

*Campagnolo*®

1993 PRODUCT RANGE









We have always been committed to designing and building the world's best racing components.

Our research is aimed at the interface where the athlete's movements are jointed to the bike.

We communicate with riders from all over the world every day to develop new solutions for the eternal aim: victory.

This is how all of our products come into being: this is how Ergopower was created.

Ergopower is the point of contact between thought and action, maintaining pedalling rhythm through precise and secure shifting.

We required the action to happen in a fraction of a second, leaving the hands on the handlebar with no need to be moved, so as not to break the elegance and power of pedalling.

We have committed all our experience and technical skill to this control which revolutionizes the simple efficiency of racing on bikes

We have looked at 60 years racing experience of real riders like you.







**GR-03RE****RECORD GROUP****REAR DERAILLEUR  
RD-11RE****FRONT DERAILLEUR  
FD-11SRE FD-11FRE****CRANKSET  
FC-01RE****BOTTOM BRACKET  
BB-01RE BB-03RE  
BB-11RE CART - BB-13RE CART****ERGOPOWER  
EC-12RE CG****SHIFTING LEVERS  
SL-01SRE CG****BRAKE LEVERS BL-02RE CG****BRAKES  
BR-02RE****FRONT HUB  
HB-00RE****FREEHUB  
FH-00RE****FREEHUB  
SUPER RECORD FH-01SR****SPROCKETS  
CS-8RE****SPROCKETS  
SUPER RECORD CS-8SR****CHAIN CN-CA68S****HEAD SET HS-01OR****PEDALS PD22REQR  
PD-02RE****SEAT PILLAR SP-RE  
SP-RES****PLATE AI-00CD**

8-speed - maximum sprocket 26 teeth - total capacity 26 teeth

capacity: 14 teeth - maximum sprocket 56 teeth  
braze-on - clip-on Ø 28,6 mm

crank lengths mm 165-167,5-170-172,5-175-177,5-180  
inner chainring: 39-40-41-42 outer chainring: 52-53-54-55-56  
distance between centres 135 mm - chain line 44 mm with 111 mm axle

traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical  
cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical

8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in aluminium

8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw

symmetrical control - internal cables - quick release

articulated parallelogram, progressive operation - central pull - rapid toe-in - height 37.6 + 55.9 mm

spoke holes: 28-32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - dust seals - braked lock nut

spoke holes: 28-32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette

spoke holes: 28-32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette freewheel body in light alloy

first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 26 teeth - 8th position sprocket from 23 to 26 teeth

sprockets in positions 2,3,4,5,6,7 and 8 with 13 to 24 teeth

1/2"x3/32" narrow 8-speed - 116 links

thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top)

quick release - thread 9/16"x20 tpi - length 14 mm  
traditional with S-M-L toe clip - Triple Bearing System

length 180 mm Ø 25-26-26,2-26,4-26,6-26,8-27-27,2 mm  
length 130 mm Ø 25-25,8-26,2-26,6-26,8-27-27,2 mm

for beneath bottom bracket shell

bodies and connecting rods forged in light alloy - rollers on adjustable ball bearings - connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity

crank in forged light alloy with fibre continuity - incorporated extractor - chainrings in aluminium alloy

balls 7/32" - aluminium cups with tracks in hardened steel - ground axle  
double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings

aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood

anodized light alloy levers - sinterized insert

anodized aluminium lever - light alloy body - fast cable replacement

levers and bodies in anodized forged aluminium

light alloy forged body - ground cups and cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

light alloy - periodic profiles for rapid shifting

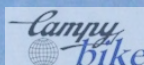
super smooth links - riveted pentagonal pin

Selform system - lubrication without disassembly - selected 3/16" balls

adjustable inspectionable cartridge - adjustable grip tension - double diagonal bearings

stem and brackets forged in light alloy

QPQ treatment









**GR-03CH****CHORUS GROUP****REAR DERAILLEUR  
RD-11CH****FRONT DERAILLEUR  
FD-11SCH  
FD-01FCH  
FD-02FCH****CRANKSET  
FC-01CH****BOTTOM BRACKET  
BB-01CH BB-03CH  
BB-11RECART - BB-13RECART****ERGOPOWER  
EC-12RE CG****SHIFTING LEVERS  
SL-01SRE CG****BRAKE LEVERS BL-02RE CG****BRAKES BR-02CH****FRONT HUB  
HB-00CH****FREEHUB  
FH-00CH****SPROCKETS  
CS-8RE****CHAIN CN-CA68S****HEAD SET HS-01CO****PEDALS PD22CHQR  
PD-02CH****SEAT PILLAR SP-CH  
SP-CHS****PLATE AI-00CD**

8-speed - maximum sprocket 26 teeth - total capacity 26 teeth

capacity: 14 teeth - maximum sprocket 56 teeth  
braze-on  
clip-on Ø 28,6 mm  
adjustable clip-on Ø 29+33 mm

crank lengths mm 170-172,5-175  
inner chainring: 39-40-41-42 outer chainring: 52-53  
distance between centres 135 mm - chain line 44 mm with 111 mm axle

traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical  
cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical

8-speed indexed shifting lever - multi-position front derailleur control, also  
suitable for triple chainrings - progressive action brake control with quick  
release. Normal or flat adjustment blocks in aluminium

8-speed indexed shifting lever with adjuster - adjustable friction-type front  
derailleur control - M5 screw

symmetrical control - internal cables - quick release

caliper - side pull - height 40,75+51,2 mm

spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm -  
hole for fast lubrication - rotary seals - braked lock nut

spoke holes: 32-36, over lock dimensions 130 mm - centre bore Ø 44 mm  
chain line 42 (43 with spacer) - Campagnolo 8-speed cassette

first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 26 teeth-  
8th position sprocket from 23 to 26 teeth

