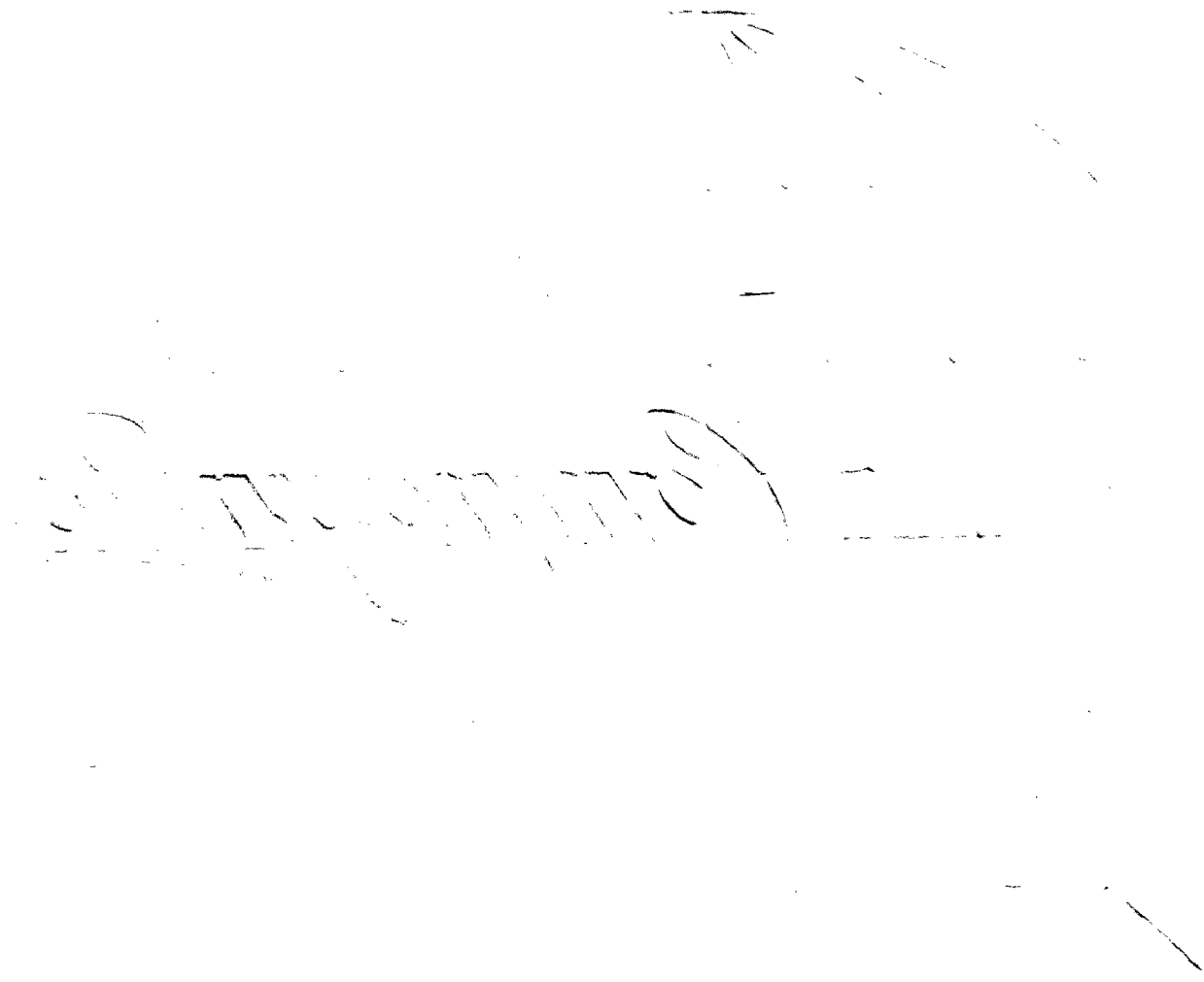


2050





Campagnolo



RECORD CHAINWHEEL SETS WITH BOTTOM
BRACKET SET FOR TRIPLE CHAINRING

pages 72-73-74-75

RECORD CHAINWHEEL SET WITH BOTTOM
BRACKET SET FOR CYCLOCROSS

pages 76-77

RALLY GEAR FOR LARGE RATIOS

page 78

1048/3 CAMPAGNOLO SPECIAL RECORD CHAINWHEEL SET WITH BOTTOM BRACKET SET FOR TRIPLE CHAINRING

- 1046** Record bottom bracket set (with spindle 65-P-110 and cups threaded $\varnothing 36 \times 24F.$). Upon request is furnished the bracket safety sleeve ref. 2110 - 2110/1. See page 81
- 1049/3** Record road chainset for normal triple chainring (with cranks 170 mm., pedal hole $\varnothing 9/16'' \times 20F.$ and chainrings for chain $1/2'' \times 3/32''$ [2 mm.]). Specify the number of teeth of the 3 chainrings available from 42T to 57T. Upon request

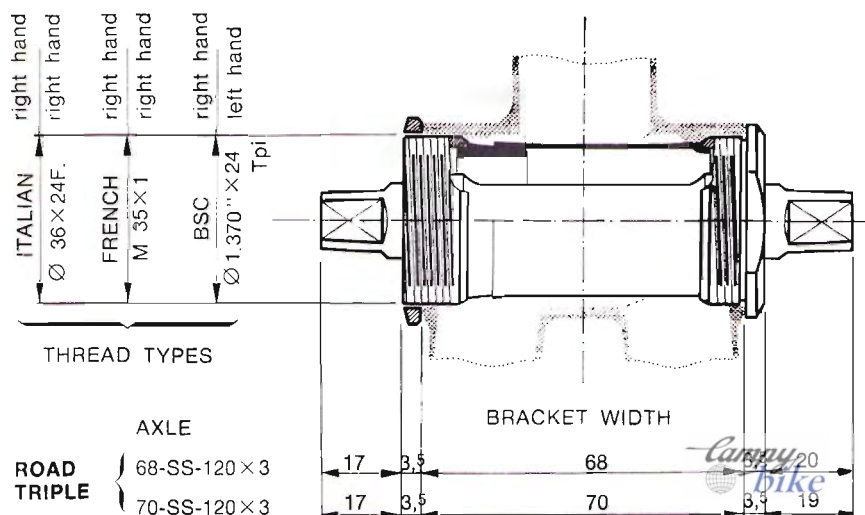
1048/3



1049/3



1046



Details of bracket number:

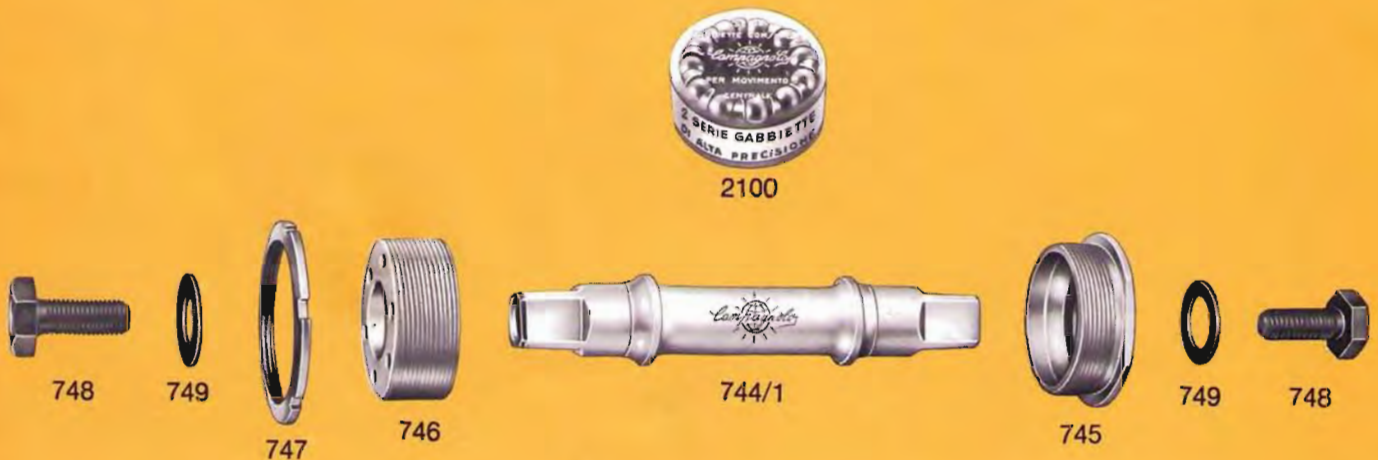
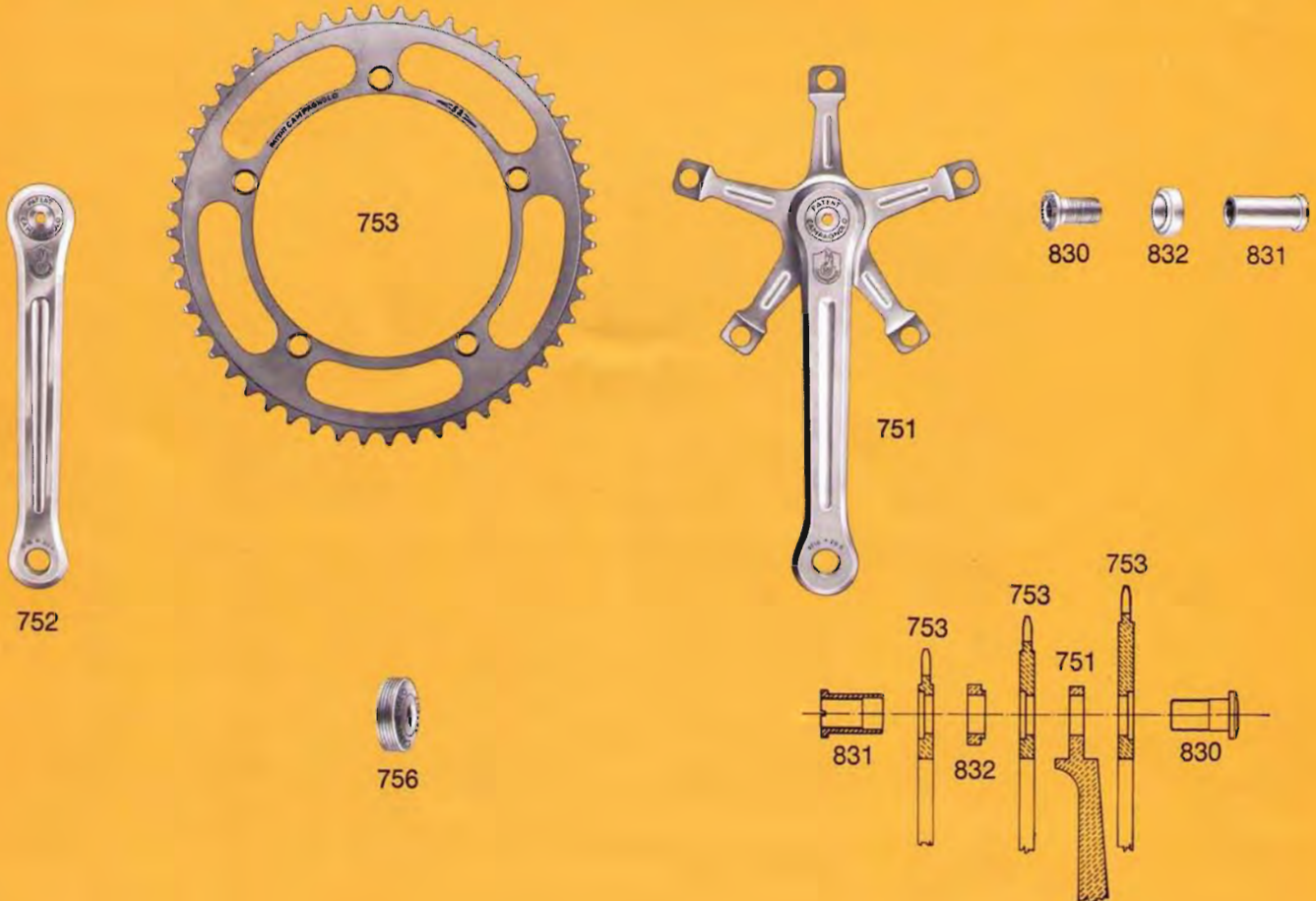
- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

