catalogue n.17



S.p.A. Brevetti Internazionali CAMPAGNOLO
36100 VICENZA - ITALY
Fully paid-up Company's capital Lit. 1.100.000.000
Corso Padova 168
P.O. Box No. 822
phone: 500055 (8 lines)
telex: 48074 CAMPA
Registration number of Vicenza's Court 4265

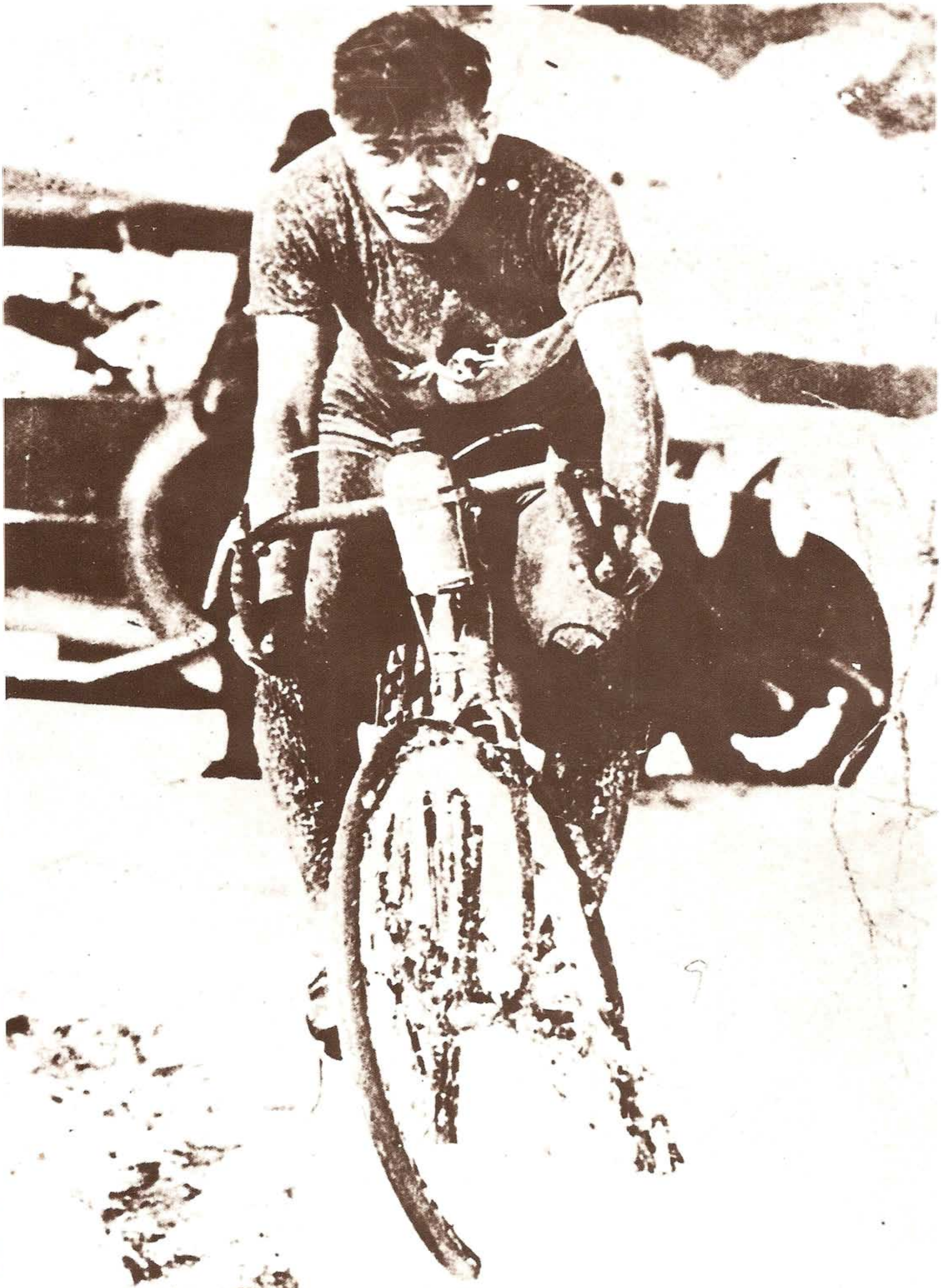
Brevetti Internazionali Campagnolo is identified with its founder, the current President and Managing Director - Tullio Campagnolo.

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.

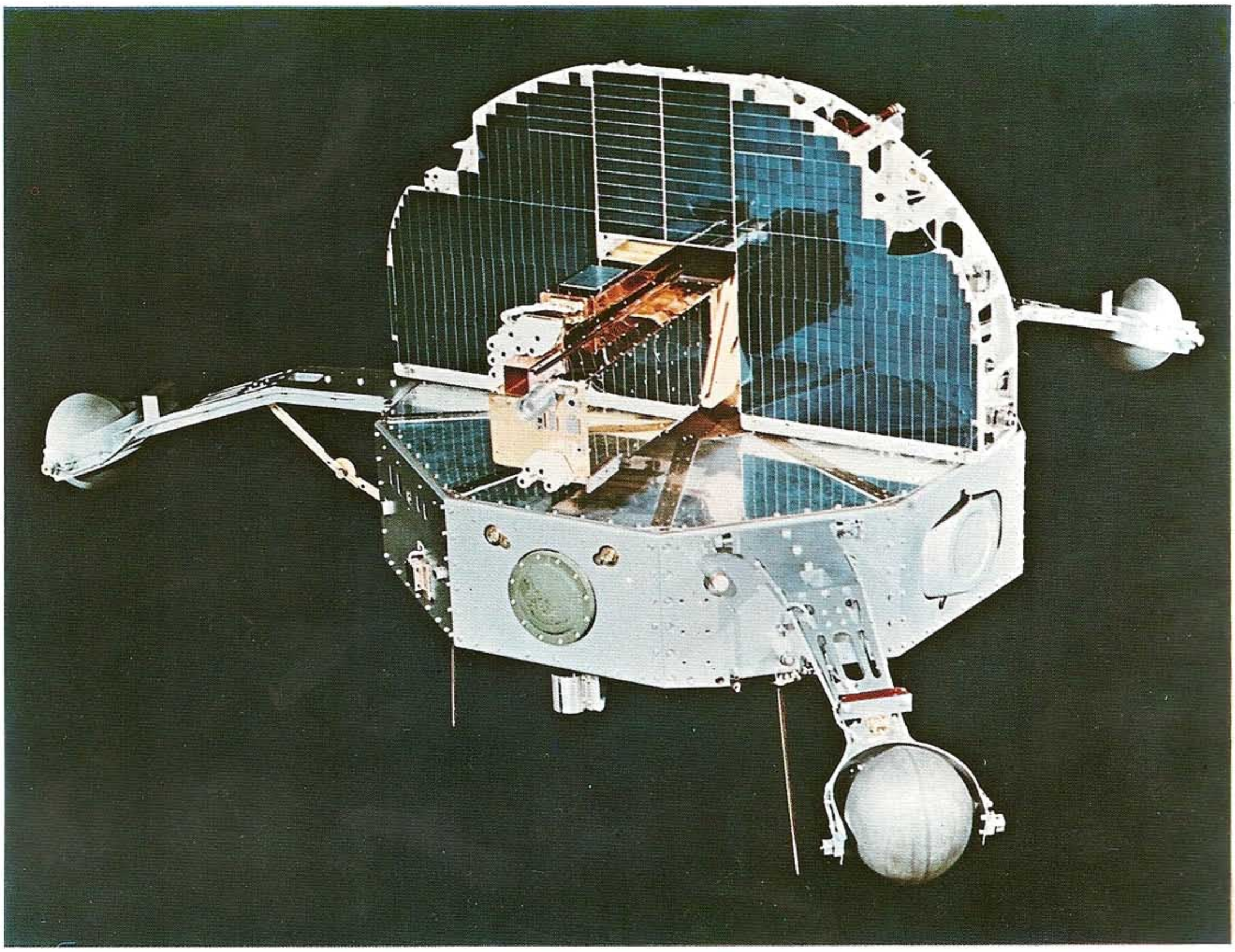
A clever and imaginative engineer - Campagnolo begins to produce and patent a series of prototypes of cycle accessories which will eventually make him famous throughout the world.

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.



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.



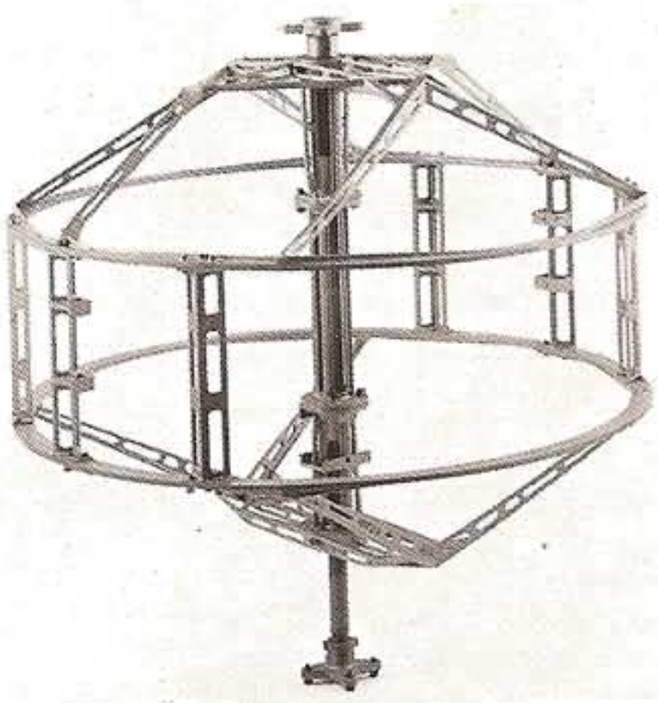


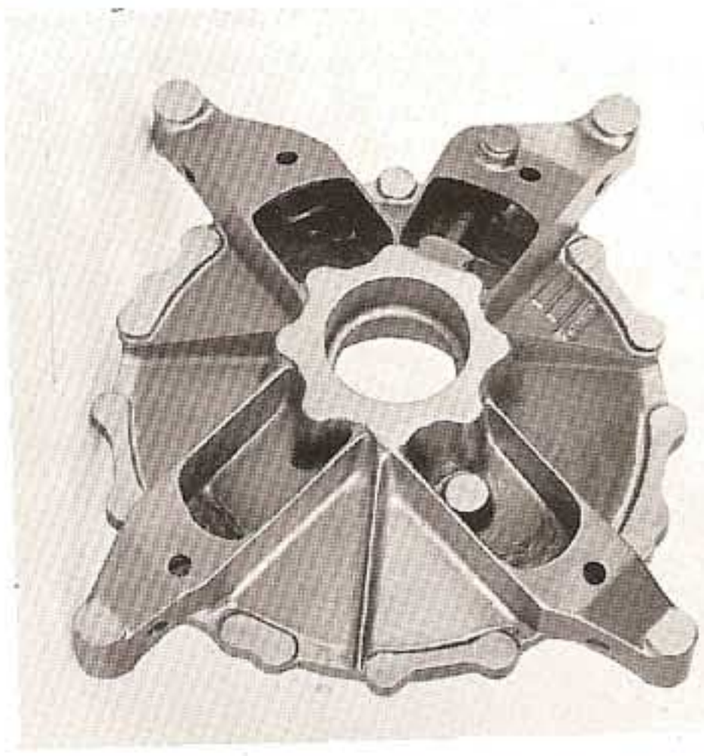


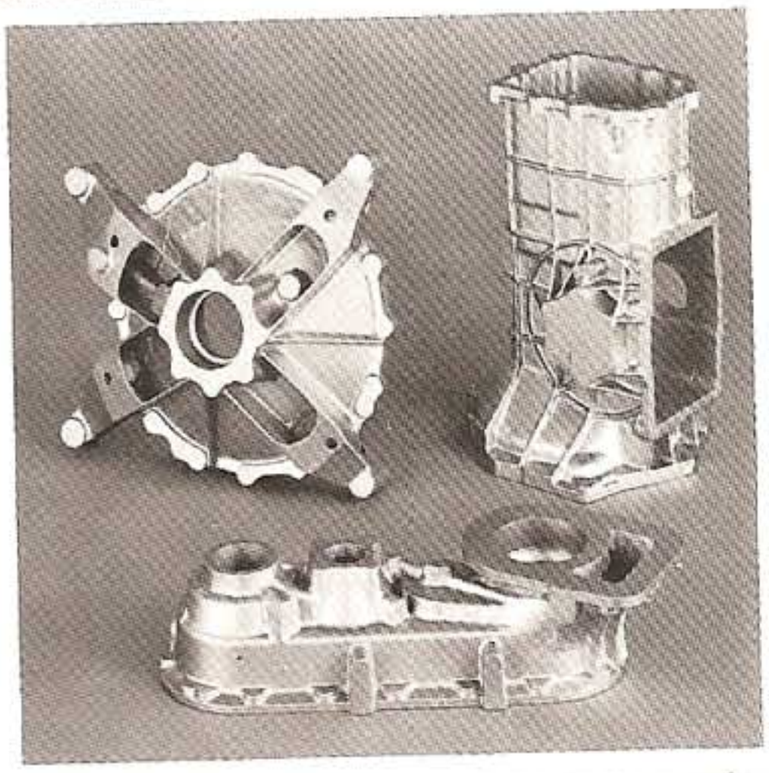
Campagnolo produces for :

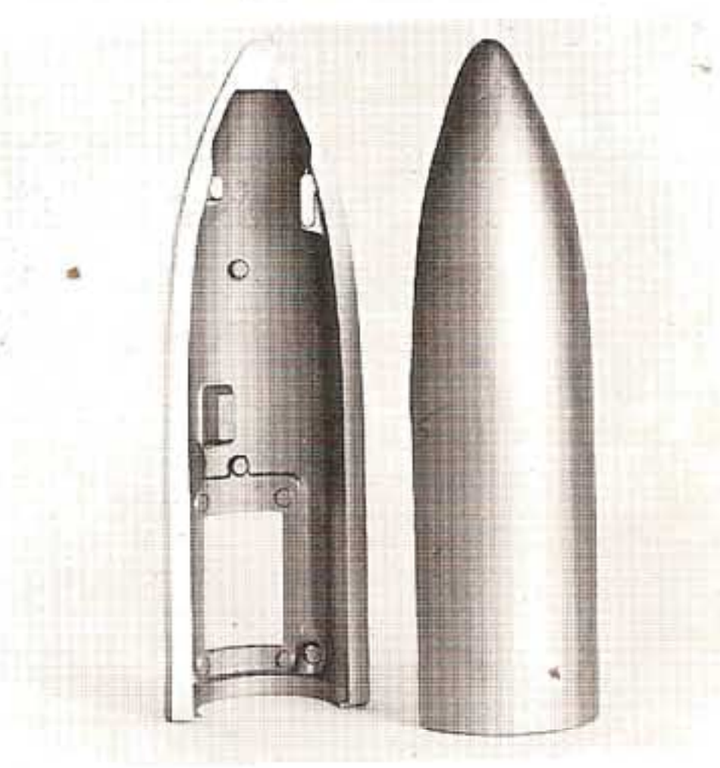
The Aviation and Aerospace Industry components for aeroplanes, helicopters, scientific research rockets, sounding baloons, satellites... etc...
It is this a field wherein a few highly qualified companies only may operate, able to guarantee the highest degree of accuracy and quality of the rigidly controlled production.

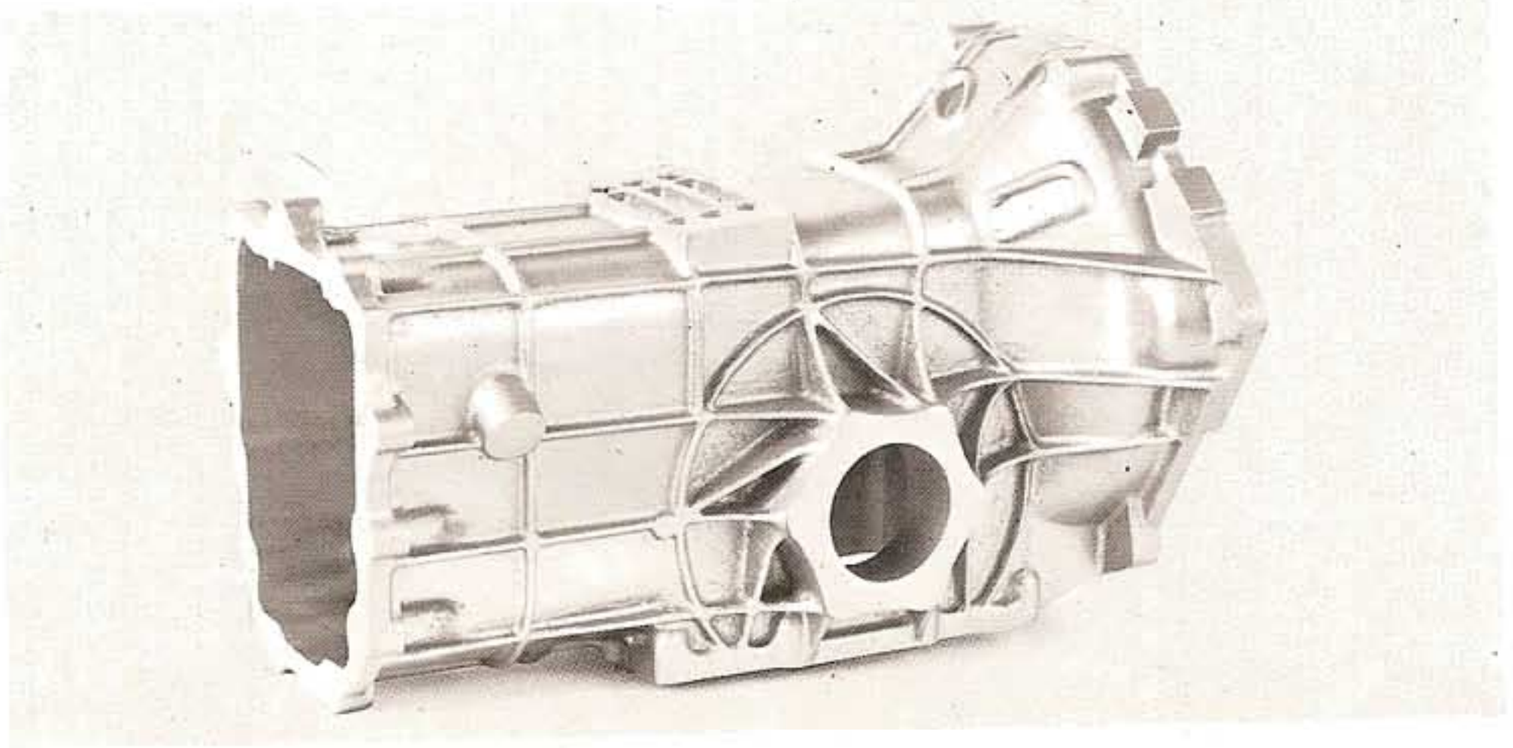












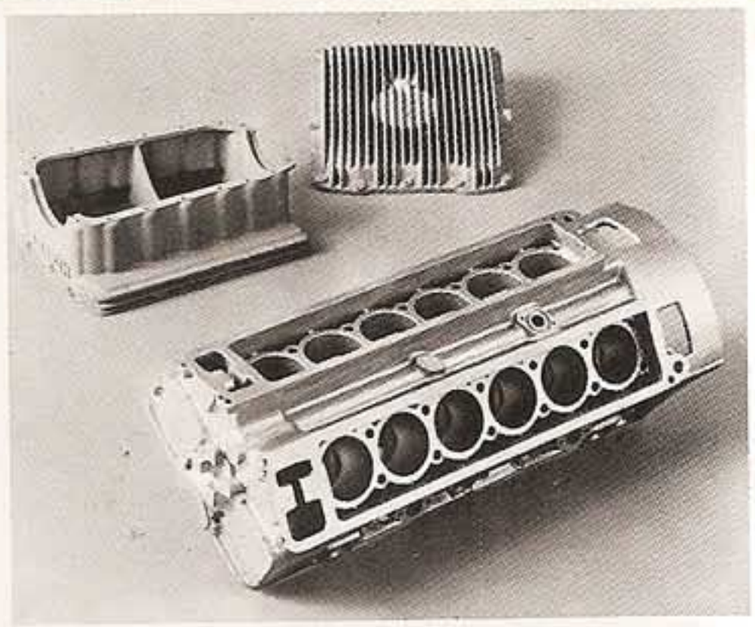
The Motor-Car manufacturing Industry wheels made of superlightweight Elektron alloy for sports, racing and touring motor-cars, as well as special engine and carframe components. Motor-car manufacturers such as: Ferrari, Abarth, De Tomaso, Autodelta, Lancia, Alfa Romeo, Maserati, Lamborghini, Tecno, Iso 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.

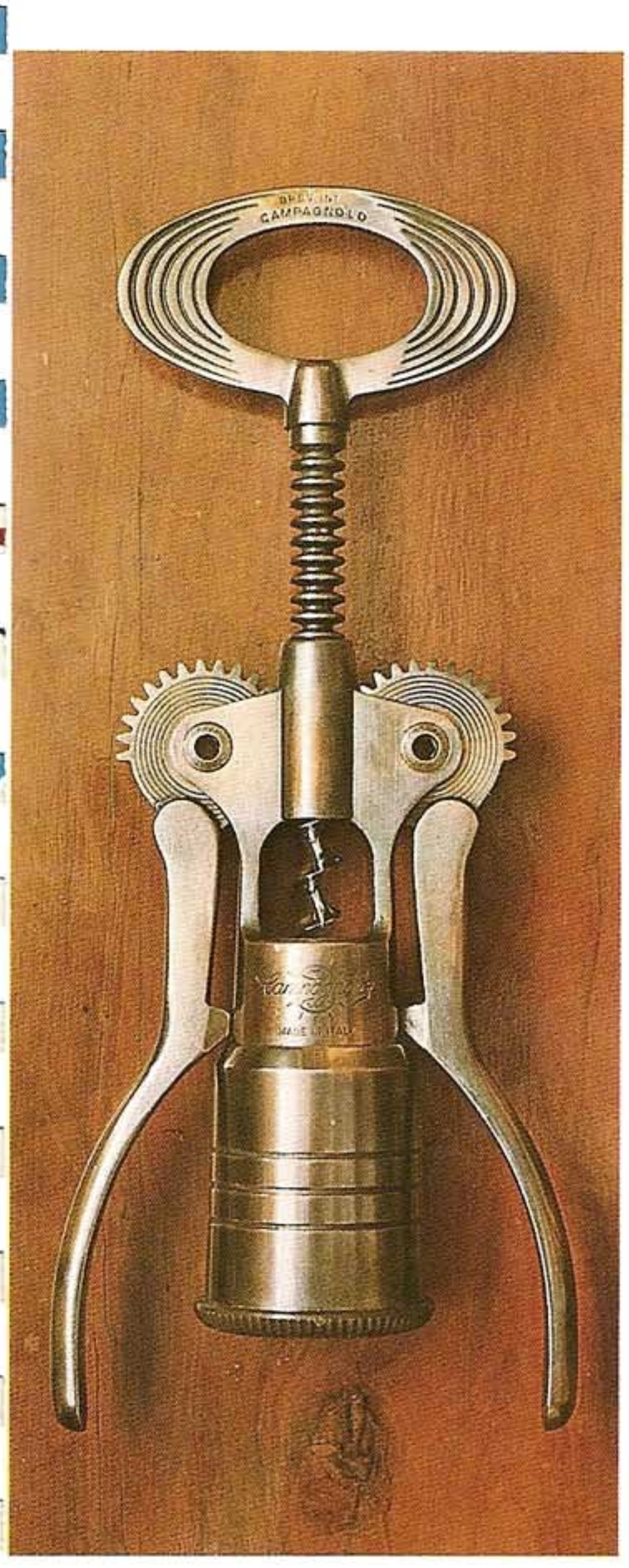
The Mechanical Industry in general pieces for any appliance or plant or operating machines, for which it is necessary to combine maximum lightness with maximum strength.

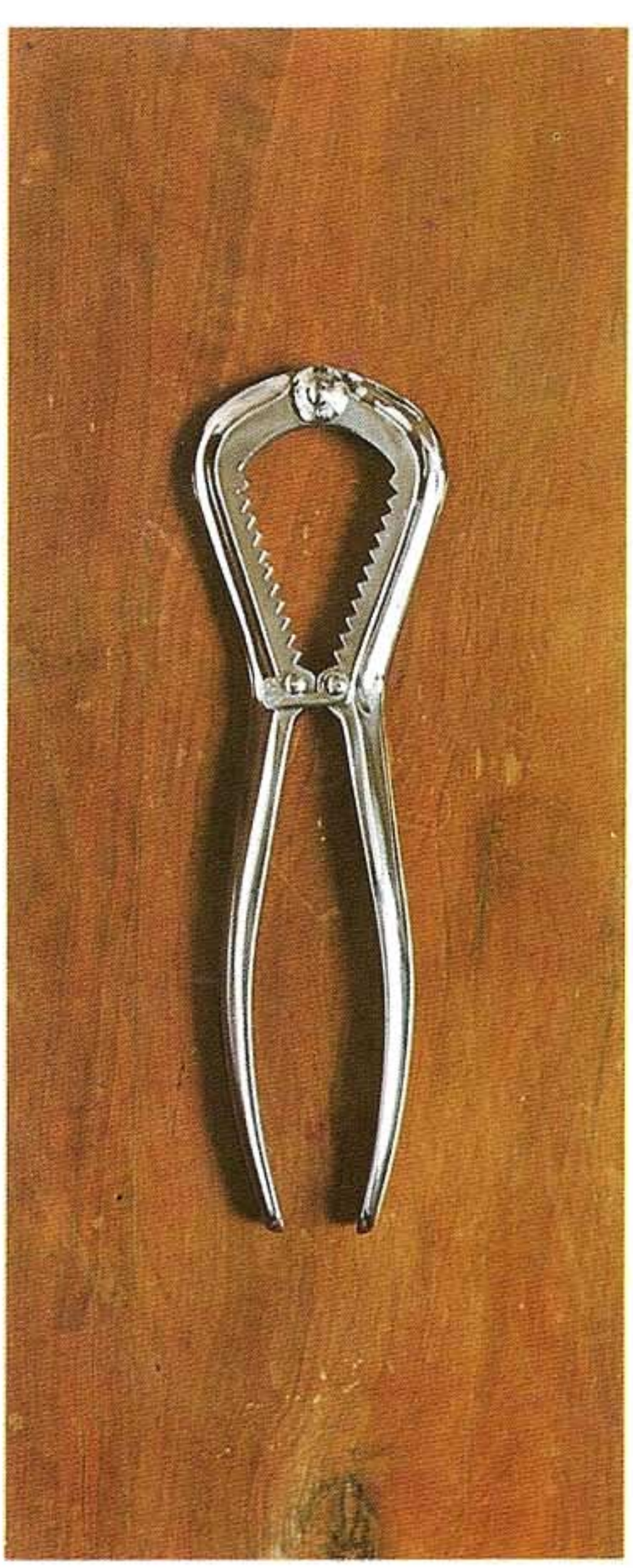






Campagnolo also produces articles for the gifts and sports trades.
Among the former let us remember the patented giant cork-screws permitting even the most resistant corks to be easily and safely extracted, and the nut-crackers, which do not break but do crack the nuts.
With the latter are now included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







Campagnolo



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 neccessary for technical advancement, without previous notice.

catalogue of special bicycle products

GENERAL INDEX

SUPER RECORD ROAD GROUP — from page 5 to page 19

SUPER RECORD TRACK GROUP — from page 21 to page 28

RECORD ROAD GROUP — from page 29 to page 43

RECORD TRACK GROUP — from page 45 to page 52

GRAN SPORT GROUP — from page 53 to page 64

VALENTINO EXTRA GROUP — from page 65 to page 70

TRIPLE AND CROSS CHAINWHEEL SETS
RALLY GEAR FOR LARGE RATIOS — from page 71 to page 78

VARIOUS ITEMS — from page 79 to page 81

TOOLS — from page 83 to page 89

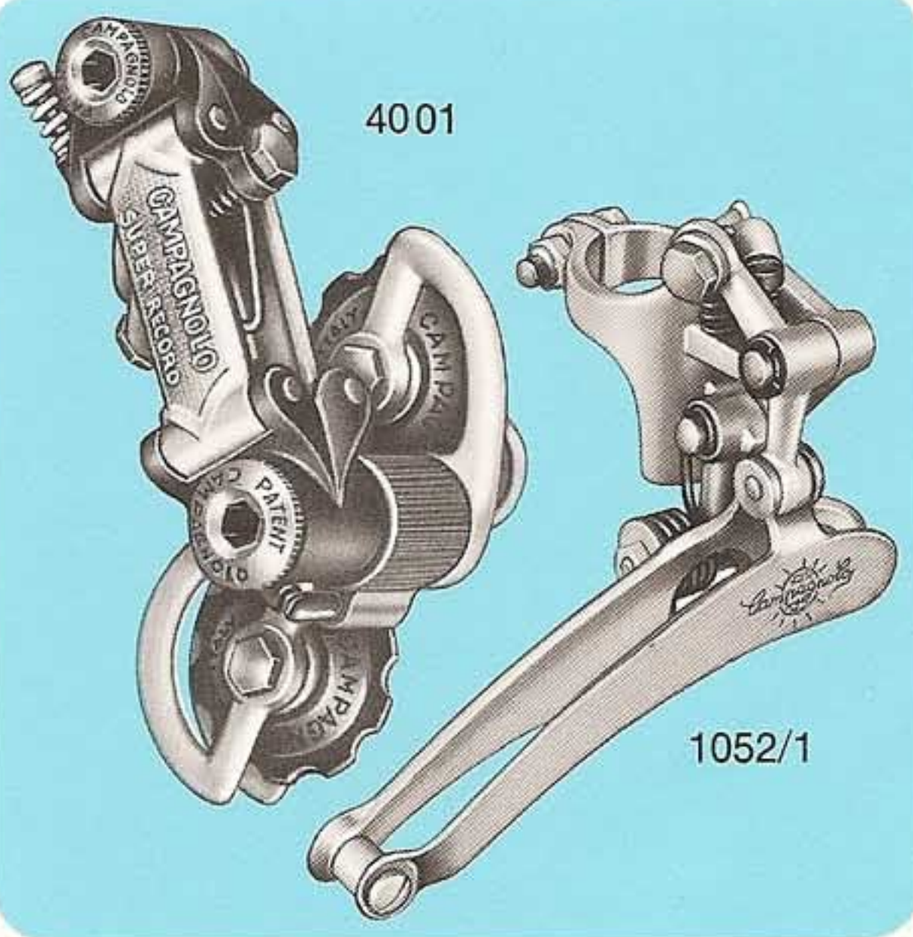
TECHNICAL TABLES — from page 91 to page 96

4000/F CAMPAGNOLO SUPER RECORD ROAD GROUP

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

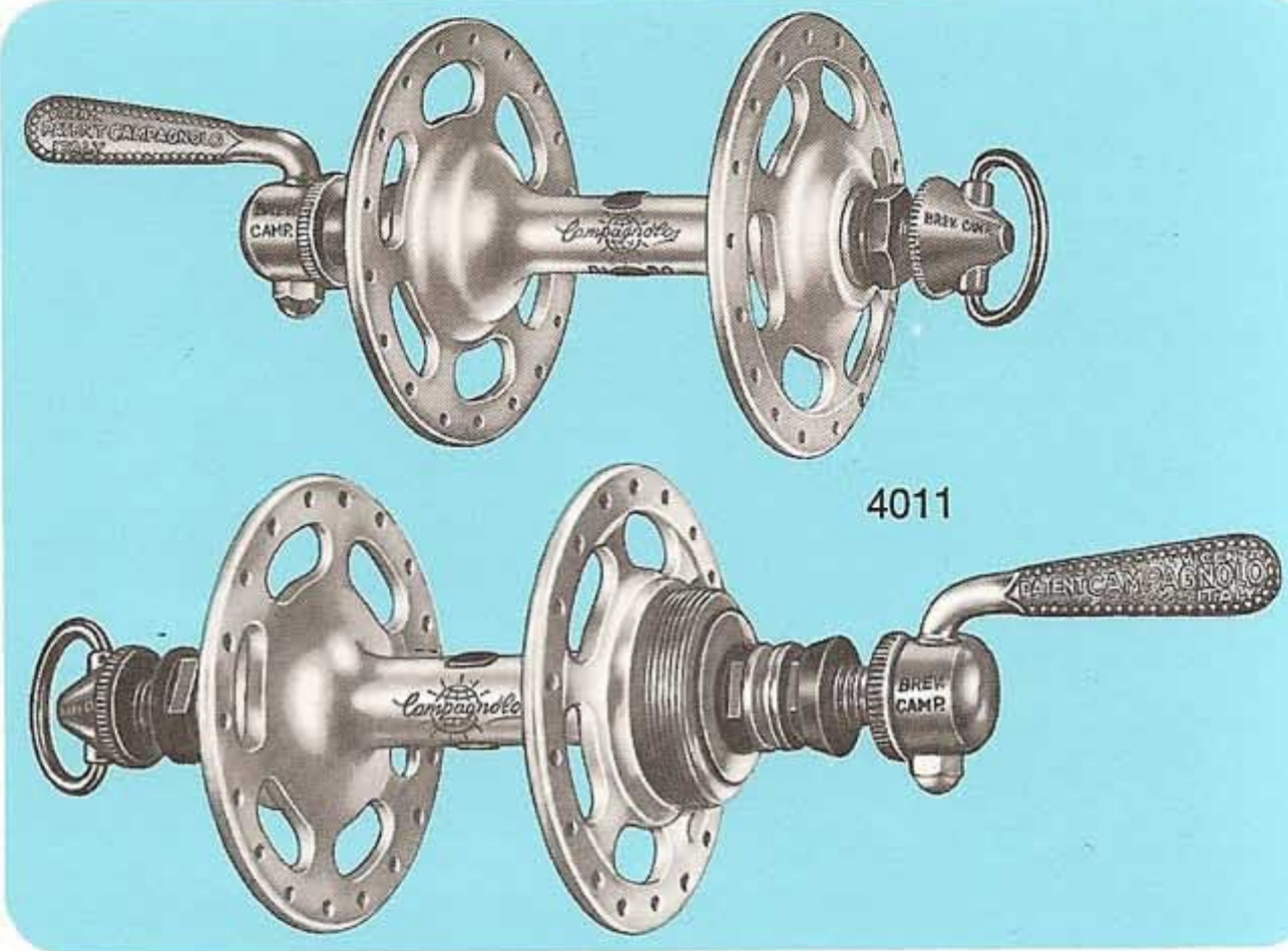
606 Down tube control gear inner wire (118 cm.)
608 Down tube control front changer inner wire (72 cm.)
622 Gear stainless steel outer casing (21 cm.)
626/A Twin gear cable clip
636 Chainstay clip
649 Stainless steel brake cable clip
1010/A Set Record front and rear fork ends without eyelet
1014 Twin down tube control lever. See alternatives on pages 10-11
1030/2 Pump connector (thread M9 x 1,25). Upon request any pump connectors on page 17 may be supplied as alternative
1049/A Super Record road chainset (with cranks 170 mm. pedal hole ∅ 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.