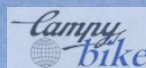
1/2"x3/32" narrow 8-speed - 116 links

thread BC 1"x24tpi - overall height 41,6 mm (bottom 15.0 + 26.6 top)

quick release - thread 9/16"x20 tpi - length 12 mm  
traditional with S-M-L toe clip

length 180 mm Ø 25-25,4-26-26,2-26,4-26,6-26,8-27-27,2 mm  
length 130 mm Ø 25-26,2-26,4-26,6-26,8-27-27,2 mm

for beneath bottom bracket shell



light alloy bodies and connecting rods - rollers on sinterized bushes - connecting  
rods articulated on self-lubricating bushes

light alloy body and connecting rods

crank in forged light alloy with fibre continuity - incorporated extractor -  
chainrings in aluminium alloy

balls 1/4" - hardened steel cups - ground axle  
double seal - assembly cups in aluminium alloy - Triple Bearing System - twin  
bearings RH side - two O-rings

aluminium body with Rilsan treatment on mating parts - light alloy forged  
levers - ball-bearing movement - silicone rubber hood

anodized light alloy levers - sinterized insert

anodized aluminium lever - light alloy body - fast cable replacement

levers in anodized forged aluminium - Monoplaner System

light alloy forged body - ground cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl  
freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

super smooth links - riveted pentagonal pin

Selform system - selected 3/16" balls

adjustable grip tension - double bearings

brackets forged in light alloy

QPQ treatment







**GR-03AT****ATHENA GROUP****REAR DERAILLEUR  
RD-11AT**

8-speed - maximum sprocket 28 teeth - total capacity 26 teeth

**FRONT DERAILLEUR  
FD-01SAT  
FD-01FAT**

capacity: 14 teeth - maximum sprocket 56 teeth  
braze-on  
clip-on Ø 28,6 mm

**CRANKSET  
FC-01AT**

crank lengths mm 170-172,5-175  
inner chainring: 39-40-41-42 outer chainring: 52-53  
distance between centres 135 mm - chain line 44 mm with 111 mm axle

**BOTTOM BRACKET  
BB-01AT BB-03AT  
BB-01CART BB-03CART**

traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical  
cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical

**ERGOPOWER  
EC-12REAB CG**

8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in techno-plastic

**SHIFTING LEVERS  
SL-01SRE CG**

8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw

**BRAKE LEVERS BL-02AT CG**

symmetrical control - internal cables - quick release

**BRAKES BR-02AT**

caliper - side pull - height 41+52,5 mm

**FRONT HUB  
HB-00AT**

spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - rotary seals - braked lock nut

**FREEHUB  
FH-00AT**

spoke holes: 32-36, over lock dimensions 130 mm - centre bore Ø 44 mm  
chain line 42 (43 with spacer) - Campagnolo 8-speed cassette

**SPROCKETS  
CS-8S**

in the following combinations:  
12/13/14/15/17/19/21/23 13/14/15/16/17/19/21/23  
13/14/15/17/19/21/23/26 14/15/16/17/19/21/23/26

**CHAIN CN-NTS**

1/2"x3/32" narrow 8-speed - 114 links

**HEAD SET HS-01AT**

thread BC 1"x24tpi - overall height 41,1 mm (bottom 15,6 + 25,5 top)

**PEDALS PD22ATQR  
PD-02CH**

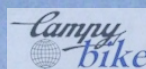
quick release - thread 9/16"x20 tpi - length 12 mm  
traditional with S-M-L toe clip

**SEAT PILLAR SP-AT  
SP-ATS**

length 180 mm Ø 25-25,4-26,2-26,4-26,6-26,8-27-27,2 mm  
length 130 mm Ø 25-26,2-26,4-26,6-26,8-27-27,2 mm

**PLATE AI-00CD**

for beneath bottom bracket shell



light alloy bodies and connecting rods - rollers on sinterized bushes - connecting rods articulated on self-lubricating bushes

light alloy body

crank in forged light alloy with fibre continuity - chainrings in aluminium alloy

balls 1/4" - hardened steel cups - ground axle  
sealed - assembly cups in aluminium - special fixing washers

aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood

anodized light alloy levers - sinterized insert

anodized aluminium lever - fast cable replacement

levers in anodized forged aluminium

light alloy forged body - ground cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - nickel-plated - periodic profiles for rapid shifting

burnished links

Selform system - selected 3/16" balls

adjustable grip tension

QPQ treatment







The Compact Drive is the result of our efforts to considerably improve the performance of the Off-Road transmission.

Each component is designed to give the maximum performance in all conditions and to guarantee prompt fluid power transmission .

The heart of the system is the Compact cassette crankset, designed with the most up-to-date dimensional analysis techniques by means of an exclusive continuous fibre forging system which exalts the qualities of the light alloy.

The innovative fastening system for the inner chainrings means they can be changed quickly.

The profile of the teeth and the special ribbing of the central chainring's spokes considerably increase shifting speed.

We build components with the optimum performance for the most important race of all:  
yours.