- furnished cranks with
lengths 165 - 167,5 - - 172,5 -
175 - 177,5 and 180 mm.
- 744/1** Triple chainring cotterless
spindle. See measurements and
indicate spindle size
- 745** Fixed cup.
Indicate required thread
- 746** Adjustable cup.
Indicate required thread
- 747** Lockring with normal 3,5 mm.
thickness (available also with
4 mm. and 4,5 mm. thickness)
Indicate required thread

- 748** Fixing screw
- 749** Fixing washer
- 751** Right hand road crank
(complete with cover 756,
170 mm. long). Upon request
are furnished the following
sizes: 165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long
- 752** Left hand road crank
complete with cover 756,
170 mm. long). Upon request
are furnished the following
sizes: 165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long

- 753** Road chainring for 1/2" x 3/32"
(2 mm). chain. Specify the
number of teeth available from
42T to 57T
- 756** Crank cover plate
- 830** Triple chainring and
cyclocross fixing bolt
Nut for bolt 830
- 831** Triple chainring and cyclocross
spacer
- 832** Triple chainring and cyclocross
spacer
- 2100** Set (11+11) special Ø 1/4"
balls selected with 1/1000 of
mm. tolerance



1048/5 CAMPAGNOLO RECORD CHAINWHEEL SET WITH BOTTOM BRACKET SET FOR TRIPLE CHAINRING

- 1046** Record bottom bracket set (with spindle 65-P-110 and cups threaded $\varnothing 36 \times 24F.$). Upon request is furnished the bracket safety sleeve ref. 2110 - 2110/1. See page 81
- 1049/5** Triple Record chainset (with cranks 170 mm., pedal hole $\varnothing 9/16'' \times 20F.$ and chainrings for chain $1/2'' \times 3/32''$ (2 mm). with small ring in 36T only. Specify the number of the other two chainrings available from 42T to 57T

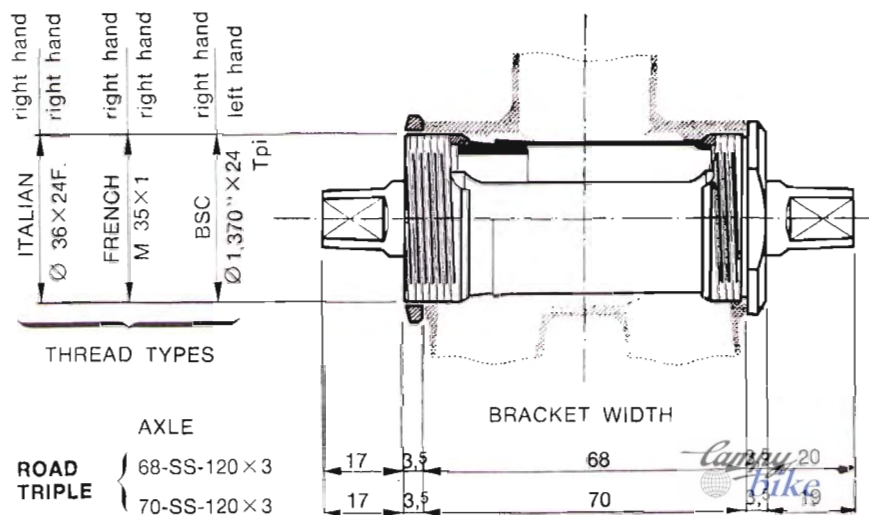
1048/5



1049/5



1046

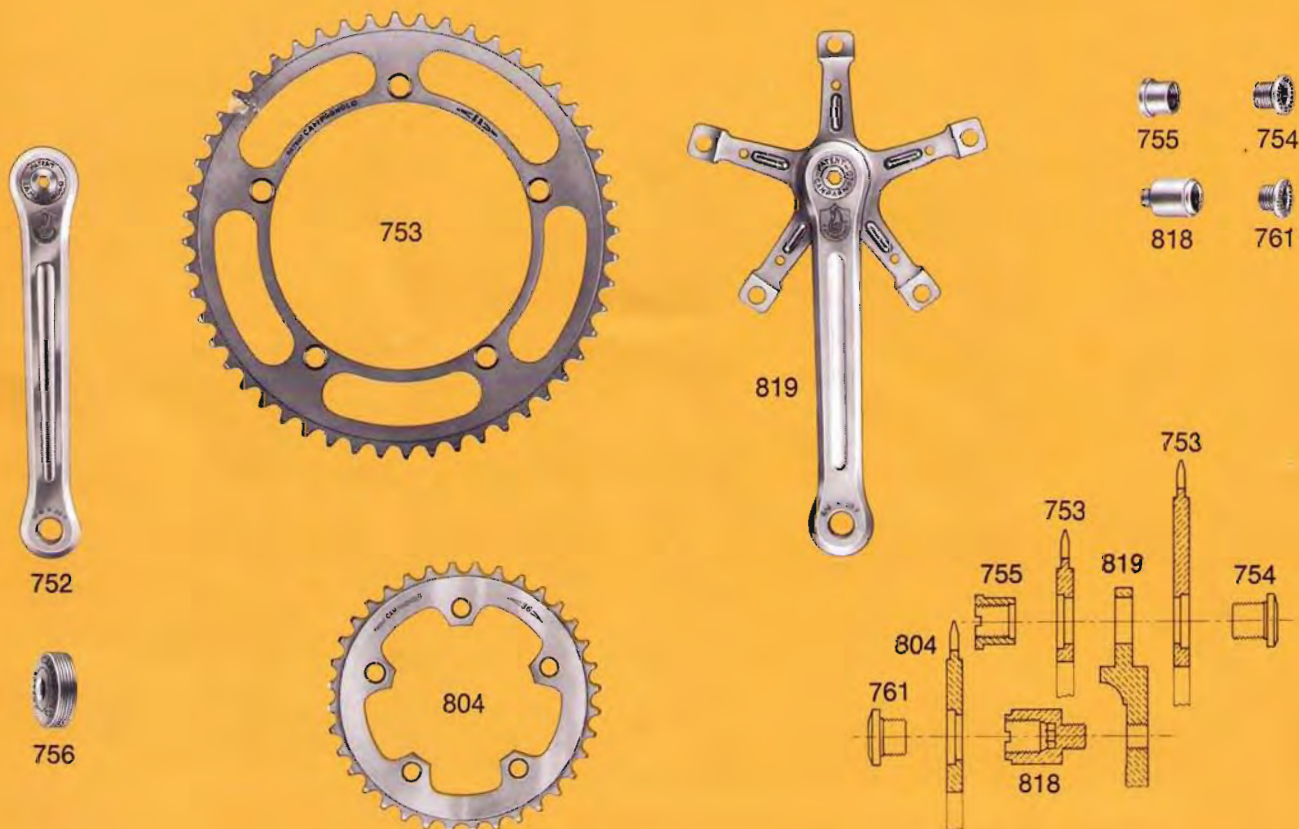


Details of bracket number:

- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

- | | | |
|--|--|---|
| <p>744/1 Triple chainring cotterless spindle. See measurements and indicate spindle size</p> <p>745 Fixed cup.</p> <p>746 Adjustable cup.</p> <p>747 Lockring with normal 3,5 mm. thickness (available also with 4 mm. and 4,5 mm. thickness) Indicate required thread</p> | <p>748 Fixing screw</p> <p>749 Fixing washer</p> <p>752 Road left hand crank (complete with cover 756, 170 mm. long)</p> <p>753 Road chainring for 1/2" x 3/32" (2 mm.) chain. Specify the number of teeth available from 42T to 57T</p> <p>754 Road chainwheel fastening screw</p> <p>755 Road chainwheel fastening nut</p> <p>756 Crank cover plate</p> | <p>761 Track chainwheel fastening screw</p> <p>804 Chainring for 1/2" x 3/32" (2 mm.) chain with fixed 36 teeth</p> <p>818 Triple chainring spacer</p> <p>819 Right crank for special triple chainring (complete with cover plate 756 - 170 mm. long)</p> <p>2100 Set (11+11) special Ø 1/4" balls selected with 1/1000 of mm. tolerance</p> |
|--|--|---|

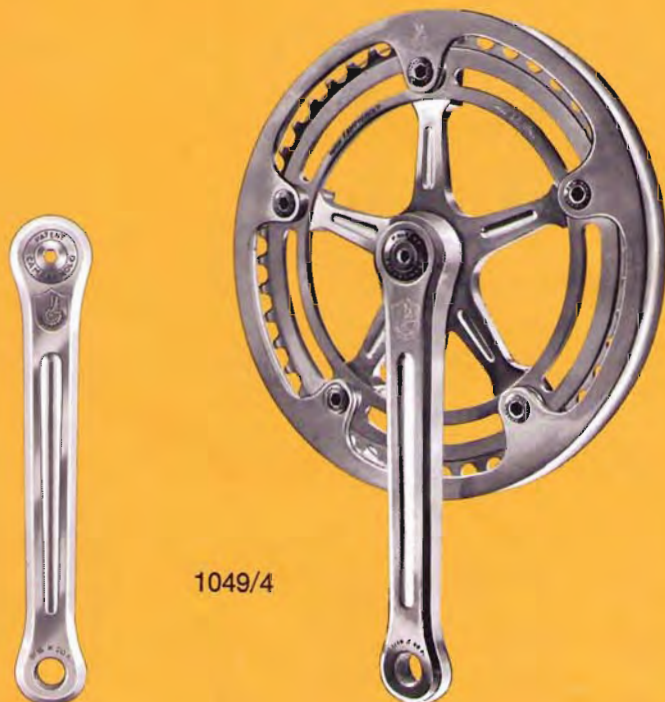


1048/4 CAMPAGNOLO RECORD CHAINWHEEL SET WITH BOTTOM BRACKET SET FOR CYCLOCROSS

- 1046** Record bottom bracket set (with spindle 65-P-110 and cups threaded $\varnothing 36 \times 24F.$). Upon request is furnished the bracket safety sleeve ref. 2110 - 2110/1. See page 81
- 1049/4** Cyclocross Record chainset (with cranks 170 mm., pedal hole $\varnothing 9/16'' \times 20F.$ and chainring for chain $1/2'' \times 3/32''$ [2 mm.]). Specify the number of teeth of the chainrings

- 744/2** available from 42T to 57T. Upon request furnished cranks with lengths 165 - 167.5 - 172.5 - 175 - 177.5 and 180 mm. Cyclocross cotterless spindle. See measurements and indicate spindle size
- 745** Fixed cup. Indicate required thread
- 746** Adjustable cup. Indicate required thread
- 747** Lockring with normal 3,5 mm.