4001

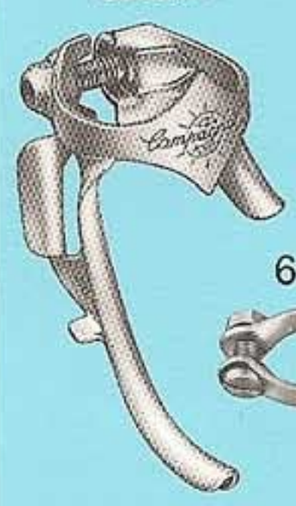


1052/1

4011



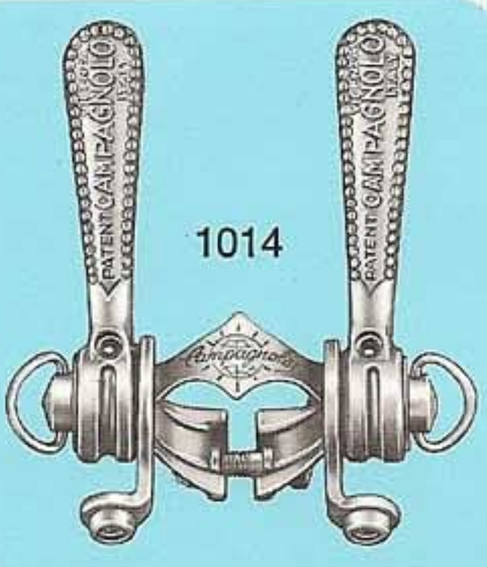
626/A



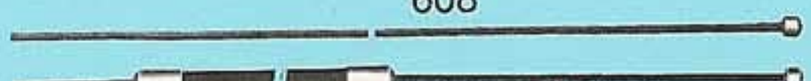
636



1014

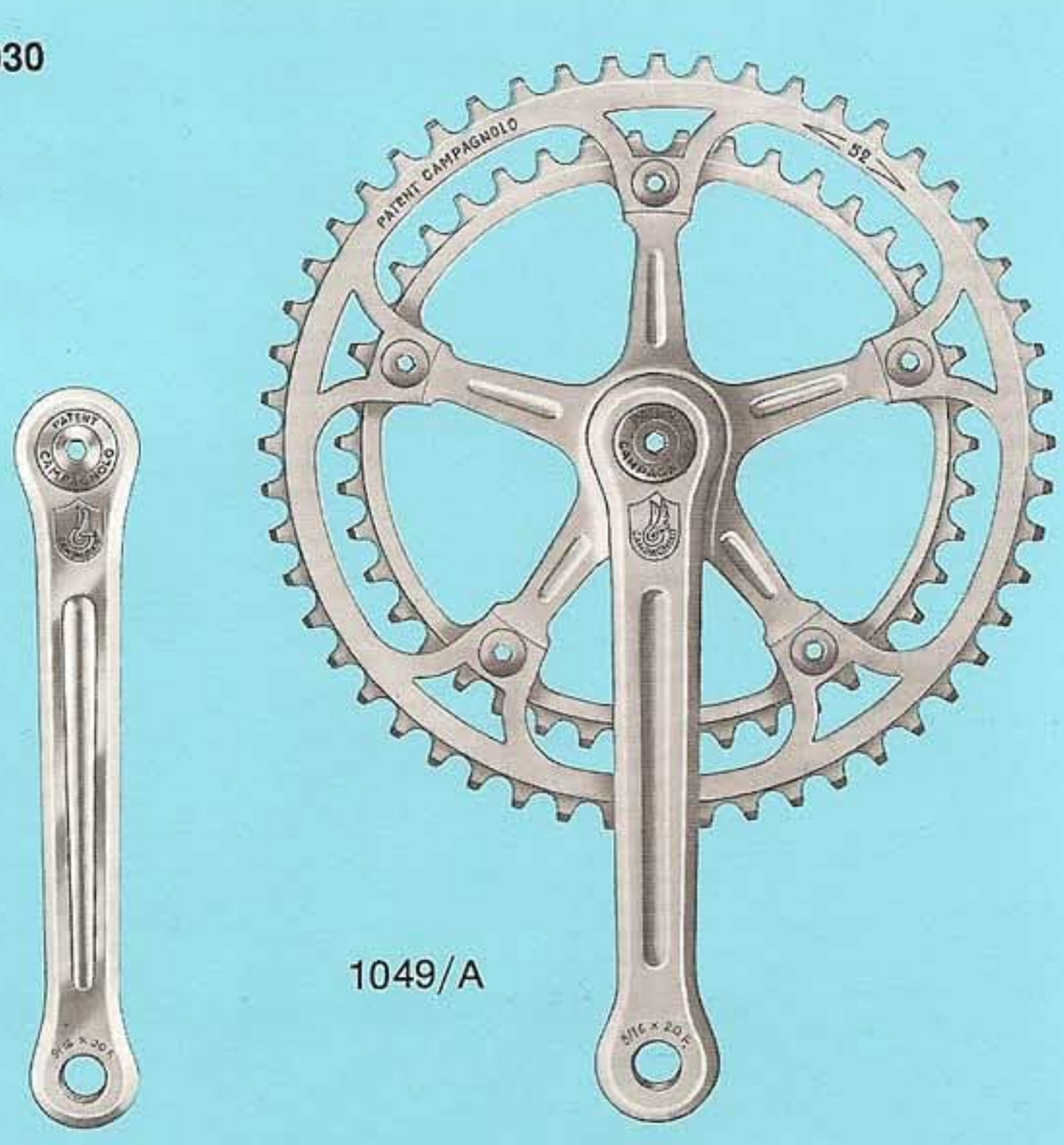


608



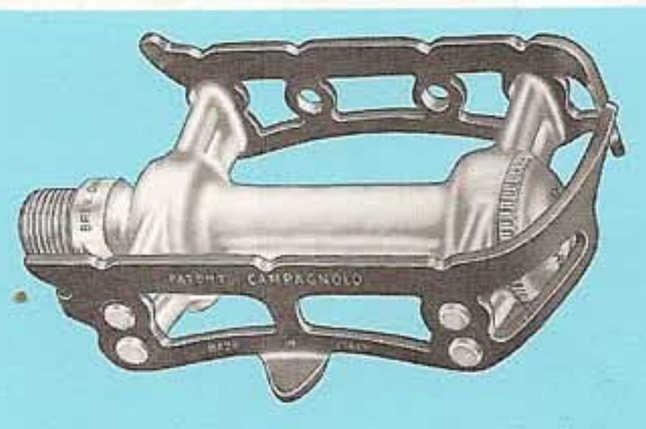
622 606

4030



1049/A

4021









4031

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 ∅ 35 x 24F.).
Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34.7 x 1 M. or ∅ 1,370" x 24 Tpi-BSC.
See other alternatives on page 12

4021 Pair Super Record road pedals with Titanium spindle (spindle thread ∅ 9/16 x 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 ∅ 36 x 24F.).
See alternatives on pages 14-15

4041 Super Record road head set (thread 25,4 x 24F.).
Upon request furnished with thread ∅ 25 x 1M. or ∅ 1" x 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

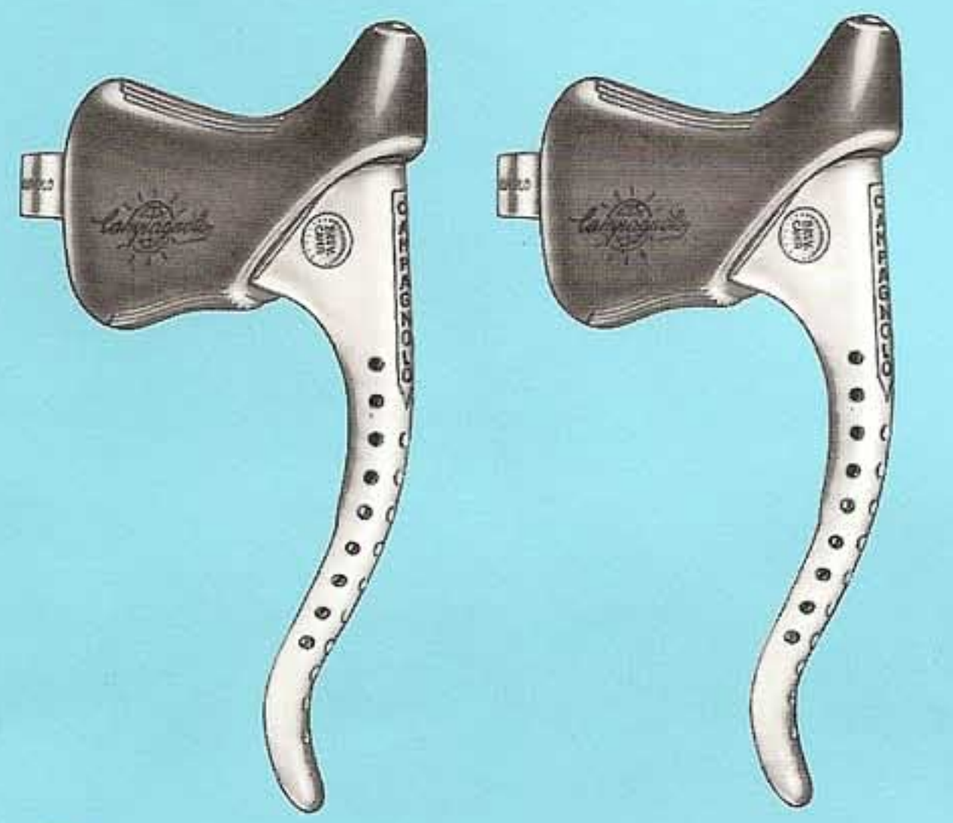


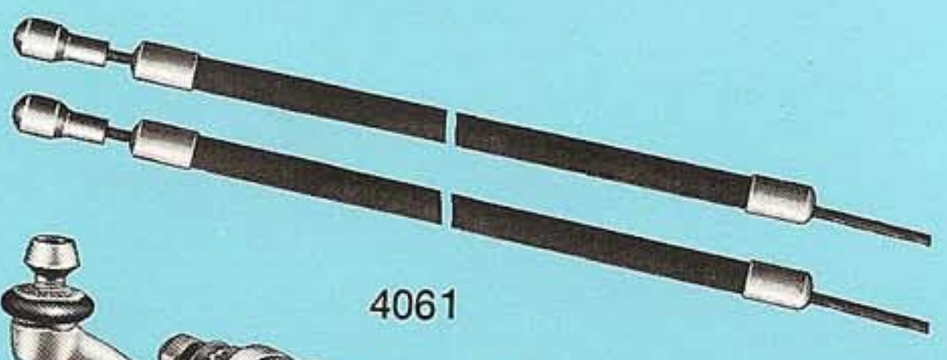
4041


4051


649
649
649


1030/2

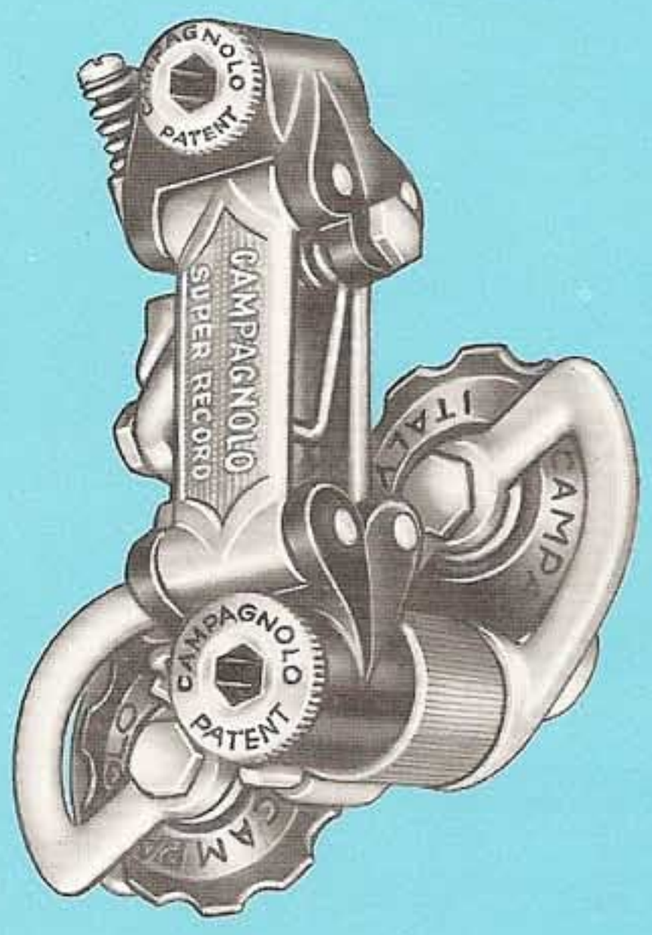



4061

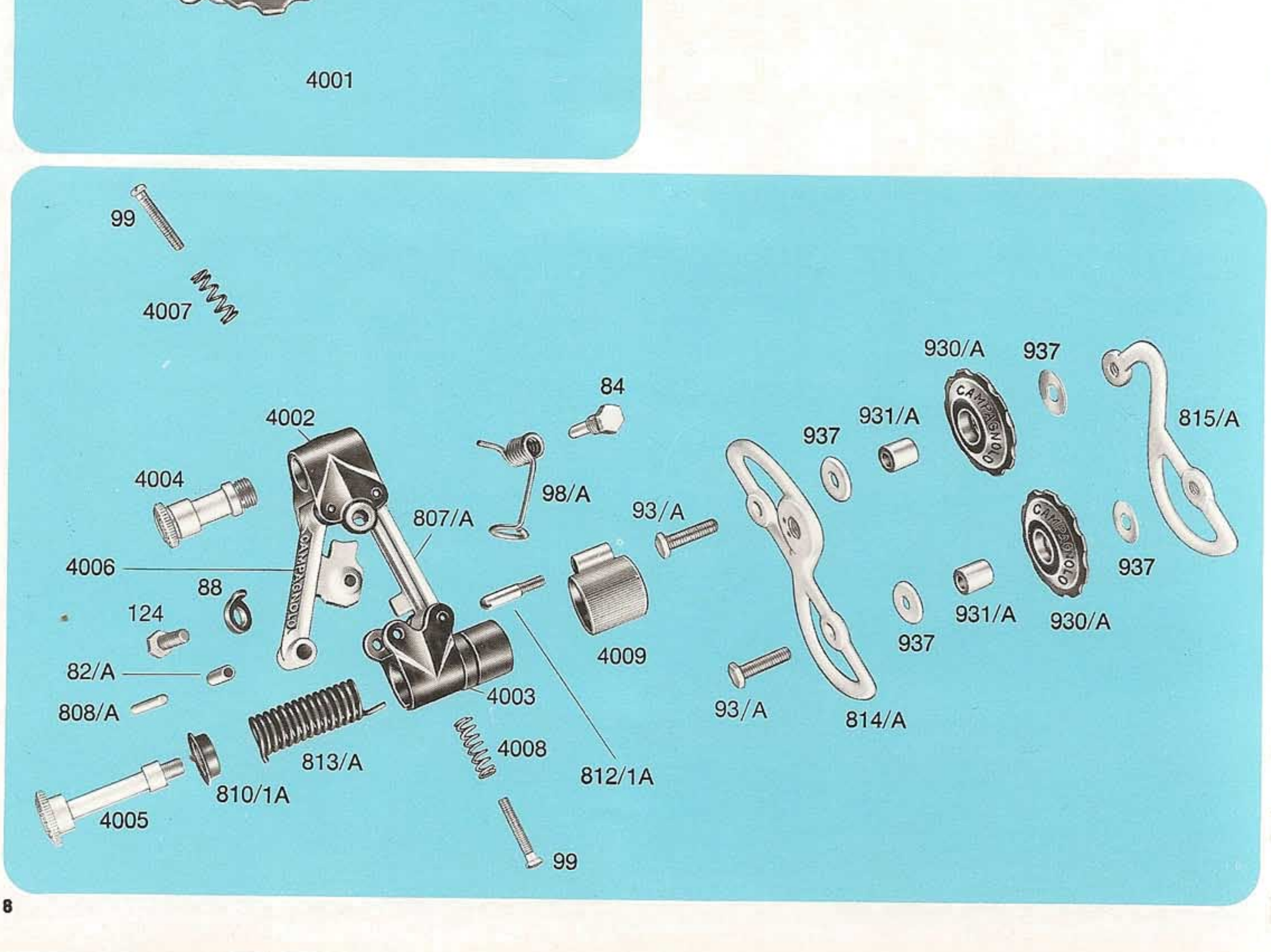
1010/A

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

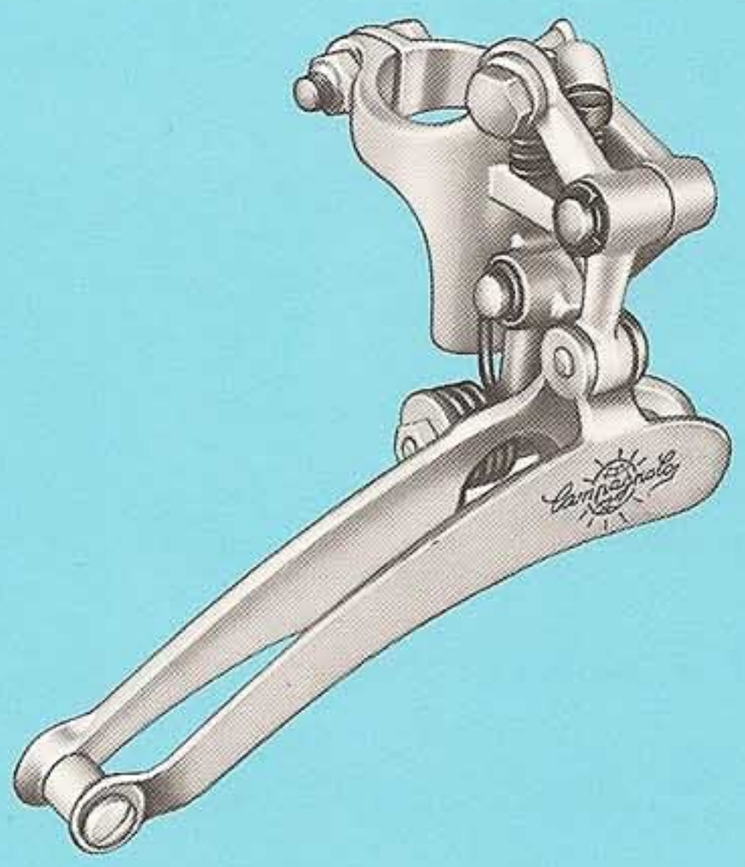


4001



PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP **4000/F**

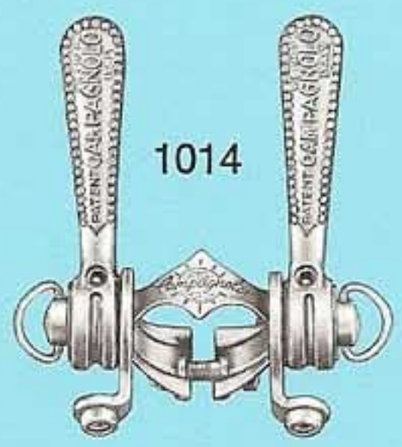
1052/1 Record front changer
89 Clamp washer
215 Cage spanner bolt
217 Nut
773 Record front changer body (complete with clip and hinge)
773/1 Hinge
773/2 Hinge pin
774 Adjusting screw
775 Adjusting bolt spring
776 Clip fixing screw
777 Clip nut
778 Upper arm
780 Cable clamp bolt washer
782 Lower arm
784 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.)

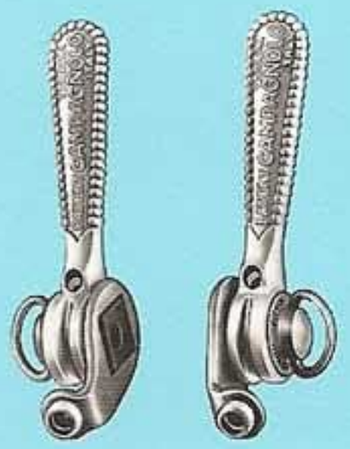

1014

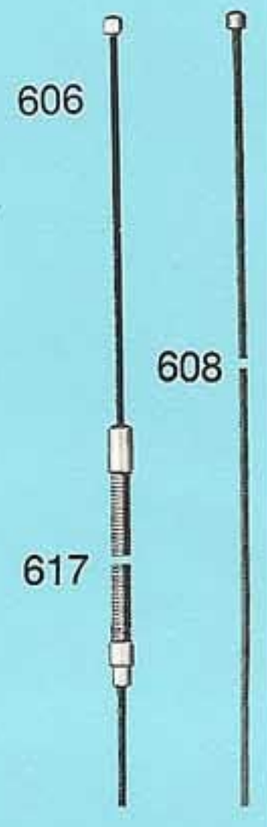

606 608 617


621


663


626/B


1013/5 1013/6

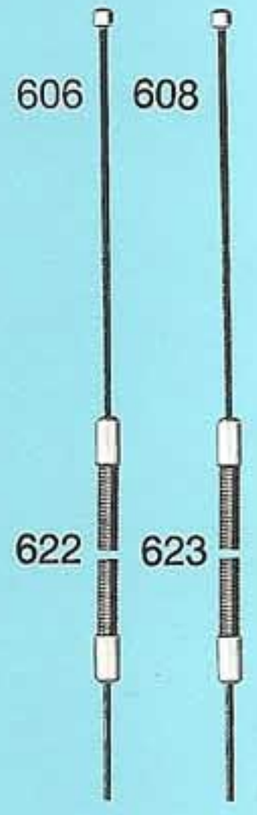

606 608 617


621


663


626/B

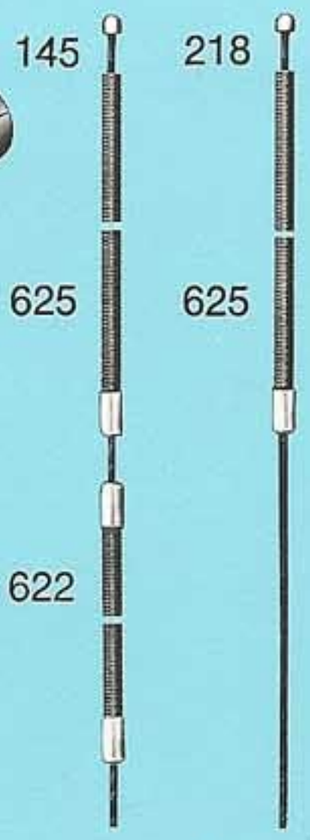

1014/1


606 608 622 623


630


636


1012/3 1012/3


145 218 625 625 622

626/A

629

636


1013/1


606 622


627/A


636

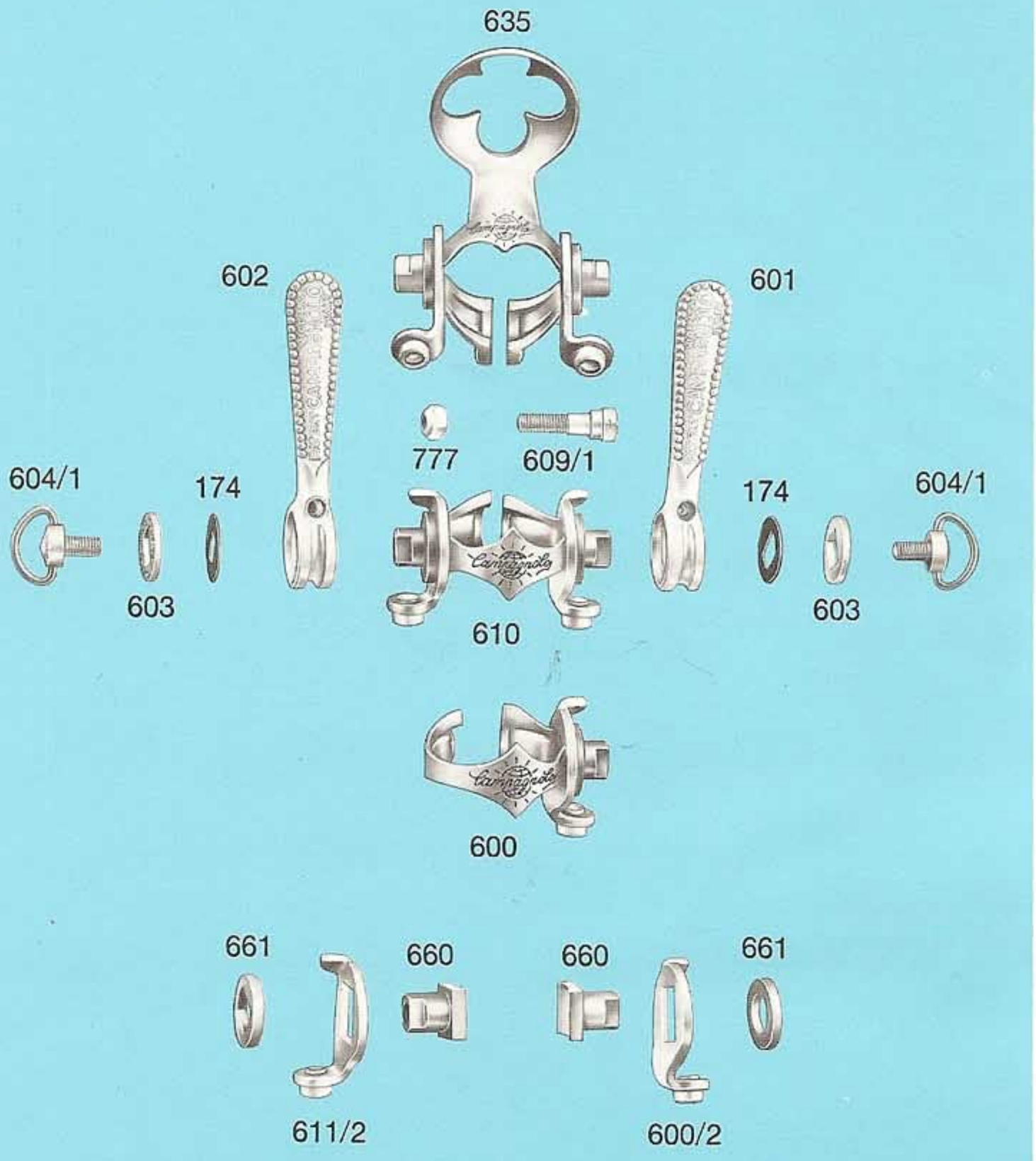

1013/6

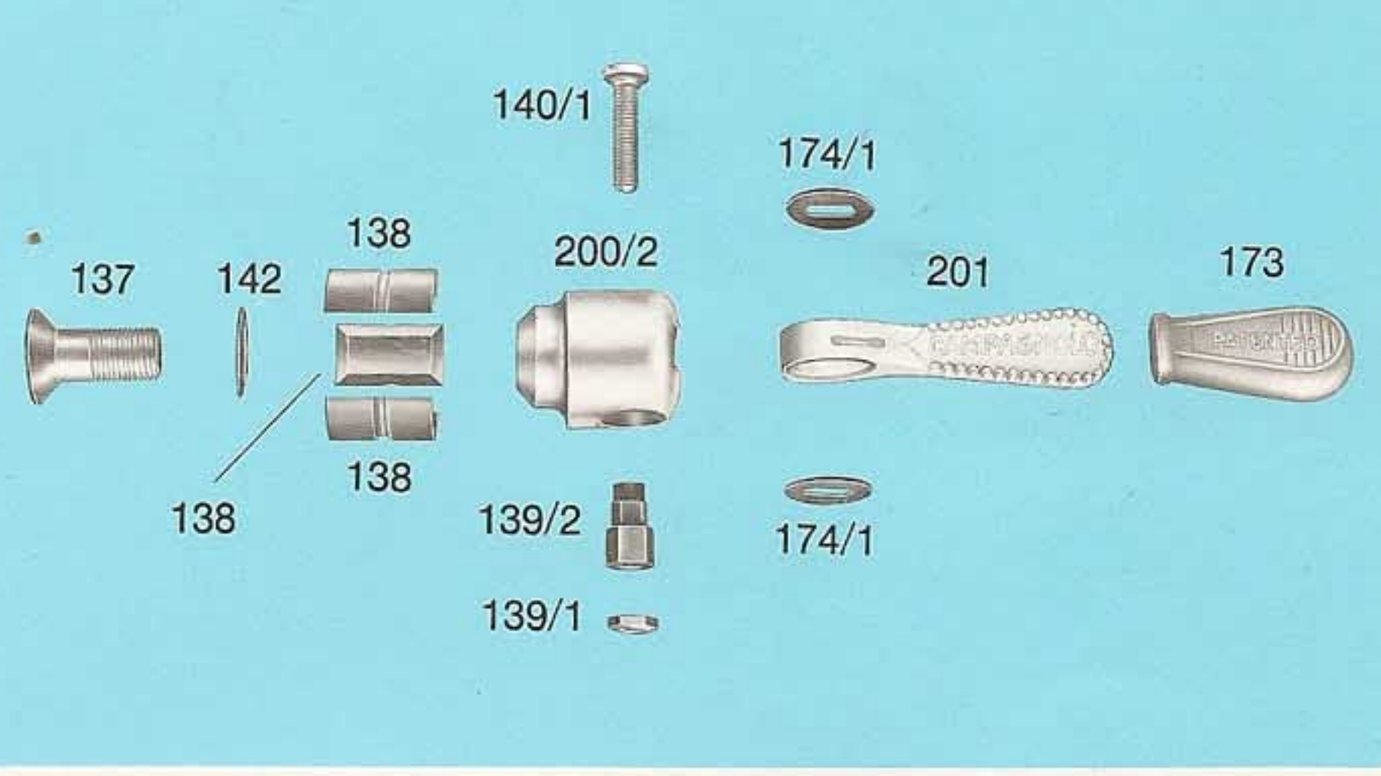

606 617


621


663

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 outer casing (15,5 cm.)
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 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 ∅ 35 x 24F.). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1.370" x 24 Tpi-BSC

4012 Super Record large flange front road hub

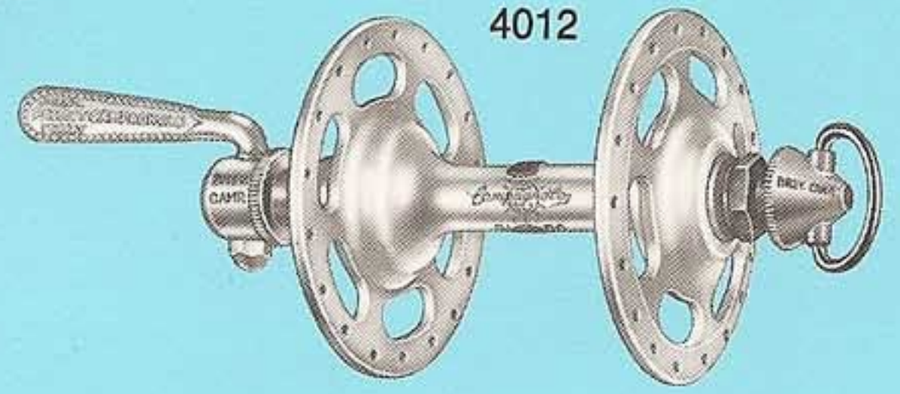
4013 Super Record large flange rear road hub

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 ∅ 35 x 24F.). Upon request furnished with hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi-BSC

4015 Super Record small flange front road hub

4016 Super Record small flange rear road hub

4011



4012



4013

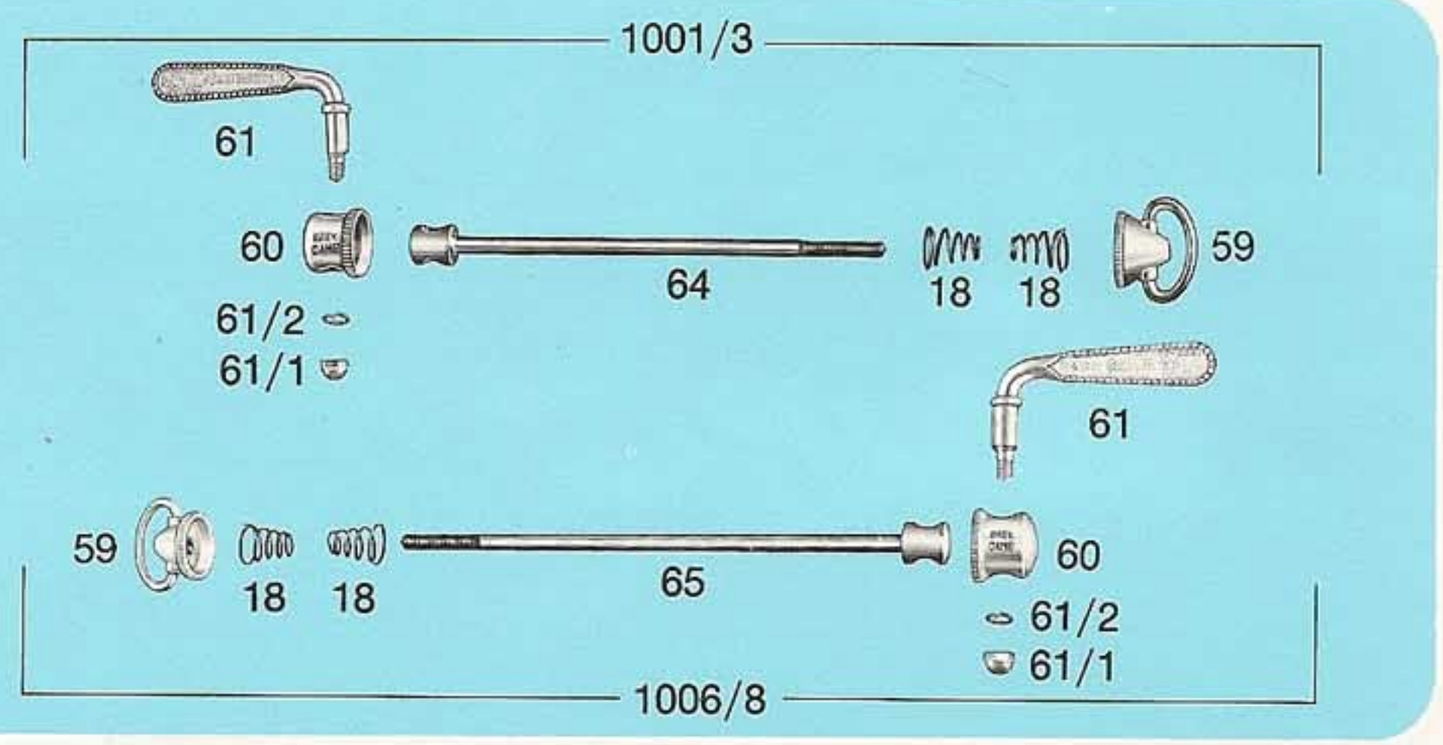
4014



4015



4016



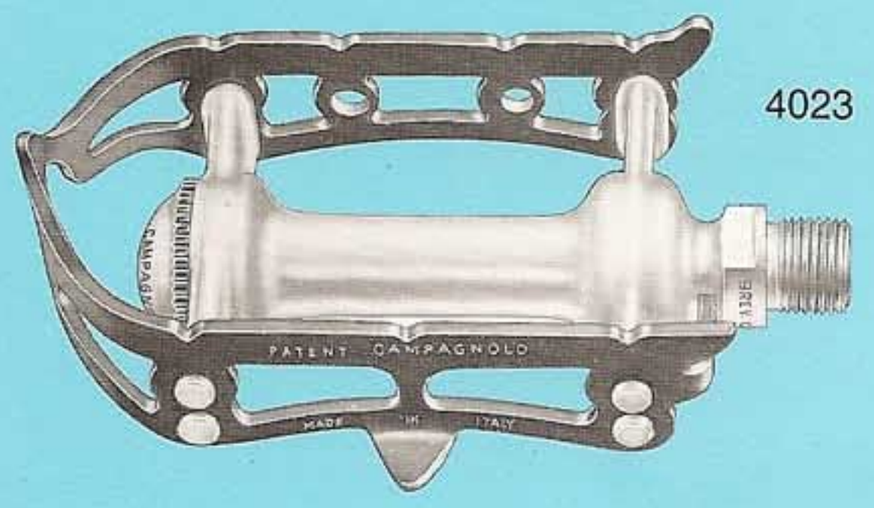


1 Front lock nut
18 Conical spring
25/R Front cone
32/R Rear cone
33 Rear lock nut
35 Front hub lock washer
36 Rear hub lock washer
46 Rear spacing collar
59 Quick release conical adjuster
60 Quick release cap
61 Quick release lever
61/1 Spring washer
61/2 Grower washer
64 Quick release front skewer
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 ∅ 7/32" balls selected with 1/1000 of mm. tolerance
2106 Set (9+9) special ∅ 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 ∅ 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 ∅ 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**

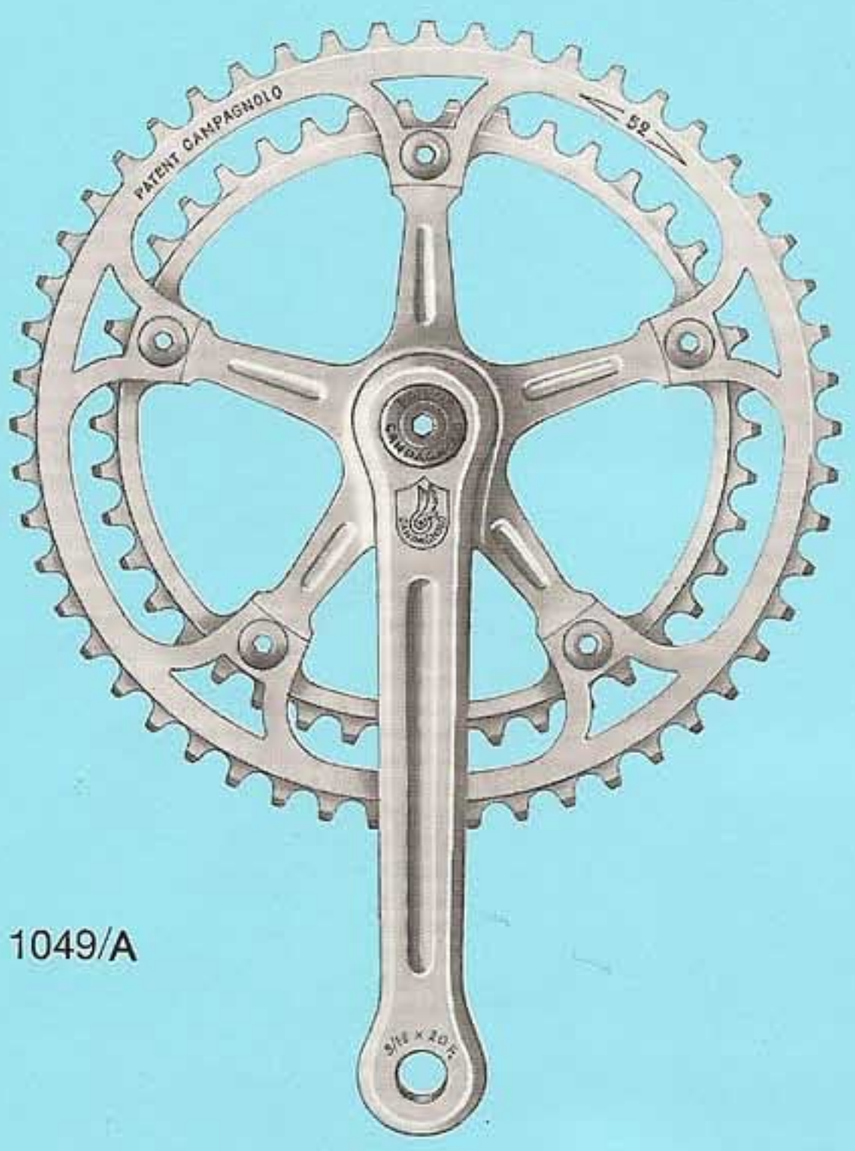
4030 Super Record road chainwheel set

1049/A Super Record road chainset (with cranks 170 mm., pedal hole ∅ 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 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm.

4031 Super Record bottom bracket road set with Titanium spindle (bracket width 70 mm. and cups threaded ∅ 36 x 24F.).

747 Lockring with normal 3.5 mm. thickness (available also with 4 mm. and 4.5 mm. thickness) Indicate required thread

4030



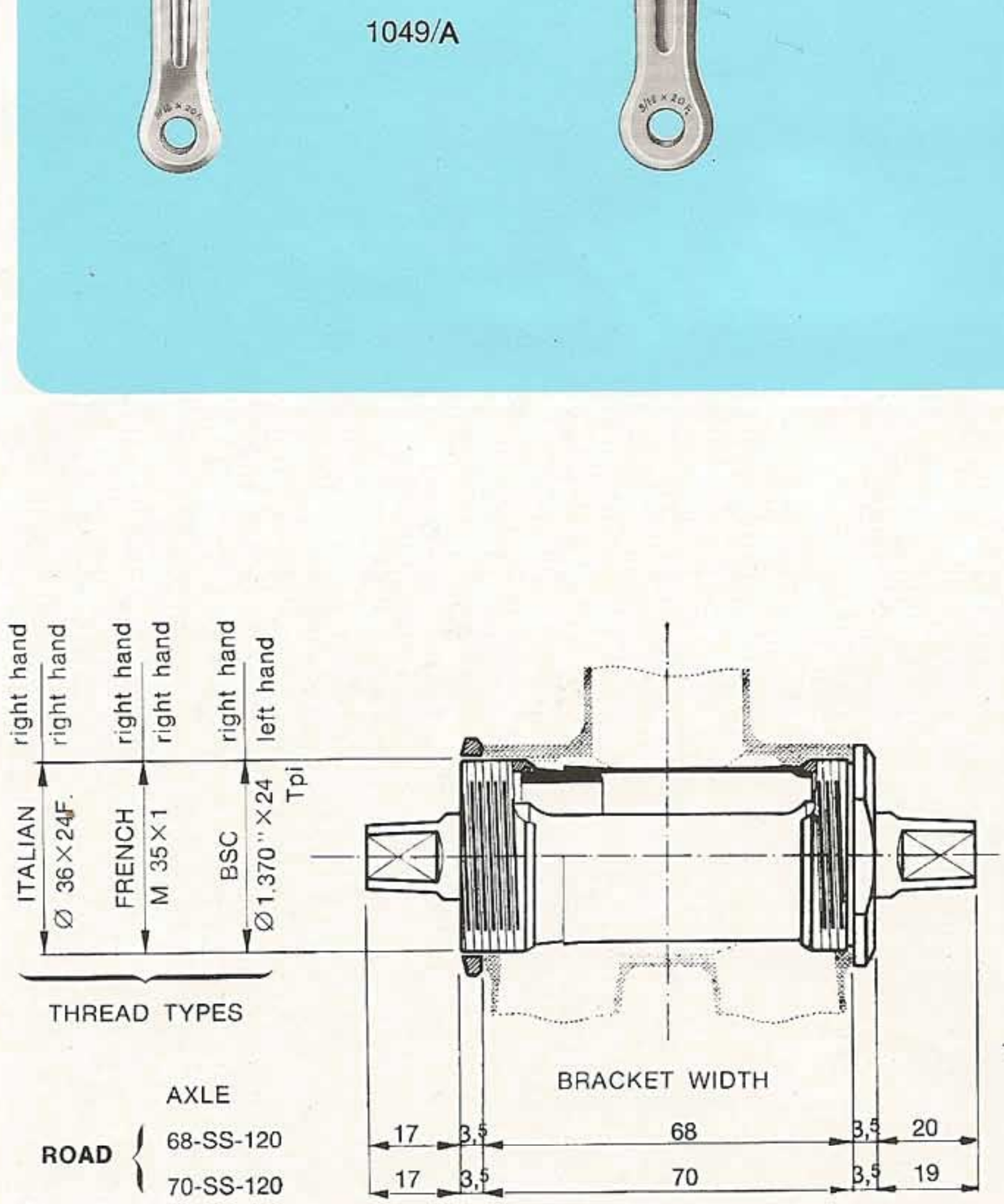


1049/A



4031





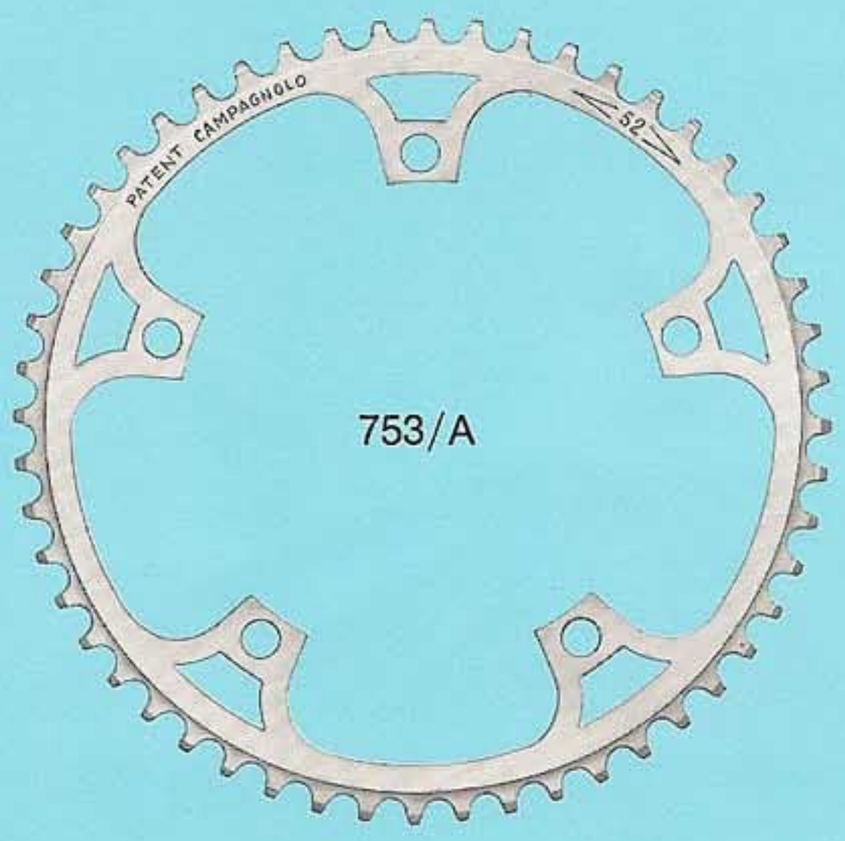
	AXLE	TOTAL AXLE LENGTH
ROAD	68-SS-120	112 mm.
	70-SS-120	113 mm.