**GR-03OR****RECORD O.R. GROUP****REAR DERAILLEUR****RD-11OR****RD-12OR****RD-13OR**

8-speed

short cage - max. sprocket 30 teeth - tot. capacity 30 teeth

medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth

long cage - max. sprocket 32 teeth - tot. capacity 42 teeth

**FRONT DERAILLEUR****FD-01FOR / FD-02FOR****FD-03FOR****or TOP-PULL version****FD-01TPOR / FD-02TPOR****FD-03TPOR**

capacity: 22 teeth - maximum sprocket 48 teeth

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6+33 mm

adjustable clip-on 35+36 mm

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6+33 mm

adjustable clip-on 35+36 mm

**CRANKSET****FC-01CSOR**

crank lengths mm 170 - 175

inner chainring: 20-22 mid.: 30-32 outer: 42-44

chain line 46 mm with 111 mm axle

**BOTTOM BRACKET****BB-11RECAR****BB-13RECAR**

cartridge, It. 36x24 tpi, axle 111 mm, symmetrical

cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical

**BULLET SHIFTERS****BS-02IC CG**

8-speed shifter, indexed - multi-position front derailleur control - bend I.D.

15+20,5 mm

**THUMB-SHIFTER LEVERS****SL-02TB CG**

8-speed indexed shifting lever with adjuster - multi-position front derailleur

control - bend I.D. 22,2 mm

**BRAKE LEVERS BL-02OR CG****BL-02ORTB CG**

integrated with Bullet

independent with Thumb-shifter

**BRAKES****BR-02CLTDOR**

cantilever - spring tension adjuster - adjustable axial free play

**FRONT HUB****HB-00OR**

spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm -

hole for fast lubrication - rotary seals - braked lock nut in light alloy

**FREEHUB****FH-00OR**

spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm

chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette

**SPROCKETS CS-8RE**

first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth-

8th position sprocket from 23 to 32 teeth

**CHAIN****CN-CA68S**

1/2"x3/32" narrow 8-speed - 116 links

**HEAD SET****HS-01OR****HS-03OR****HS-04OR**

thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top)

thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top)

thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)

**PEDALS****PD02OR**

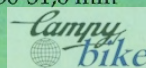
traditional

**SEAT PILLAR SP-IC**

length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm

**PLATE****AI-00CD**

for beneath bottom bracket shell



bodies and connecting rods forged in light alloy - rollers on sinterized bushings

- connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity - traditional cable pull

calibrated fork - high torsional rigidity - cable pull from above

Compact Drive - crank in forged light alloy with fibre continuity - incorporated

extractor - outer chainring in aluminium alloy, distance between centres 110

mm - mid and inner chainrings in treated steel - fast chainring replacement

double seal - assembly cups in aluminium alloy - Triple Bearing System - twin

bearings RH side - two 0-rings

sinterized insert - triple positioning spring - adjustable shift force

light alloy levers - sinterized insert - fast lubrication

anodized aluminium lever - light alloy body - fast cable replacement - adjustable

lever distance from handlebar - cable tension adjustable

levers in anodized aluminium - low profile - high coefficient shoes

light alloy forged body - ground cups and cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl

freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

super smooth links - riveted pentagonal pin

Selform system - lubrication without disassembly - selected 3/16" balls

polished, anodized body - hardox cage

head and brackets forged in light alloy - from Ø 27 stem in CrMo

QPQ treatment







**GR-03IC****ICARUS GROUP****REAR DERAILLEUR****RD-11IC****RD-12IC****RD-13IC**

8-speed

short cage - max. sprocket 30 teeth - tot. capacity 30 teeth

medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth

long cage - max. sprocket 32 teeth - tot. capacity 42 teeth

**FRONT DERAILLEUR****FD-01FOR / FD-02FOR****FD-03FOR****or TOP-PULL version****FD-01TPOR / FD-02TPOR****FD-03TPOR**

capacity: 22 teeth - maximum sprocket 48 teeth

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6+33 mm

adjustable clip-on 35+36 mm

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6+33 mm

adjustable clip-on 35+36 mm

**CRANKSET****FC-01CSIC**

crank lengths mm 170 - 175

inner chainring: 20-22 mid.: 30-32 outer: 42-44

chain line 46 mm with 111 mm axle

**BOTTOM BRACKET****BB-01CART****BB-03CART**

cartridge, lt. 36x24 tpi, axle 111 mm, symmetrical

cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical

**BULLET SHIFTERS****BS-02IC CG**

8-speed shifter, indexed - multi-position front derailleur control - bend I.D.

15+20,5 mm

**THUMB-SHIFTER LEVERS****SL-02TB CG**

8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm

**BRAKE LEVERS BL-02OR CG****BL-02ORTB CG**

integrated with Bullet

independent with Thumb-shifter

**BRAKES****BR-02CLTDIC**

cantilever - spring tension adjuster

**FRONT HUB****HB-00IC**

spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm -

hole for fast lubrication - rotary seals - braked lock nut

**FREEHUB****FH-00IC**

spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm

chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette

**SPROCKETS CS-8RE**

first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth -

8th position sprocket from 23 to 32 teeth

**CHAIN****CN-CA68S**

1/2"x3/32" narrow 8-speed - 116 links

**HEAD SET****HS-01CO****HS-03CO****HS-04CO**

thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top)

thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top)

thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)