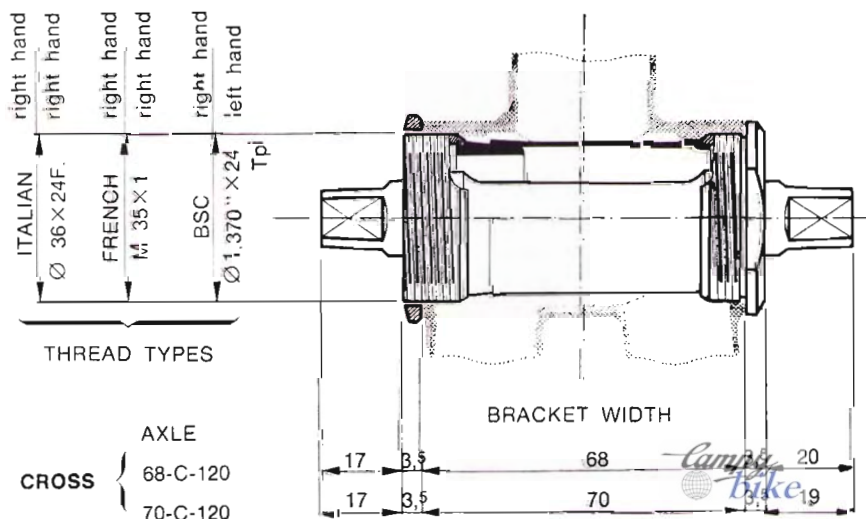
1048/4



1049/4



1046



Details of bracket number:

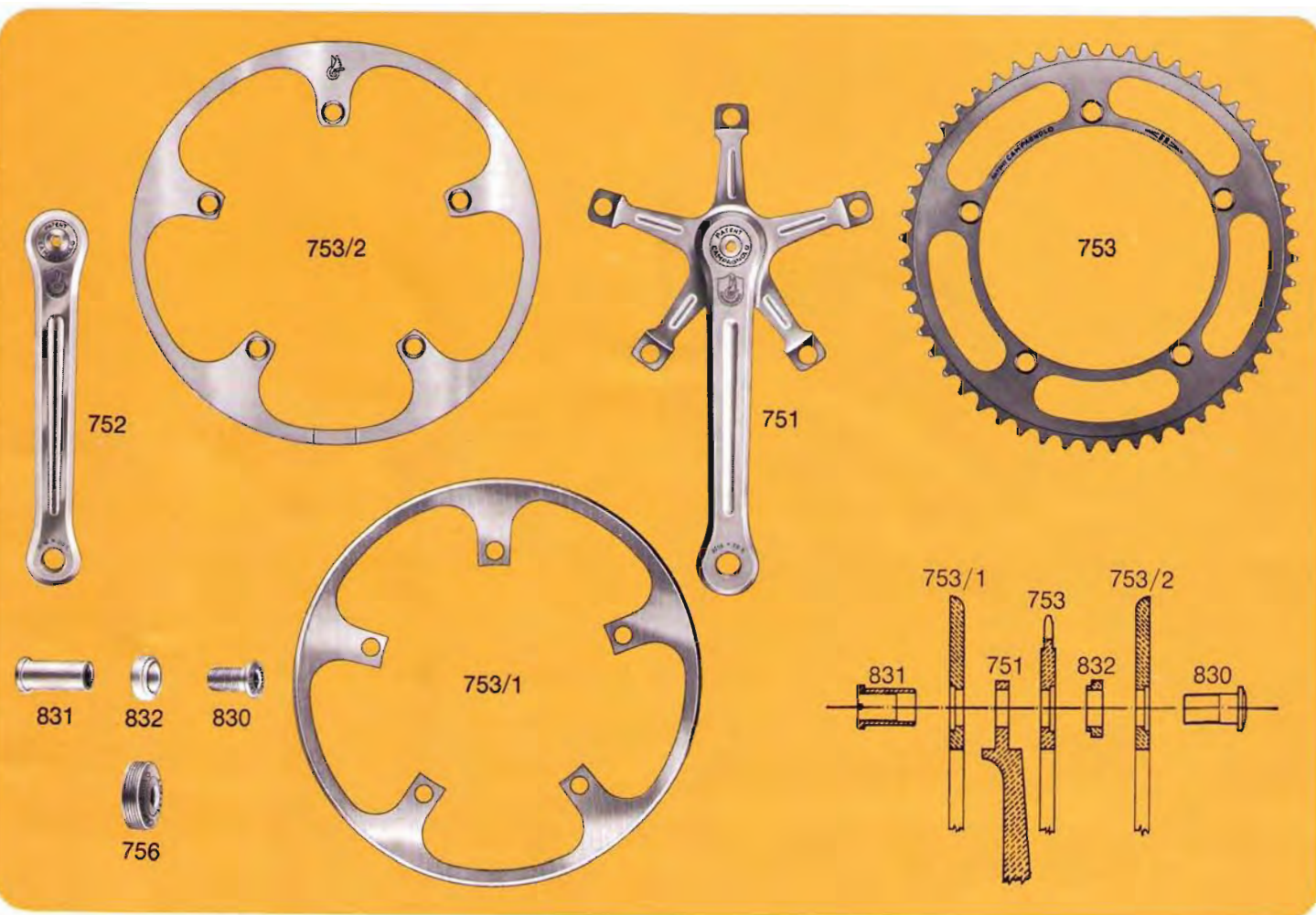
- The first number indicates the bracket width
- P indicates track
- SS indicates road
- C indicates cross
- Number 110 or 120 indicates the suggested width of the rear hub for a perfect chain alignment (see pages 92-93)

UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

748 thickness (available also with
749 4 mm. and 4,5 mm. thickness).
751 Indicate required thread
Fixing screw
Fixing washer
Right hand road crank
(complete with cover 756,
170 mm. long). Upon request
furnished in the following sizes:
165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long
Left hand road crank
(complete with cover 756,

170 mm. long). Upon request
furnished in the following sizes:
165 - 167,5 - 172,5 - 175 -
177,5 and 180 mm. long
Road chainring for 1/2" x 3/32"
(2 mm.) chain. Specify the
number of teeth available from
42T to 57T
753/1 Cyclocross inner flange.
Specify the required diameter.
Are furnished with Ø 186 mm. -
Ø 198 mm. - Ø 210 mm. and
Ø 222 mm.

753/2 Cyclocross outer flange.
Specify the required diameter.
Are furnished with Ø 186 mm. -
Ø 198 mm. - Ø 210 mm. and
Ø 222 mm.
756 Crank cover plate
830 Triple chainring and cyclocross
fixing bolt
831 Nut for bolt 830
832 Triple chainring and cyclocross
spacer
2100 Set (11+11) special Ø 1/4"
balls selected with 1/1000 of
mm. tolerance



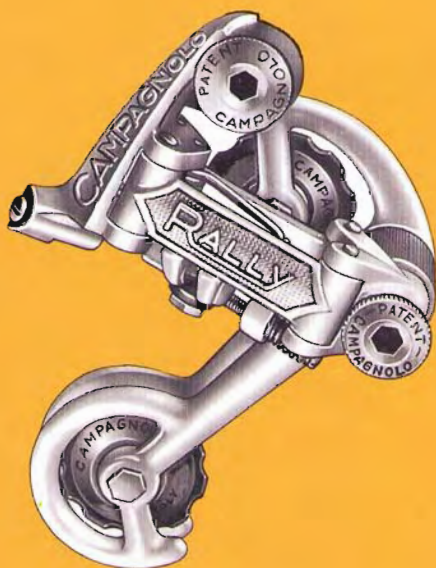
3450 CAMPAGNOLO RALLY GEAR FOR LARGE RATIOS

See spares on pages 58-59

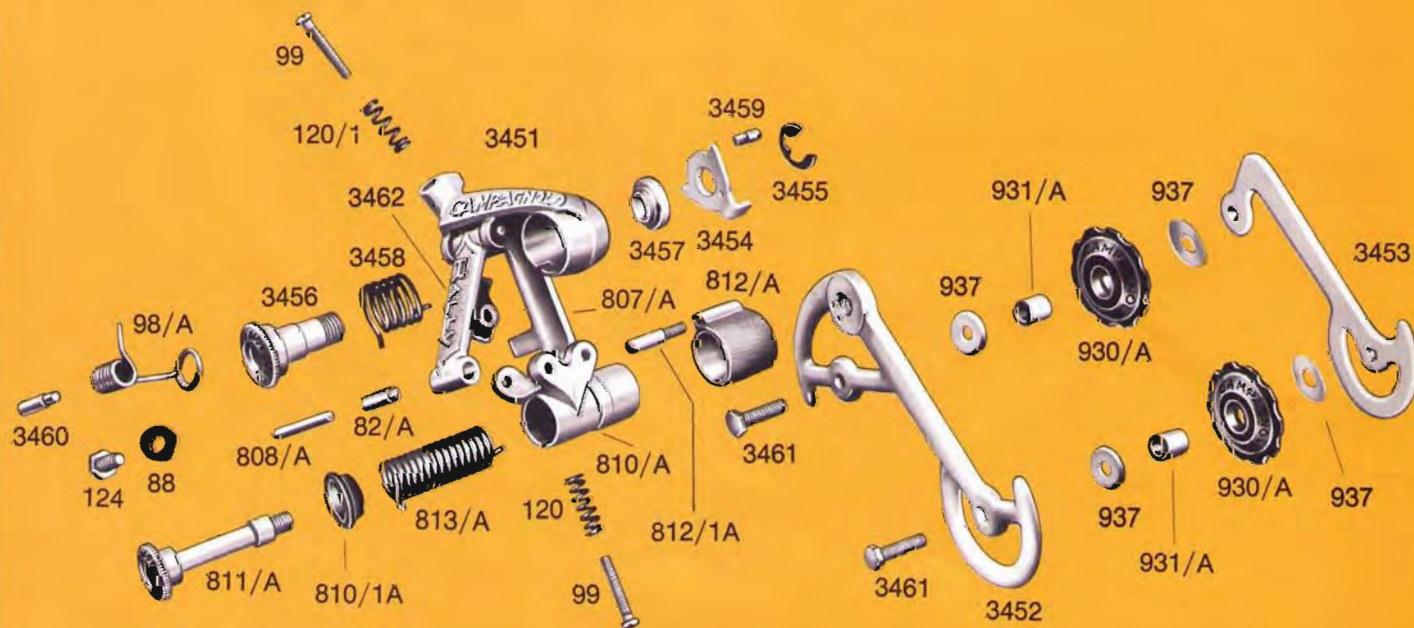
82/A	Body ferrule
88	Clamp washer
98/A	Gear return spring
99	Gear adjusting screw
120	Lower adjuster spring
120/1	Upper adjuster spring
124	Fixing screw
807/A	Inner arm
808/A	Spindle
810/A	Lower body
810/1A	Lower body bush
811/A	Gear spring bolt
812/A	Spring cage cover
812/1A	Grub screw
813/A	Tension spring