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 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/A Super Record road chainring for 1/2 x 3/32" (2 mm.) chain. Specify the number of teeth available from 42T to 57T
754 Road chainwheel fastening screw
755 Road chainwheel fastening nut
756 Crank cover plate
801 Spacer for single chainring
2110 Record sleeve
2110/1 Cone for sleeve
4032 Super Record cotterless Titanium road spindle. See measurements and indicate spindle size
4033 Fixed cup. Indicate required thread
4034 Adjustable cup. Indicate required thread
4035 Set (14+14) special ∅ 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 ∅ 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



4042



4043



4044



4045



4046



4047



2101



4051



4054



4055



4056



4052



4053

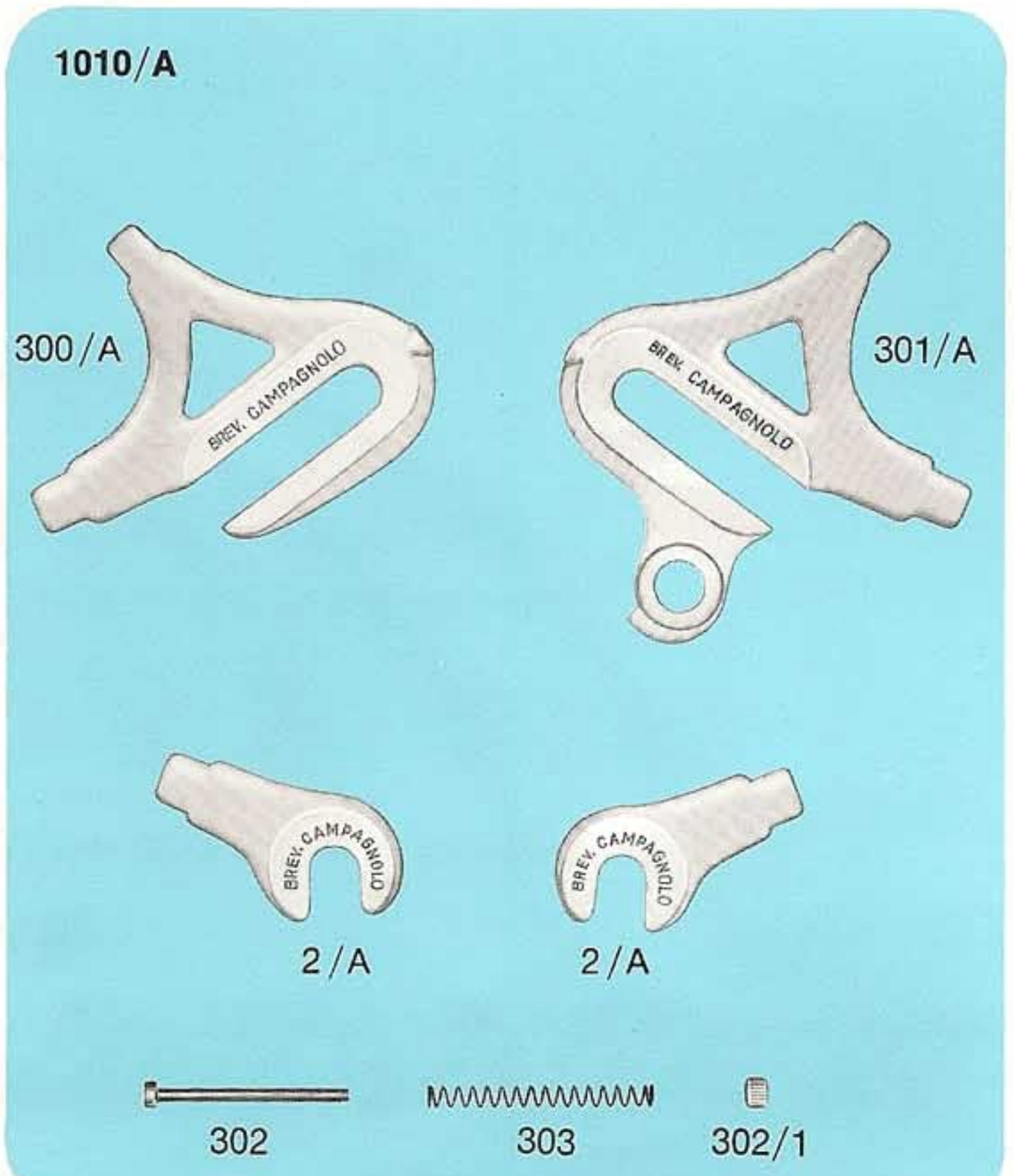


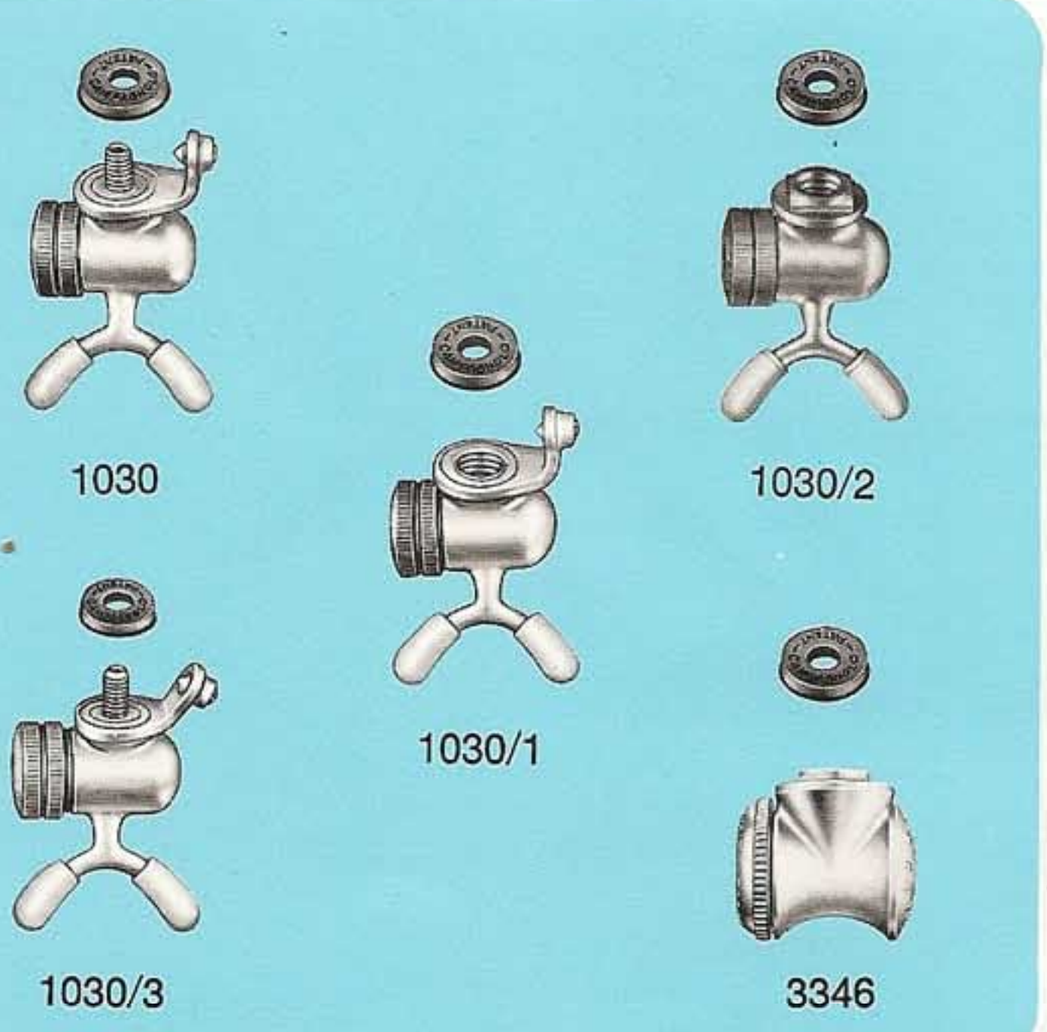
4057

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 Ø 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

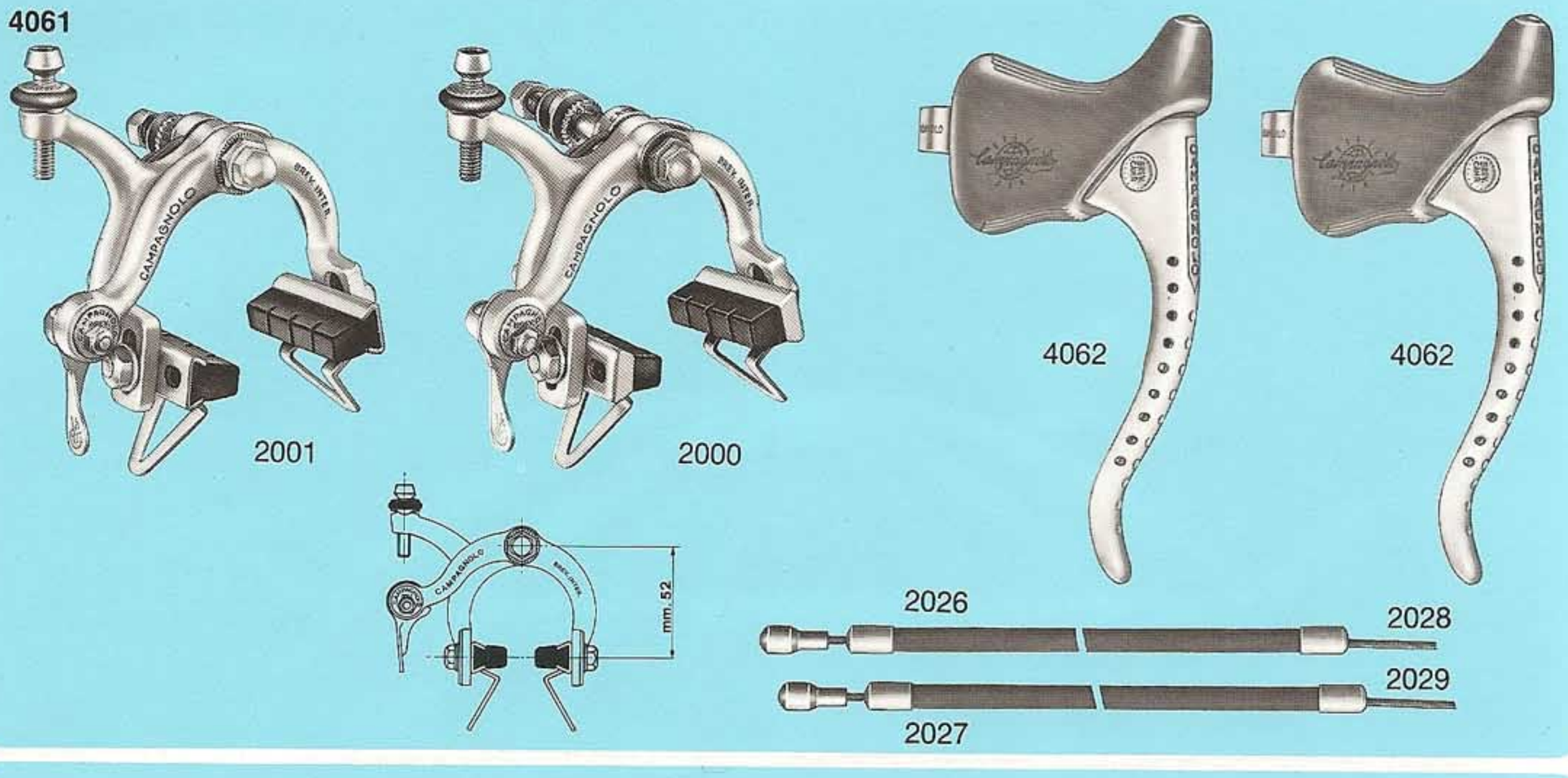


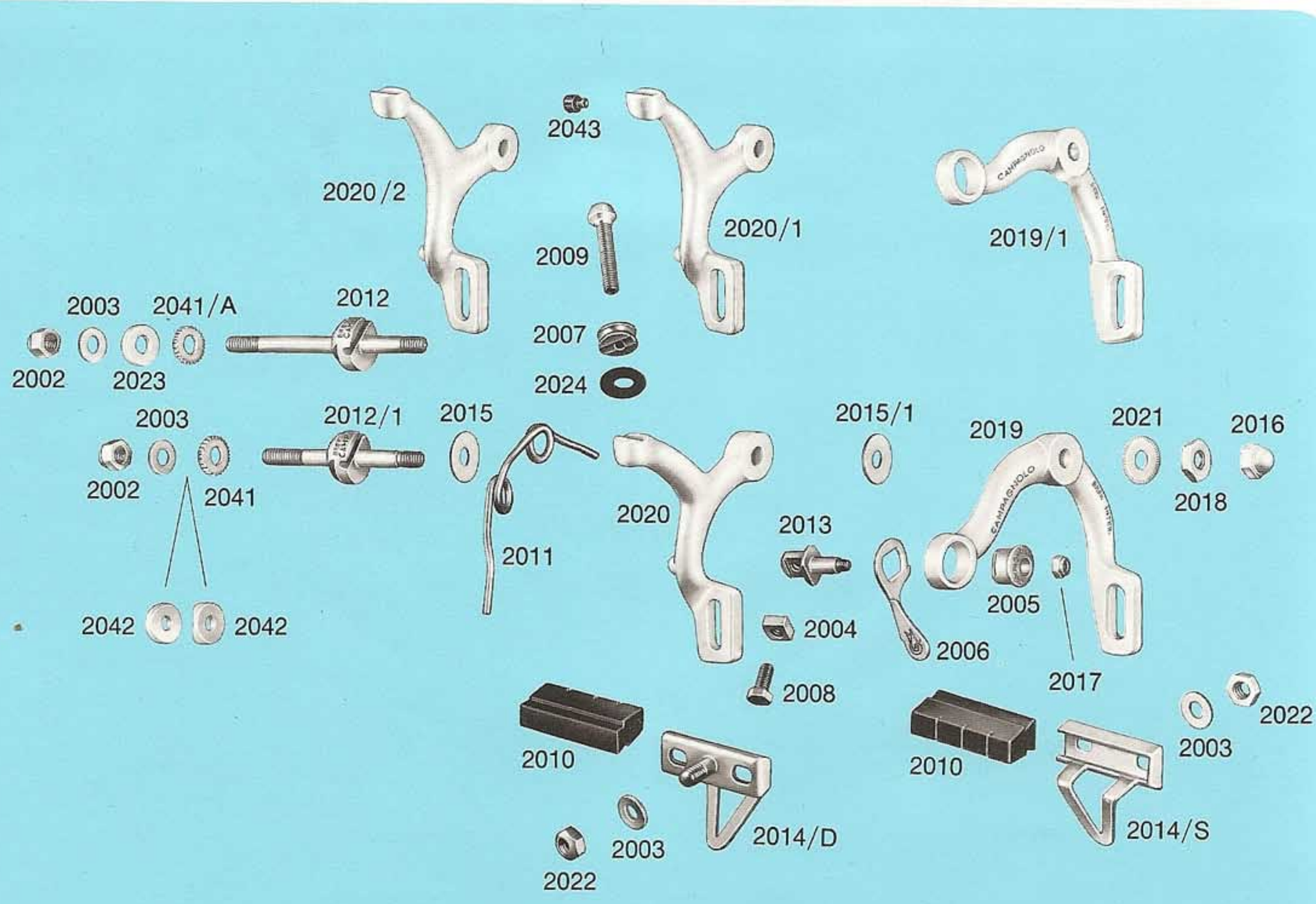




PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD ROAD GROUP **4000/F**

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)

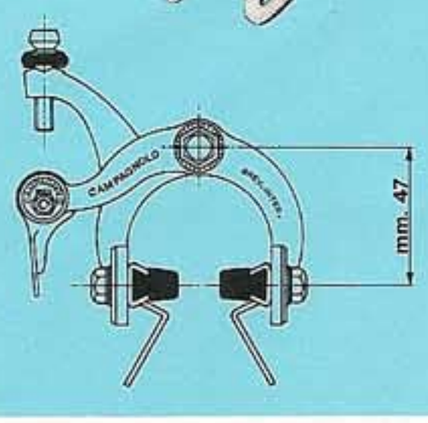
4061/1



2001/1



2000/1





4062



4062



2026 2028

2027 2029



2039



2031



2037

2036



2033

2038

2034



2038



2029

2027



2035

4063



2028

2026

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

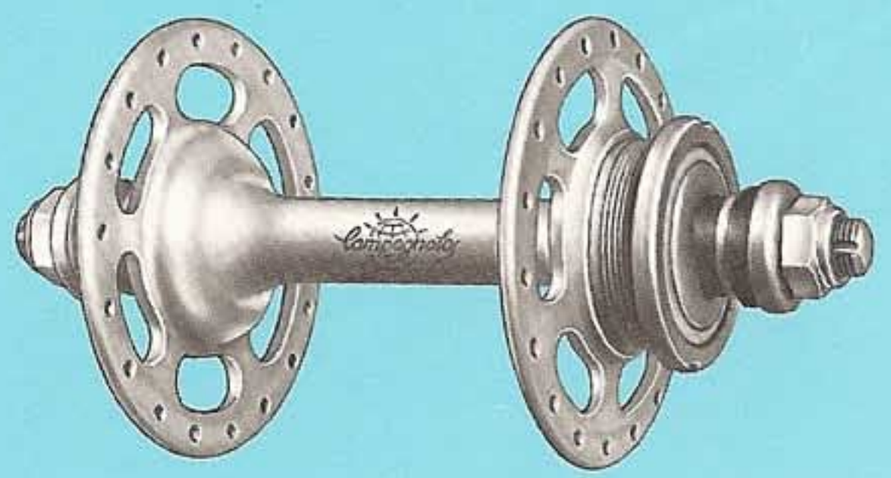
SUPER RECORD TRACK HEAD SET
SUPER RECORD SEAT PINS - FORK ENDS page 28

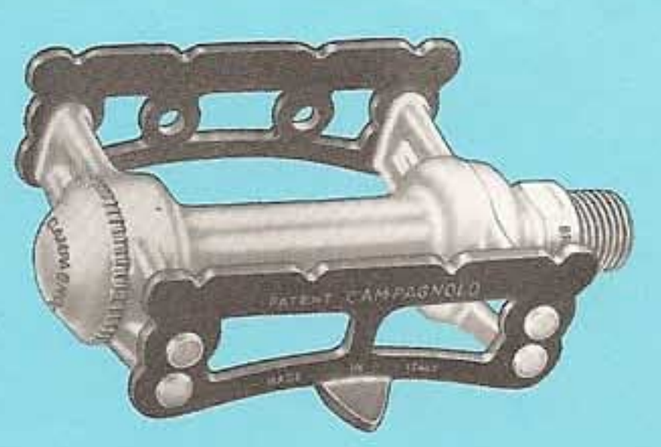
4100
CAMPAGNOLO SUPER RECORD TRACK GROUP

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

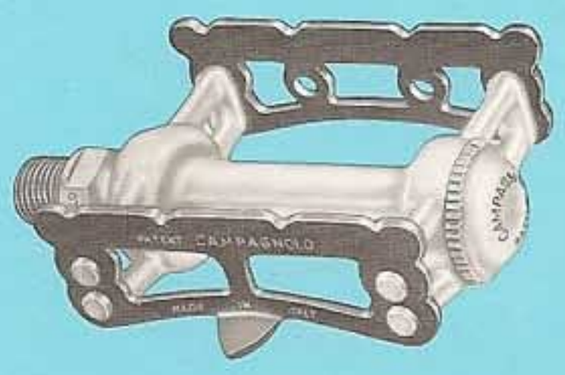


4101

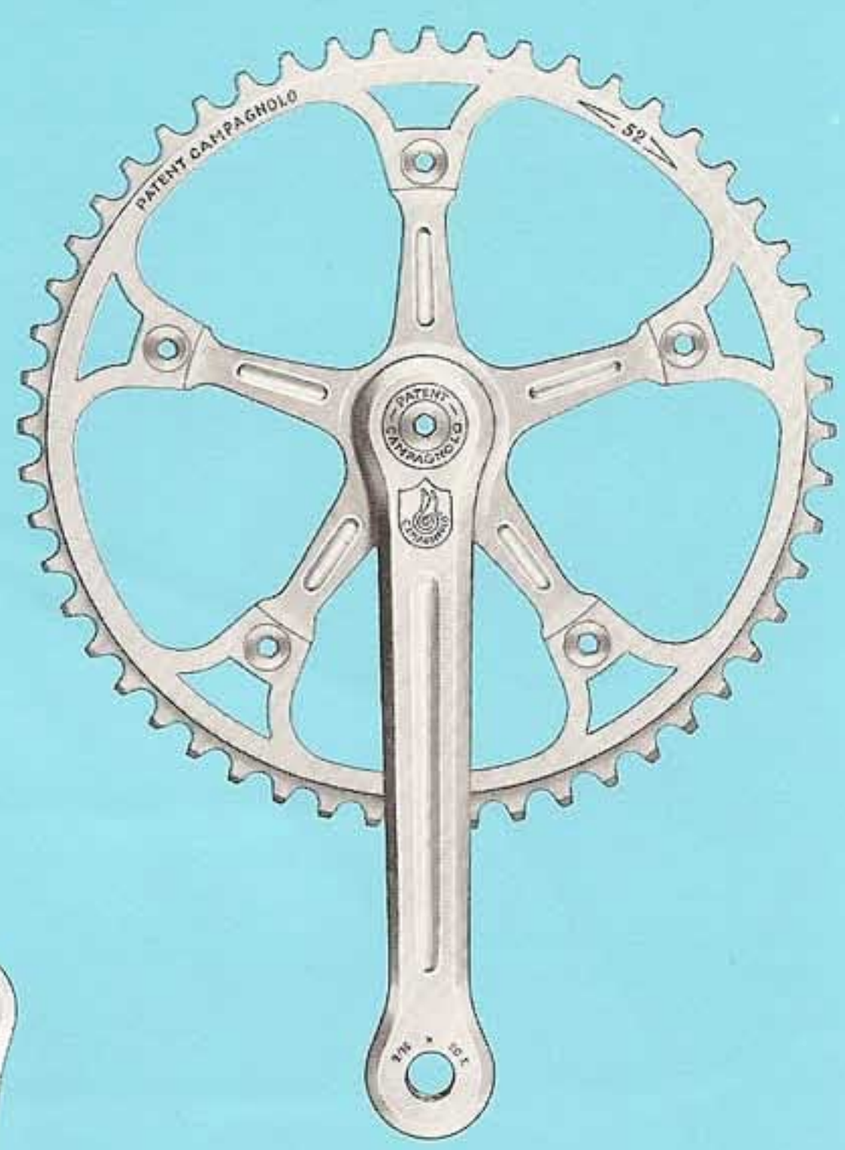


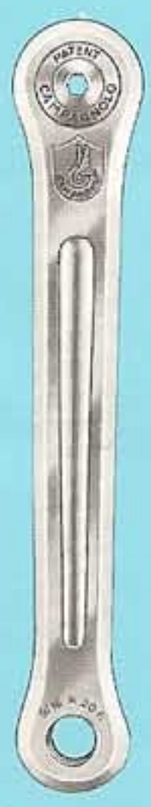


4121



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 Ø 35 x 24F.).
Upon request are furnished with rear hub width 120 mm.; flanges with 24 - 28 - 32 - 40 holes, thread Ø 34,7 x 1 M. or Ø 1,370" x 24 Tpi-BSC
See alternatives on page 24

4121 Pair Super Record track pedals with Titanium spindle (spindle thread Ø 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 Ø 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 Ø 25,4 x 24F.).
Upon request are furnished with thread Ø 25 x 1M. or Ø 1" x 24 Tpi-BSC

4151 Super Record track chainset (with cranks 170 mm., pedal hole Ø 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 lenghts 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 ∅ 35 x 24F.). Upon request are furnished with rear width 120 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi-BSC

4102 Super Record large flange front track hub

4103 Super Record large flange rear track hub

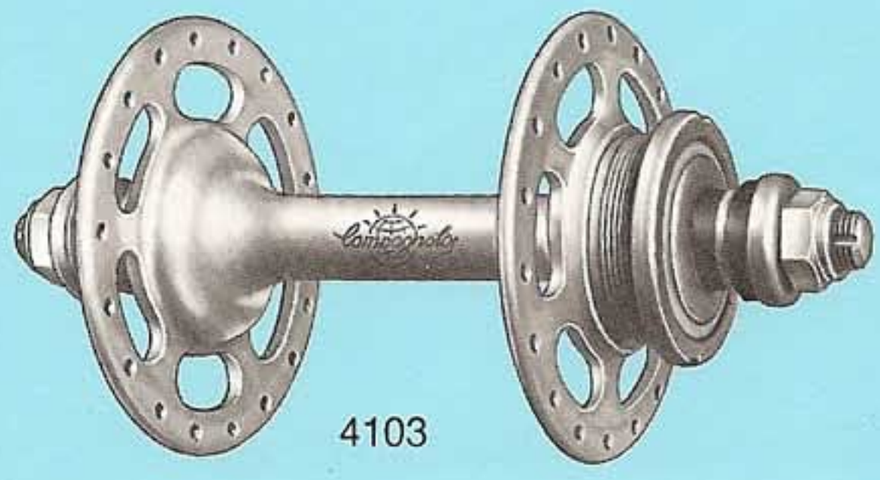
4104 Pair Super Record small flange track hubs with Titanium spindle and nuts (front width 100 mm., rear width 110 mm., flanges with 36 holes, thread ∅ 35 x 24F.). Upon request are furnished with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi.BSC

4105 Super Record small flange front track hub

4106 Super Record small flange rear track hub

4101





4104







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 ∅ 7/32" balls selected with 1/1000 of mm. tolerance
2106 Set (9+9) special ∅ 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 Ø 9/16" x 20F.). The pedals are supplied with unassembled screws and washers for fixing toe clips

89 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

4122 Super Record right hand track pedal

4123 Super Record left hand track pedal

4024 Super Record right hand Titanium pedal spindle

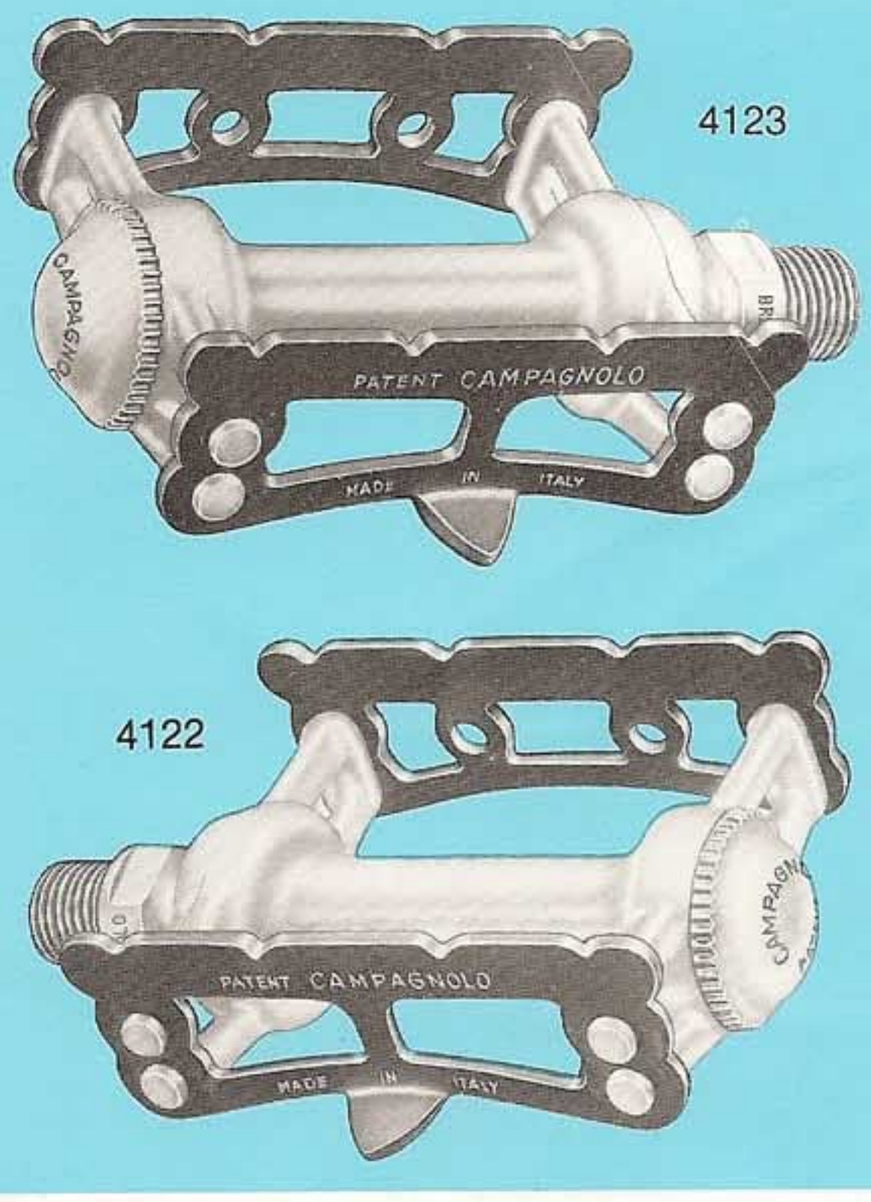
4025 Super Record left hand Titanium pedal spindle

4026 Inserted pedal race (available also in oversize)

4027 Pedal axle cone

4028 Set (64) special Ø 1/8" pedal balls selected with 1/1000 of mm. tolerance

4121




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 Ø 36 x 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 Ø 9/16" x 20F. and chainring for chain 1/2" x 1/8" [3 mm]). Specify the number of teeth of the chainring available from 44T to 70T. Upon request are furnished cranks with lenghts 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long and chainrings for chain 1/2" x 3/32" (2 mm.).

747 Lockring with normal 3.5 mm. thickness (available also with 4 mm. and 4.5 mm. thickness)

4130



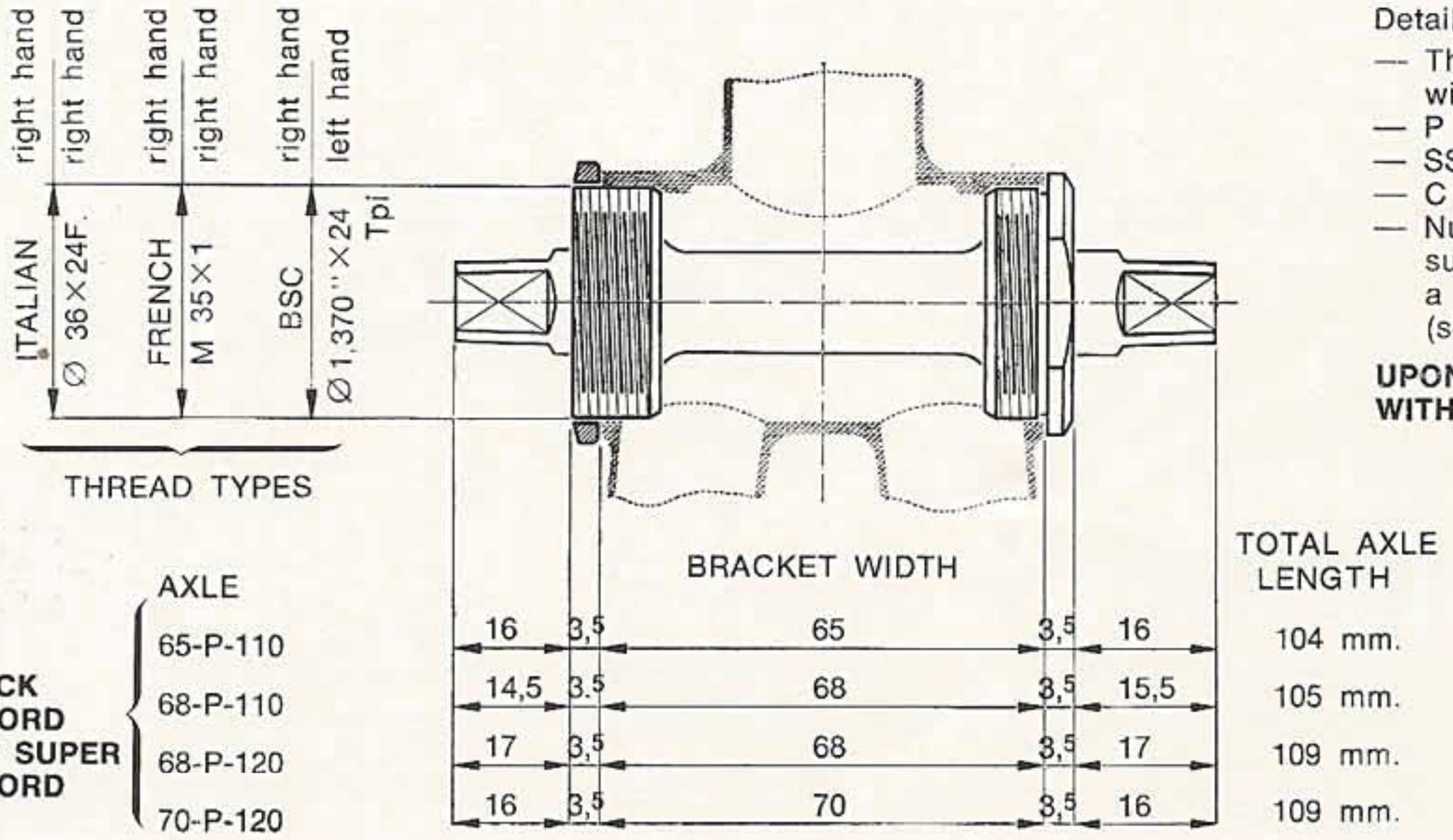


4151



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.

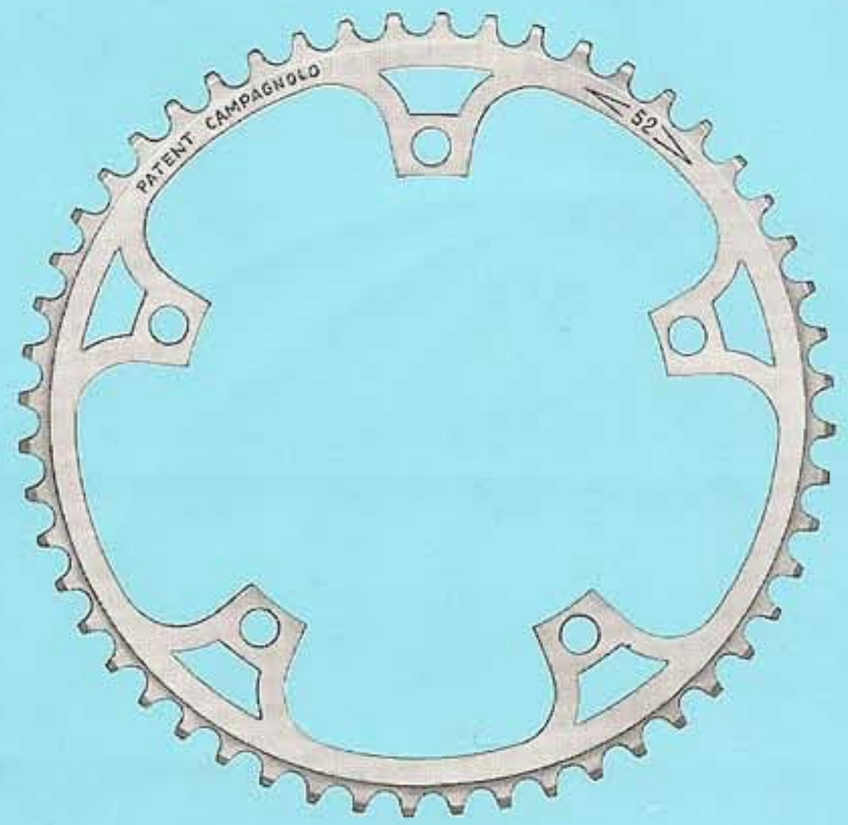
748 Fixing screw
749 Fixing washer
756 Crank cover plate
757 Track right hand crank (complete with cover 756, 170 mm. long). Upon request are furnished the following sizes: 165 - 167,5 - 172,5 - 175 - 177,5 and 180 mm. long
758 Track left hand crank
(complete with cover 756, 170 mm. long). Upon request 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
762 Track chainwheel fastening nut
4035 Set (14+14) special Ø 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



756



758



760/A



757



761



762



748



749



747



4134



4132



4133



749



748



4035

PARTICULAR COMPONENTS OF CAMPAGNOLO SUPER RECORD TRACK GROUP **4100**

4141 Super Record track head set (thread Ø 25.4 x 24F.). Upon request are furnished with thread Ø 25 x 1M. or 1" x 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.