**PEDALS****PD02IC**

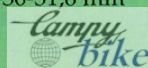
traditional

**SEAT PILLAR SP-IC**

length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm

**PLATE****AI-00CD**

for beneath bottom bracket shell



bodies and connecting rods in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity - traditional cable pull

calibrated fork - high torsional rigidity - cable pull from above

Compact Drive - crank in forged light alloy with fibre continuity - outer chainring in aluminium alloy, distance between centres 110 mm - mid and inner chainrings in treated steel - fast chainring replacement

sealed - assembly cups in aluminium - special fixing washers

sinterized insert - triple positioning spring - adjustable shift force

light alloy levers - sinterized insert - fast lubrication

anodized aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable

levers in anodized aluminium - low profile - high coefficient shoes

light alloy forged body - ground cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

super smooth links - riveted pentagonal pin

Selform system - 3/16" balls

polished, anodized body - light alloy cage

head and brackets forged in light alloy - from Ø 27 stem in CrMo

QPQ treatment







## REAR DERAILLEUR

RD-12CE

RD-13CE

## FRONT DERAILLEUR

FD-01FOR / FD-02FOR

FD-03FOR

or TOP-PULL version

FD-01TPOR / FD-02TPOR

FD-03TPOR

## CRANKSET

FC-01TDIC

## BOTTOM BRACKET

BB-01CART

BB-03CART

## BULLET SHIFTERS

BS-02IC CG

## THUMB-SHIFTER LEVERS

SL-02TB CG

## BRAKE LEVER BL-02IC CG

BL-02ICTB CG

## BRAKES

BR-02CLTDIC

## FRONT HUB

HB-00CE

## FREEHUB

FH-00CE

## SPROCKETS

CS-8RE

## CHAIN

CN-NTS

## HEAD SET

HS-01CO

HS-03CO

HS-04CO

## PEDALS

PD02IC

## SEAT PILLAR SP-IC

## PLATE

AI-00CD

8-speed

medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth

long cage - max. sprocket 32 teeth - tot. capacity 42 teeth

capacity: 22 teeth - maximum sprocket 48 teeth

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm

adjustable clip-on 35÷36 mm

clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm

adjustable clip-on 35÷36 mm

crank lengths mm 170 - 175

inner chainring: 24-26 mid.: 34-36 outer: 46-48

chain line 46 mm with 111 mm axle

cartridge, It. 36x24 tpi, axle 111 mm, symmetrical

cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical

8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15÷20,5 mm

8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm

integrated with Bullet

independent with Thumb-shifter

cantilever - spring tension adjuster

spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - rotary seals - braked lock nut

spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette

first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth - 8th position sprocket from 23 to 32 teeth

1/2"x3/32" narrow 8-speed - 114 links

thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top)

thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top)

thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)

traditional

length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm

for beneath bottom bracket shell



bodies and connecting rods in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity - traditional cable pull

calibrated fork - high torsional rigidity - cable pull from above

crank in forged light alloy with fibre continuity - outer chainring in aluminium alloy, distance between centres 110 mm - mid and inner chainrings in treated steel

sealed - assembly cups in aluminium - special fixing washers

sinterized insert - triple positioning spring - adjustable shift force

light alloy levers - sinterized insert - fast lubrication

rubber-coated aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable

levers in anodized aluminium - low profile - high coefficient shoes

light alloy forged body - ground cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

burnished links

Selform system - 3/16" balls

polished, anodized body - light alloy cage

head and brackets forged in light alloy - from Ø 27 stem in CrMo

QPQ treatment





Each series of Campagnolo rims, even if designed to meet a particular need has been developed using the same quality, the same engineering, the same production methods and has undergone the same rigorous quality control tests.

This industrial policy called for a long, careful examination of compatibility and optimization not only of the material used but also of the production processes and design.

Campagnolo boasts today a large complete range of rims produced only with profiles and material chosen to get the best combinations of stiffness/elasticity, indeformability for a good shock absorption and a high comfort.

A very rich range fit for the different branches of agonistic biking confirms Campagnolo's leadership even in the most specialistic sectors.



# RIMS FOR TUBULAR

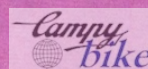


Code		Drilling	Weight gr.	Alloy		mm
P0091	SIGMA HARDOX	32 - 36	335	7075 T6	DE	22
P0111	SIGMA 20 HARDOX	32 - 36	345	7075 T6	DE	20
P0451	OMEGA "V" HARDOX	32 - 36	395	6082 T6		19,5 V
P0171	OMEGA HARDOX	32 - 36	395	5086 H38	DE	20
P0211	LAMBDA POLISHED	32 - 36	395	5086 H38	DE	20

DE: double eyelet

V: "V profile"

The weights are for rims without eyelets. Weight of one double eyelet for tubular rims: 1,52 gr.





# RIMS FOR CLINCHER TYRE



Code		Drilling	Weight gt.	Alloy		mm
P0162	OMEGA XL HARDOX	32 - 36	375	6082 T6	DE	22
P0172	OMEGA HARDOX	32 - 36	430	6082 T6	DE	20,2
P0212	LAMBDA POLISHED	32 - 36	430	6082 T6	DE	20,2
P0222	OMEGA "V" HARDOX	32 - 36	440	6082 T6		20 V
P0232	LAMBDA "V" POLISHED	32 - 36	440	6082 T6		20 V
P0562	OMEGA 19 HARDOX	32 - 36	380	6082 T6	DE	19
P0682	OMEGA 19 HARDOX 26"	28 - 32	350	6082 T6	DE	19
P0692	OMICRON BLACK	36	480	6061 T6	DE	20,2
P0362	OMICRON SILVER	36	480	6061 T6	DE	20,2
P0272	OMICRON POLISHED	36	480	6061 T6	DE	20,2
P0702	GAMMA BLACK	36	480	6061 T6	SE	20,2
P0342	GAMMA SILVER	36	480	6061 T6	SE	20,2
P0282	GAMMA POLISHED	36	480	6061 T6	SE	20,2



DE: double eyelet

SE: single eyelet

V: "V profile"

The weights are for rims without eyelets. Weight of one double eyelet for clincher tyre rims: 1,14 gr. Weight of one single eyelet: 0,46 gr.