930/A	Roller
931/A	Roller bush
937	Roller dust cover
3451	Upper body
3452	Outer cage plate
3453	Inner cage plate
3454	Toothed washer
3455	Circlip
3456	Gear fixing screw
3457	Upper body bush
3458	Upper body spring
3459	Upper body grub
3460	Gear return screw
3461	Roller fixing screw
3462	Front arm

P.S. For the selection of levers see pages 34-45



3450





Campagnolo

CLIPS - GEAR HANGERS - FORK ENDS
SPROCKETS - SPECIAL GREASE - SCREWS AND NUTS
FOR SEAT PIN AND SUNDRIES

pages 80-81

CAMPAGNOLO VARIOUS SPARES

55	Spoke disc (specify if for 4 or 5 sprockets)	310	Sport left hand rear end
80/1	Gear fixing plate	311	Sport right hand rear end
80/2	Fixing plate for Super Record, Nuovo Record and Nuovo Gran Sport gears	312	Sport right and left hand fork ends
80/A	Fixing plate for Rally and Valentino Extra gears	609/1	Fixing clip bolt
124	Fixing screw	619	Outer casing ferrule
125	Clamp nut	620	Spindled ferrule
128/1	Rear fork end bolt	629	Twin handlebar control clip
171	Clip bolt	631	Clip-on-tunnel and stop with pump holder S/T
172	Nut for bolt 171	632	Pump holder
215	Cage spanner bolt	633	Clip with pump holder for 10-speed handlebar stops
217	Cage spacer bolt nut	647	Adaptor shim when fitting 632 to top tube 25 mm.



629

777

609/1



631

777

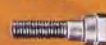
609/1



633

777

609/1



2045



619



620



652



647



649



171



172



648



215



217



632



215



217



2012/2

1010/1



310



311



312



312

1060



1061



1062



1063



128/1



80/1

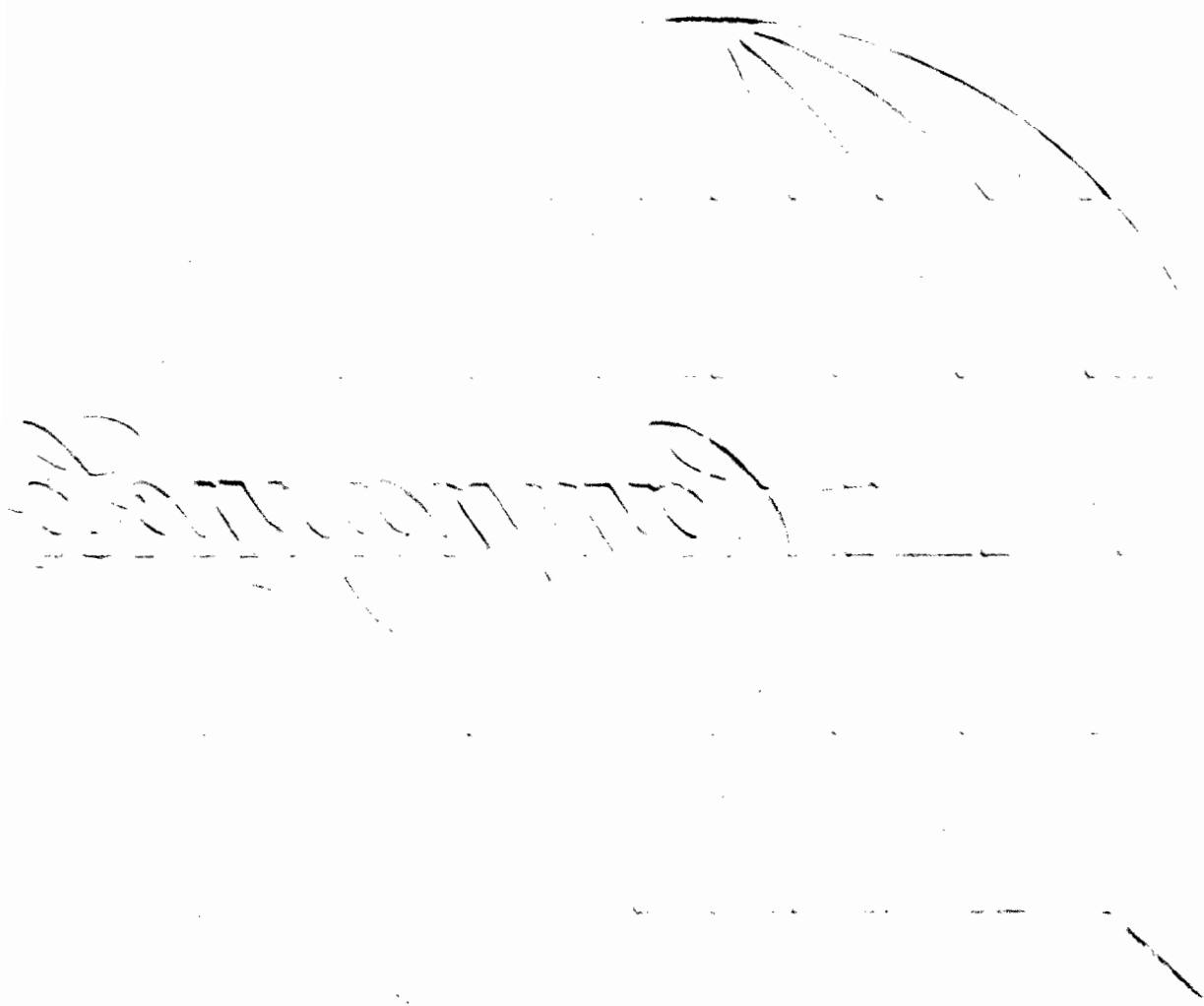
- 648 Pump peg holder
 649 Stainless steel brake cable clip
 651 Freewheel spacer
 (1 - 1,5 - 2 mm. thick)
 652 Safety cable
 763 Standard sprocket for 1/2" x 1/8"
 (3 mm.) chain (sprockets with
 12 - 13 - 14 - 15 - 16 teeth
 available). Upon request are
 furnished sprockets for chain
 1/2" x 3/32" (2 mm.).
 763/A Superlight sprocket for
 1/2" x 1/8" (3 mm.) chain
 (sprockets with 12 - 13 - 14 - 15 -
 16 teeth available).
 Upon request furnished

- 777 sprockets for chain 1/2" x 3/32"
 (2 mm.).
 914 Nut
 914 Clamp nut
 1010/1 Set Sport front and rear fork
 ends
 1060 Set Corsa front and rear fork
 ends
 1061 Corsa left hand rear fork ends
 1062 Corsa right hand rear fork ends
 1063 Corsa right and left hand fork
 ends
 1070 Screw and nut for fixing seat pin
 to frame (Ø 10)
 1071 Nut for fixing seat pin to frame
 (Ø 10)

- 1072 Screw and nut for fixing seat pin
 to frame (Ø 8)
 1073 Nut for fixing seat pin to frame
 (Ø 8)
 1074 Bolt for fixing seat pin to frame
 (Ø 8)
 1075 Bolt for fixing seat pin to frame
 Ø (10)
 2012/2 Rear brake center bolt
 2045 Brake outer casing ferrule
 2110 Record sleeve
 2110/1 Cone for sleeve
 3385 100 grs. tin special grease
 3386 500 grs. tin special grease
 3387 1 kg. tin special grease







TOOL CASES

pages 84-85-86-87-88

SPECIAL TOOLS AND BICYCLE
ASSEMBLING STAND

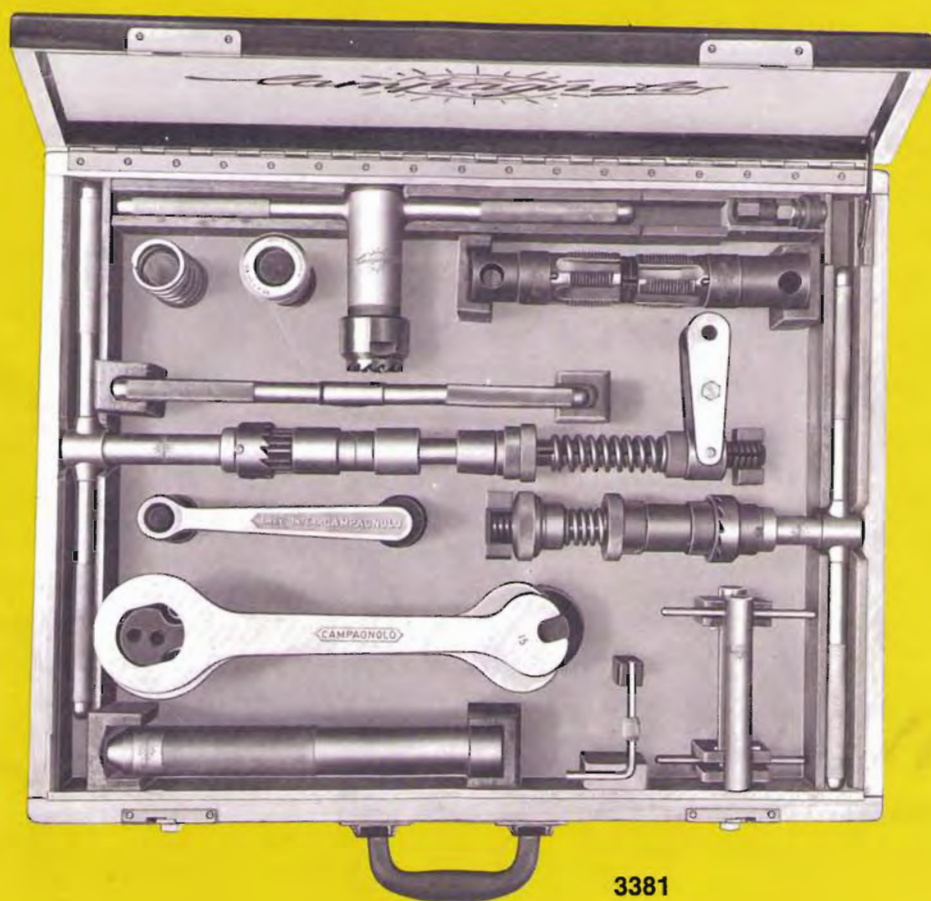
pages 88-89

A vertical ruler with a yellow cover and a white scale, showing measurements from 0 to 10 centimeters. The ruler is oriented vertically, with the 0 mark at the top and the 10 cm mark at the bottom. The scale is marked in centimeters, with millimeter increments indicated between the centimeter marks. The ruler is placed against a light-colored background.