664 Right and left hand track fork ends

665 Right and left hand track fork ends

2102 Set (25+25) special b/b Ø 5/32" balls selected with 1/1000 of mm. tolerance

4042 Super Record locking nut (specify type of threading)

4043 Super Record locking washer

4052 Left hand side support

4053 Right hand side support

4054 Front bracket

4055 Rear bracket

4056 Fixing and adjusting bolt

4057 Bolt nut

4142 Super Record track screwed race (specify type of threading)

4143 Super Record track top head race (0,5 mm. larger gauge available)

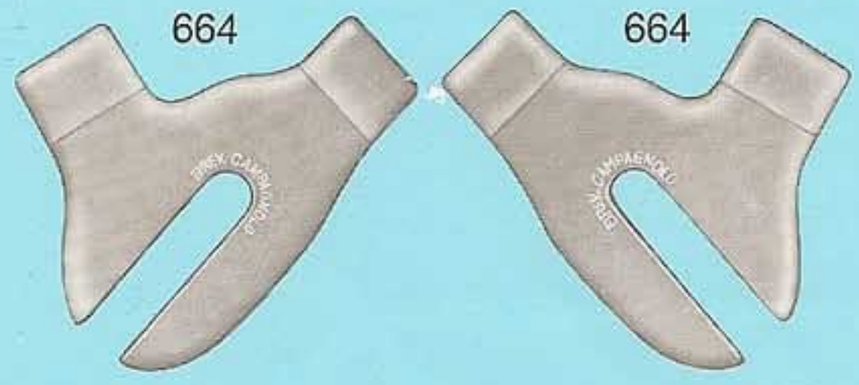
4144 Super Record track bottom head race (0,5 mm. larger gauge available)

4145 Super Record track crown race (smaller diameter available)

4141




4051





665 665



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

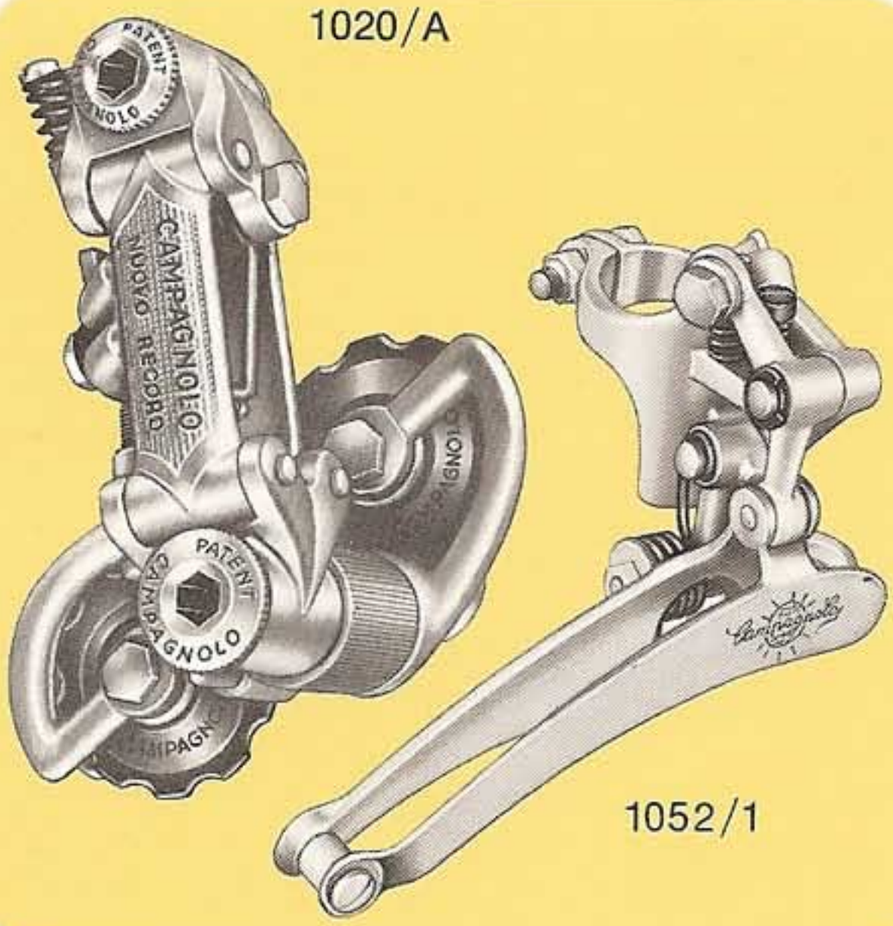
RECORD BRAKES pages 42-43

1032/F CAMPAGNOLO RECORD ROAD GROUP

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

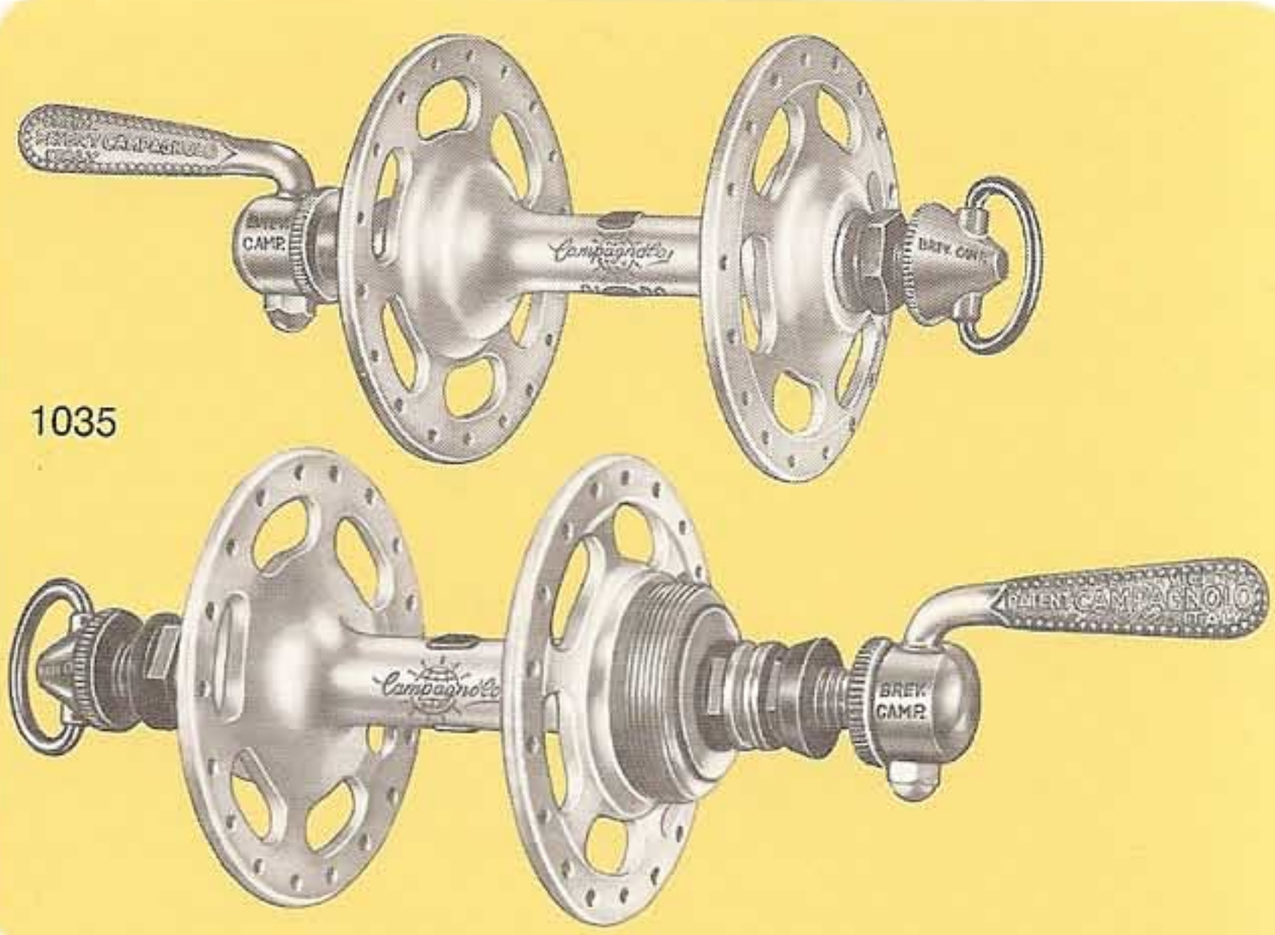
606 Down tube control gear inner wire (118 cm.)
608 Down tube control front changer inner wire (72 cm.)
622 Gear stainless steel outer casing (21 cm.)
626/A Twin gear cable clip
636 Chainstay clip
649 Stainless steel brake cable clip
1010/A Set Record front and rear fork ends without eyelet.
See alternatives on page 41
1014 Twin down tube control lever.
See alternatives on pages 34-35
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

1020/A

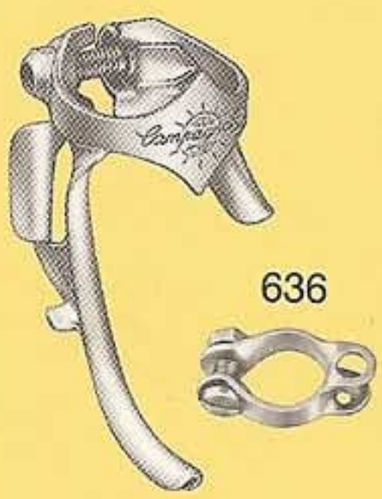


1052/1

1035

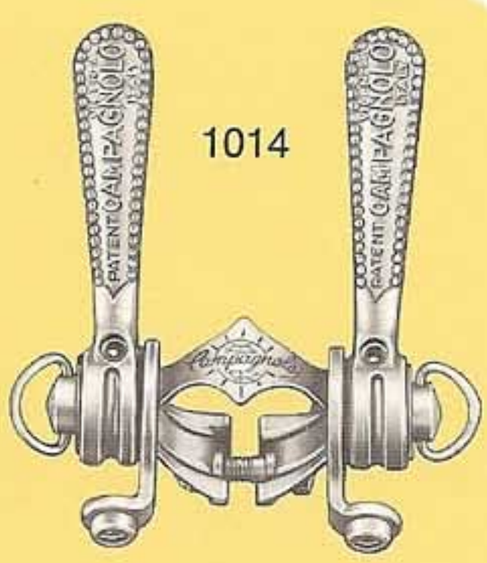


626/A



636

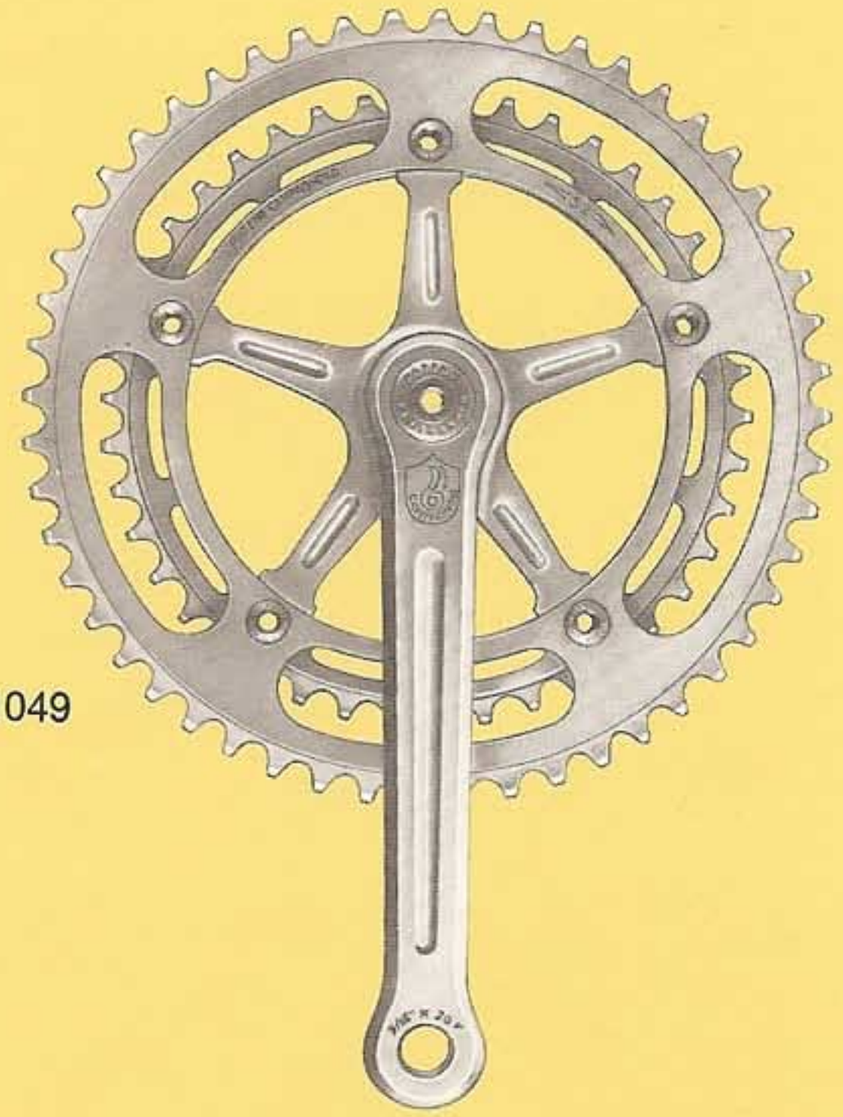
1014



608

606 622

1048



1049



1037









1046/A

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

1037 Pair Record road pedals with steel spindle (spindle thread Ø 9/16" x 20F.). Upon request furnished spindles threaded M.14 x 1,25

1039 Record road head set (thread 25,4 x 24F.). Upon request furnished with thread Ø 25 x 1M. or 1" x 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 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 Ø 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 Ø 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 lenghts 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



1039



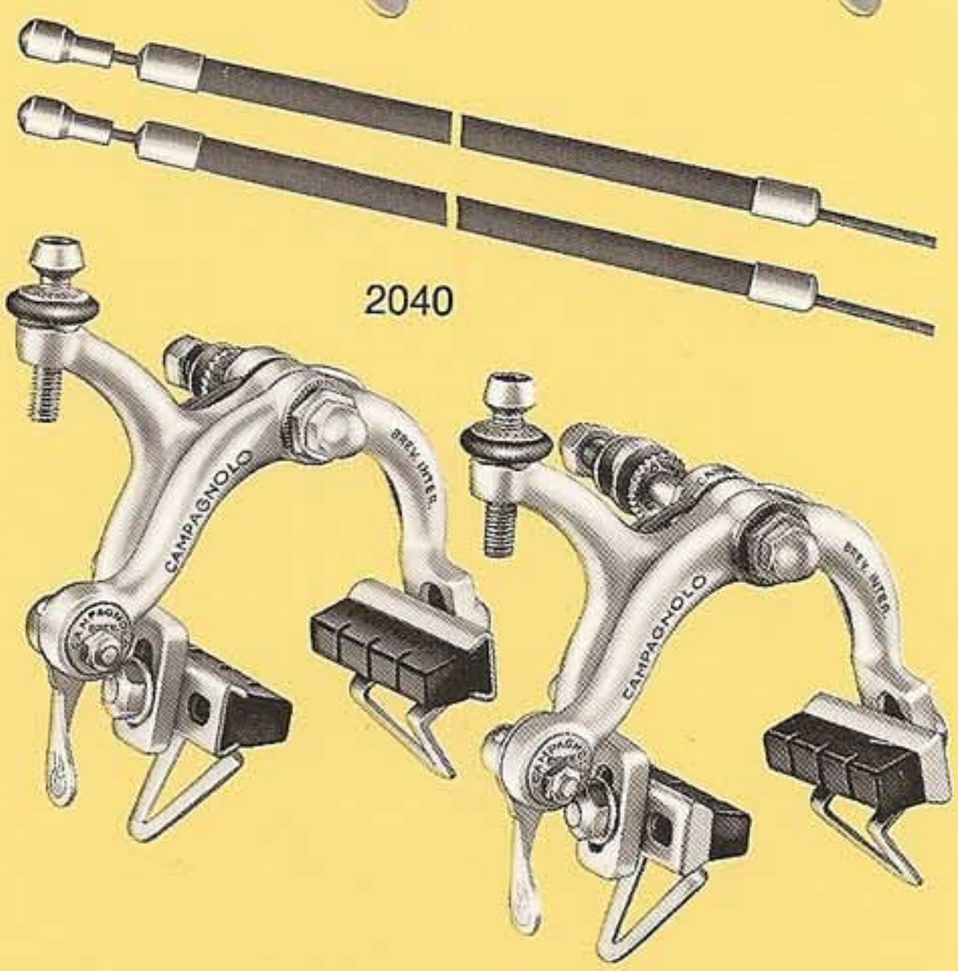
1044



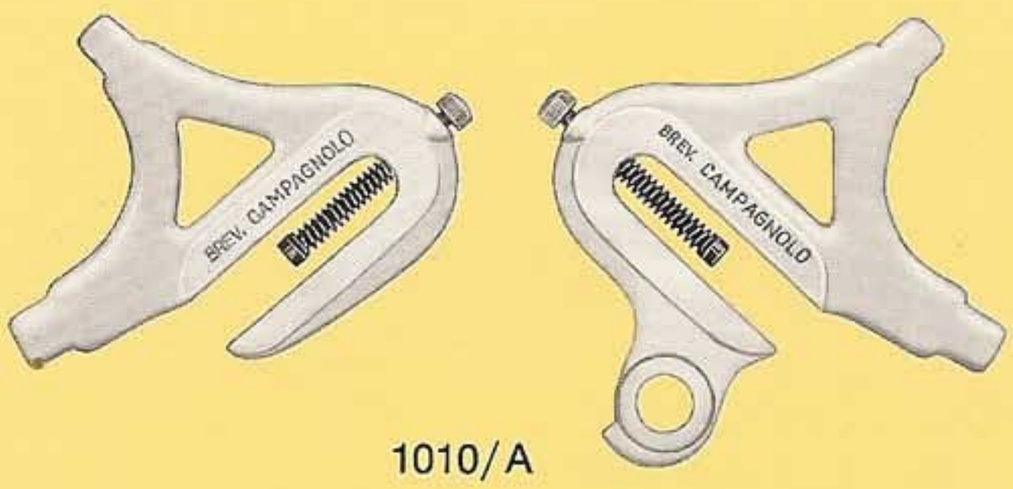


1030/2

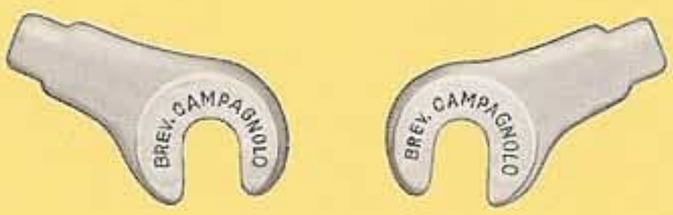




2040

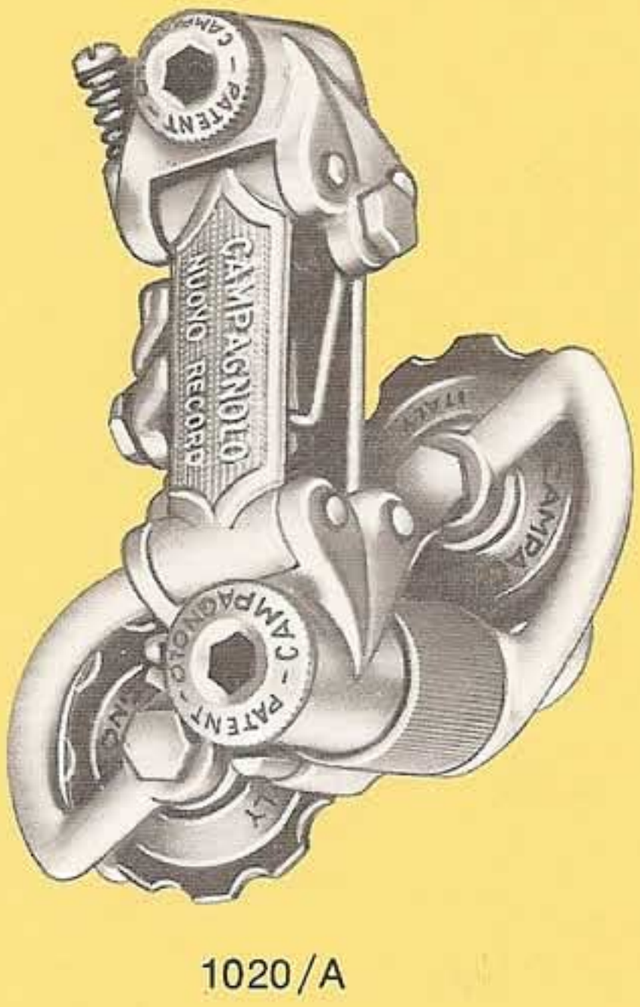


1010/A

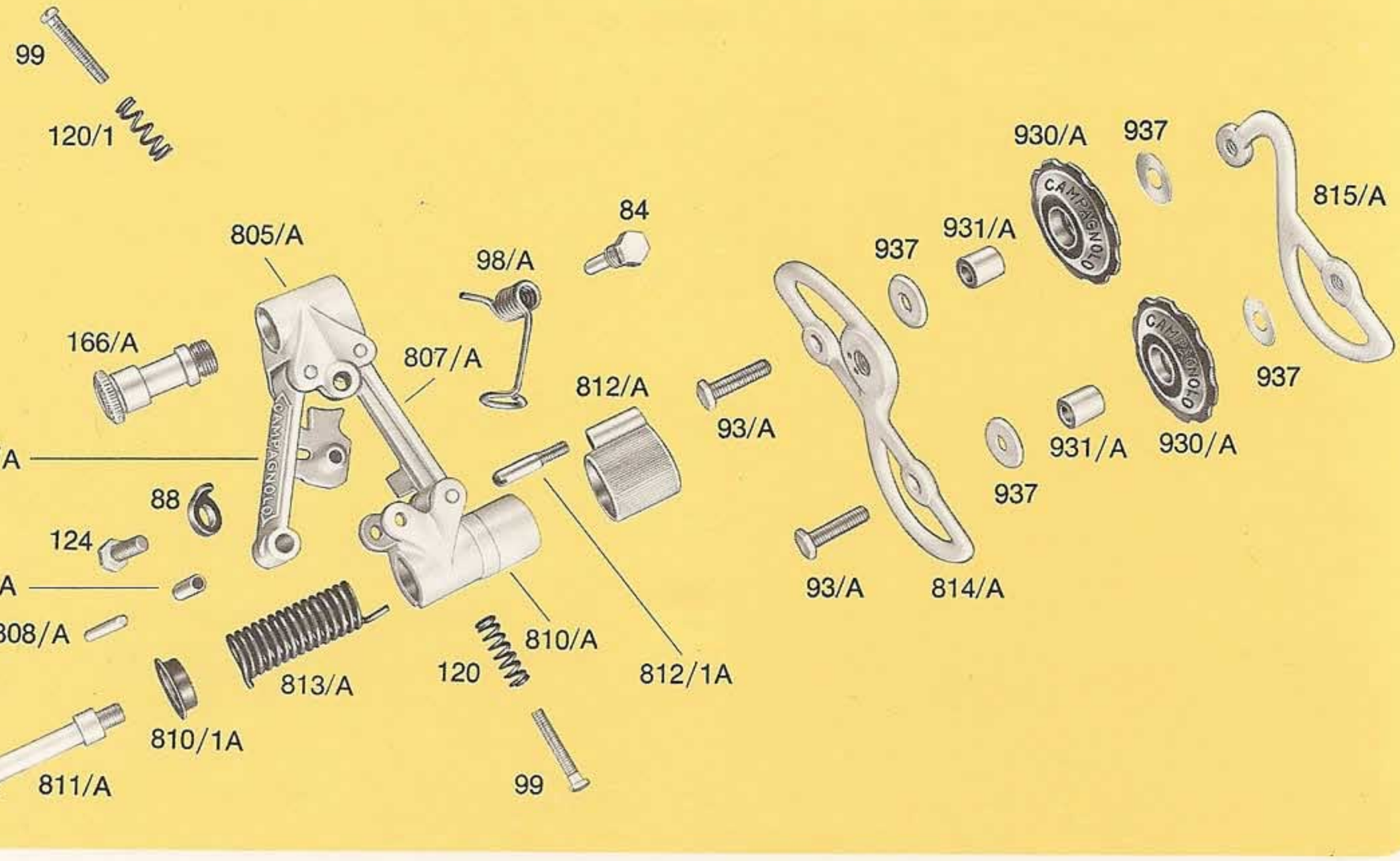


PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP **1032/F**

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

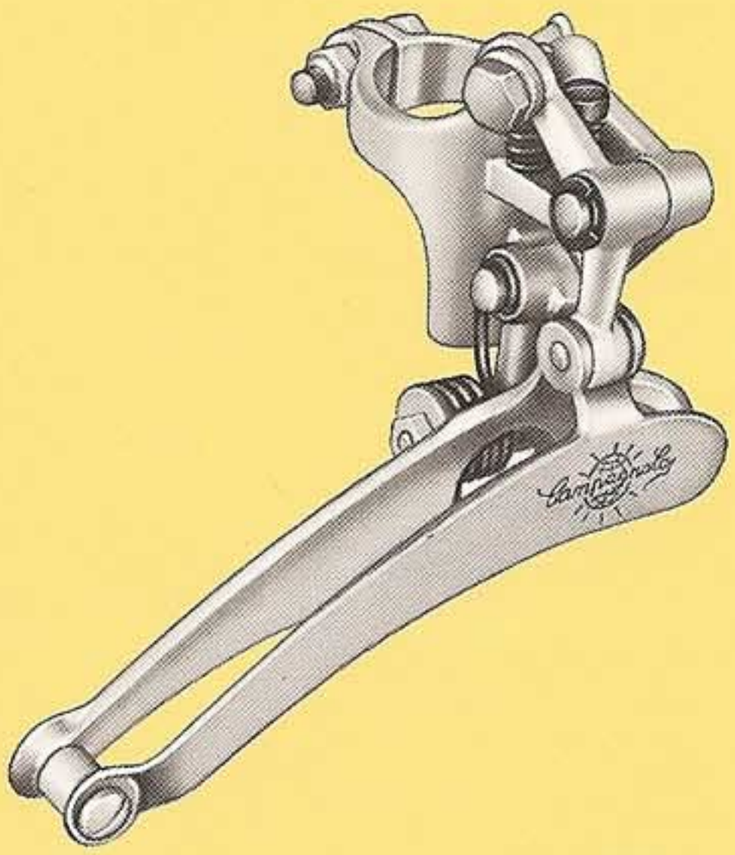


1020/A



PARTICULAR COMPONENTS OF CAMPAGNOLO RECORD ROAD GROUP **1032/F**

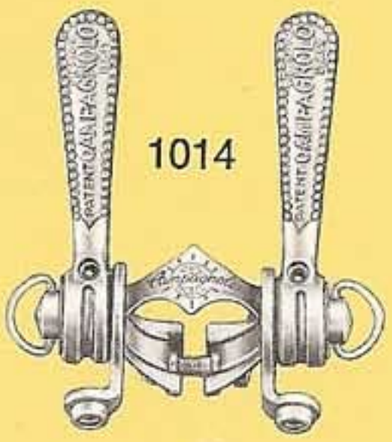
1052/1 Record front changer
89 Locking screw
215 Cage spacing bolt
217 Cage spacer bolt nut
773 Record front changer body (complete with clip and hinge)
773/1 Hinge
773/2 Hinge pin
774 Adjusting screw
775 Adjusting bolt spring
776 Clip fixing screw
777 Nut
778 Upper arm
780 Cable clamp bolt washer
782 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

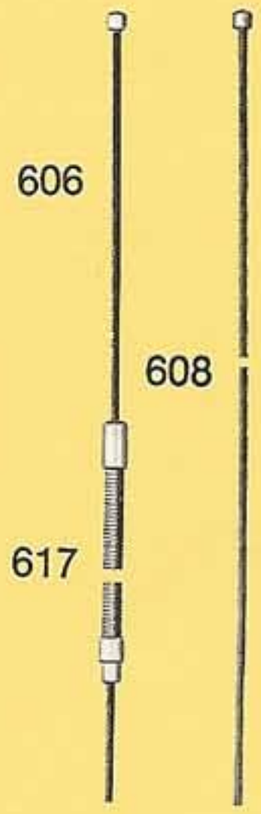


1052/1

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.)


1014

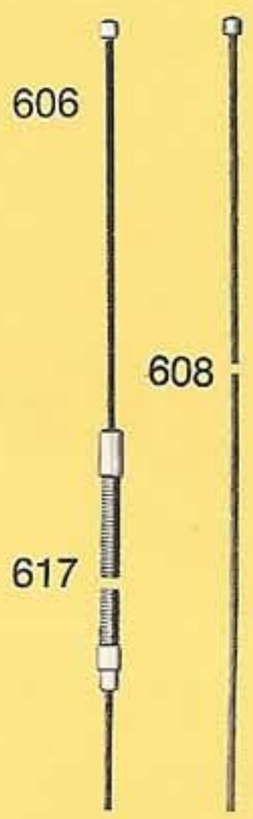

606 608 617


621


663


626/B

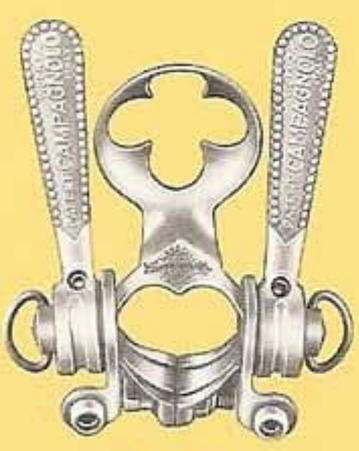

1013/5 1013/6


606 608 617


621


663


626/B

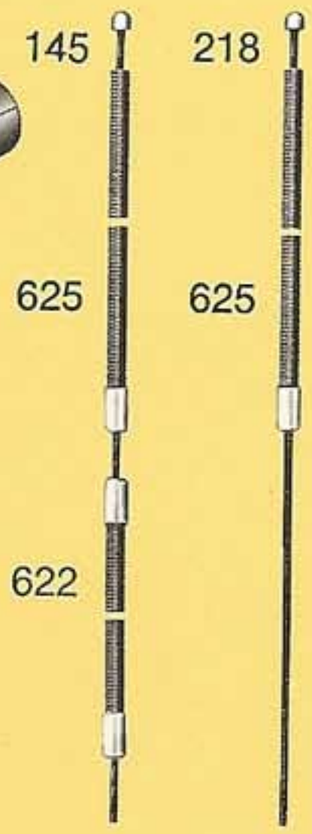

1014/1


606 608 622 623


630


636


1012/3 1012/3


145 218 625 625 622

626/A

629

636


1013/1


606 622


627/A


636

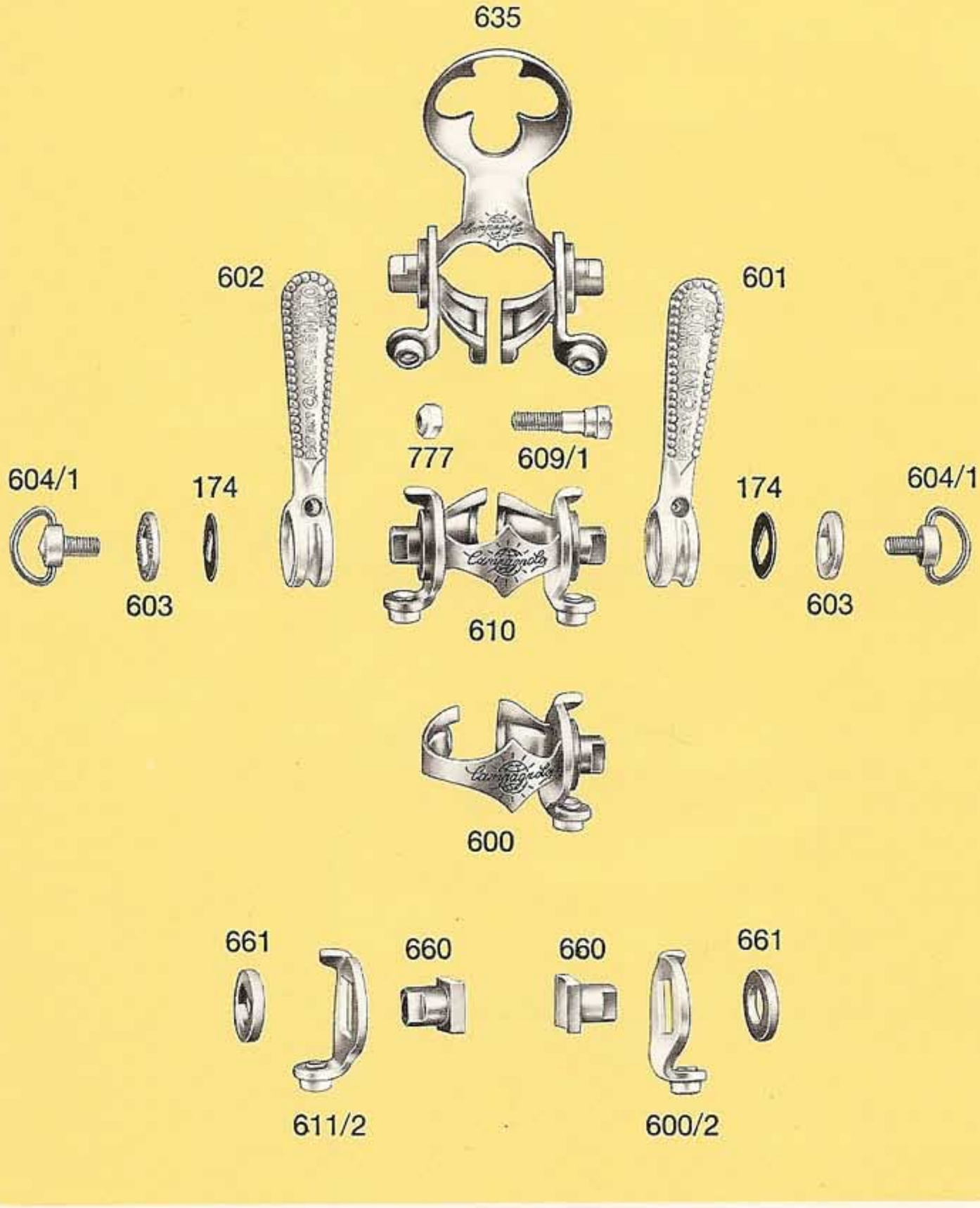

1013/6

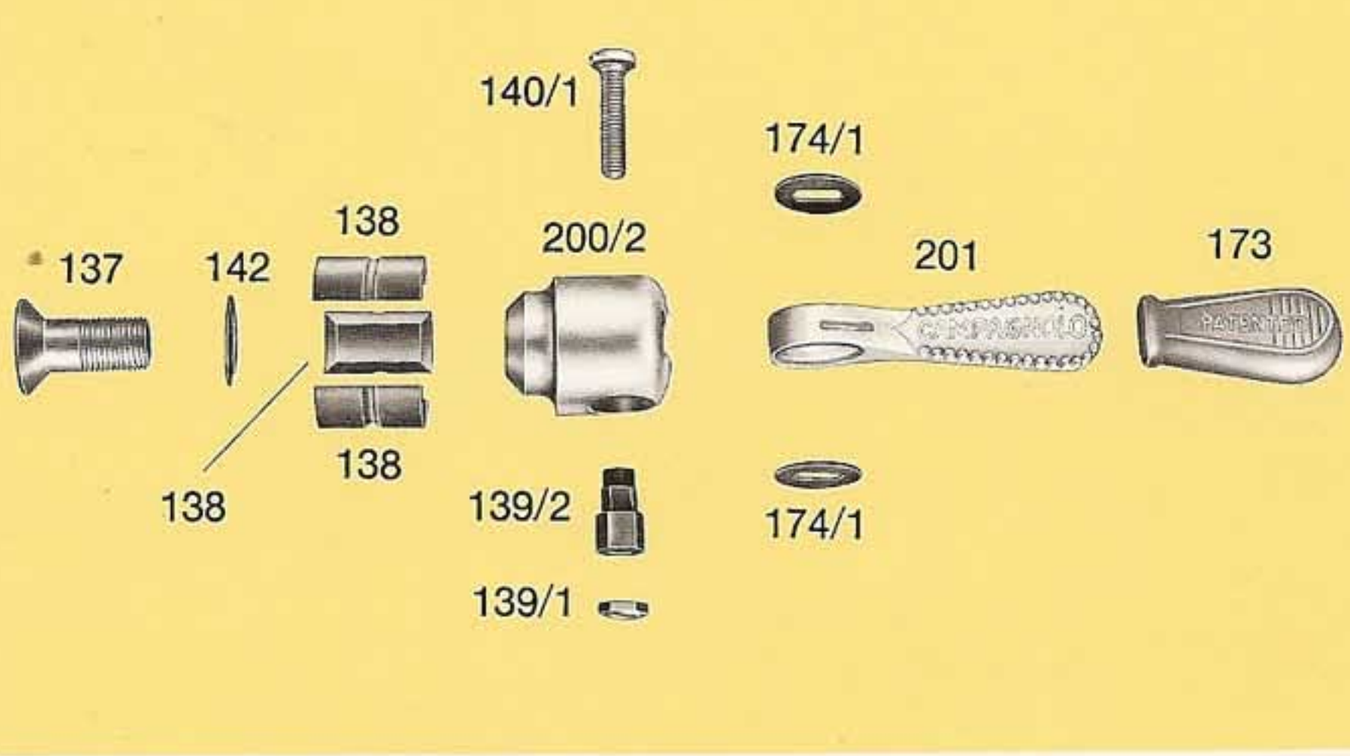

606 617


621


663

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 outer casing (15,5 cm.)
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 ∅ 35 x 24F.). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi-BSC

1034/A Record road small flange front hub

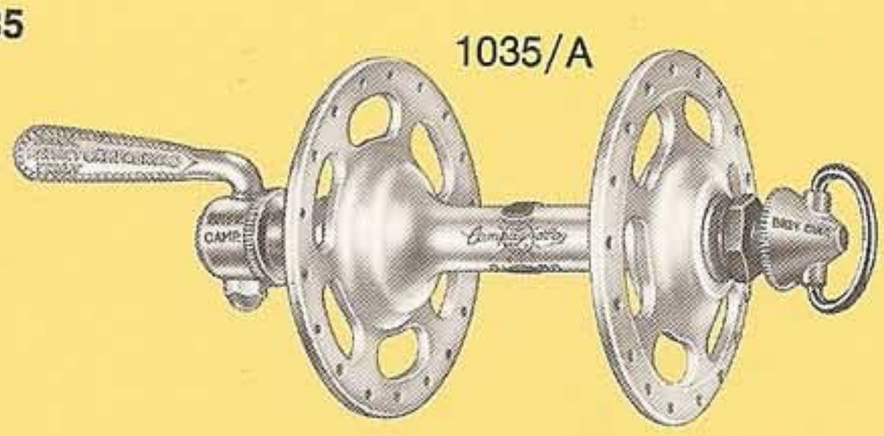
1034/P Record road small flange rear hub

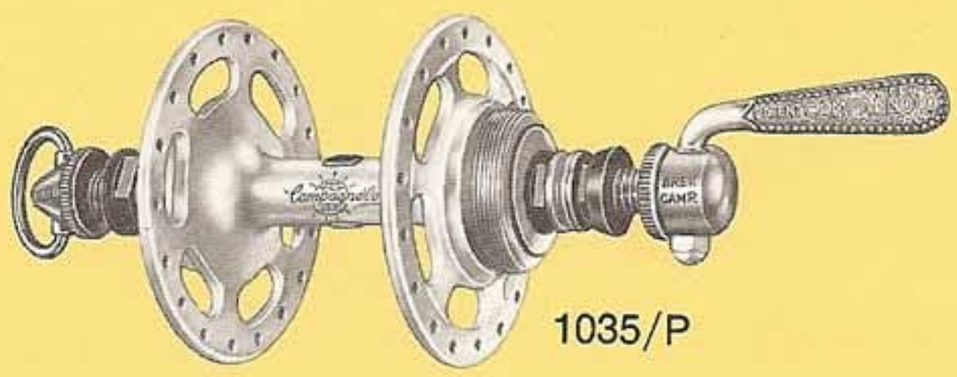
1035 Pair Record large flange quick release road hubs (front width 100 mm. - rear width 120 mm., flanges with 36 holes, thread ∅ 35 x 24F.). Upon request furnished with rear hub suitable for 6 sprockets, width 125 mm., flanges with 24 - 28 - 32 - 40 holes, thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi-BSC