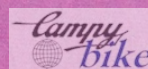
# RIMS FOR OFF-ROAD



Code		Drilling	Weight gr.	Alloy		mm
P0594	STHENO HARDOX	32 - 36	405	6082 T6		22
P0604	STHENO POLISHED	32 - 36	405	6082 T6		22
P0614	ATEK HARDOX	32 - 36	390	6082 T6		20
P0624	ATEK POLISHED	32 - 36	390	6082 T6		20
P0634	MIROX HARDOX	32 - 36	380	6082 T6	DE	22
P0644	MIROX POLISHED	32 - 36	380	6082 T6	DE	22
P0664	ZARK BLACK	32 - 36	405	6061 T6	DE	21,9
P0654	ZARK POLISHED	32 - 36	405	6061 T6	DE	21,9

DE: double eyelet

The weights are for rims without eyelets. Weight of one double eyelet for off-road rims: 1,52 gr.





# SHAMAL

The most recent Campagnolo patent in wheel technology is called SHAMAL.

It is an aerodynamic design created with a wing profile which allows the maximum efficiency to be achieved.

Aerodynamics applied to the new profile of the rim: this is the result obtained from research carried out on the N.A.C.A. (National Advisory Committee for Aeronautics) curves which guided us in giving the profile in correspondence with the hub axle the form associated with the N.A.C.A. curve for 60 km/h. This solution increases penetration into the air, eliminating the formation of braking vortices.

The wheel has only 16 spokes with a lenticular section without crossovers to contribute further to overcoming air resistance.

A reduction of the aerodynamic resistance is also obtained by recessing the nipples inside the profile, though these are still easy to access for adjustment which is carried out using a 5.5 mm socket wrench.

The lightness of Shamal wheel is very significant, as can be seen in the table.

The weight of the rear-wheel version also includes the 8 speed freewheel body, without sprockets.

The lightness has no effect on lateral rigidity which is very high and uniform.

The wheel is available in 26" and 28" versions and is supplied already assembled, without sprockets.

The Shamal wheel is supplied with an extension (code VE-01 or VE-02) to fit to the tire valve for inflating.



CODE	SHAMAL FOR TUBULAR TYRE (for 18+20 mm tubular tyres)	RIM CROSS SECTION mm.	WEIGHT ~ gr.	HUB SPACING mm.	FREEWHEEL	SPROCKET SPACING mm
R0226	ROAD FRONT WHEEL 26" (650)	19	750	100	-	-
R0236	ROAD FRONT WHEEL 28" (700 C)	19	790	100	-	-
R0638	ROAD REAR WHEEL 28" (700 C)	19	1095	130	8 speed	41,5
R0636	ROAD REAR WHEEL 28" w. fw. body in light alloy	19	1040	130	8 speed	41,5

CODE	SHAMAL FOR CLINCHER TYRE (for 18+23 mm clincher tyres)	RIM CROSS SECTION mm.	WEIGHT ~ gr.	HUB SPACING mm.	FREEWHEEL	SPROCKET SPACING mm
R0246	ROAD FRONT WHEEL 26" (650)	19	800	100	-	-
R0256	ROAD FRONT WHEEL 28" (700 C)	19	860	100	-	-
R0648	ROAD REAR WHEEL 26" (650)	19	1105	130	8 speed	41,5
R0646	ROAD REAR WHEEL 26" w. fw. body in light alloy	19	1050	130	8 speed	41,5
R0658	ROAD REAR WHEEL 28" (700 C)	19	1165	130	8 speed	41,5
R0656	ROAD REAR WHEEL 28" w. fw. body in light alloy	19	1110	130	8 speed	41,5



# FLUID-DYNAMIC WHEELS



**GHIBLI M23**

Campagnolo, thanks to a patented working of a superlight material, the Kevlar, have made possible the realization of a wheel having the same weight of a traditional spokes wheel.



**SCIROCCO**

Scirocco is a front wheel, antiwind thanks to the four holes made on the sides of the lateral surfaces.



**KHAMSIN**

Lightness is guaranteed by the new composite material utilized. This wheel has a special hub which can be turned from road into track and vice versa by replacement of the axles.