3381 CAMPAGNOLO REDUCED TOOL CASE

(USED ONLY FOR THE FITTING OF HEAD SET AND BOTTOM BRACKET SET)



3381



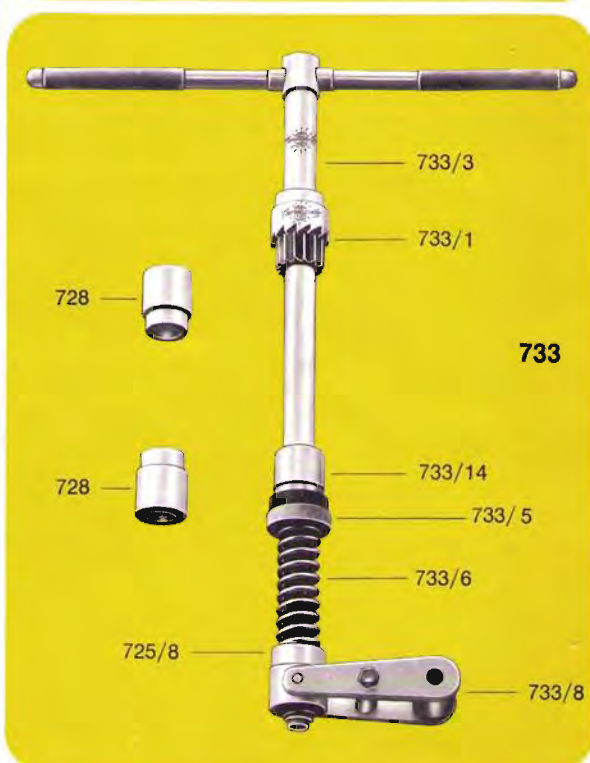
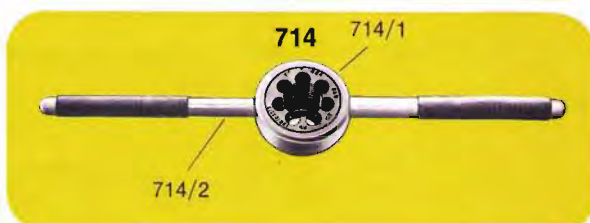
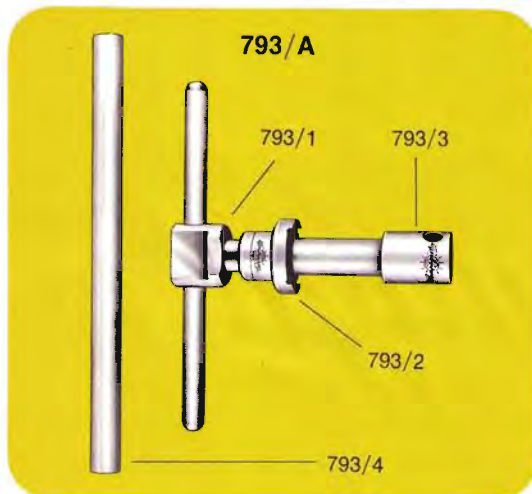
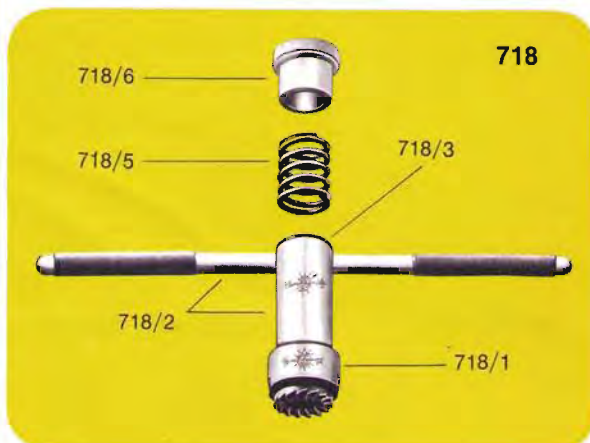
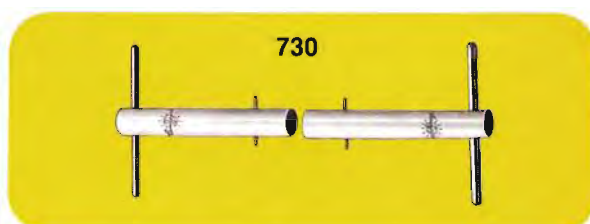
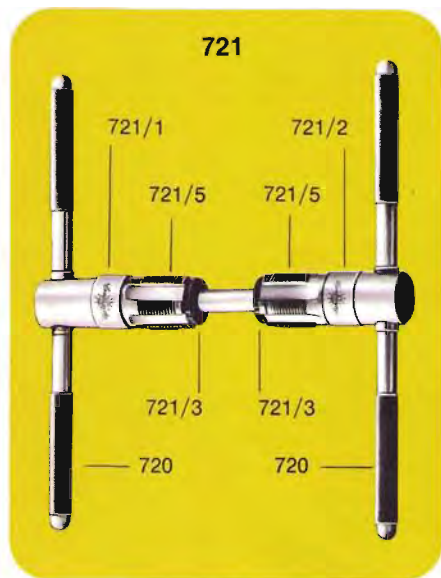
TOOLS CONTAINED IN TOOL CASES 3380 - 3381

P.S. ALL TOOLS MARKED WITH AN ASTERISK (*) ARE THOSE
CONTAINED IN THE REDUCED TOOL CASE 3381

- 712 * Bottom bracket locking tool
712/1 * Bottom bracket adjusting cup tool
712/2 * Spacing spring for 712/1
712/3 * Spacing spring for head set tool
713 * Bottom bracket fixed cup tool
714 * Fork column die (specify size of
threading), composed by:

- 714/1 Fork column die
(specify size of threading)
714/2 Die holder body
718 * Crown race cutter, composed by:
718/1 * Crown race mill
718/2 * Cutter holder with rotation lever
718/3 * Guide ring
718/5 * Tension spring

- 718/6 * Threaded locking
(specify size of threading)
719 Brush
721 * Bottom bracket double tap
(specify size of threading)
composed by:
720 * Rotation lever
721/1 * Tap body with stem
721/2 * Tap body with stem guide hole
721/3 * Tap locking nut
721/5 * Spare tap (specify size of
threading)
722 * Headset cup punch
723 Headset cup remover
725 * Bottom bracket face cutter,
composed by:

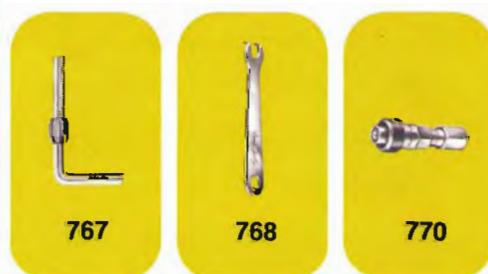
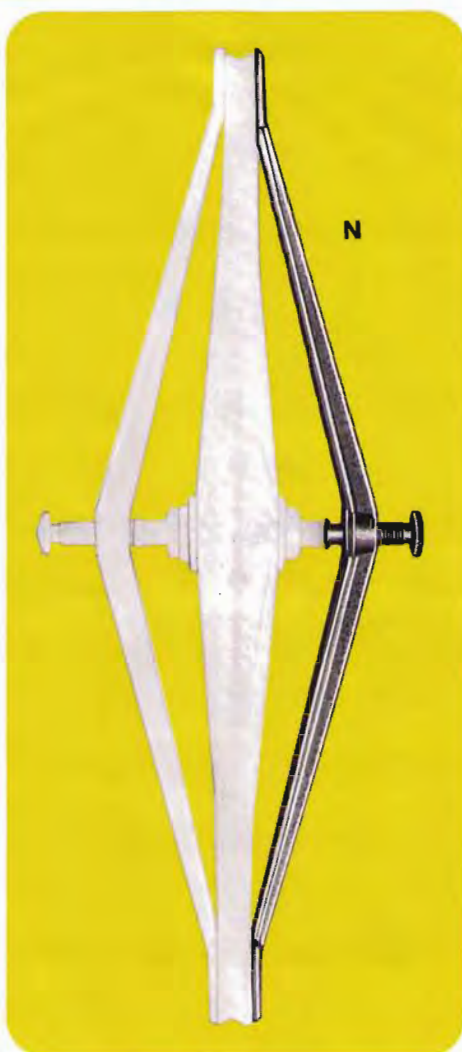
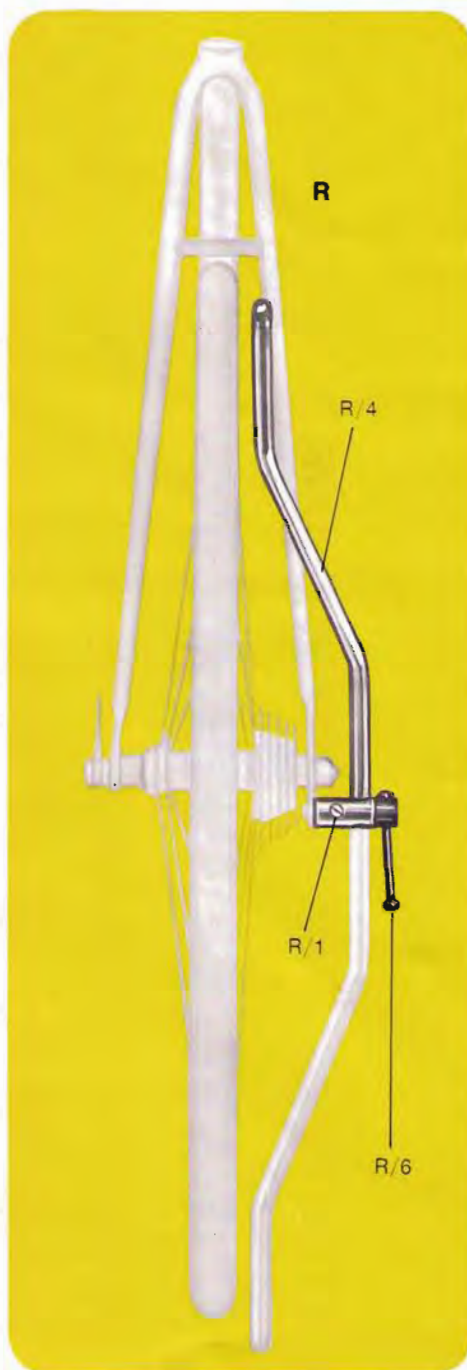
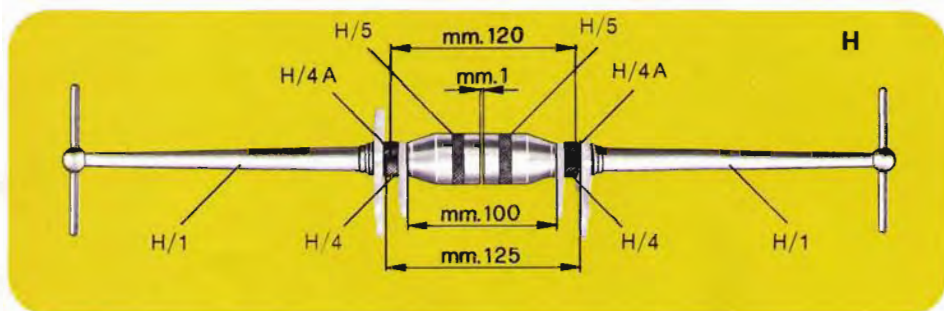