1035/A Record road large flange front hub

1035/P Record road large flange rear hub

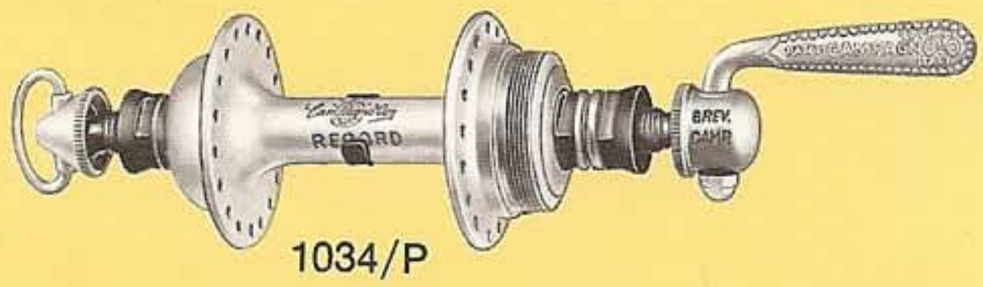
1035

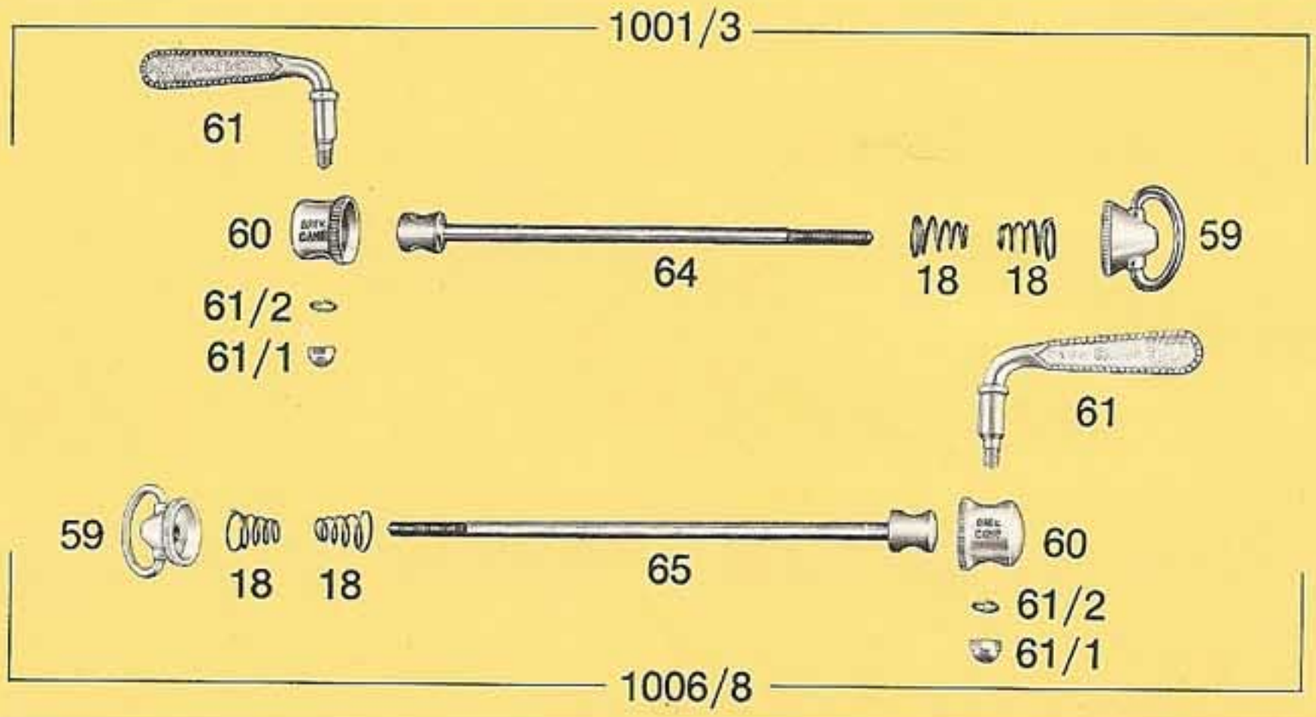


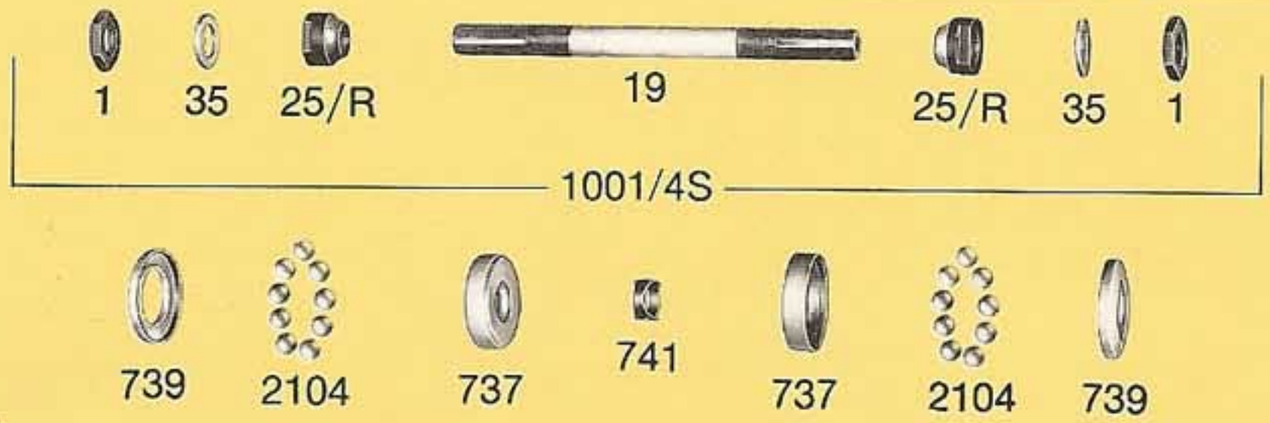


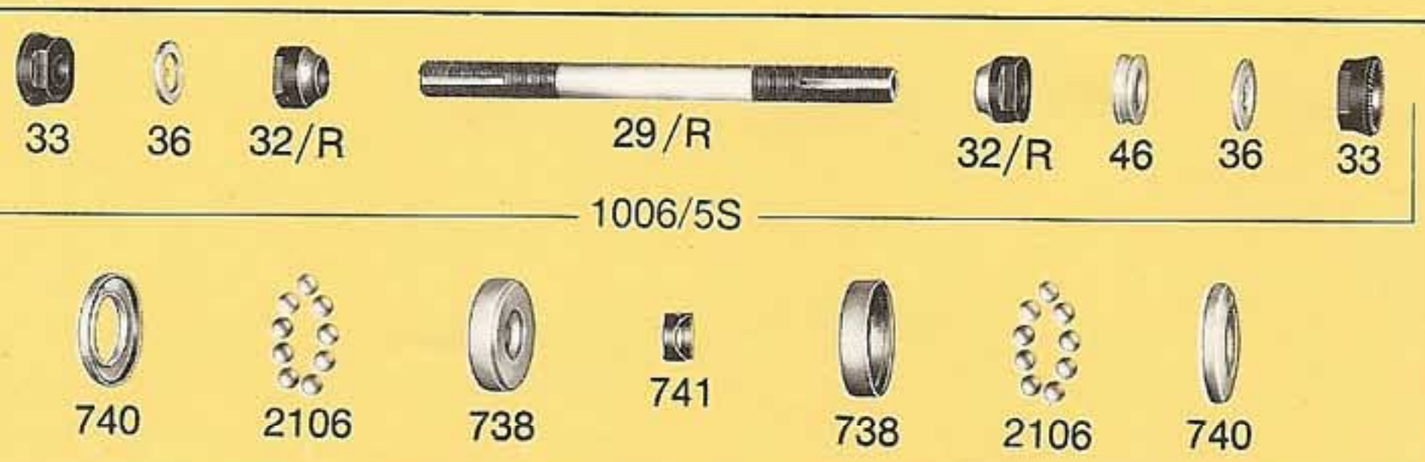
1034











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 ∅ 7/32" balls selected with 1/1000 of mm. tolerance
2106 Set (9+9) special ∅ 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 ∅ 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 ∅ 9/16" x 20F. Upon request are furnished with thread M.14 x 1,25

670 Right hand pedal axle with thread ∅ 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

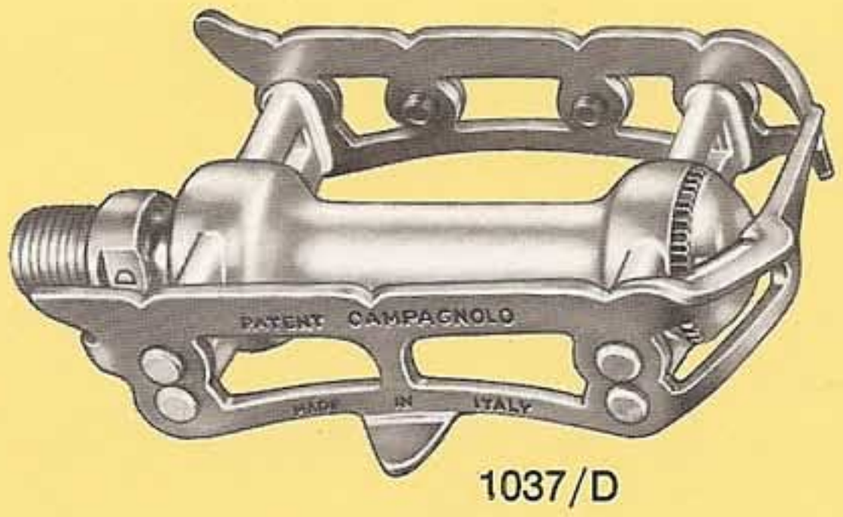
679/A Superlight pedal dust cap

2103 Set (48) special ∅ 5/32" pedal balls selected with 1/1000 of mm. tolerance

1037

1037/S

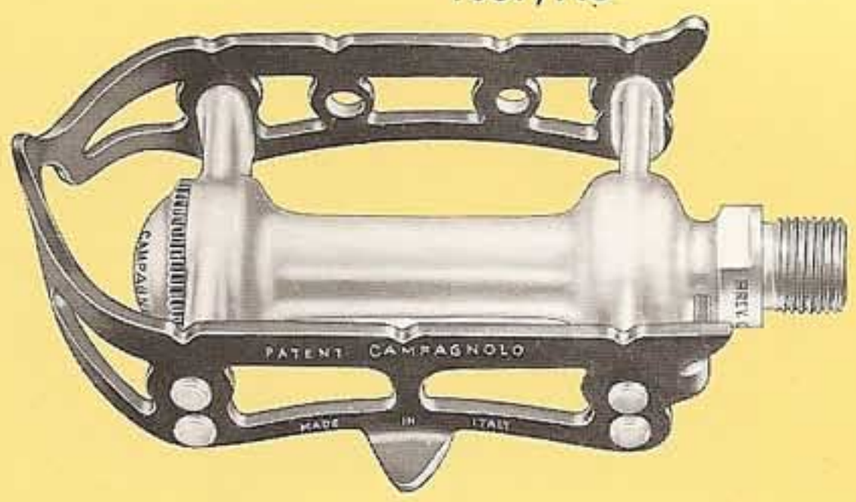




1037/D

1037/A

1037/AS





1037/AD



672



672



674



673



675



678



679



89



677



676



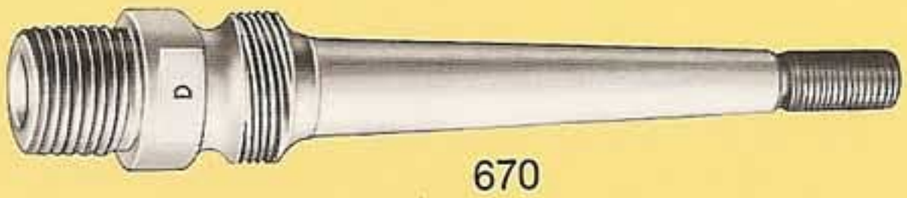
2103



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 Ø 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 Ø 36 x 24F.).

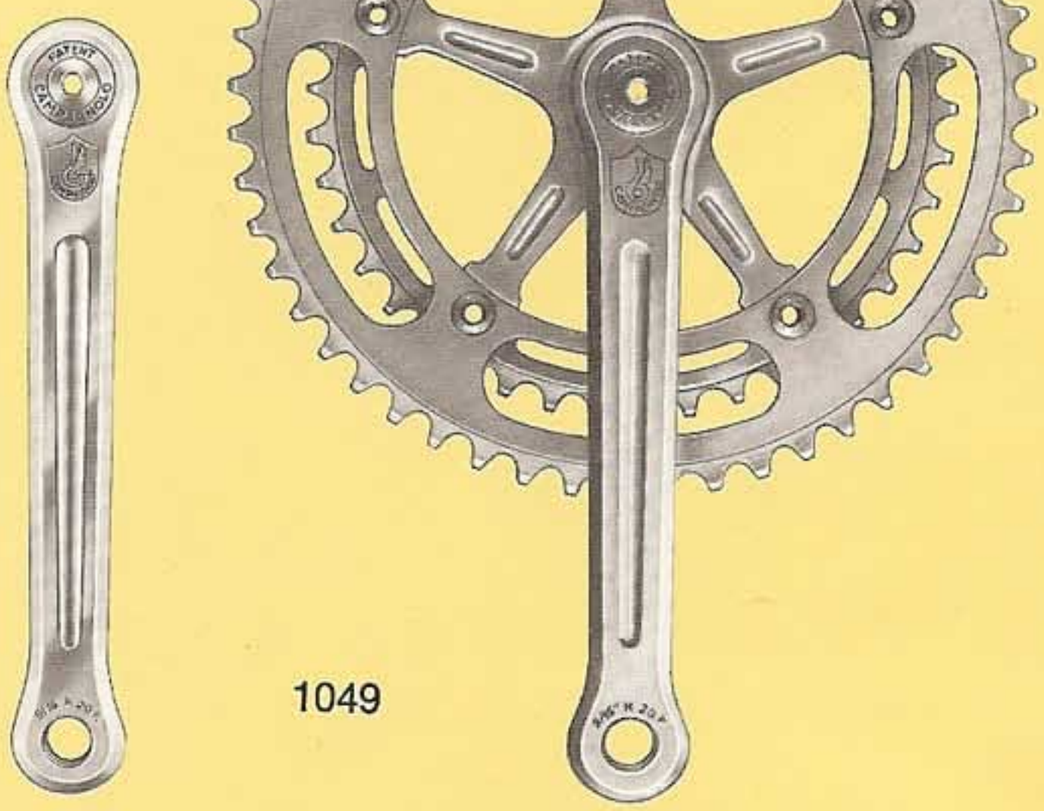
744/A Nuovo Record cotterless road spindle. See measurements and indicate spindle size

745/A Fixed cup. Indicate required thread

746/A Adjustable cup. Indicate required thread

747 Lockring with normal 3,5 mm.

1048

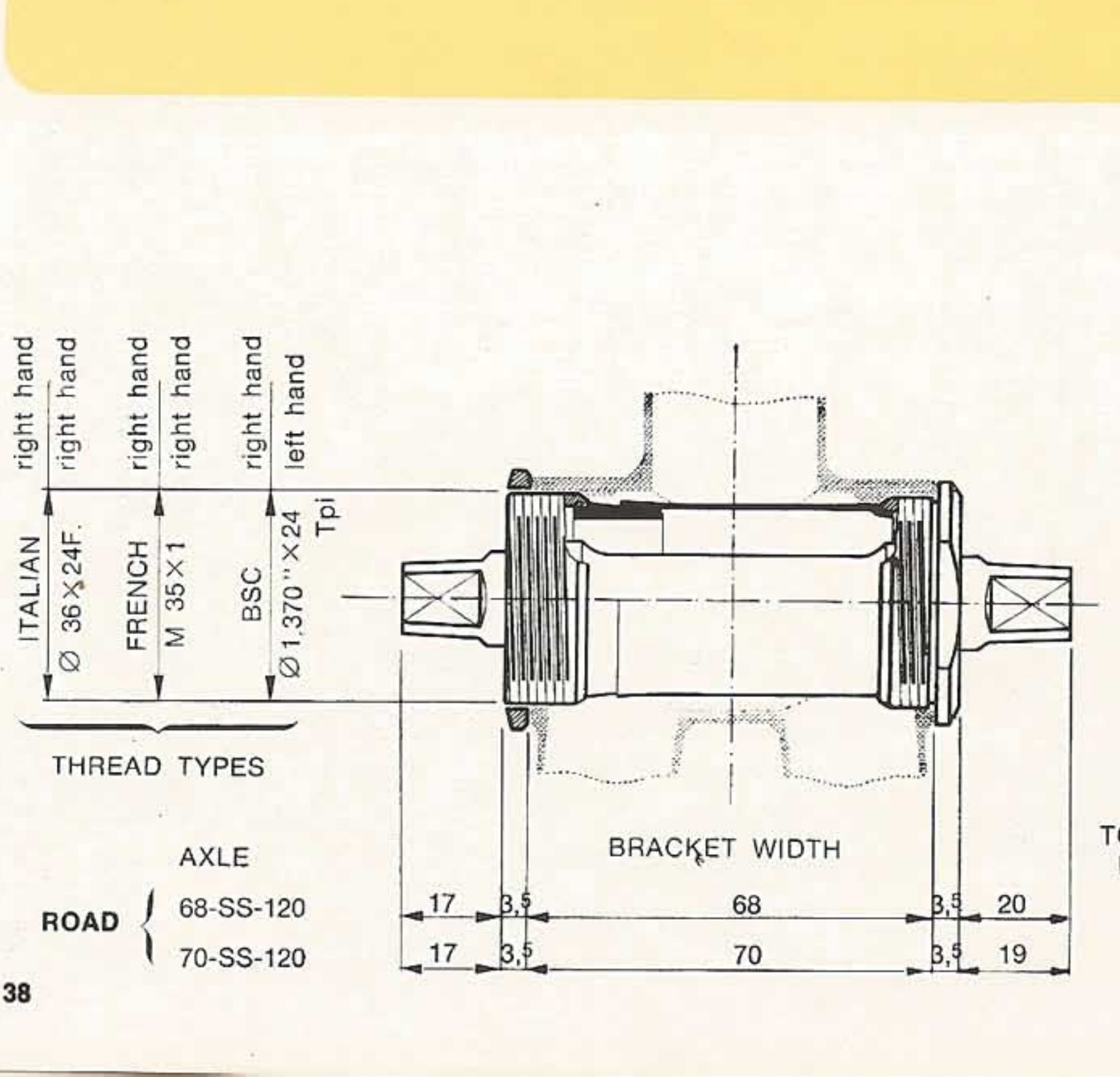


1049



1046/A





	AXLE	TOTAL AXLE LENGTH
ROAD	68-SS-120	112 mm.
	70-SS-120	113 mm.

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.

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 in 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 in 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

754 Road chainwheel fastening screw

755 Road chainwheel fastening nut

756 Crank cover plate

801 Spacer for single chainring

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

2110 Record sleeve

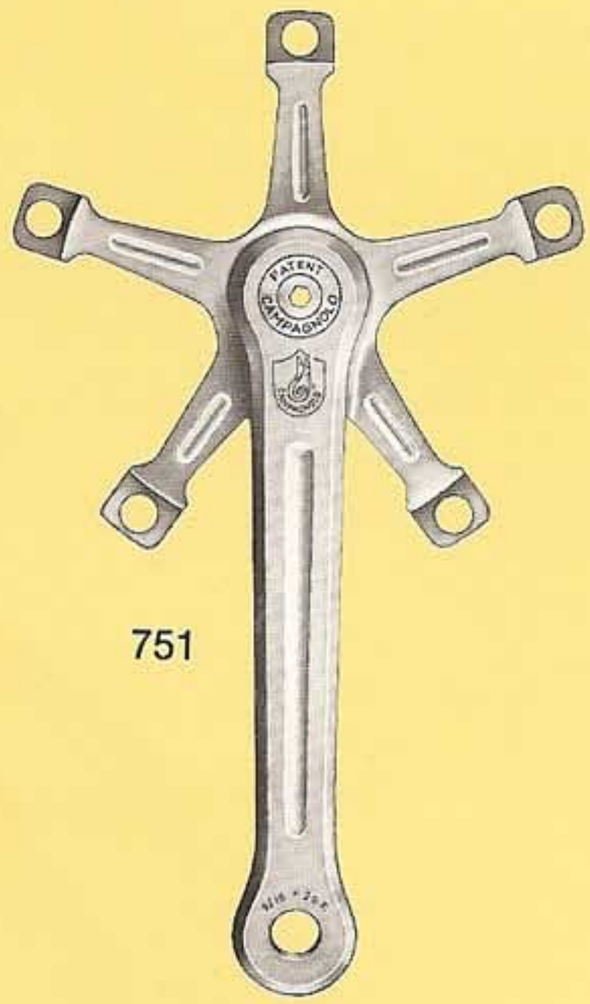
2110/1 Cone for sleeve



752



753



751



756



755



754



801



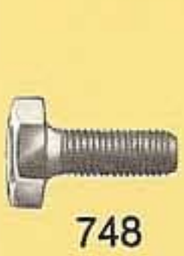
2110/1



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 Ø 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



124



677



300



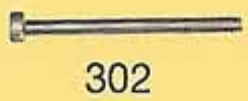
301



2



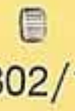
2



302



303



302/1

1010/A



300/A



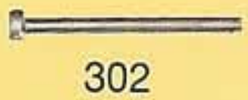
301/A



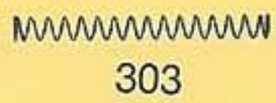
2/A



2/A



302



303



302/1



1030



1030/1



1030/2

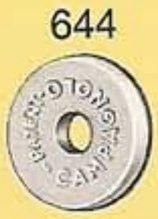


1030/3

3346



643



644



646



653



640



645



642



641



3351

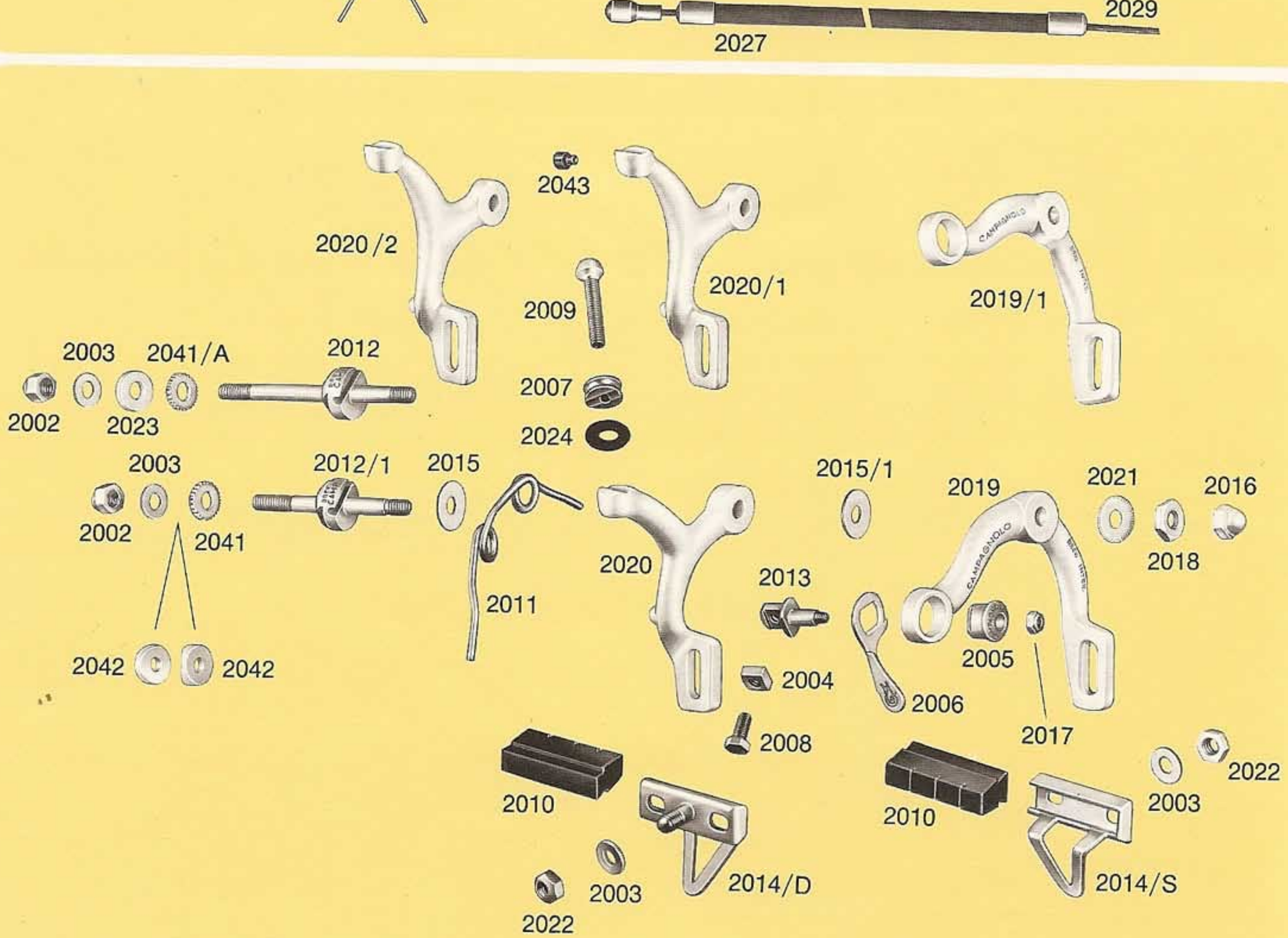


3349

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

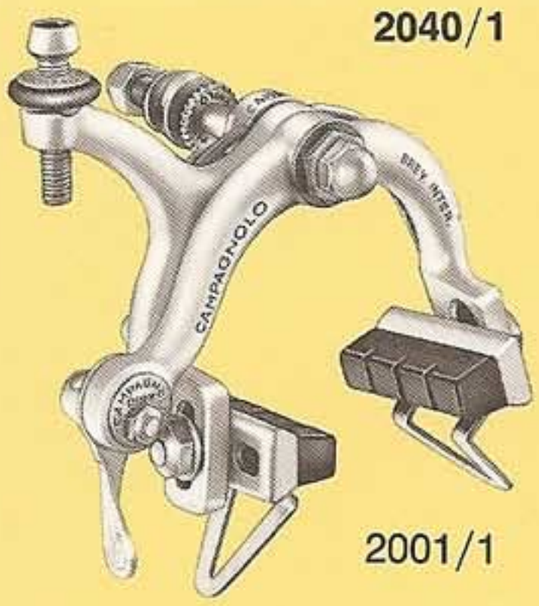




2015 Friction washer
2015/1 Inner friction washer
2016 Domed nut
2017 Cam locking nut
2018 Locking nut
2019 Stirrup arm
2019/1 Small brake front stirrup
2020 Rear stirrup
2020/1 Small front brake rear stirrup
2020/2 Small rear brake rear stirrup
2021 Milled washer

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

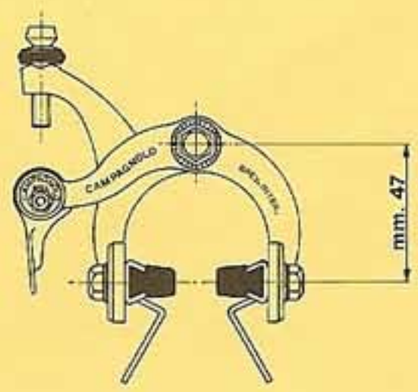
2034 Lever pivot pin
2036 Grub screw
2037 Clamp nut
2038 Lever bush
2039 Rubber lever hood
2041 Serrated washer for rear brake
2041/A Serrated washer for front brake
2042 Concave washer for rear brake.
(Upon request is furnished
for round breast band)
2043 Lever rubber for small brake





2001/1

2000/1

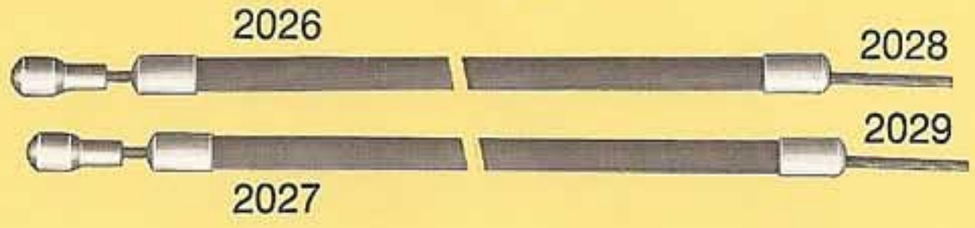




2030



2030



2026

2028

2029

2027

2039



2031



2037

2036



2033

2029

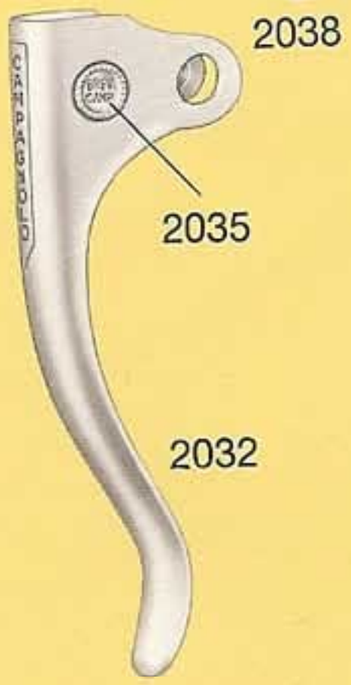


2027

2038

2034

2038



2035

2032

2028

2026

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

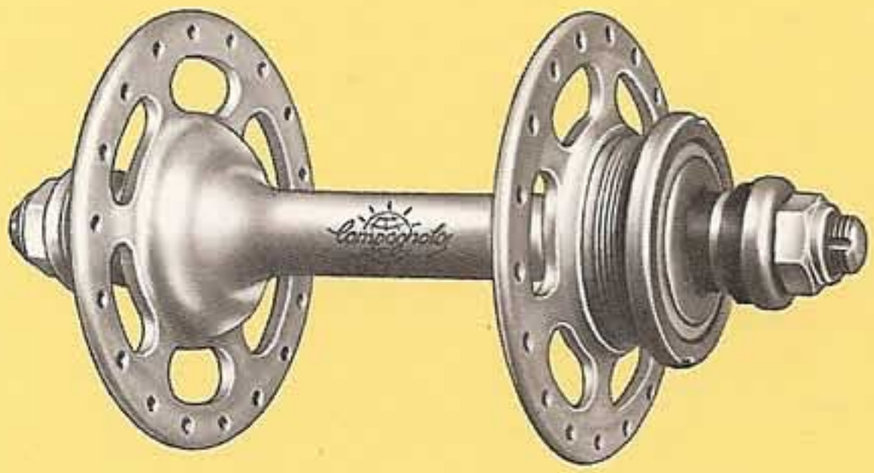
RECORD TRACK HEAD SET -
RECORD SEAT PIN-FORK ENDS page 52

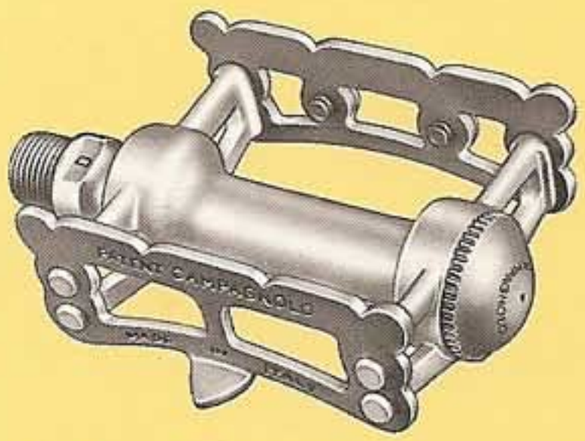
1033
CAMPAGNOLO RECORD TRACK GROUP

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

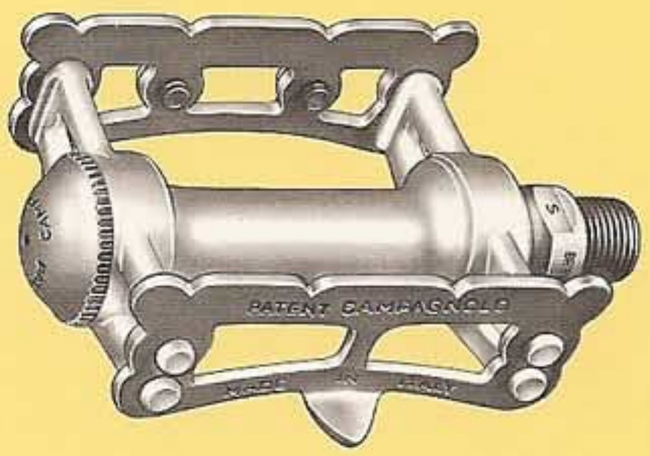


1036





1038



1050



1051

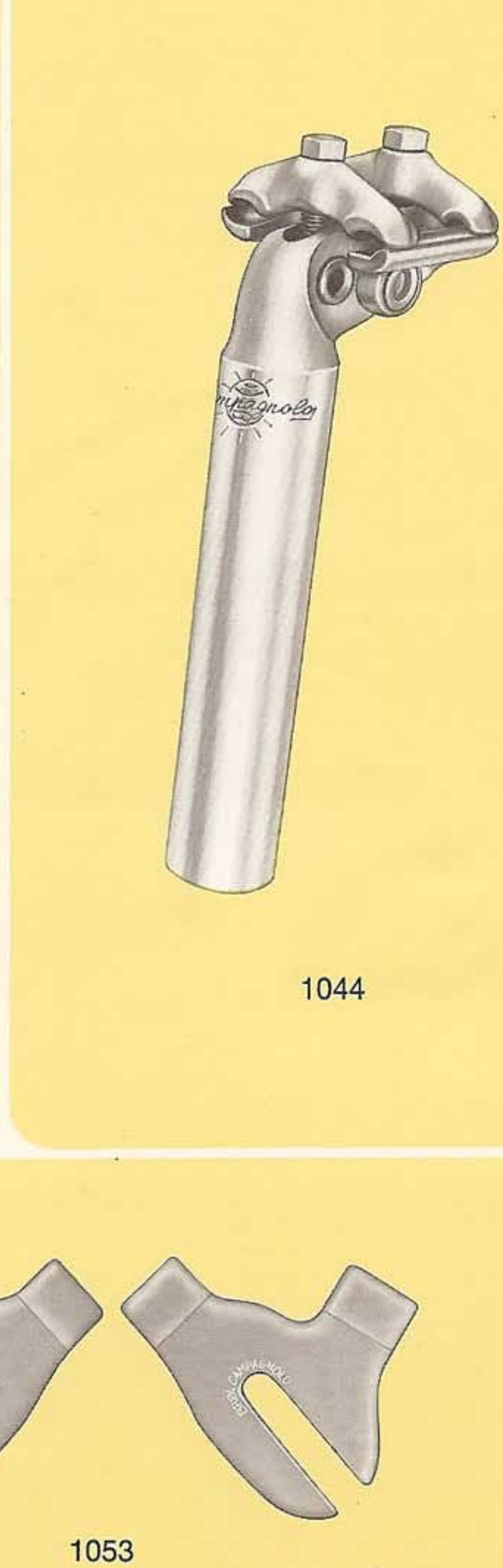


1046





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 Ø 35 x 24F.). Upon request furnished with rear hub width 120 mm., flanges with 24 - 28 - 32 - 40 holes, thread Ø 34,7 x 1M. or 1,370" x 24 Tpi-BSC. See other alternatives on page 48

1038 Pair Record track pedals (spindle thread Ø 9/16" x 20F.). Upon request furnished spindles threaded M. 14 x 1,25. See page 49

1040 Record track head set (thread Ø 25,4 x 24F.). Upon request furnished with thread Ø 25 x 1M. or 1" x 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 Ø 36 x 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 Ø 9/16" x 20F. and chainring for chain 1/2" x 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" x 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**

1050 Record track chainwheel set with track bottom bracket

1046 Record bottom bracket set (bracket width 70 mm. and cups threaded ∅ 36 x 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 ∅ 9/16" x 20F. and chainring for chain 1/2" x 1/8" [3 mm.]). Specify the number of teeth of the chainring available from

1050



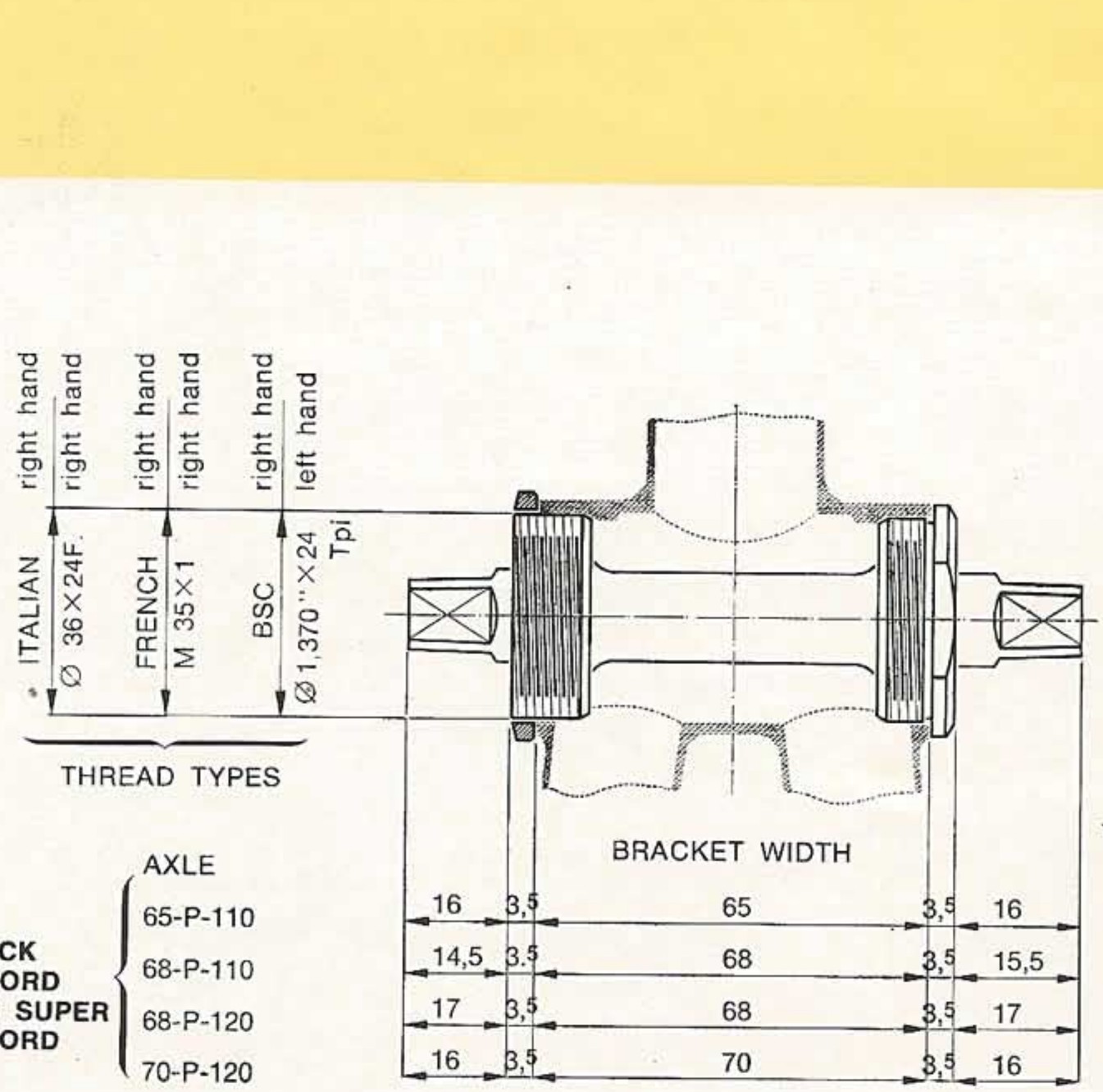


1051



1046





	AXLE	TOTAL AXLE LENGTH
TRACK RECORD AND SUPER RECORD	65-P-110	104 mm.
	68-P-110	105 mm.
	68-P-120	109 mm.
	70-P-120	109 mm.

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.