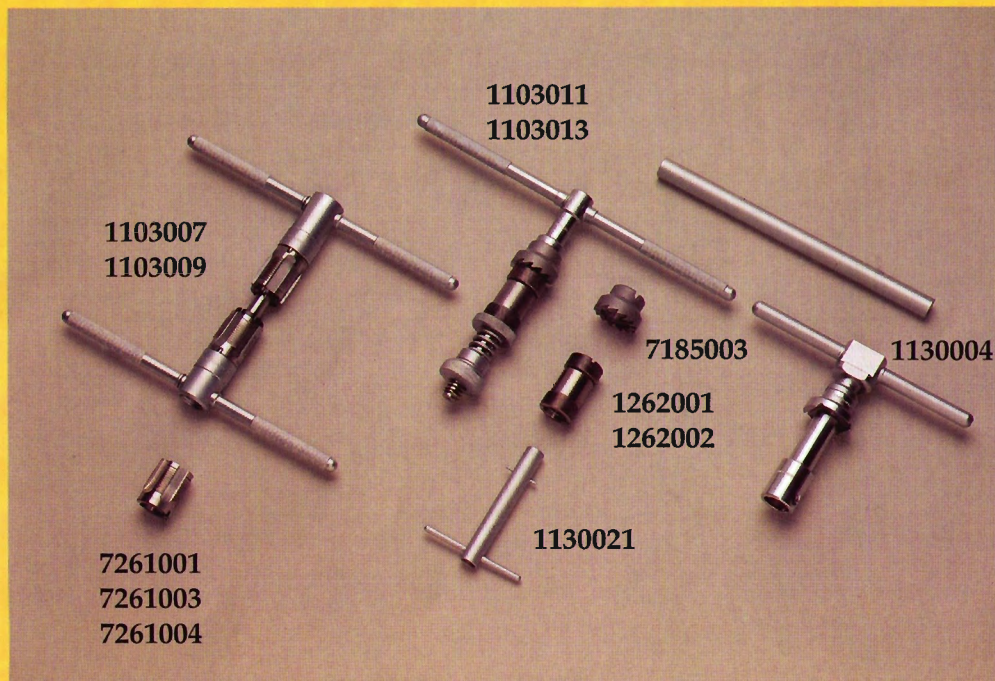
CODE	GHIBLI M23	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0011	ROAD FRONT WHEEL 24" (600)	18	740	100	-	-
R0021	ROAD FRONT WHEEL 26" (650)	18	820	100	-	-
R0051	TRACK FRONT WHEEL 24" (600)	18	740	100	-	-
R0071	TRACK FRONT WHEEL 26" (650)	18	820	100	-	-
R0501	ROAD REAR WHEEL 28" (700 C)	18	960	126,5	35x24tpi	36
R0511	ROAD REAR WHEEL 28" (700 C)	18	960	126,5	BC 1,370x24tpi	36
R0531	TRACK REAR WHEEL 28" (700 C)	18	960	120	35x24tpi	24
R0541	TRACK REAR WHEEL 28" (700 C)	18	960	120	BC 1,370x24tpi	24

CODE	SCIROCCO	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0215	ROAD FRONT WHEEL 26" (650)	18	980	100	-	-

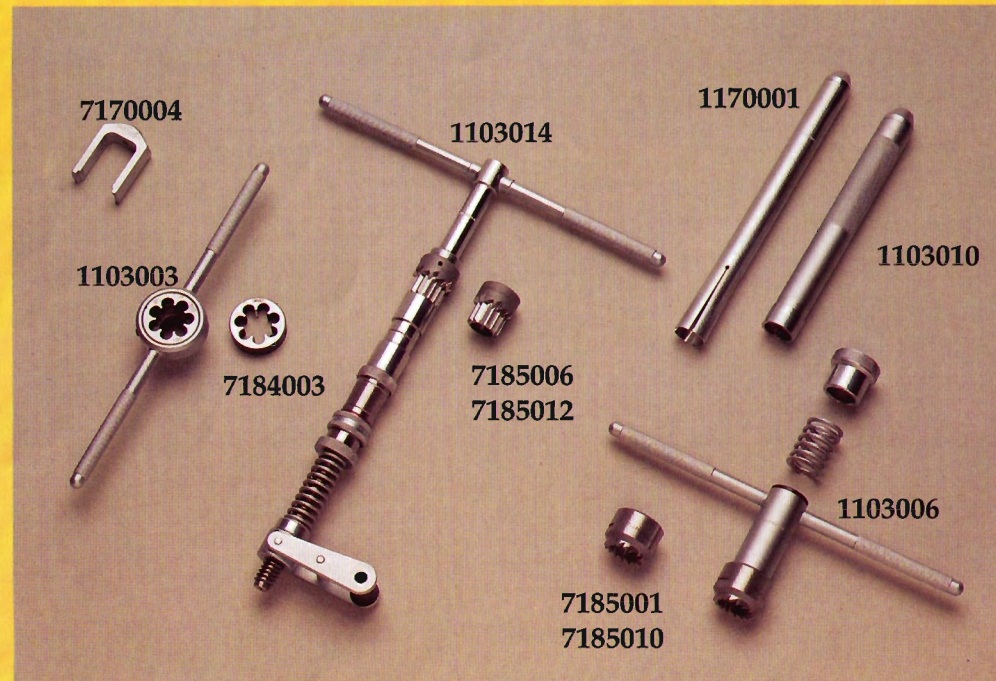
CODE	KHAMSIN	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0102	ROAD FRONT WHEEL 26" (650)	18	950	100	-	-
R0112	TRACK FRONT WHEEL 26" (650)	18	950	100	-	-
R0594	ROAD REAR WHEEL 28" (700 C)	18	1110	126,5	35x24tpi	36
R0604	ROAD/TRACK REAR WHEEL 28" (700 C)	18	1110	120	BC 1,370x24tpi	36/24