- 724/1 * Inner threaded guide sleeve for cutter 725 (specify size of threading)
- 724/2 * Outer threaded guide sleeve for cutter 725 (specify size of threading)
- 725/1 * Mill
- 725/2 * Cutter holder stem with rotation lever
- 725/3 * Tension spring
- 725/4 * Washer
- 725/7 * Threaded lockring
- 725/8 * Toothed washer
- 729 * Fork crown race remover
- 730 * Set of keys for sleeve 724/1 and 724/2

- 731 Headset jig
- 732 Fork crown jig
- 733 * Head race mill, composed by:
- 725/8 * Toothed washer
- 728 * Sleeve for art. 733
- 733/1 * Head race mill
- 733/3 * Cutter holder with rotation lever
- 733/5 * Washer
- 733/6 * Tension spring
- 733/8 * Lockring stirrup
- 733/14 * Centraliser sleeve
- 767 * « L » shaped chainwheel screw alley key - 5 mm.
- 768 Chainwheel screw peg spanner
- 769 * Cotterless b/b axle spanner
- 770 * Cotterless crank extractor

- 793/A Right hand bottom bracket tool, composed by:
- 793/1 Tool holder body with rotation lever
- 793/2 36 mm. tool
- 793/3 Cutter sleeve
- 793/4 Tube for rotation tool
- G Straight edge for the alignment of the rudder pedals
- H Back stay tool for the perfect alignment of forks and fork ends, composed by:
- H/1 Stem with lever
- H/4 Spacer for 120 mm. width
- H/4A Additional spacer for 125 mm. width (to match with spacer H/4)
- H/5 Cup
- I 14t. freewheel tool, composed by:
- I/2 Ring nut lever holder
- 704 Insert for freewheel removing tool fig. I
- 704/1 Reducing insert tool fig. I for 13t. freewheel.
(This tool is furnished only upon specific request)
- N Wheel dish tool for checking the centering of the rim to the locknuts of hubs
- R Back stay tool for checking the hanger of the right hand fork end, composed by:
- R/1 Screw
- R/4 Rotating rod
- R/6 Spindle with lever

(follows at page 88)



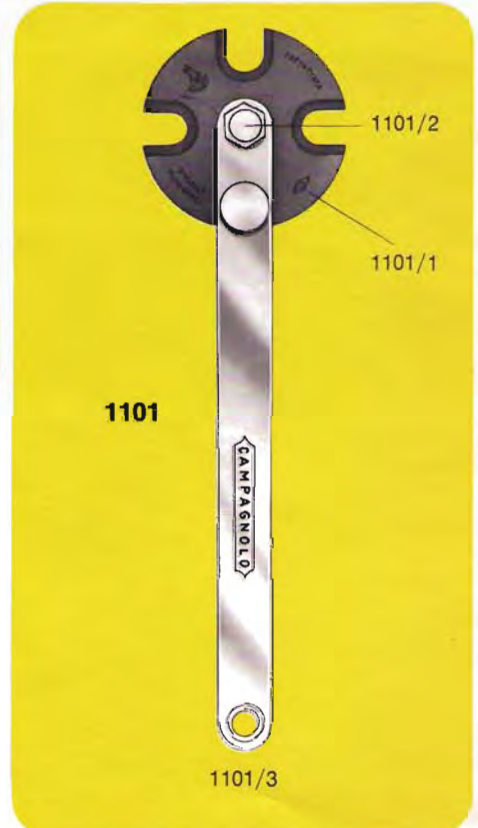
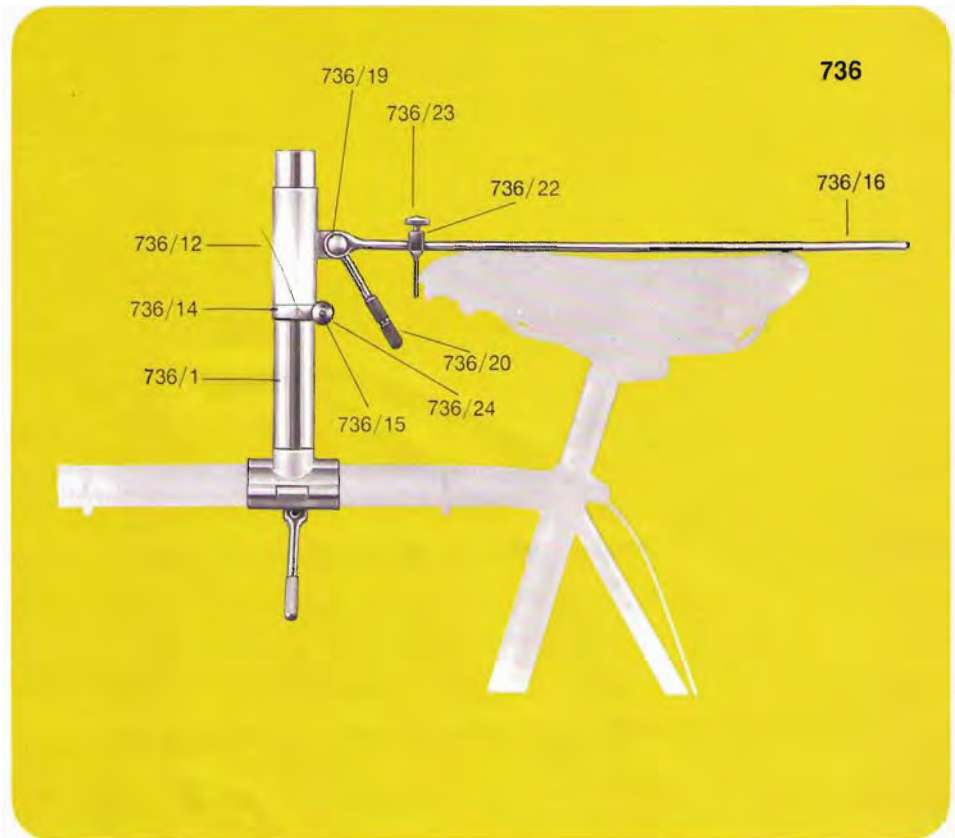
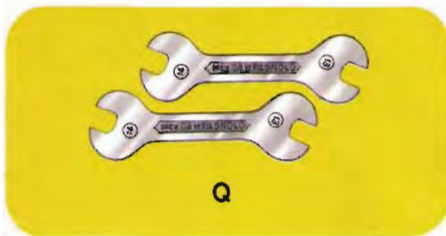
(continues from page 87)

- 143/2 T wrench 6-8 mm.
 710 Pedal wrench
 771 Saddle spanner
 2025 Special brake spanner
 P Axle holding tool
 Q Set of tools for cones and locknuts (13-14 mm.).
 Upon request the set is furnished with tools 15-16 mm.

CAMPAGNOLO SPECIAL TOOLS

NON CONTAINED IN TOOL CASES 3380 - 3381

- | | | | |
|-------|--|--------|------------------------------|
| 705 | Pedal tap right hand
Ø 9/16" x 20F. thread | 736/12 | Sliding rod holder |
| 706 | Pedal tap left hand
Ø 9/16" x 20F. thread | 736/14 | Sliding adjusting clip |
| 707 | Gear hanger tap Ø 10 x 26F. thread | 736/15 | Clip fixing screw |
| 708 | Mudguard eye tap M5 x 0,8 | 736/16 | Saddle positioning rod |
| 709 | Rear end adjuster tap M3 x 0,5 | 736/19 | Rod locking screw |
| 736 | Alignment to maintain in position the saddle when replacing the seat pin and the pin, composed by: | 736/20 | Rod quick release lever |
| | | 736/22 | Saddle positioning plate |
| | | 736/23 | Plate quick release screw |
| | | 736/24 | Clip locking stirrup |
| | | 1101 | Pedal spanner, composed by: |
| | | 1101/1 | Multiple head (15-16-17 mm.) |
| | | 1101/2 | Head locking screw |
| 736/1 | Stanchion with hinge | 1101/3 | Multiple tool lever |