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)

Indicate required thread

748 Fixing screw

749 Fixing washer

756 Crank cover plate

757 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

758 Track left hand 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 and chainrings for chain 1/2" x 3/32" (2 mm.).

760 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

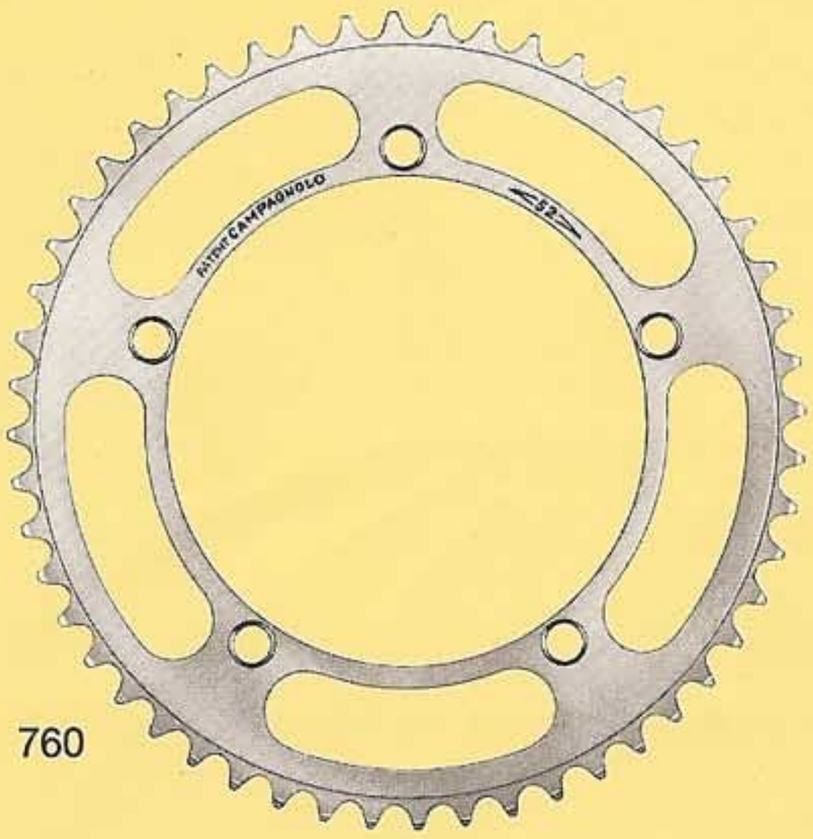
762 Track chainwheel fastening nut

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

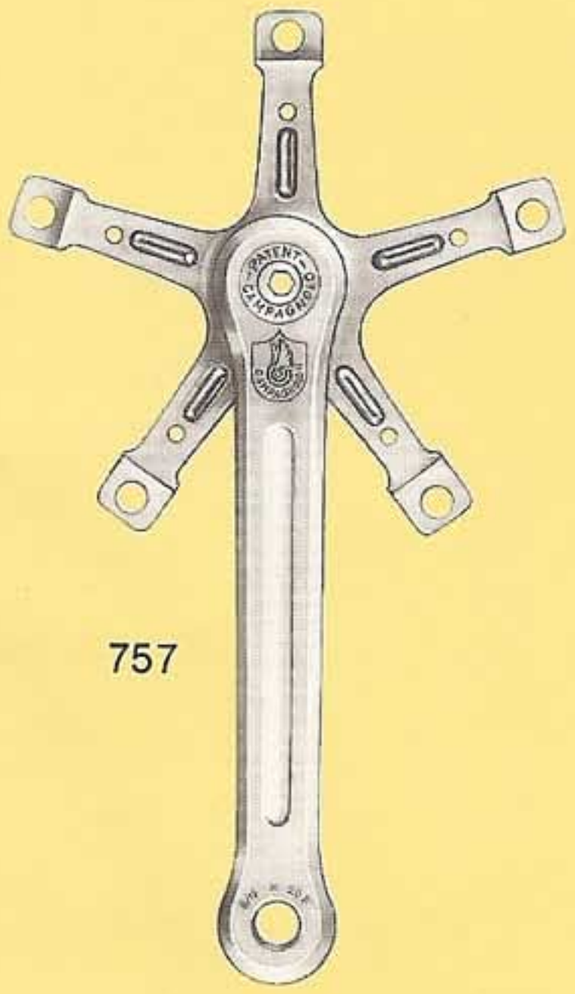
758



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 Ø 25,4 x 24F.). Upon request furnished with thread Ø 25 x 1 M. or Ø 1" x 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

1053 Set track front and rear fork ends

681 Locking nut (specify type of threading)

682 Locking washer

687 Track screwed race (specify type of threading)

688 Track top head race (0,5 mm. larger gauge available)

689 Track bottom head race (0,5 mm. larger gauge available)

690 Track crown race (smaller diameter available)

698 Front bracket

699 Rear bracket

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 Ø 5/32" balls selected with 1/1000 of mm. tolerance

1040



681



682



687



688



689



690



2102



1044

1053



698



699



703



701



702



700

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

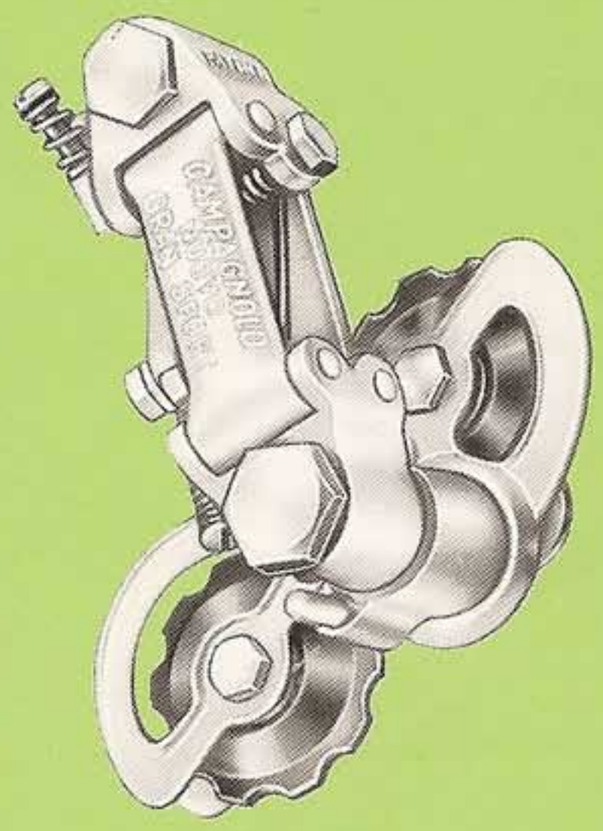
ROAD SPORT CHAINWHEEL SET AND
BOTTOM BRACKET SET pages 62-63

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)

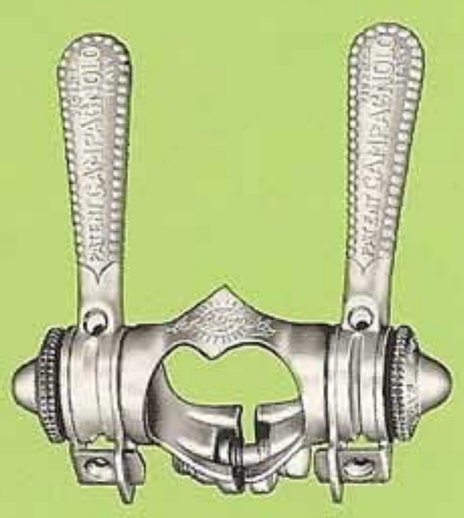
606 Down tube control gear inner wire (118 cm.)
608 Down tube control front changer inner wire (72 cm.)
622 Gear stainless steel outer casing (21 cm.)
626/A Twin gear cable clip
636 Chainstay clip
1010 Set Record front and rear fork ends
1014/1A Gran Sport twin down tube control lever. See alternatives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



3500



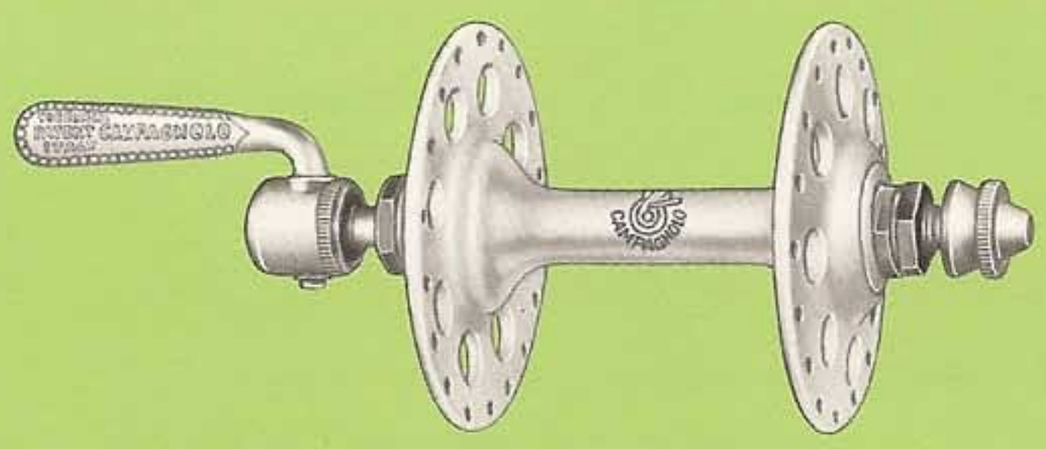
2050



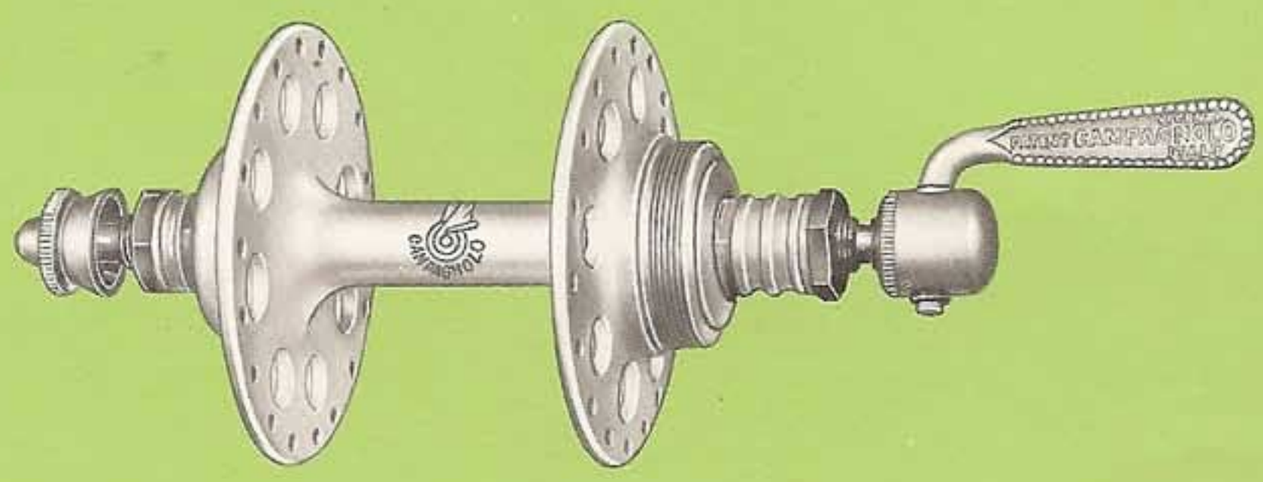
1014/1A



608 606 622



1253





626/A



636

1040/A Sport head set (thread Ø 25,4 x 24F.). Upon request are furnished with thread Ø 25 x 1M. or Ø 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 Ø 35 x 24F.). Upon request furnished with thread Ø 34,7 x 1M. or Ø 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 Ø 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

3330/A Sport chainwheel set

3331 Sport bottom bracket set (bracket width 70 mm. and cups threaded Ø 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)

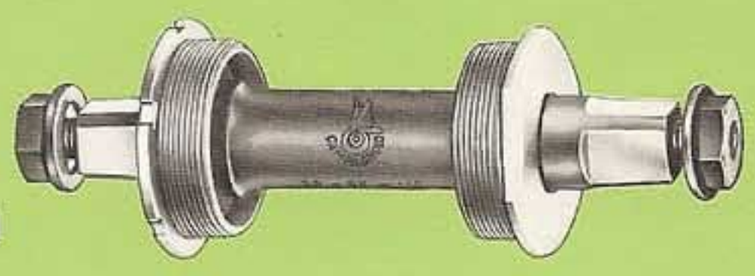
3330/A

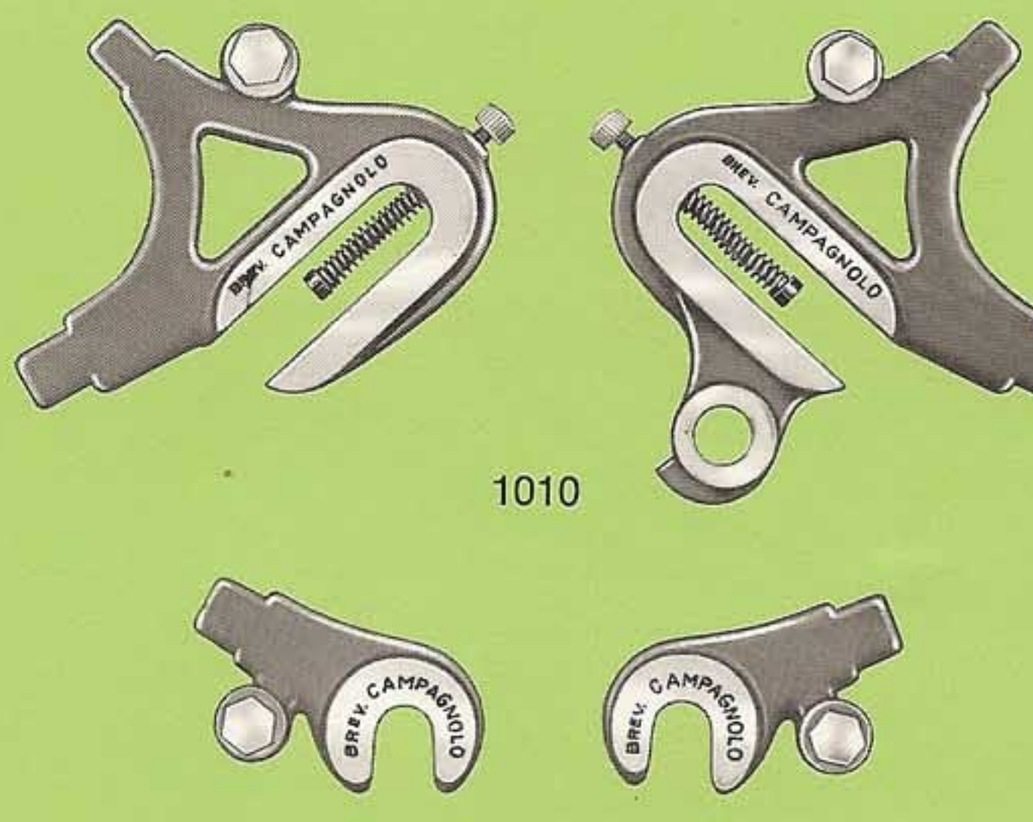


3320/A



3331





1010

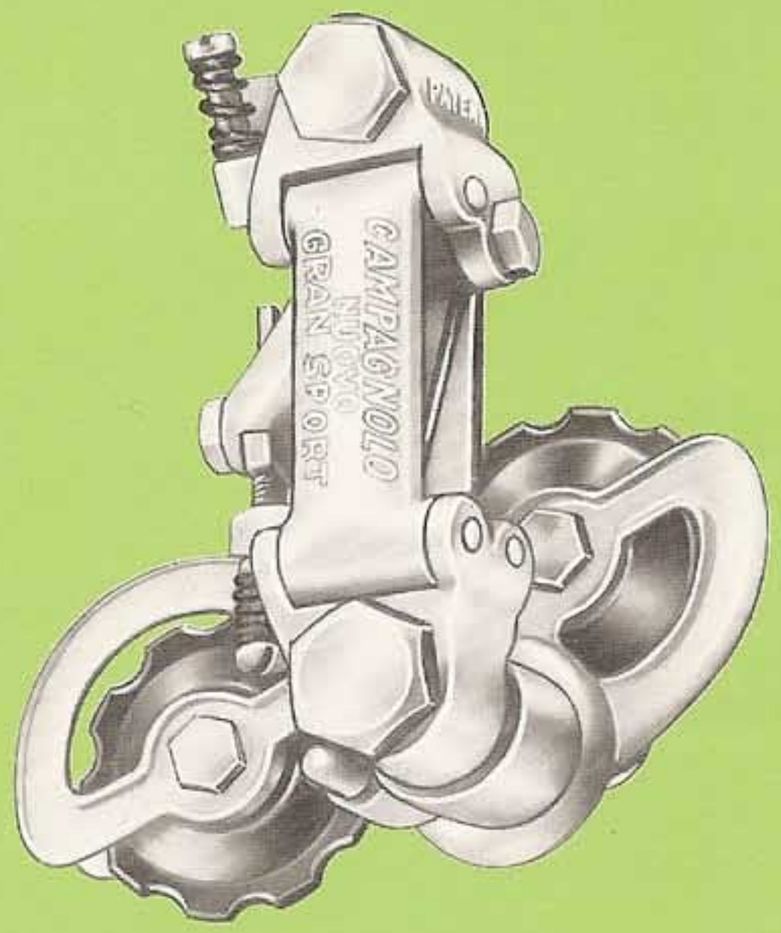




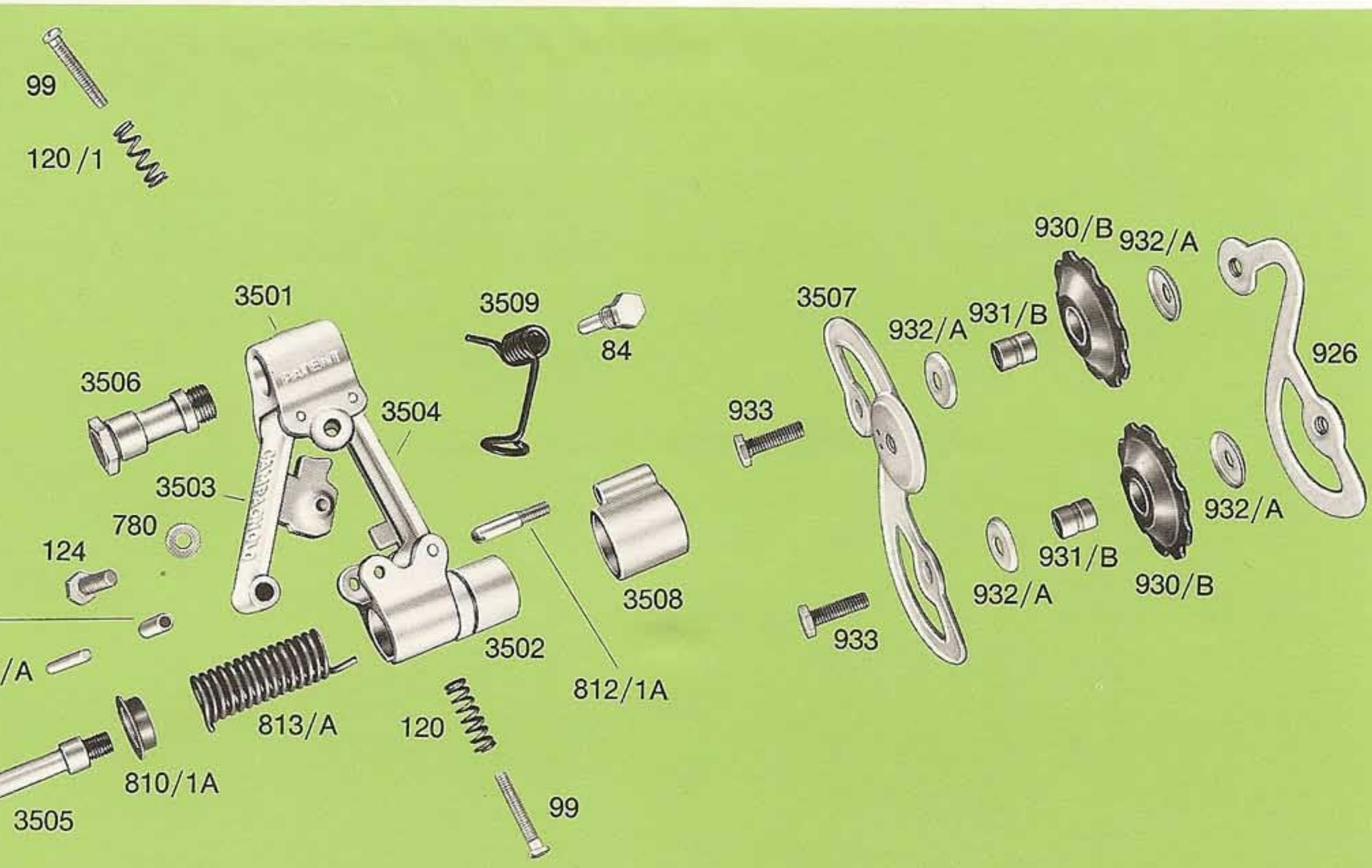
1040/A

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



1014/1A



626/A



636

606

608

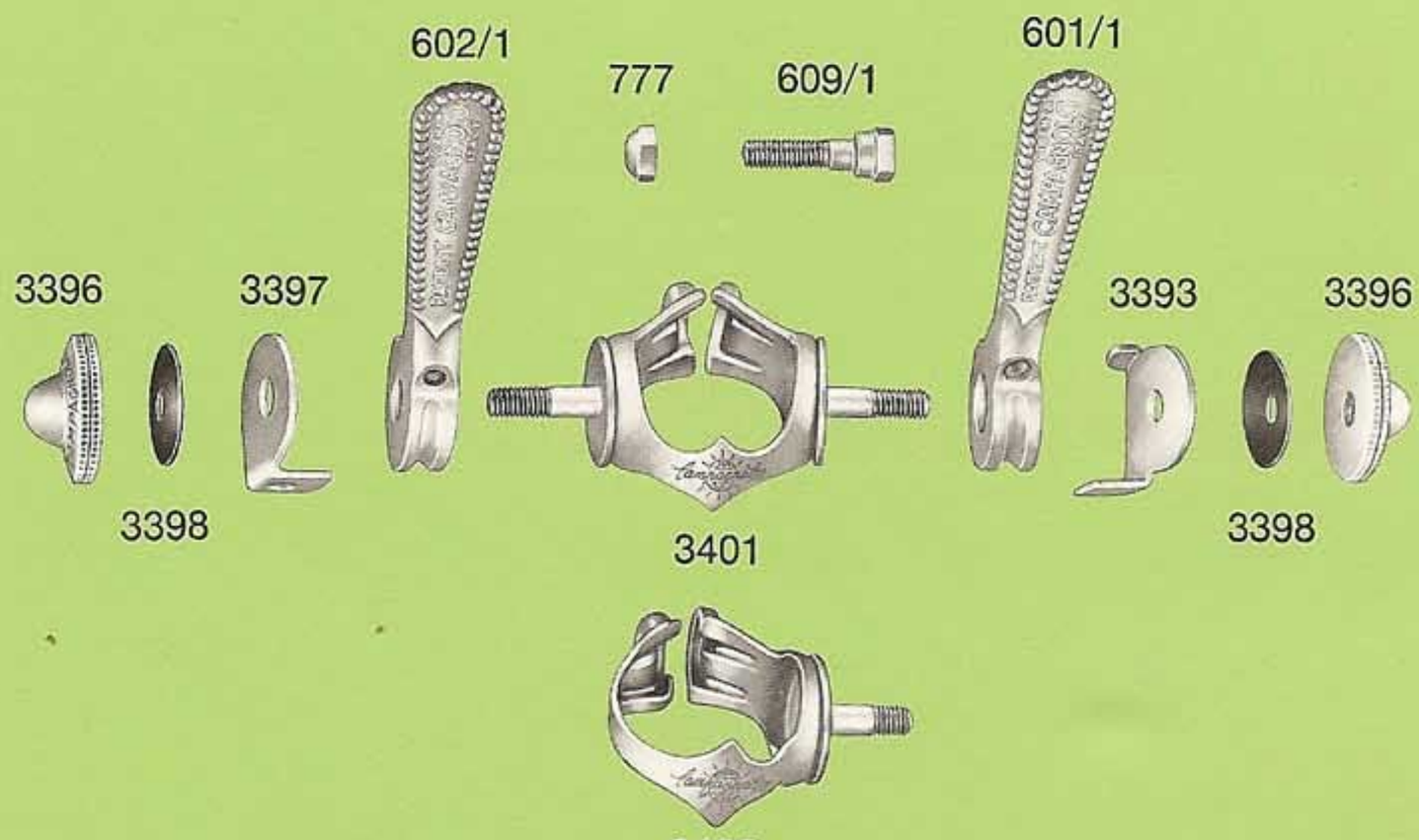
622



1013/1A

606

605



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.)
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 tothed washer
3398 Elastic washer
3401 Gran Sport twin control clip
3402 Gran Sport right hand control clip


1207


621


606

616


663


1208


1207


621


663


626/B


608


606

617


602


601


604


603


174

661




611/3


660


660


661



174

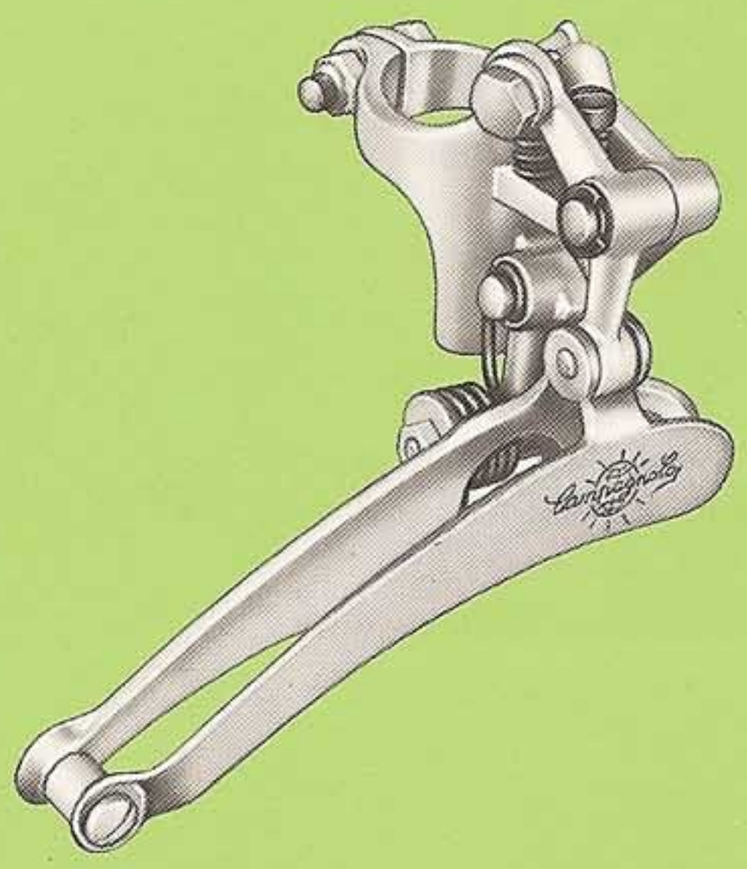

603


604

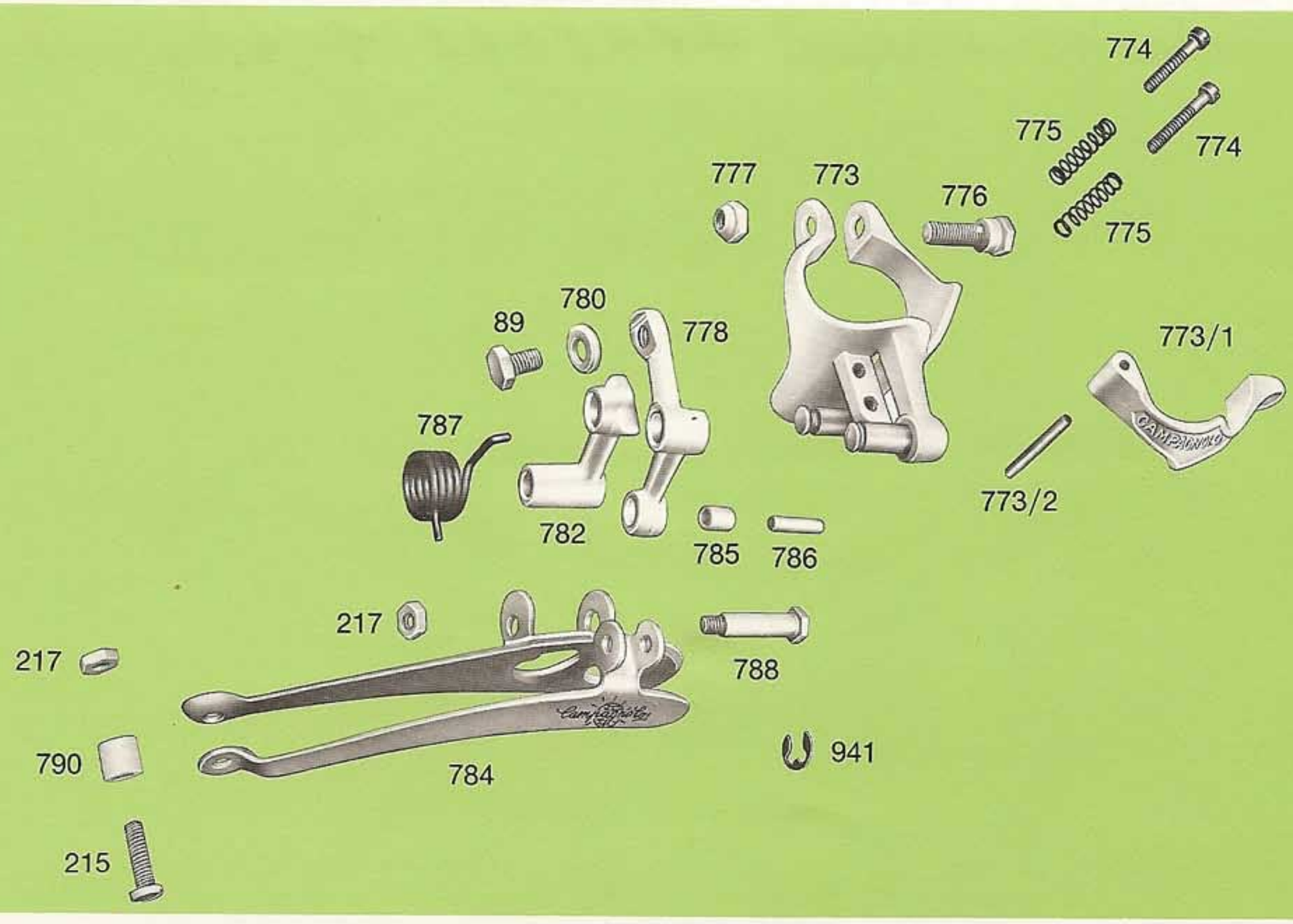
600/3

PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP **2240**

1052/1	Record front changer
89	Locking screw
215	Cage spanner 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 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 ∅ 35 x 24F.). Upon request are furnished with thread ∅ 34,7 x 1M. or ∅ 1,370" x 24 Tpi-BSC

1264 Nuovo Tipo small flange front hub

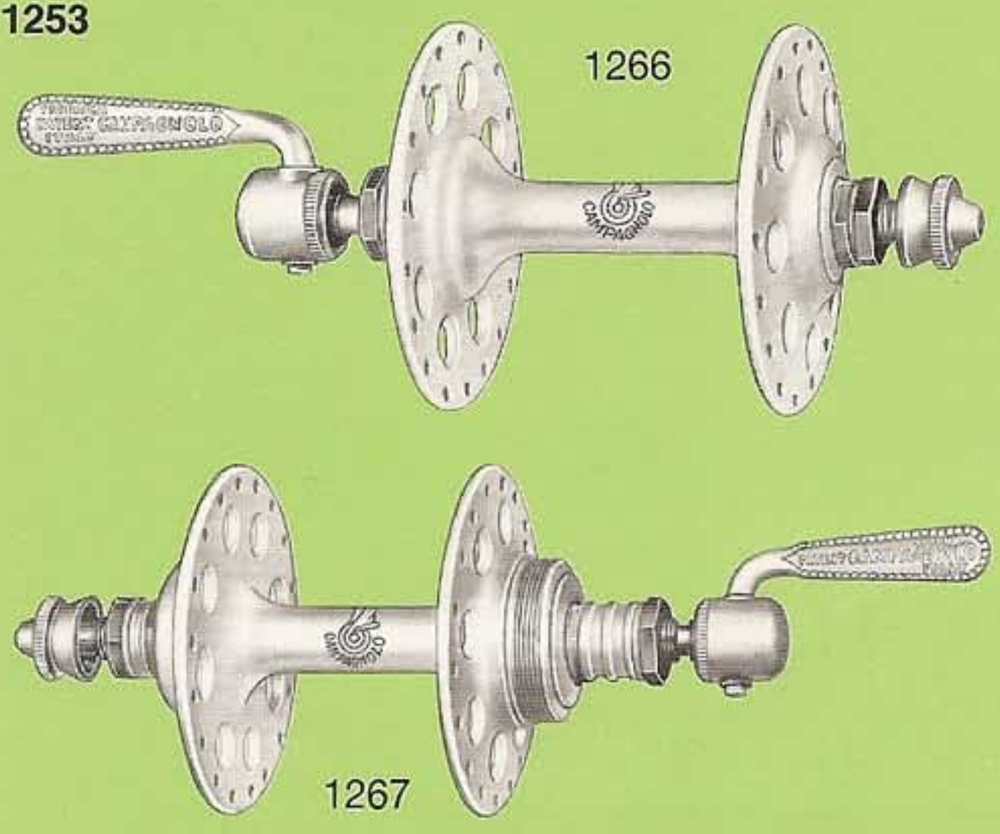
1265 Nuovo Tipo small flange rear hub

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

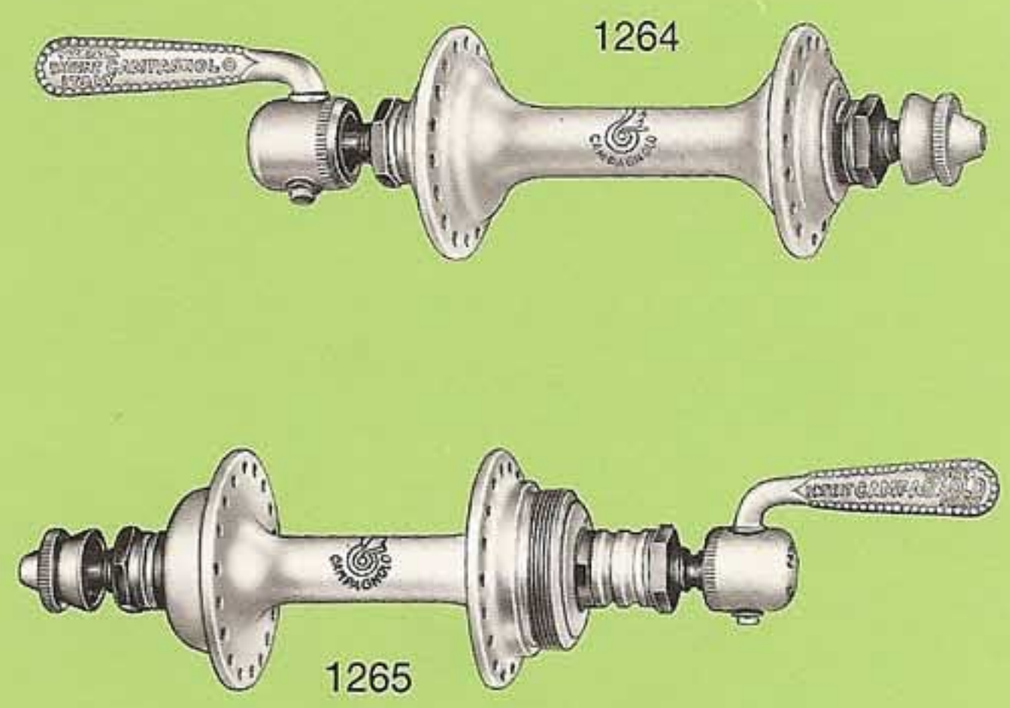
1266 Nuovo Tipo large flange front hub

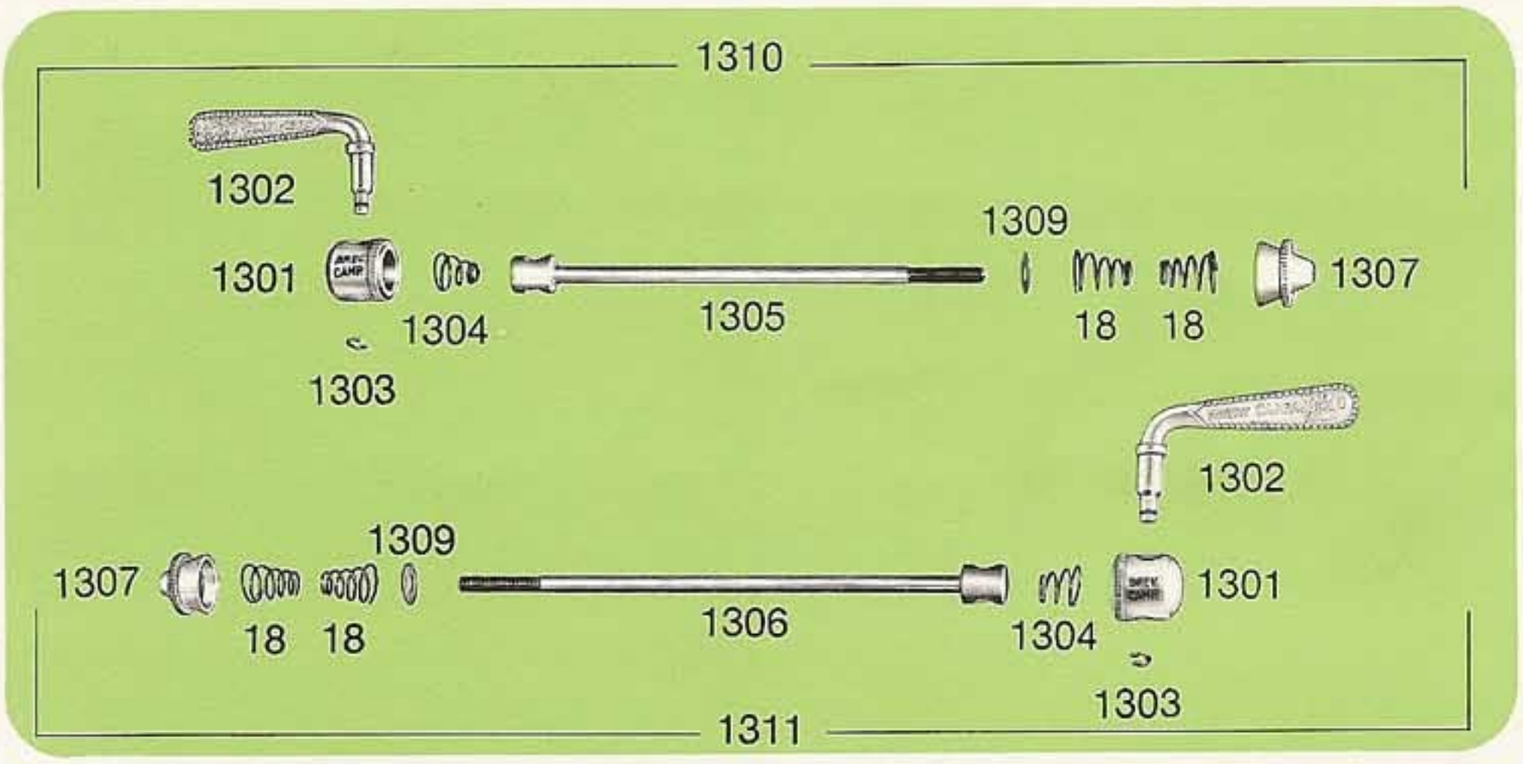
1267 Nuovo Tipo large flange rear hub

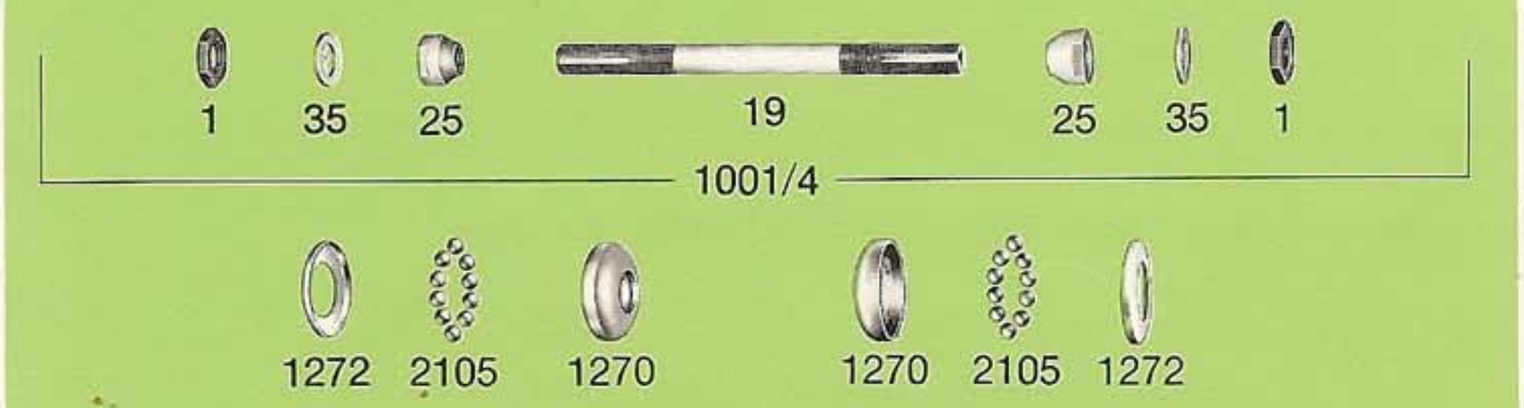
1253

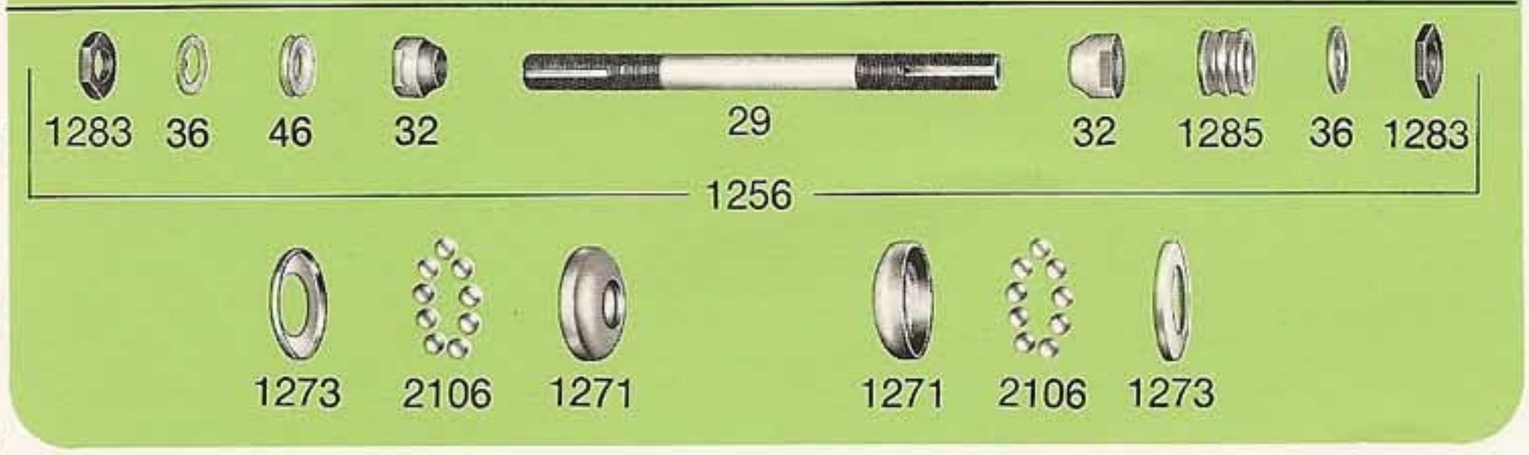


1251









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 ∅ 3/16" balls selected with 1/1000 of mm. tolerance
2106 Set (9+9) special ∅ 1/4" balls selected with 1/1000 of mm. tolerance