# SPECIAL TOOLS

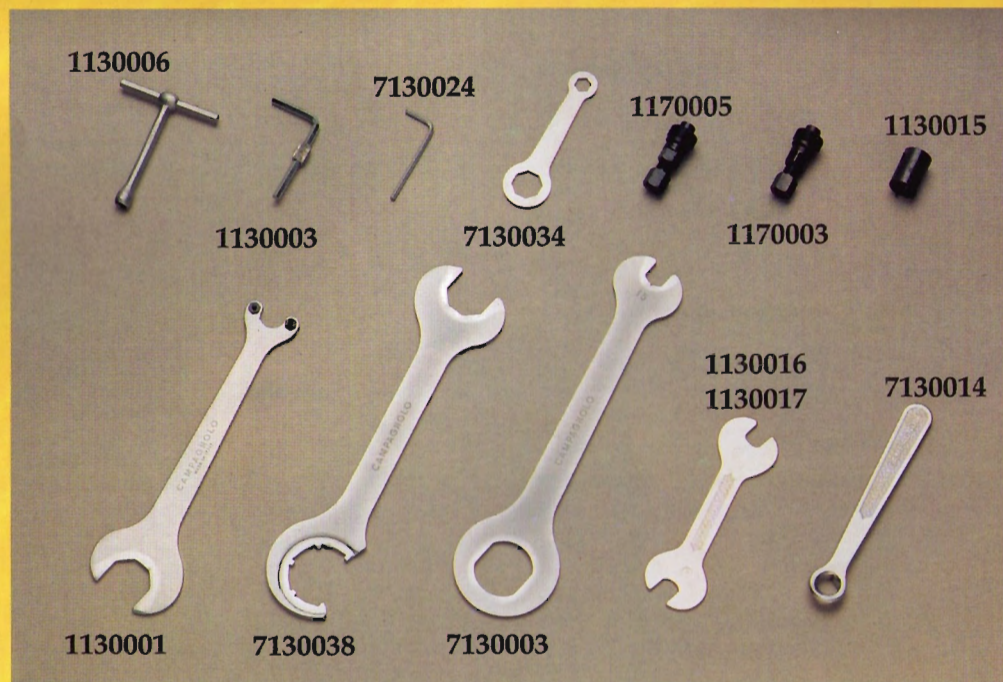


- |         |  |
|---------|--|
| 1103007 | b.b. double tap, Italian thread                          |
| 1103009 | b.b. double tap, English thread                          |
| 7261001 | spare tap It. thread, 36x24tpi 55°                       |
| 7261003 | spare tap English thread, 1,370"x24tpi 60° RH            |
| 7261004 | spare tap English thread, 1,370"x24tpi 60° LH            |
| 1103011 | b.b. face cutter, Italian thread                         |
| 1103013 | b.b. face cutter, English thread                         |
| 7185003 | mill for 1103011 and 1103013                             |
| 1262001 | inner and outer thread guide for 1103011, Italian thread |
| 1262002 | inner and outer thread guide for 1103013, English thread |
| 1130021 | key for sleeve   |
| 1130004 | r.h. b.b. tool   |

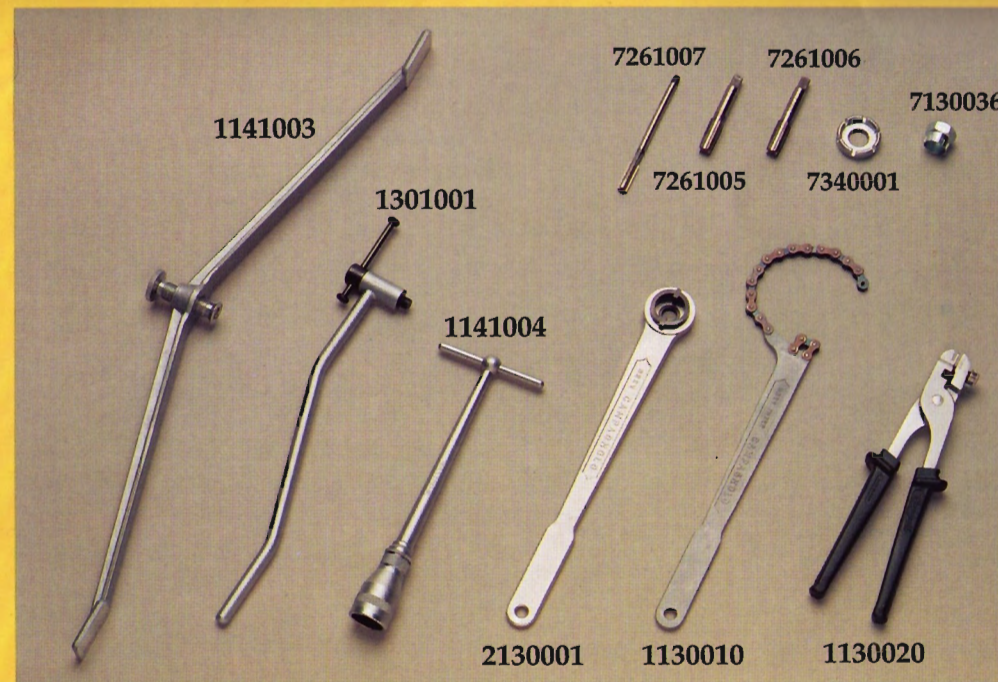


- |         |   |
|---------|---|
| 7170004 | fork crown race remover   |
| 1103003 | fork column die and die holder, English thread BSC 1"x24tpi 60°           |
| 7184003 | fork column die BSC 1"x24tpi 60°  |
| 1103014 | head race mill  |
| 7185006 | double head race mill for 1103014   |
| 7185012 | double head race mill for head set cup with hard metal insert for 1103014 |
| 1170001 | head set cup remover  |
| 1103010 | head set cup punch  |
| 1103006 | crown race cutter English thread  |
| 7185001 | crown race mill for 1103006   |
| 7185010 | crown race mill for head set with hard metal insert for 1103006           |