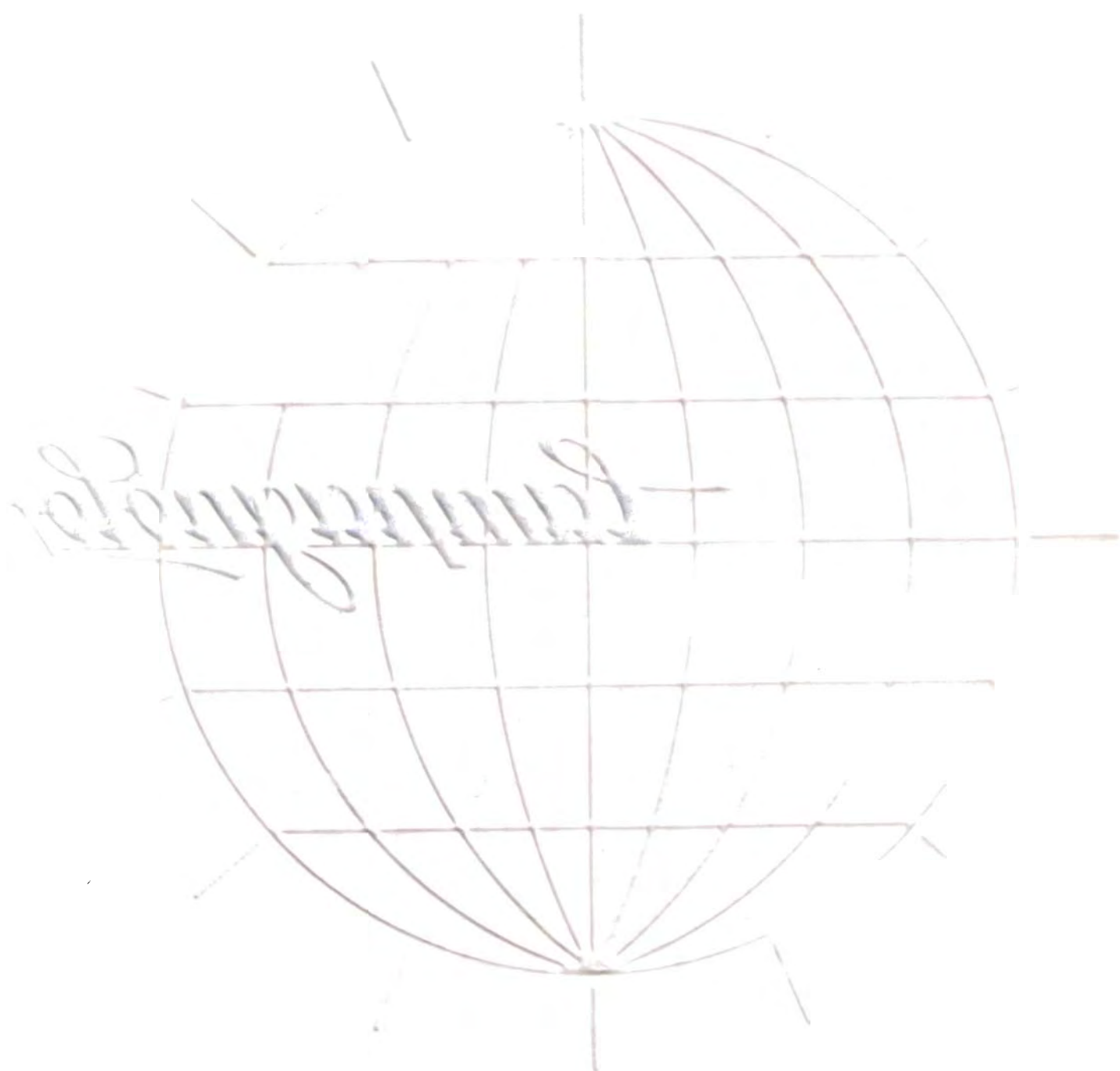


1102 CAMPAGNOLO BICYCLE ASSEMBLING STAND





Campagnolo



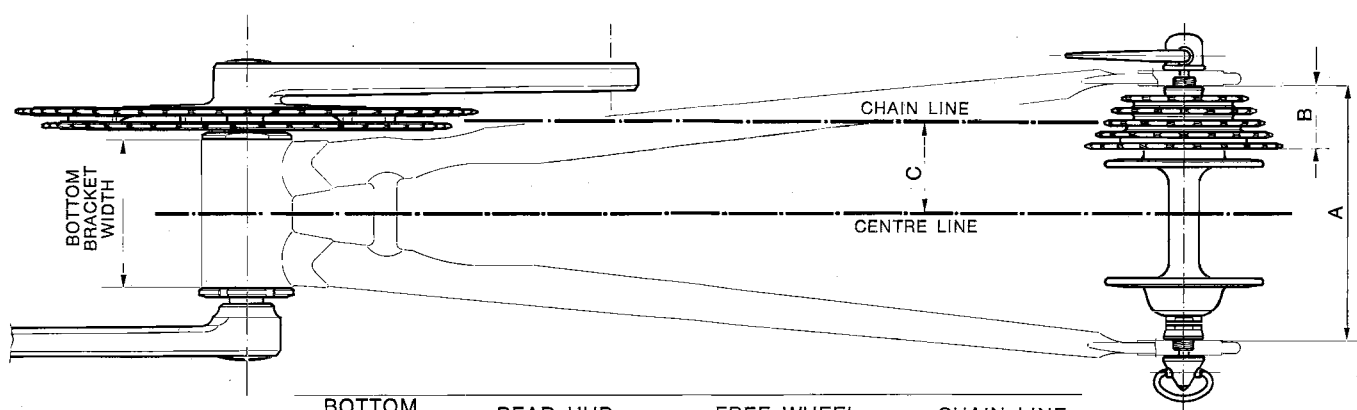
CHAIN LINES

pages 92-93

GEAR RATIO TABLES

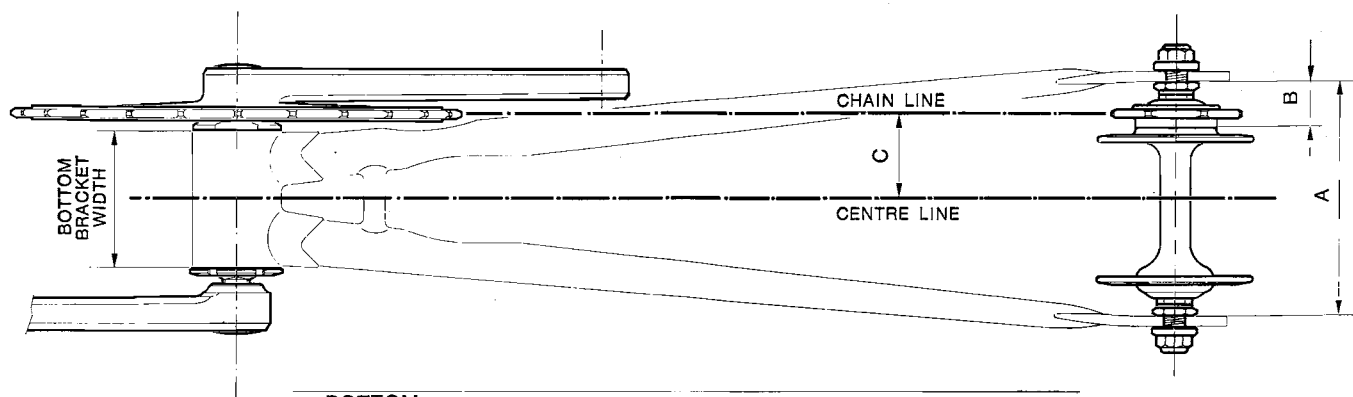
pages 94-95-96

ROAD CHAIN LINE



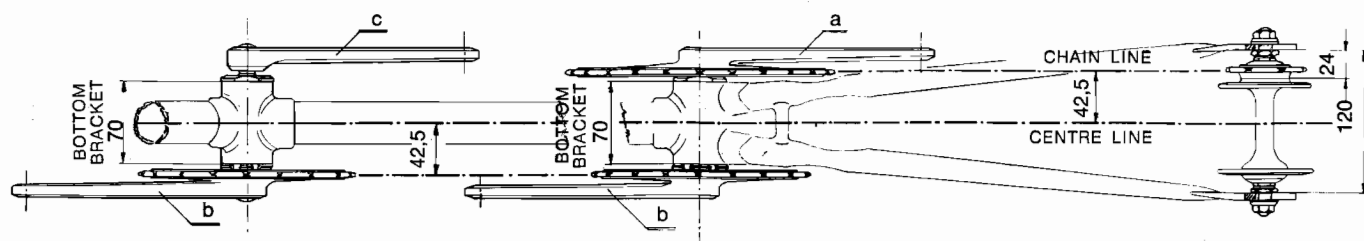
BOTTOM BRACKET WIDTH	REAR HUB WIDTH « A »	FREE WHEEL WIDTH « B »	CHAIN LINE « C »
68	120	29	43,5
70	120	29	43,5
74	120	29	43,5

TRACK CHAIN LINE



BOTTOM BRACKET WIDTH	REAR HUB WIDTH « A »	SPROCKET WIDTH « B »	CHAIN LINE « C »
65	110	21.5	40
68	110	21.5	40
68	120	24	42,5
70	120	24	42,5

TANDEM CHAIN LINE



- a** TRACK RIGHT HAND STANDARD CRANK
- b** TRACK RIGHT HAND CRANK WITH LEFT HAND THREAD
- c** TRACK LEFT HAND CRANK WITH RIGHT HAND THREAD

GEAR TABLES

Development in metres for a complete turn of cranks

$$\text{Ratio} = \frac{\text{Number of teeth on chainring}}{\text{Number of teeth on sprocket}} \times \text{diameter of wheel 670}$$

Number of teeth on sprocket	Number of teeth on chainring														
	6		7		8		9		10		11		12		13
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
20 o 40	7,01	6,47	6,01	5,61	5,26	4,95	4,67	4,42	4,20	4,00	3,82	3,66	3,50	3,36	3,23
41	7,19	6,63	6,16	5,75	5,39	5,07	4,79	4,53	4,31	4,10	3,92	3,75	3,59	3,44	3,31
21 o 42	7,36	6,79	6,31	5,89	5,52	5,19	4,90	4,65	4,41	4,20	4,01	3,84	3,68	3,53	3,39
43	7,54	6,96	6,46	6,03	5,65	5,32	5,02	4,76	4,52	4,30	4,11	3,93	3,77	3,61	3,47
22 o 44	7,71	7,12	6,61	6,17	5,78	5,44	5,14	4,87	4,63	4,40	4,20	4,02	3,85	3,70	3,56
45	7,89	7,28	6,76	6,31	5,91	5,57	5,26	4,98	4,73	4,50	4,30	4,11	3,94	3,78	3,64
23 o 46	8,06	7,44	6,91	6,45	6,04	5,69	5,37	5,09	4,84	4,60	4,39	4,21	4,03	3,86	3,72
47	8,24	7,60	7,06	6,59	6,18	5,81	5,49	5,20	4,94	4,70	4,49	4,30	4,12	3,95	3,80
24 o 48	8,42	7,77	7,21	6,73	6,31	5,94	5,61	5,31	5,05	4,80	4,59	4,39	4,20	4,03	3,88
49	8,59	7,93	7,36	6,87	6,44	6,06	5,72	5,42	5,15	4,91	4,68	4,48	4,29	4,12	3,96
25 o 50	8,77	8,09	7,51	7,01	6,57	6,19	5,84	5,53	5,26	5,01	4,78	4,57	4,38	4,20	4,04
51	8,94	8,25	7,66	7,15	6,70	6,31	5,96	5,64	5,36	5,11	4,87	4,66	4,47	4,28	4,12
26 o 52	9,12	8,41	7,81	7,29	6,83	6,43	6,07	5,75	5,47	5,21	4,97	4,75	4,56	4,37	4,20
53	9,29	8,58	7,96	7,43	6,96	6,56	6,19	5,86	5,57	5,31	5,06	4,84	4,62	4,45	4,28
27 o 54	9,47	8,74	8,11	7,57	7,10	6,68	6,31	5,97	5,68	5,41	5,16	4,94	4,73	4,54	4,36
55	9,64	8,90	8,26	7,71	7,23	6,80	6,42	6,08	5,78	5,51	5,25	5,03	4,82	4,62	4,45
28 o 56	9,82	9,06	8,41	7,85	7,36	6,93	6,54	6,19	5,89	5,61	5,35	5,12	4,91	4,70	4,53

$$\text{Ratio} = \frac{\text{Number of teeth on chainring}}{\text{Number of teeth on sprocket}} \times \text{diameter of wheel 680}$$