PARTICULAR COMPONENTS OF CAMPAGNOLO GRAN SPORT GROUP **2240**

1010 Set Record front and rear fork ends
1040/A Sport head set (thread ∅ 25,4 x 24F.). Upon request furnished with thread ∅ 25 x 1M. or ∅ 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 ∅ 5/32" balls selected with 1/1000 of mm. tolerance

1010


124


677





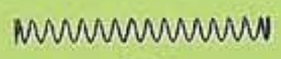


2



2


302


303


302/1

1040/A


681


682


687/A


688/A


689/A


690/A



2102

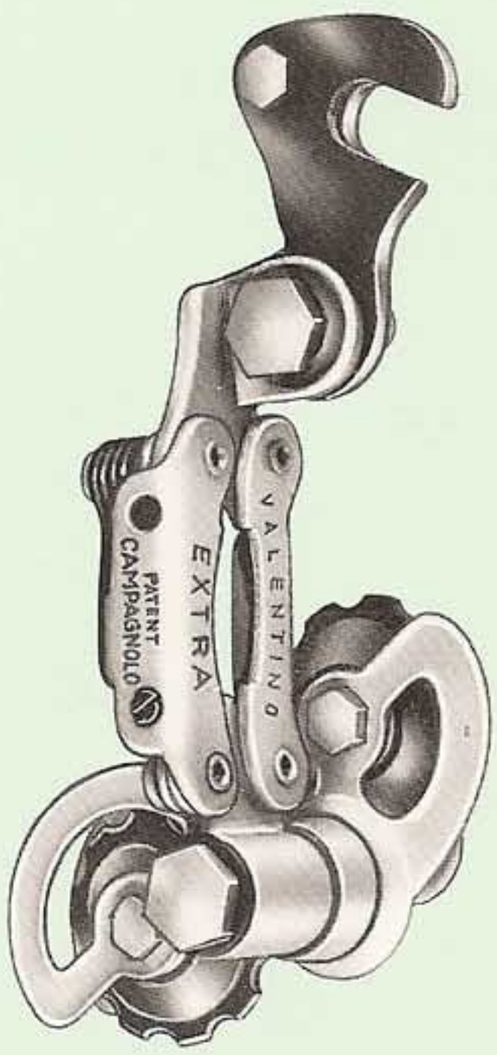
VALENTINO EXTRA GROUP page 66

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)

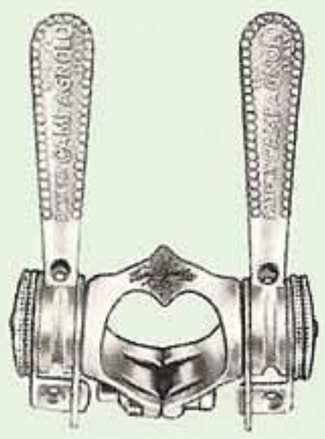
606	Down tube control gear inner wire (118 cm.)
608	Down tube control front changer inner wire (72 cm.)
1206	Valentino twin control lever
2050	Front changer
2170	Valentino Extra gear with hanger



2170



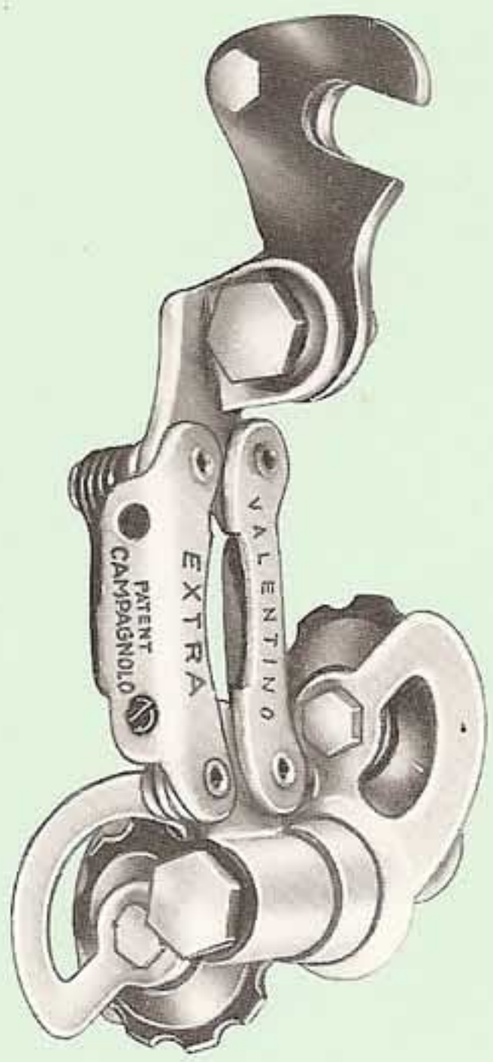
2050



1206

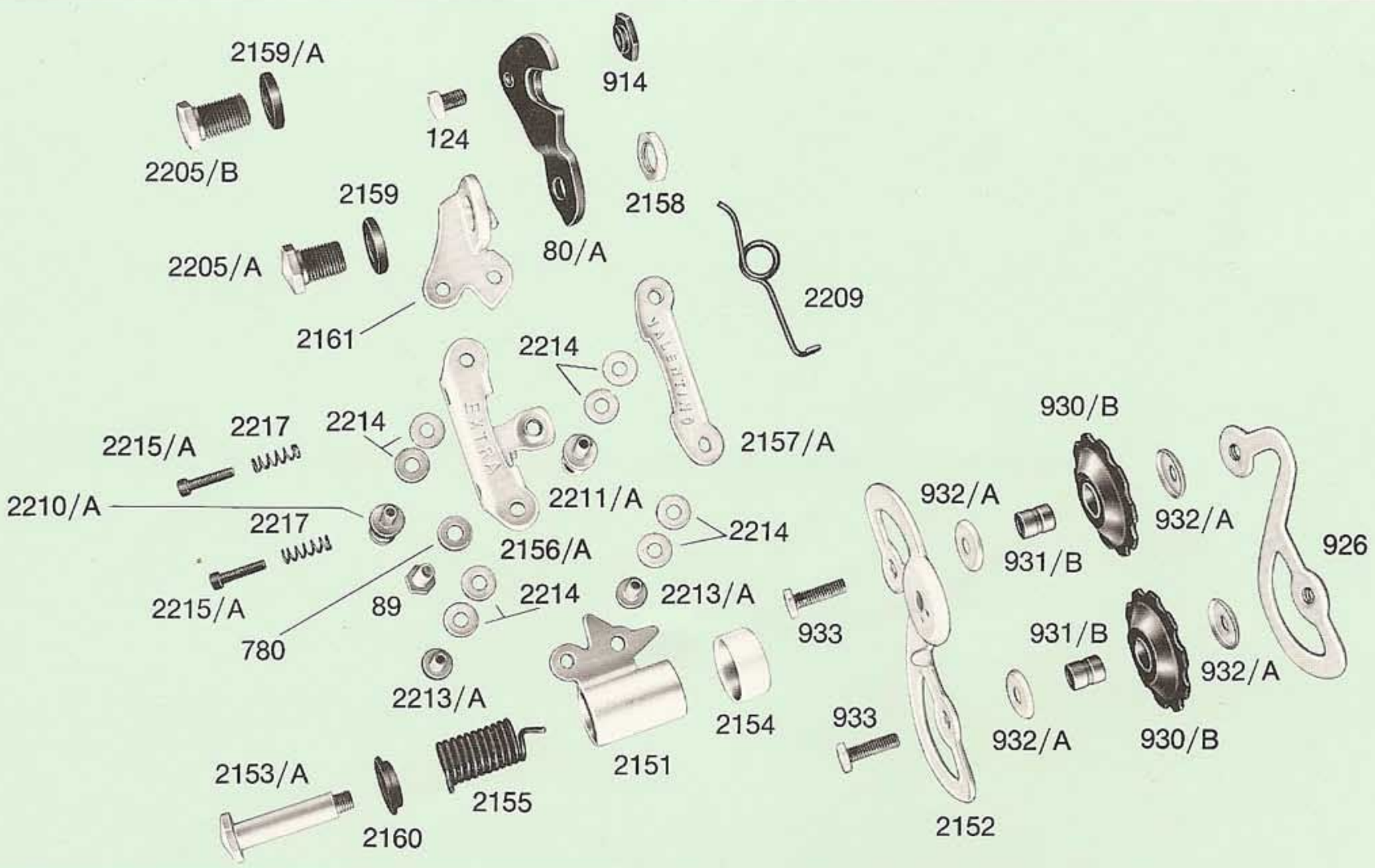
608 606

PARTICULAR COMPONENTS OF VALENTINO EXTRA GROUP



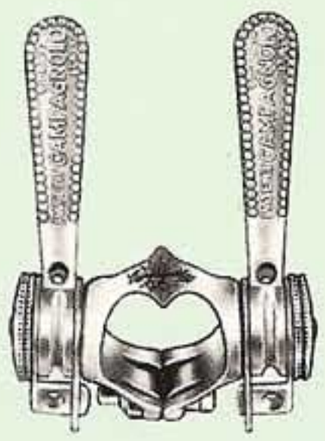
2170

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



608

606



1204

606

605



602/1

777

609/1

601/1



3400

3397

3393

3400

3398

3403

3398



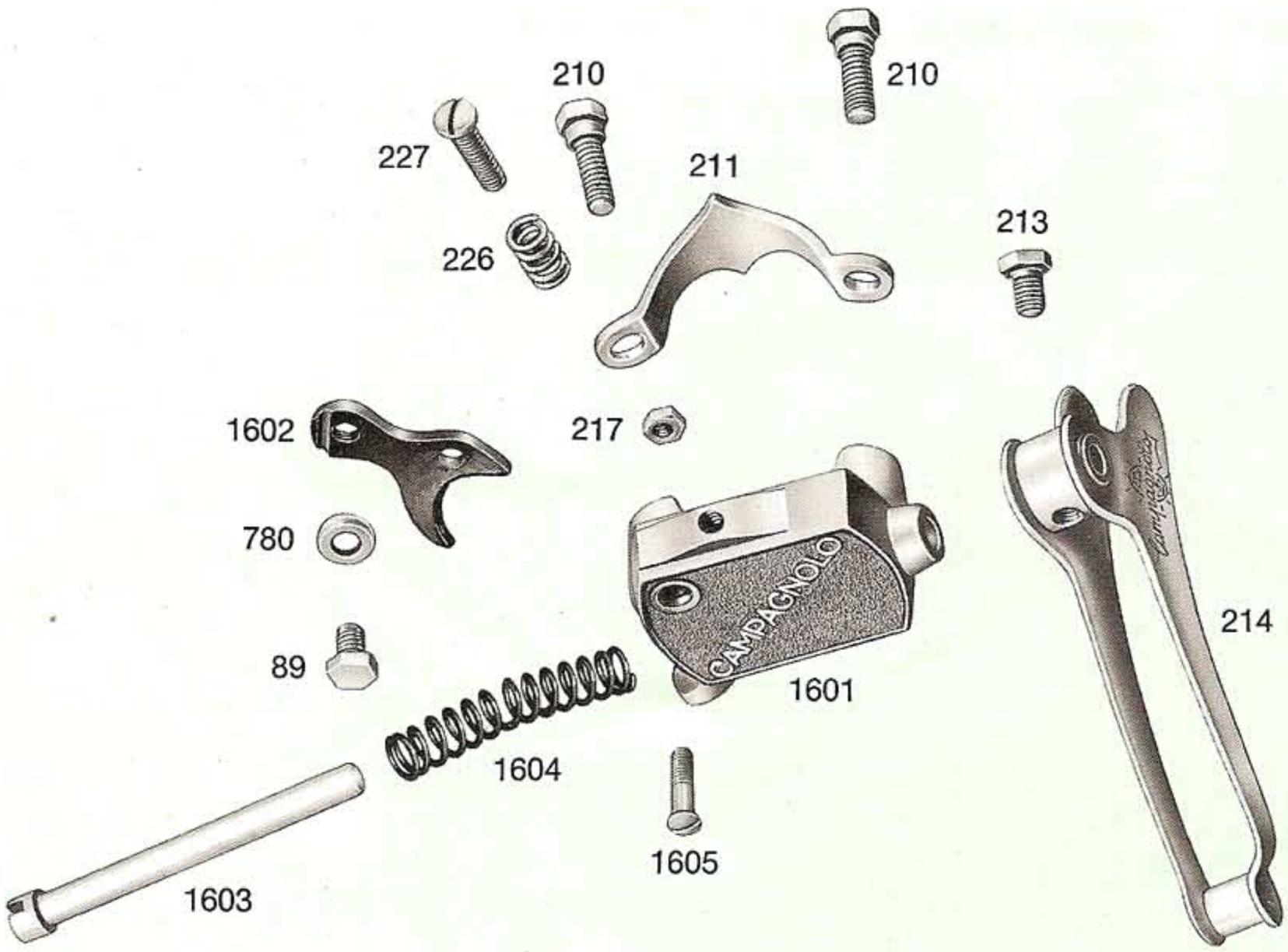
3404

PARTICULAR COMPONENTS OF VALENTINO EXTRA GROUP

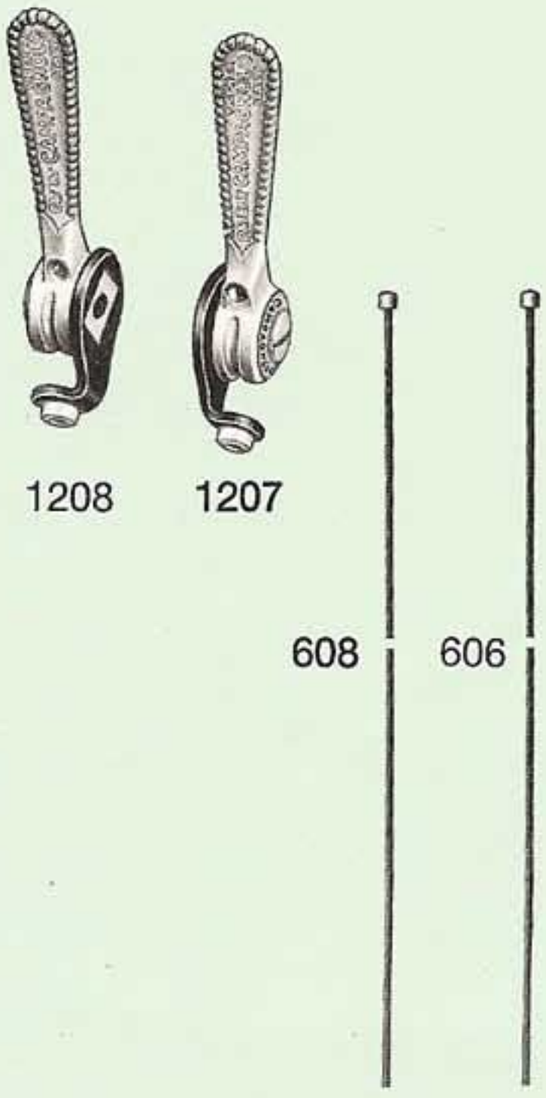
2050	Front changer
89	Clamp washer
210	Body clip bolt
211	Body fixing clip
213	Fork fixing bolt
214	Fork cage
217	Nut
226	Adjusting bolt spring
227	Adjusting lever screw
780	Cable clamp bolt washer
1601	Front changer body
1602	Control fork
1603	Spindle
1604	Front changer return spring
1605	Bolt



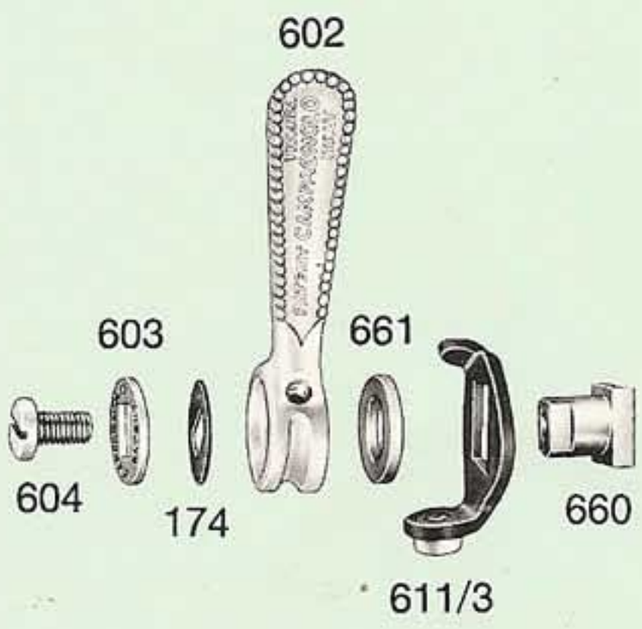
2050

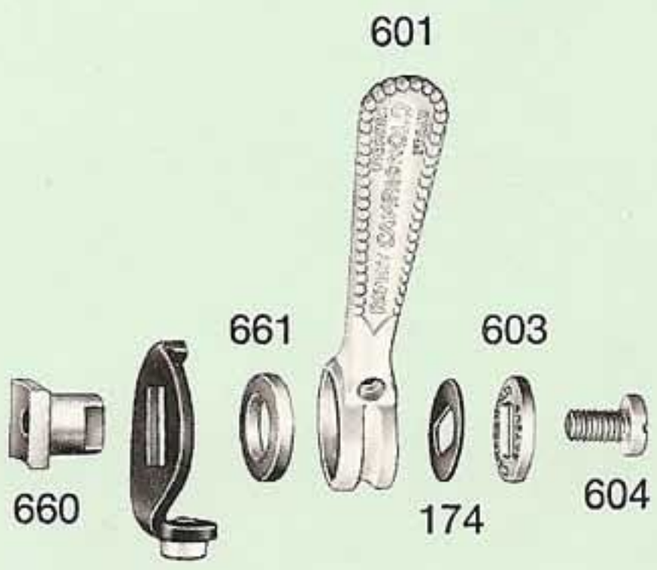


601	Right hand control lever only
601/1	Right hand control lever only
602	Left hand control lever only
602/1	Left hand control lever only
603	Cover plate
604	Friction adjusting screw
605	Gear outer casing (105 cm.)
606	Down tube control gear inner wire (118 cm.)
608	Down tube control front changer inner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









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 ∅ 36 x 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 ∅ 9/16" x 20F. and chainrings for chain 1/2" x 3/32" [2 mm.]). Specify the number of teeth of the 3 chainrings available from 42T to 57T. Upon request

1048/3



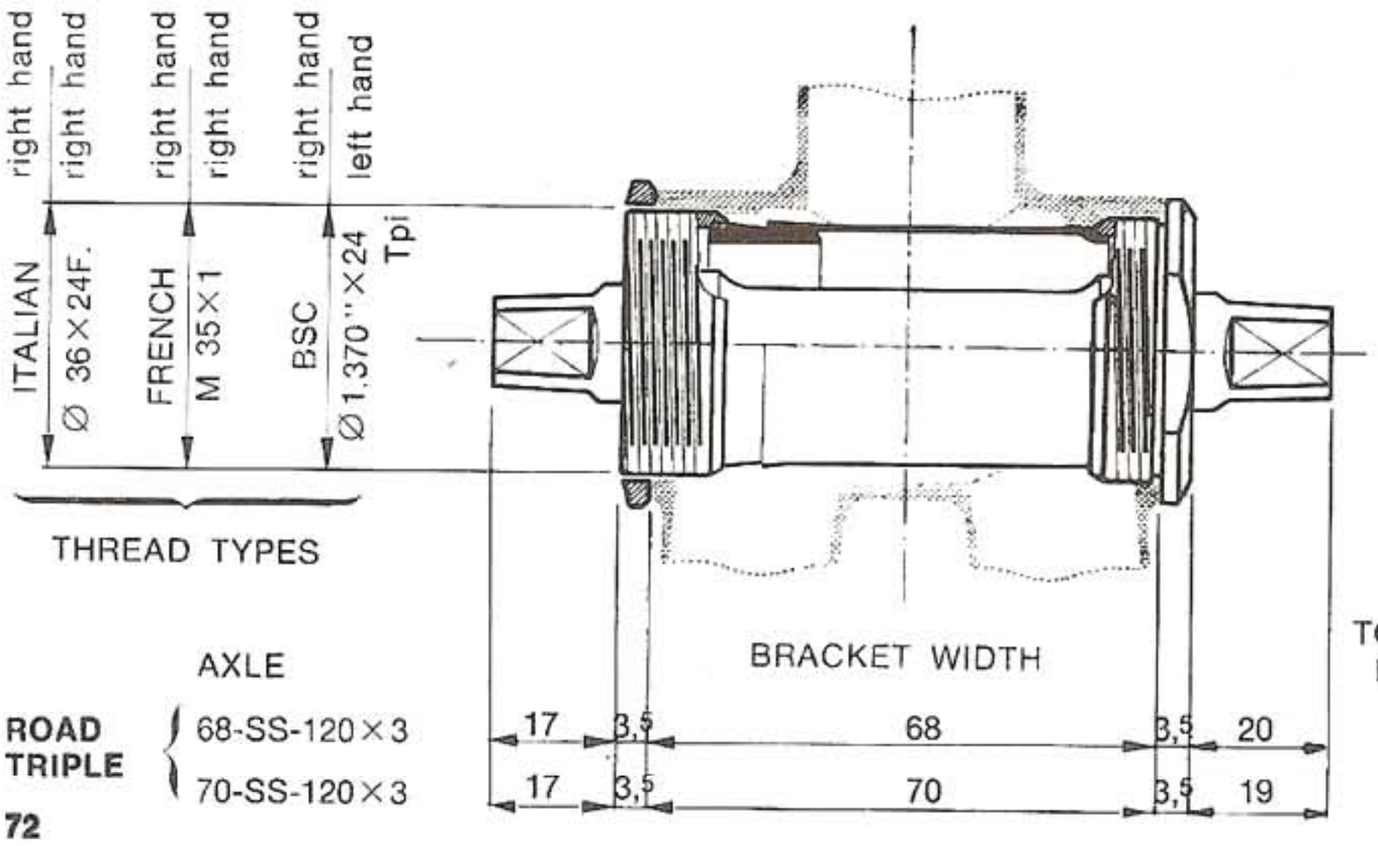
1049/3





1046





	AXLE	TOTAL AXLE LENGTH
ROAD TRIPLE	68-SS-120 × 3	117 mm.
	70-SS-120 × 3	118 mm.

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 lenghts 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

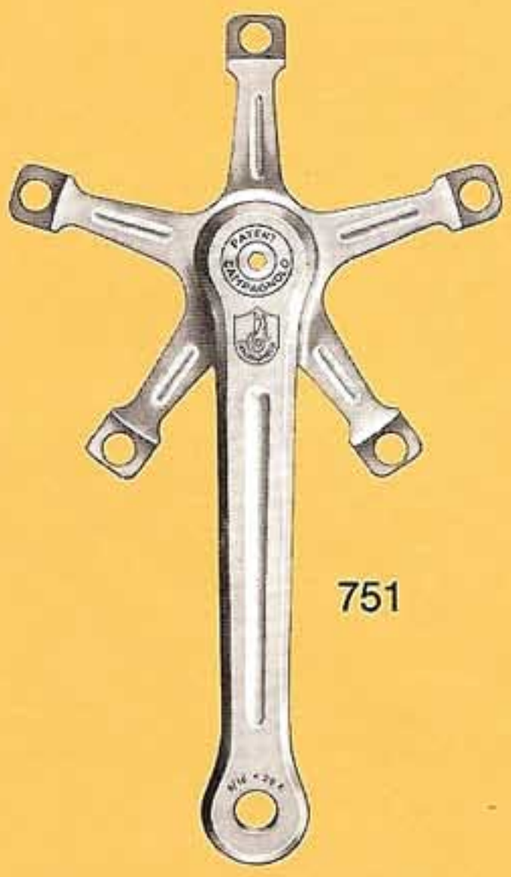
831 Nut for bolt 830

832 Triple chainring and cyclocross spacer

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



753



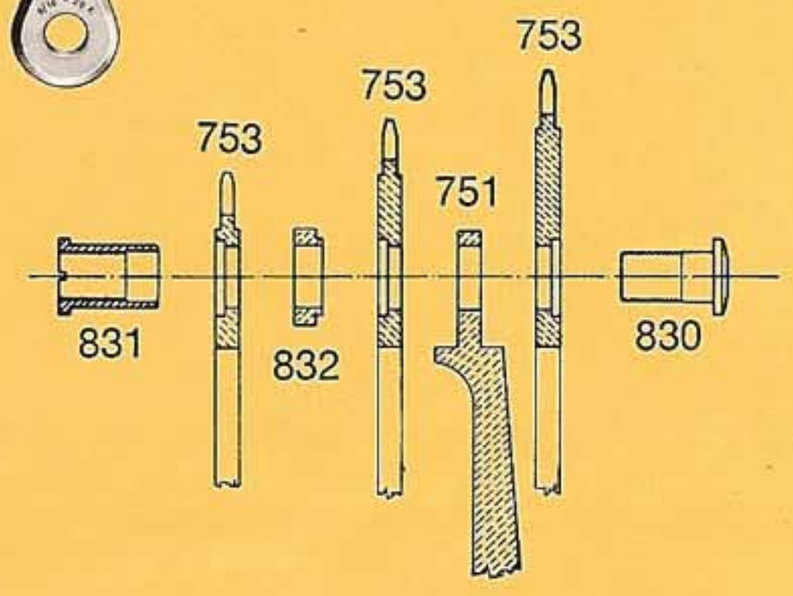
751


830 832 831



752

756





2100


748


749


747


746



744/1


745


749


748

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 ∅ 36 x 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 ∅ 9/16" x 20F. and chainrings for chain 1/2" x 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

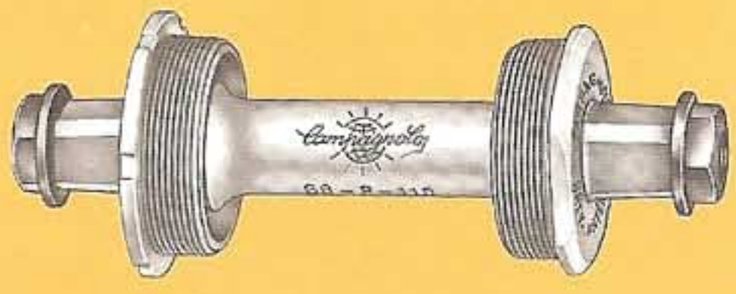


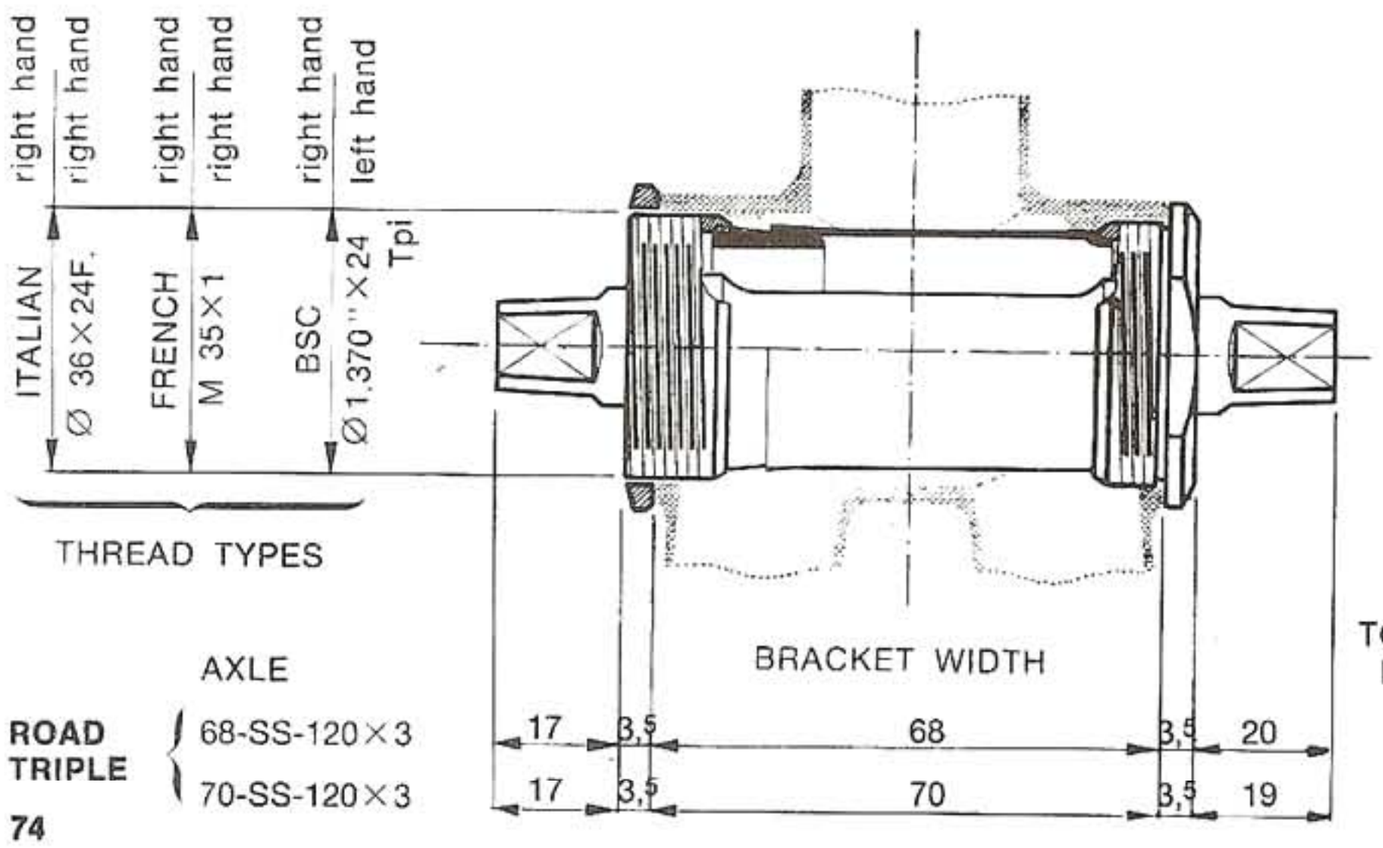
1049/5





1046





	AXLE	TOTAL AXLE LENGTH
ROAD	68-SS-120×3	117 mm.
TRIPLE	70-SS-120×3	118 mm.

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.

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

752 Road left hand crank (complete with cover 756, 170 mm. long)

753 Road chainring for 1/2" x 3/32" (2 mm.) chain. Specify the number of teeth available from 42T to 57T

754 Road chainwheel fastening screw

755 Road chainwheel fastening nut

756 Crank cover plate

761 Track chainwheel fastening screw

804 Chainring for 1/:2" x 3/32" (2 mm.) chain with fixed 36 teeth

818 Triple chainring spacer

819 Right crank for special triple chainring (complete with cover plate 756 - 170 mm. long)

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


752

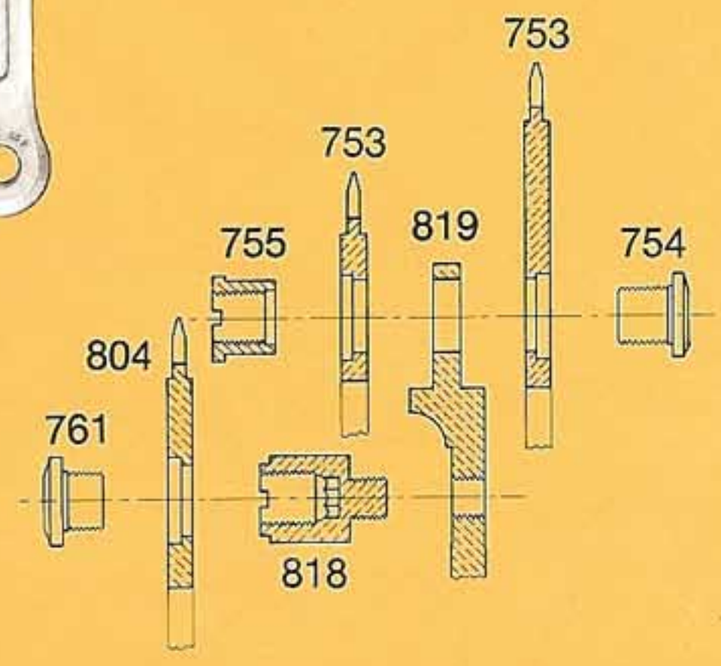

756


753


804


819


755 754 818 761




2100


748


749


747


746


744/1


745


749


748

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 ∅ 36 x 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 ∅ 9/16" x 20F. and chainring 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.

744/2 Cyclocross cotterless spindle. See measurements and indicate spindle size

745 Fixed cup. Indicate required thread

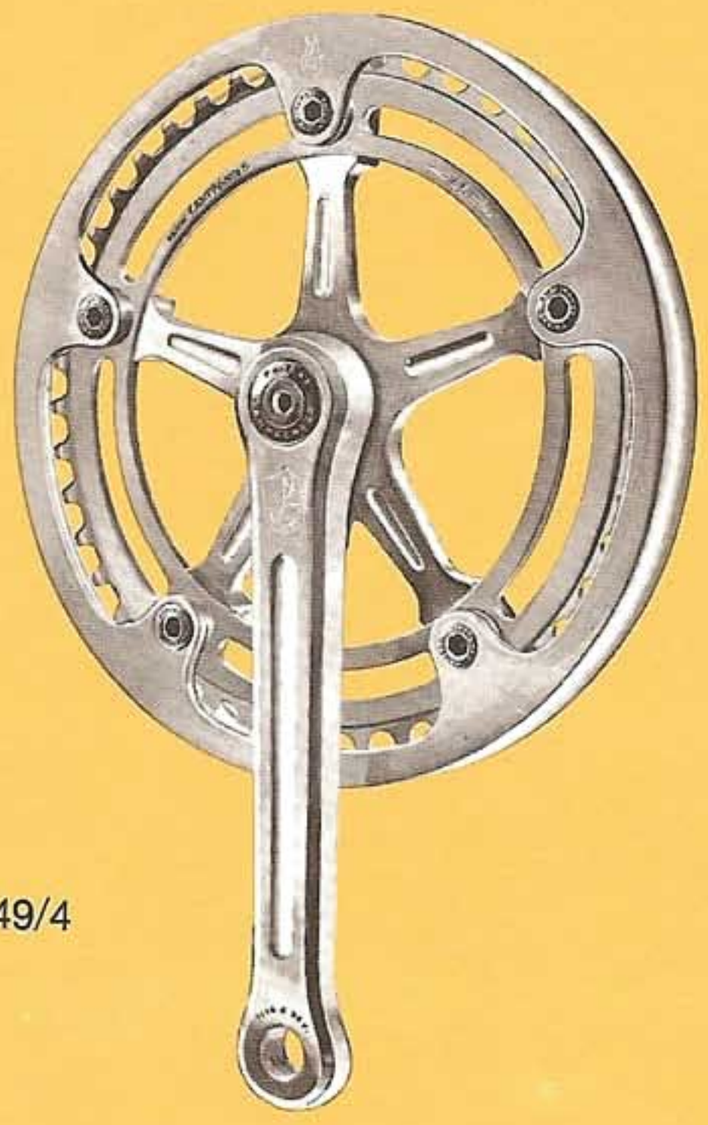
746 Adjustable cup. Indicate required thread

747 Lockring with normal 3,5 mm.

1048/4



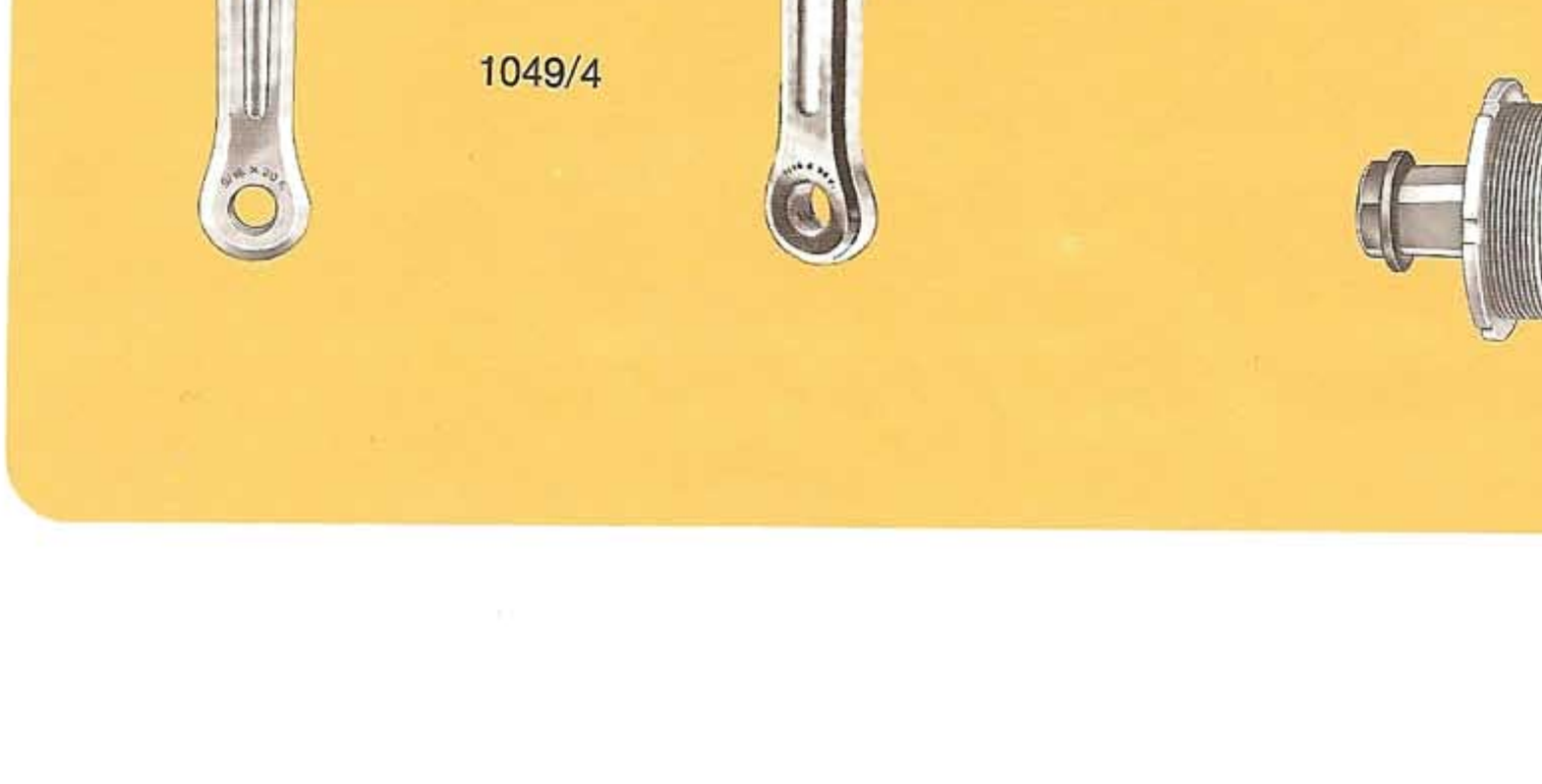
1049/4





1046





	AXLE	TOTAL AXLE LENGTH
CROSS	68-C-120	115.5 mm.
	70-C-120	115.5 mm.