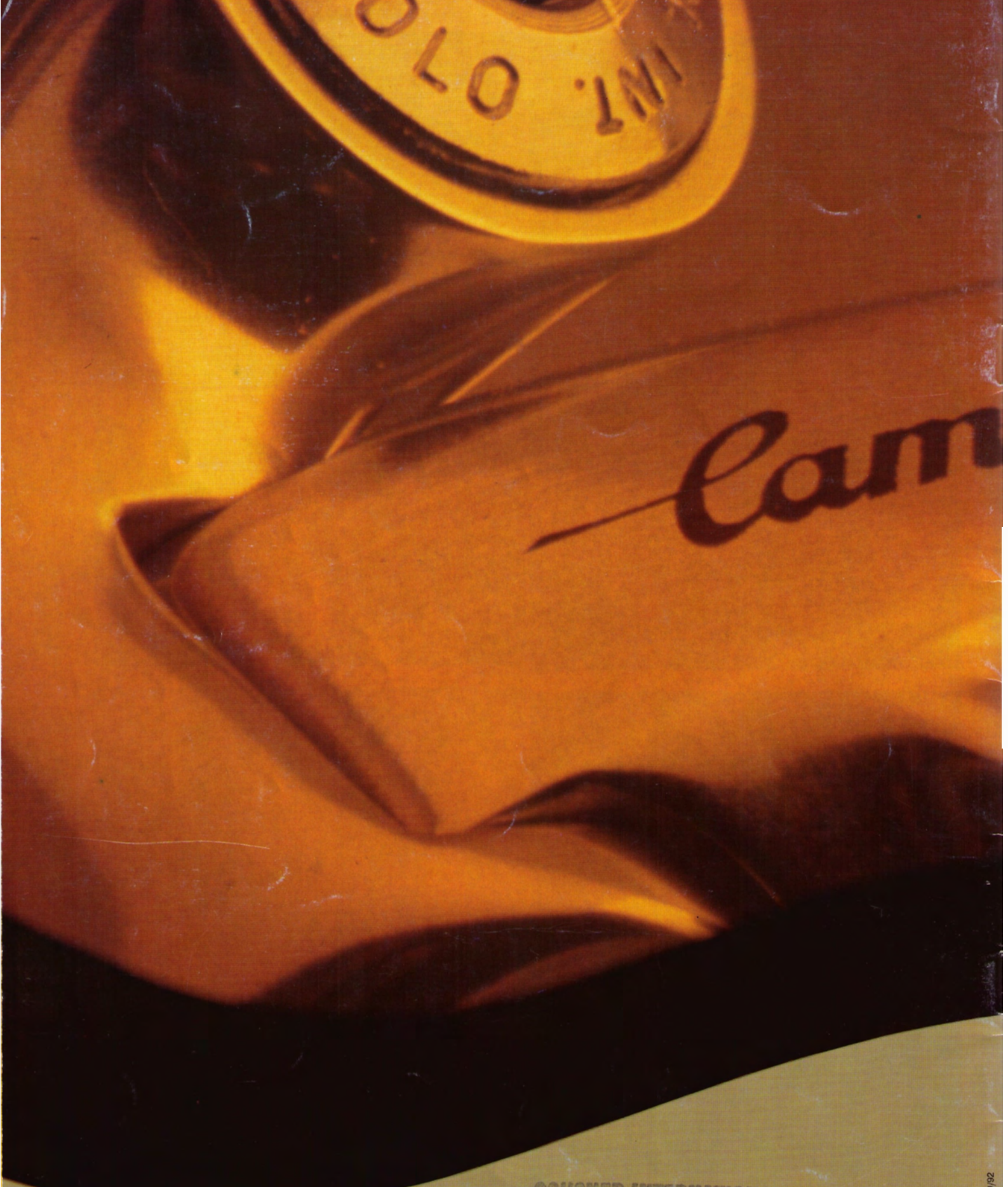


- 1130006 T wrench, 6-8 mm  
 1130003 L shaped allen key, 5 mm  
 7130024 L shaped allen key, 3.5 mm  
 7130034 key for Record QR pedal cartridge  
 1170005 crank extractor with l.h. thread (for cranks with incorporated extractor)  
 1170003 crank extractor with r.h. thread  
 1130015 tool to remove crank self-extractor  
 1130001 tool for b.b. adjustable cup and head set  
 7130038 tool for b.b. lockring, for Compact crankset and for head set  
 7130003 tool for b.b. fixed cup and pedal axle  
 1130016 set hardened steel tool, size 13/14, for cones and locknuts and for brake fixing axle (2 pcs.)  
 1130017 set hardened steel tool, size 15/16, for cones and locknuts (2 pcs.)  
 7130014 spanner for cranks  
 7130037 key for fixing Compact chainwheel crank



- 1141003 new wheel dish tool for checking the centering of rim to hub locknuts  
 1301001 back stay tool for checking the r.h. fork and eyelet  
 1141004 back stay tool  
 2130001 tool for freewheel  
 1130010 spanner with chain for freewheel sprockets  
 1130020 chain tool  
 7261007 tap 10x26tpi for rethreading r.h. end gear hanger  
 7261005 r.h. tap 9/16"x20tpi, pedal axle hole right crank  
 7261006 l.h. tap 9/16"x20tpi, pedal axle hole left crank  
 7340001 spoke nipple 3-4  
 7130036 spanner for cassette freewheel sprockets and cartridge b.b.





**OCHSNER INTERNATIONAL, INC.**  
4341 W. PETERSON AVE., CHICAGO, IL 60646-5994  
PH. 312-286-3111

CAMPAGNOLO S.R.L. - VIA DELLA CHIMICA, 4 - 36100 VICENZA - ITALY - PHONE 0444-564933 - TELEFAX 0444-565062  
CAMPAGNOLO (DEUTSCHLAND) GMBH - QUETTINGER STRASSE 196 - 5090 LEVERKUSEN - GERMANY - PHONE 02171-768254 - TELEFAX 02171-768255  
CAMPAGNOLO USA INC. - 5245 AVENIDA ENCINAS, UNIT J - CARLSBAD - CALIFORNIA 92008 - U.S.A. - PHONE 619-9310106 - TELEFAX 619-9310991  
SERVICE AND TECHNICAL INFORMATION: CENTRAL (ITALY) - PH. 0444-571871 GERMANY - Phone 02171-768254 USA - Phone 619-9310106