Number of teeth on sprocket	Number of teeth on chainring														
	6		7		8		9		10		11		12		13
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
20 o 40	7,12	6,57	6,10	5,69	5,34	5,02	4,74	4,50	4,27	4,07	3,88	3,71	3,56	3,42	3,28
41	7,30	6,73	6,25	5,84	5,47	5,15	4,86	4,60	4,37	4,17	3,98	3,80	3,64	3,50	3,36
21 o 42	7,47	6,90	6,40	5,98	5,60	5,27	4,98	4,72	4,48	4,27	4,07	3,90	3,73	3,58	3,45
43	7,65	7,06	6,56	6,12	5,74	5,40	5,10	4,83	4,59	4,37	4,17	3,99	3,82	3,67	3,53
22 o 44	7,83	7,23	6,71	6,26	5,87	5,52	5,22	4,94	4,70	4,47	4,27	4,08	3,91	3,76	3,61
45	8,01	7,39	6,86	6,40	6,00	5,65	5,34	5,05	4,80	4,57	4,37	4,18	4,00	3,84	3,69
23 o 46	8,18	7,55	7,01	6,55	6,14	5,78	5,45	5,17	4,91	4,67	4,46	4,27	4,09	3,93	3,78
47	8,36	7,72	7,17	6,69	6,27	5,90	5,57	5,28	5,02	4,78	4,56	4,36	4,18	4,01	3,86
24 o 48	8,54	7,88	7,32	6,83	6,40	6,03	5,69	5,39	5,12	4,88	4,66	4,45	4,27	4,10	3,94
49	8,72	8,05	7,47	6,97	6,54	6,15	5,81	5,50	5,23	4,98	4,75	4,55	4,36	4,18	4,02
25 o 50	8,90	8,21	7,63	7,12	6,67	6,28	5,93	5,62	5,34	5,08	4,85	4,64	4,45	4,27	4,10
51	9,07	8,38	7,78	7,26	6,81	6,40	6,05	5,73	5,44	5,18	4,95	4,73	4,54	4,35	4,19
26 o 52	9,25	8,54	7,93	7,40	6,94	6,53	6,17	5,84	5,55	5,29	5,04	4,83	4,62	4,44	4,27
53	9,43	8,70	8,08	7,54	7,07	6,66	6,29	5,95	5,66	5,39	5,14	4,92	4,71	4,52	4,35
27 o 54	9,61	8,87	8,23	7,69	7,20	6,78	6,40	6,07	5,76	5,49	5,24	5,01	4,80	4,61	4,43
55	9,79	9,03	8,36	7,81	7,31	6,87	6,49	6,16	5,83	5,59	5,33	5,10	4,89	4,69	4,51
28 o 56	9,97	9,20	8,54	7,97	7,47	7,03	6,64	6,29	5,98	5,69	5,43	5,20	4,98	4,78	4,60

$$\text{Ratio} = \frac{\text{Number of teeth on chainring}}{\text{Number of teeth on sprocket}} \times \text{diameter of wheel 690}$$

Number of teeth on sprocket	Number of teeth on chainring															
	6		7		8		9		10		11		12		13	
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
20 o 40	7,22	6,67	6,19	5,78	5,41	5,09	4,81	4,56	4,33	4,12	3,94	3,76	3,61	3,46	3,33	
41	7,40	6,83	6,34	5,92	5,55	5,22	4,93	4,67	4,44	4,23	4,03	3,86	3,70	3,55	3,41	
21 o 42	7,58	7,00	6,50	6,07	5,68	5,35	5,05	4,79	4,54	4,33	4,13	3,95	3,79	3,64	3,49	
43	7,76	7,16	6,65	6,21	5,82	5,47	5,17	4,90	4,65	4,43	4,23	4,05	3,88	3,72	3,58	
22 o 44	7,94	7,33	6,81	6,35	5,95	5,60	5,29	5,01	4,76	4,54	4,33	4,14	3,97	3,81	3,66	
45	8,12	7,50	6,96	6,50	6,09	5,73	5,41	5,13	4,87	4,64	4,43	4,24	4,06	3,90	3,74	
23 o 46	8,31	7,67	7,12	6,64	6,22	5,86	5,53	5,24	4,98	4,74	4,53	4,33	4,15	3,98	3,83	
47	8,49	7,83	7,27	6,79	6,36	5,98	5,65	5,35	5,09	4,85	4,63	4,42	4,24	4,07	3,91	
24 o 48	8,67	8,00	7,43	6,93	6,49	6,11	5,78	5,47	5,20	4,95	4,72	4,52	4,33	4,16	3,99	
49	8,85	8,16	7,58	7,08	6,63	6,24	5,90	5,58	5,30	5,05	4,82	4,61	4,42	4,24	4,08	
25 o 50	9,03	8,33	7,74	7,22	6,76	6,37	6,02	5,70	5,41	5,16	4,92	4,71	4,51	4,33	4,16	
51	9,21	8,50	7,89	7,37	6,90	6,50	6,14	5,81	5,52	5,26	5,02	4,80	4,60	4,42	4,24	
26 o 52	9,39	8,66	8,05	7,51	7,03	6,62	6,26	5,92	5,63	5,36	5,12	4,89	4,69	4,50	4,33	
53	9,57	8,83	8,20	7,65	7,17	6,75	6,38	6,04	5,74	5,47	5,22	4,99	4,78	4,59	4,41	
27 o 54	9,75	9,00	8,35	7,80	7,30	6,88	6,50	6,15	5,85	5,57	5,31	5,08	4,87	4,68	4,49	
55	9,93	9,16	8,51	79,4	7,44	7,00	6,62	6,27	5,95	5,67	5,41	5,18	4,96	4,76	4,58	
28 o 56	10,11	9,33	8,66	8,09	7,57	7,13	6,74	6,38	6,06	5,77	5,51	5,27	5,05	4,85	4,66	

GEAR TABLE 27" WHEELS

	36	38	40	42	44	45	46	47	48	49	50	51	52	54
12	81.0	85.5	90.0	94.5	99.0	101.2	103.5	105.0	108.0	110.3	112.5	114.7	117.0	121.5
13	74.7	78.9	83.1	87.2	91.4	93.4	95.5	97.6	99.7	101.8	103.8	105.9	108.0	112.1
14	69.4	73.3	77.1	81.0	84.8	86.7	88.7	90.6	92.6	94.5	96.4	98.3	100.3	104.1
15	64.8	68.4	72.0	75.6	79.2	80.9	82.8	84.6	86.4	88.2	90.0	91.8	93.6	97.2
16	60.8	64.1	67.5	70.9	74.2	76.0	77.6	79.3	81.0	82.7	84.4	86.1	87.7	91.1
17	57.2	60.3	63.5	66.7	69.9	71.5	73.0	74.6	76.2	77.8	79.4	81.0	82.6	85.7
18	54.0	57.0	60.0	63.0	66.0	67.5	69.0	70.5	72.0	73.5	75.0	76.5	78.0	81.0
19	51.2	54.0	56.8	59.7	62.5	64.0	65.4	66.8	68.2	69.6	71.0	72.5	73.9	76.7
20	48.6	51.3	54.0	56.7	59.4	60.8	62.1	63.4	64.8	66.1	67.5	68.8	70.2	72.9
21	46.3	48.9	51.4	54.0	56.6	57.9	59.1	60.4	61.7	63.0	64.3	65.5	66.8	69.4
22	44.2	46.6	49.1	51.5	54.0	55.2	56.4	57.7	58.9	60.1	61.4	62.6	63.8	66.2
23	42.3	44.6	47.0	49.3	51.6	52.8	54.0	55.2	56.3	57.5	58.7	59.9	61.0	63.4
24	40.5	42.7	45.0	47.2	49.5	50.7	51.7	52.9	54.0	55.1	56.2	57.3	58.5	60.7
25	38.9	41.1	43.2	45.4	47.5	48.6	49.7	50.8	51.8	52.9	54.0	55.1	56.2	58.3
26	37.4	39.5	41.5	43.6	45.7	46.7	47.8	48.8	49.8	50.9	51.9	53.7	54.0	56.1

GEAR RATIOS NOT SHOWN ABOVE MAY BE CALCULATED AS FOLLOWS

$$\text{GEAR} = \frac{\text{Number of teeth on C/ring} \times \text{Diameter of rear wheel in inches}}{\text{Number of teeth on Sprocket}}$$

TRACK GEAR TABLES

◆ Development in metres for a complete turn of cranks.

● Gear = $\frac{\text{number of teeth on chainring}}{\text{number of teeth on sprocket}} \times \text{diameter rear wheel in inches.}$

Number of teeth on sprocket	Number of teeth on chainring															
	28	29	30	31	32	33	34	35	55	56	57	58	59	60	61	62
6 o 12	m. 9,87	m. 10,04	m. 10,22	m. 10,40	m. 10,58	m. 10,76	m. 10,94	m. 11,12	m. 11,30	m. 11,48	m. 11,66	m. 11,84	m. 12,02	m. 12,20	m. 12,38	m. 12,56
	123.7	126.0	128.2	130.5	132.7	135.0	137.2	139.5	141.7	144.0	146.2	148.5	150.7	153.0	155.2	157.5
13	m. 9,11	m. 9,27	m. 9,44	m. 9,60	m. 9,77	m. 9,93	m. 10,10	m. 10,27	m. 10,43	m. 10,60	m. 10,76	m. 10,93	m. 11,09	m. 11,26	m. 11,43	m. 11,60
	114.2	116.3	118.4	120.5	122.5	124.6	126.7	128.8	130.8	132.9	135.0	137.1	139.1	141.2	143.3	145.4
7 o 14	m. 8,46	m. 8,61	m. 8,76	m. 8,92	m. 9,07	m. 9,22	m. 9,38	m. 9,53	m. 9,69	m. 9,84	m. 9,99	m. 10,15	m. 10,30	m. 10,46	m. 10,61	m. 10,76
	106.0	108.0	109.9	111.8	113.8	115.7	117.6	119.5	121.5	123.4	125.3	127.3	129.2	131.1	133.0	135.0
15	m. 7,89	m. 8,04	m. 8,18	m. 8,32	m. 8,47	m. 8,61	m. 8,75	m. 8,90	m. 9,04	m. 9,19	m. 9,33	m. 9,47	m. 9,62	m. 9,76	m. 9,90	m. 10,05
	99.0	100.8	102.6	104.4	106.2	108.0	109.8	111.6	113.4	115.2	117.0	118.8	120.6	122.4	124.2	126.0
8 o 16	m. 7,40	m. 7,53	m. 7,67	m. 7,80	m. 7,94	m. 8,07	m. 8,21	m. 8,34	m. 8,48	m. 8,61	m. 8,75	m. 8,88	m. 9,02	m. 9,15	m. 9,28	m. 9,42
	92.8	94.5	96.2	97.9	99.5	101.2	102.9	104.6	106.3	108.0	109.7	111.4	113.0	114.7	116.4	118.1