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)

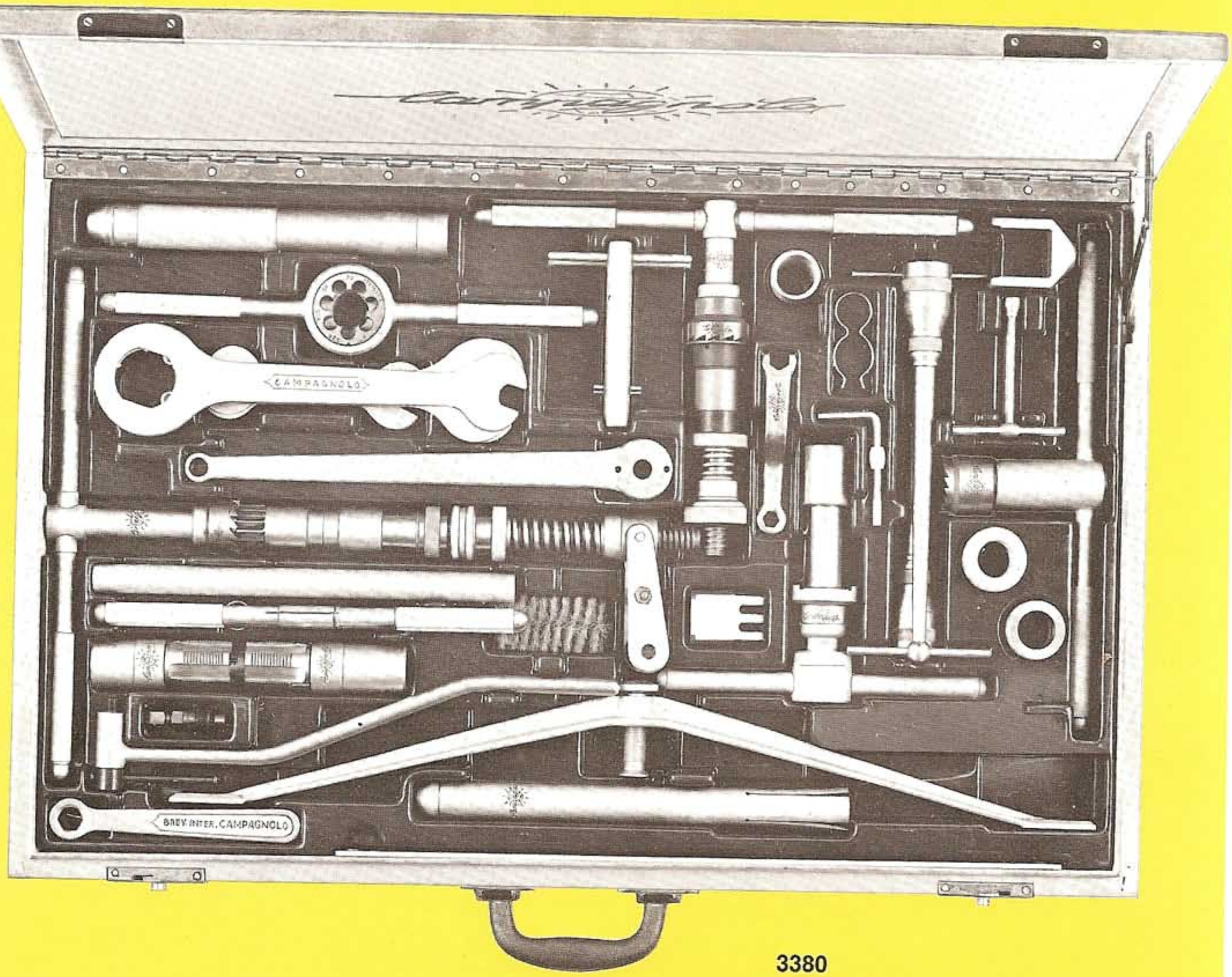
UPON REQUEST WE SUPPLY THE CUPS WITH THREAD INCREASED BY 0,5 mm.

CLIPS - GEAR HANGERS - FORK ENDS
SPROCKETS - SPECIAL GREASE - SCREWS AND NUTS
FOR SEAT PIN AND SUNDRIES pages 80-81

TOOL CASES pages 84-85-86-87-88

SPECIAL TOOLS AND BICYCLE ASSEMBLING STAND pages 88-89

3380 CAMPAGNOLO COMPLETE TOOL CASE



3380



3381 CAMPAGNOLO REDUCED TOOL CASE

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



3381

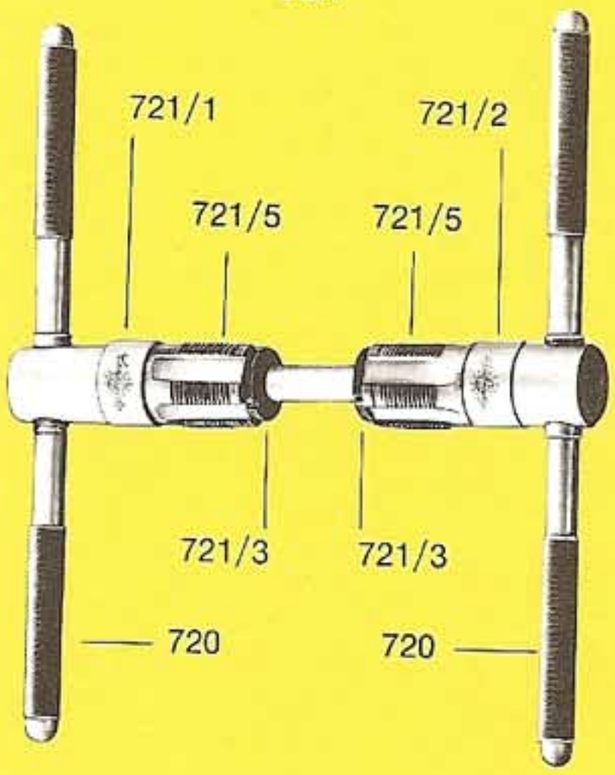


TOOLS CONTAINED IN TOOL CASES 3380 - 3381

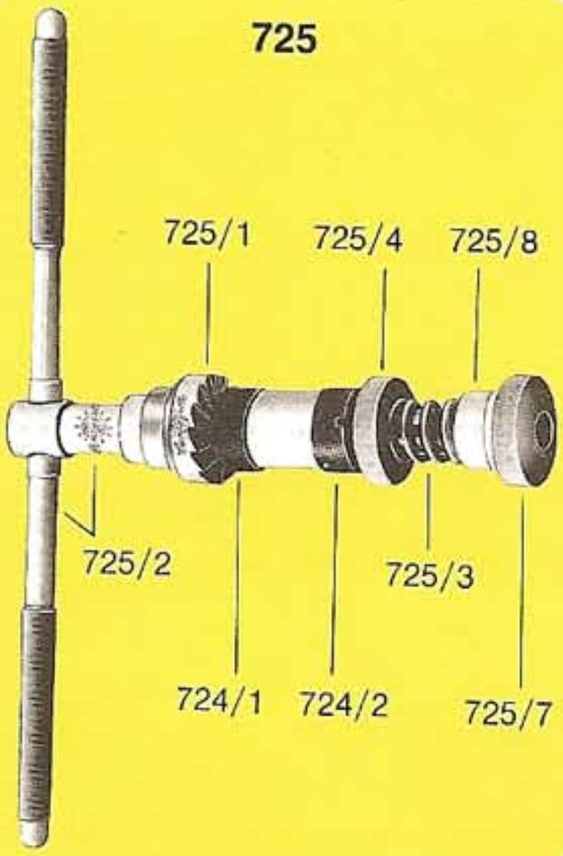
P.S. ALL TOOLS MARKED WITH AN ASTERISK (*) ARE THOSE CONTAINED IN THE REDUCED TOOL CASE 3381

712 * Bottom bracket lockring 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 lockring (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 lockring nut
721/5 * Spare tap (specify size of threading)
722 * Headset cup punch
723 Headset cup remover
725 * Bottom bracket face cutter, composed by:

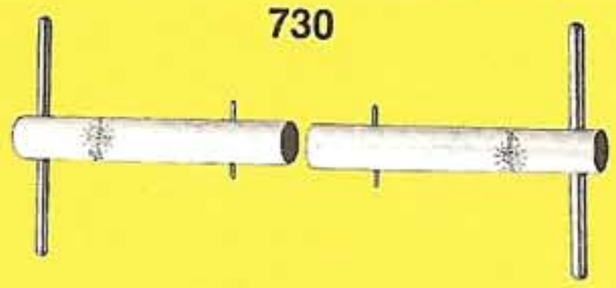
721



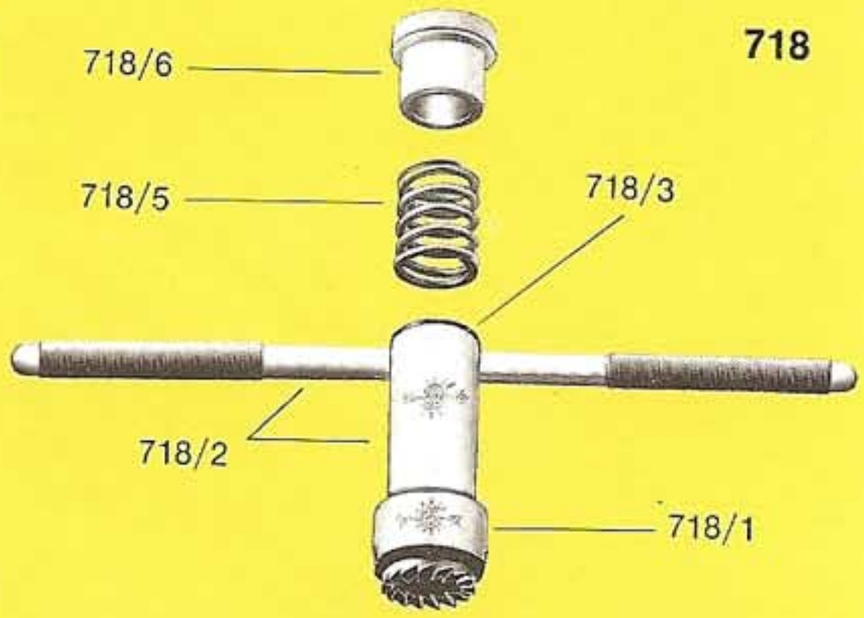
725



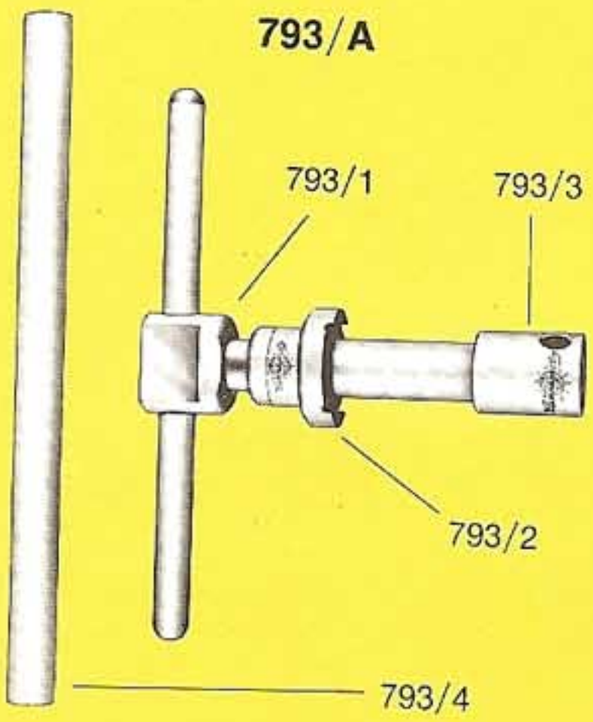
730



718



793/A





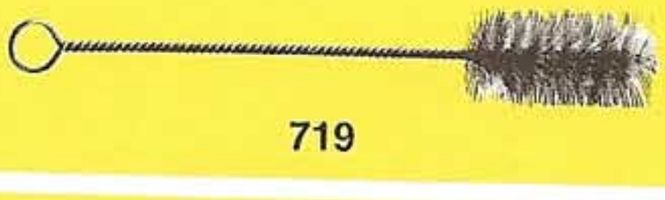
722



723

714





719



712/1



713



712



729



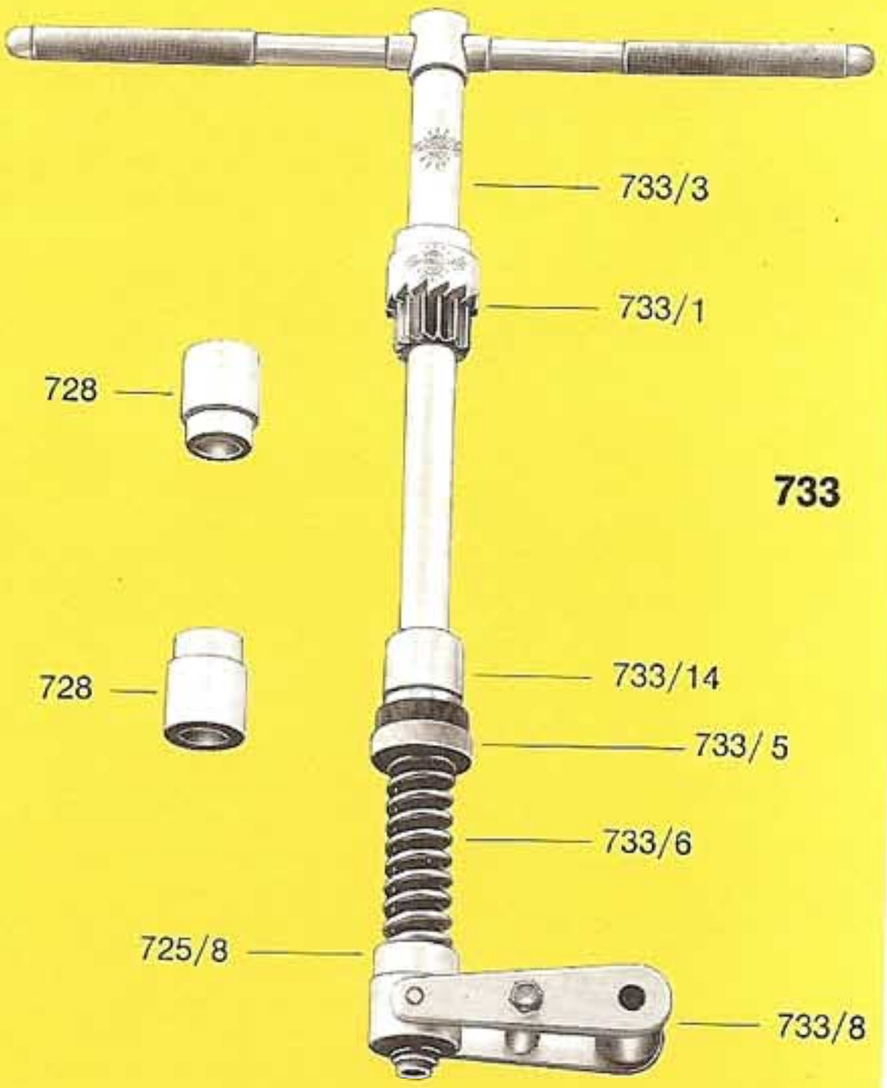
731



712/3

732

733

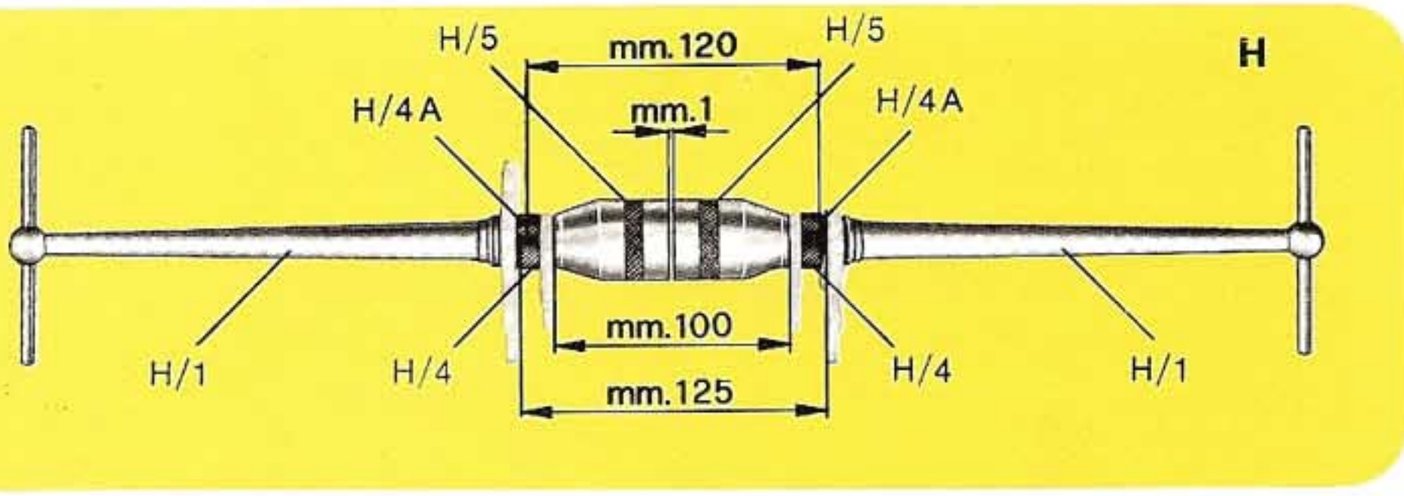


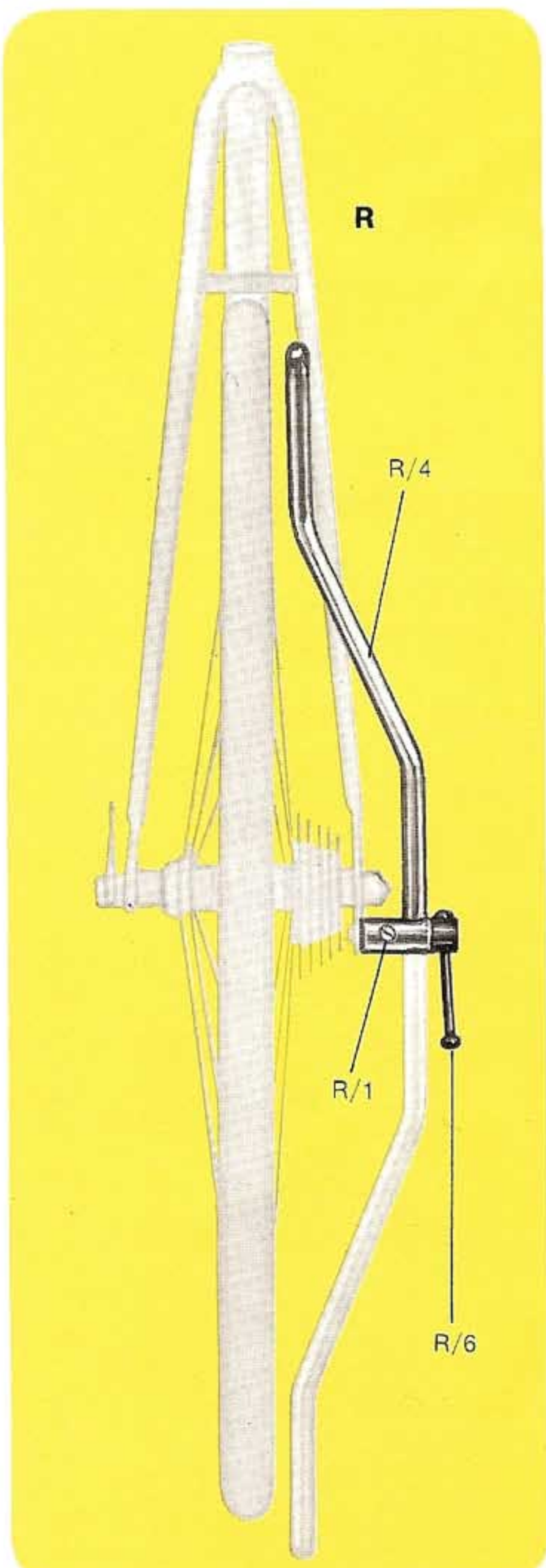
724/1 * Inner threaded guide sleeve for cutter 725 (specify size of threading)
724/2 * Outer threaded guide sleeve for cutter 725 (specify size of threading)
725/1 * Mill
725/2 * Cutter holder stem with rotation lever
725/3 * Tension spring
725/4 * Washer
725/7 * Threaded lockring
725/8 * Toothed washer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

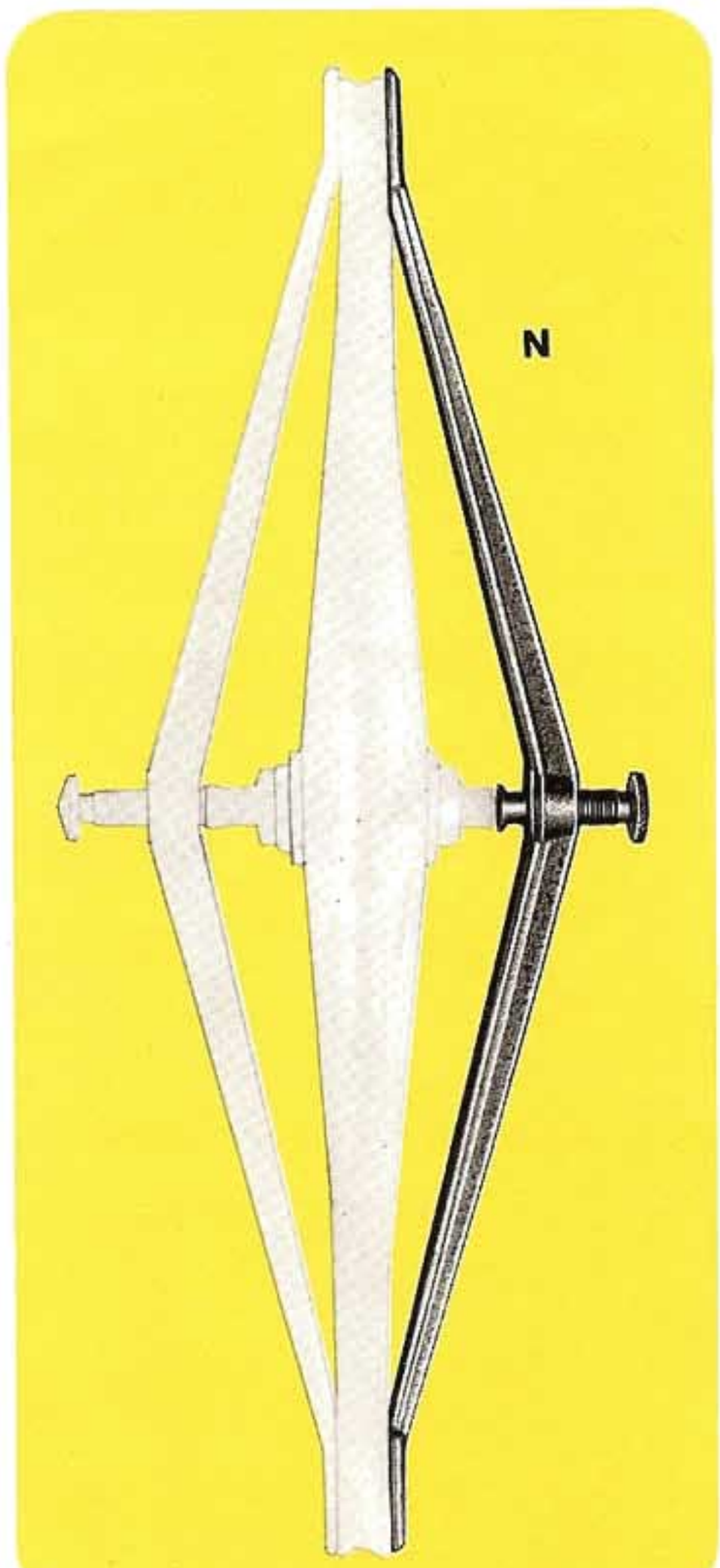
731 Headset jig
732 Fork crown jig
733 * Head race mill, composed by:
725/8 * Toothed washer
728 * Sleeve for art. 733
733/1 * Head race mill
733/3 * Cutter holder with rotation lever
733/5 * Washer
733/6 * Tension spring
733/8 * Lockring stirrup
733/14* Centraliser sleeve
767 * « L » shaped chainwheel 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)








767


768


770


769

I


704/1



G



(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.

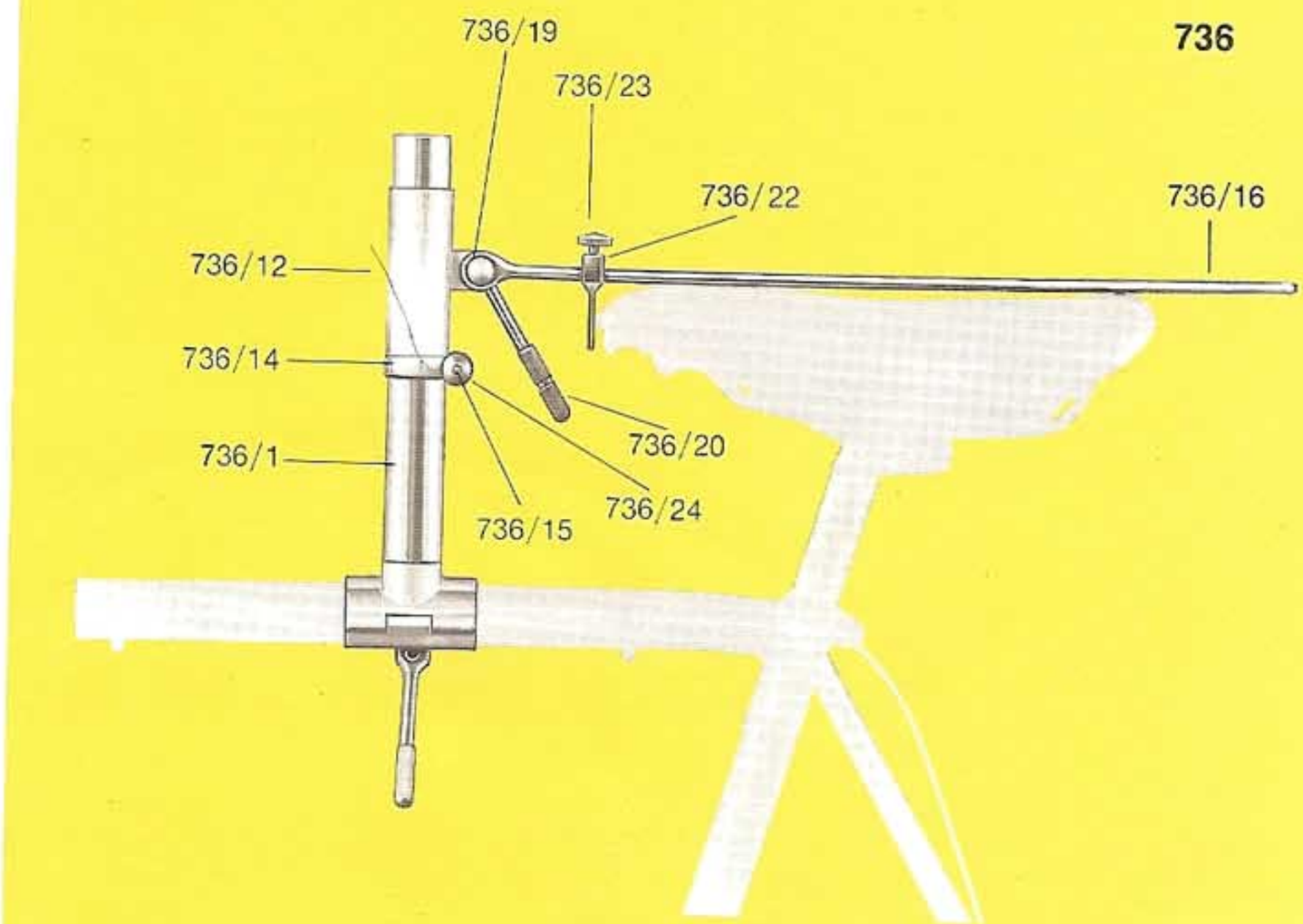
CAMPAGNOLO SPECIAL TOOLS

NON CONTAINED IN TOOL CASES 3380 - 3381

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



771





143/2



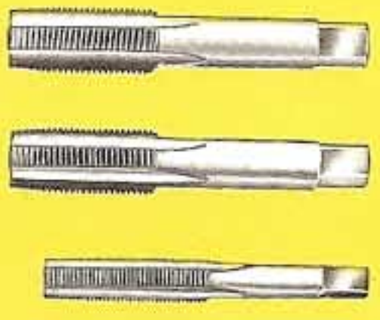
710



2025



P



705

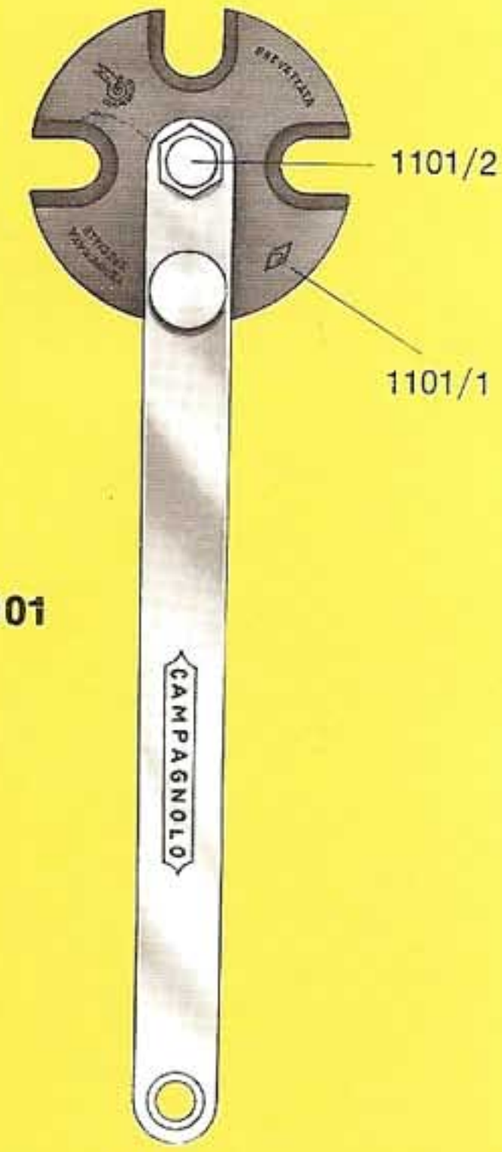
706

707

708

709

Q



1101

1101/3

1102 CAMPAGNOLO BICYCLE ASSEMBLING STAND

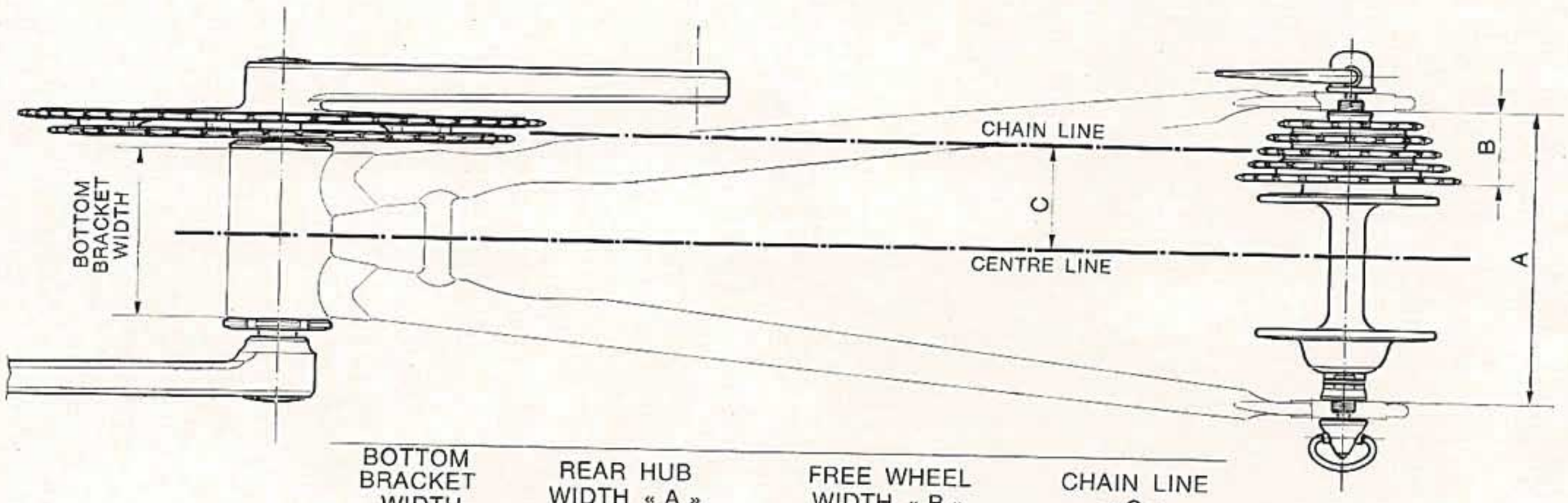


1102

CHAIN LINES pages 92-93

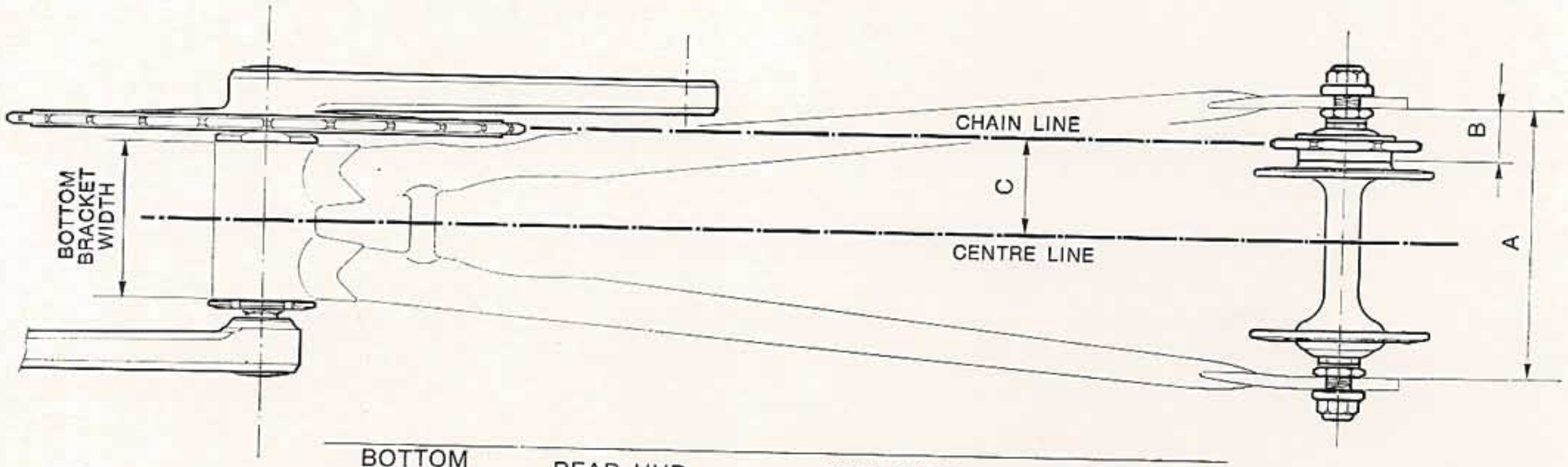
GEAR RATIO TABLES pages 94-95-96

ROAD CHAIN LINE



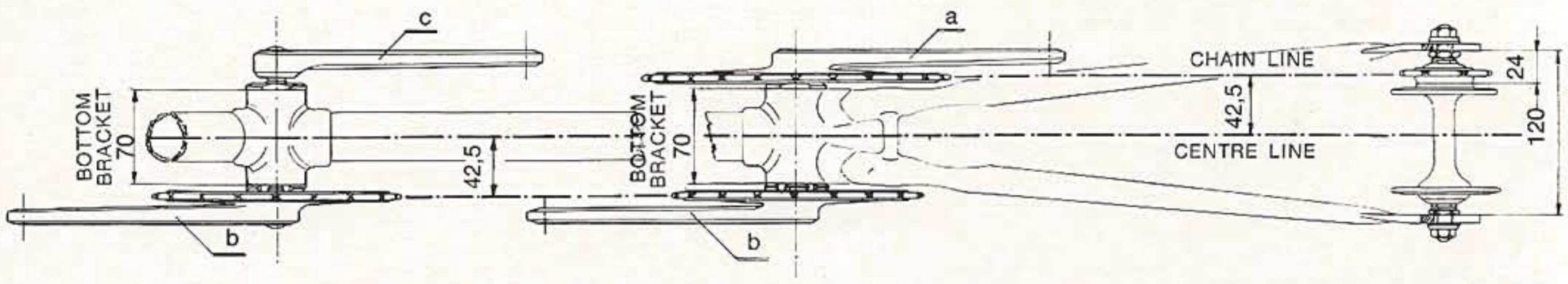
BOTTOM BRACKET WIDTH	REAR HUB WIDTH « A »	FREE WHEEL WIDTH « B »	CHAIN LINE « C »
68	120	29	**43,5**
70	120	29	**43,5**
74	120	29	**43,5**

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	4,39	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

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

TRACK GEAR TABLES

◆ **Development in metres for a complete turn of cranks.**

● **Gear** $= \frac{\text{number of teeth on chainring}}{\text{number of teeth on sprocket}} \times$ **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	63	64	65	66	67	68	69	70			
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	118.8	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		

Copyright © 1974
All copyrights reserved and reproduction prohibited.