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CAMPAGNOLO 2003



2003 RANGE

Xenon 4
Mirage 10
Veloce 14
Centaur 18
Chorus 24
Record 30
Record Pista 38
Triathlon components 39

ERGOBRAIN
Ergobrain10 40

RACING WHEELS

Low-Profile Wheels 44
Proton 44
Neutron 46
Hyperon 48

Medium-Profile Wheels 50
Scirocco 50
Zonda 52
Eurus 54

High-Profile Wheels 56
Bora 56
Ghibli 57
Pista 58

Cycling Apparel 59

Cycling Apparel Distributors 70

Technical Specifications 71

Service Center 94

In the World 95

We have tried to be precise but would like to apologize for any mistakes that there might be in this catalogue.
We must also point out that we reserve the right to change products, surface finish and specifications at any moment without prior notice.
For further information, please visit our site www.campagnolo.com, which is regularly updated.

Record, Chorus, Centaur, Veloce, Mirage, Xenon, Hyperon, Neutron, Electron, Proton, Eurus, Zonda, Scirocco, Bora, Ghibli, Shamal, Vento, Pista, Racing 1, Ergobrain, Ergobrain10, Superative, Floating-Link-Action, HD-Link, HD-L, Perma-Link, Exa-Drive, Exa-Drive MK2, Ultra-Drive, Pro-Fit, Pro-Fit PLUS, Differential brakes, Threadless, Hiddenset, Hiddenset TTC, TTC, Ergopower, BB System, C10, C9, ED, UD, Climb-Dynamic, Climb-Dynamic OverSize, Climb-Dynamic QS, Fluid Dynamic, HPW, G3, G4, Ultralinear-Geometry, Ultralinear, Differential rims, Differential spokes, Asymmetric, AC-H, AC-S, SCS, Technology and Emotion are Campagnolo trademarks.

XENON



XENON GROUPSET

9 speed, aggressive finish, reliability, and top performance and design make the Xenon groupset special. Designed for everyone making their first approach to the world of cycling without losing the emotions of top-end groupsets. The Xenon groupset combines all the technological innovations characteristic of Campagnolo flagship systems at an extremely competitive price.

ERGOPOWER XENON

The Ergopower Xenon controls are made entirely from composite materials and stand out due to their lightness and their racing pedigree. They are distinguished from the rest of the Campagnolo range by a different indexing mechanism, and in particular by the smaller inside shifting lever. Ergopower Xenon controls are compatible with all the 9s rear derailleurs in the Campagnolo range.



XENON

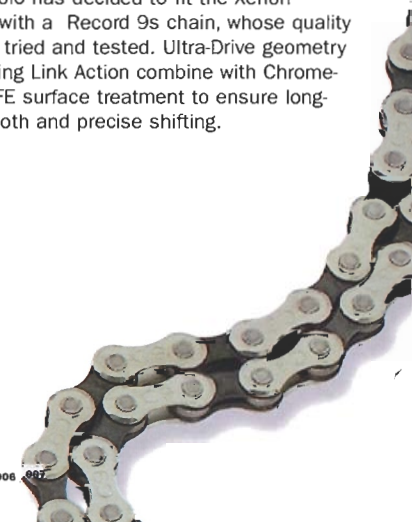
XENON REAR DERAILLEUR

The Xenon rear derailleur is the result of a wealth of experience gained in the field of composite materials. The initial experience with the Record groupset was used to make it even more successful. So we soon decided to let the Xenon groupset benefit too.

Combining the most modern technologies with the finest materials has created a product that more than matches expectations. Campagnolo composite materials have brought an entry-level rear derailleur whose lightness and performance cannot be matched by conventional materials. The geometry of the Xenon rear derailleur is based on the technology of the 10s rear derailleurs and incorporates all their main features: adjustment screw on the lower body, lightened upper body and re-balanced parallelogram.

RECORD 9S CHAIN

It's hard to call the Xenon groupset entry-level. There are too many features that make it virtually hi-level. Take the chain, for example: Campagnolo has decided to fit the Xenon groupset with a Record 9s chain, whose quality has been tried and tested. Ultra-Drive geometry and Floating Link Action combine with Chrome-Nickel-PTFE surface treatment to ensure long-term smooth and precise shifting.





XENON TRIPLE DRIVETRAIN

As triple drivetrains are becoming more and more popular with cyclists, Campagnolo has also devised a triple drivetrain option for the Xenon groupset.

It is available in the 30-42-52 chainring version with 170 or 175-mm cranks. The Xenon triple drivetrain uses Exa-Drive system for shifting that is worthy of top-end groupsets.

XENON BRAKES

Xenon brakes are dual pivot, with the same geometry as the Record groupset. This type of brake has many different advantages: more powerful and accurate braking, less braking force required and less dispersion of braking force.

And for even better performance, Campagnolo has given brake pads made of the special Record mixture to make braking even more powerful and accurate.

XENON



MIRAGE



MIRAGE GROUPSET

The Mirage groupset has been in the Campagnolo catalog for years and was a success from the start. The technical features and visual appeal were immediately recognized and rewarded by the public. The Mirage groupset has always incorporated Campagnolo's latest technical developments and is being enhanced the whole time: 9-speed drivetrain, dual-pivot brakes, ultra-drive geometry and a Record chain are just some of the reasons behind its great success.

AGGRESSIVE LOOK, RECORD STYLE

Looks do matter and the Mirage groupset is no exception to the rule. The Record groupset is the cyclist's benchmark when it comes to looks and performance.

That's why Campagnolo wanted to give the Mirage groupset a little of the Record image. The chromed black finish of the rear derailleur and the Ergopower controls in black composite materials recall in vivid tones the racing spirit of those top-end Campagnolo products that get cyclists throughout the world so excited.

MIRAGE TRIPLE DRIVETRAIN

Campagnolo has devised a triple drivetrain for the Mirage groupset to cater for the increasing numbers of cyclists who appreciate the advantages of triple drivetrains. Two crank lengths are available: 170 and 175 mm, and the triple chainring has 30-42-52 teeth. All this is combined with the famous Exa-Drive geometry that ensures that the chain moves smoothly and fluidly up and down the chainring.



MIRAGE

HIGH-CLASS FINISH

The finish is what makes a job complete. It's the final touch. Campagnolo has always prided itself on its finishes and no way could it get out of giving the Mirage groupset its own final touch. This finish really is high class. Just look at the attention paid to minor details, the precision of assembly and the quality of the surface treatments.

TOP-END PERFORMANCE

Mirage performance is top-end. The drivetrain is clearly based on studies of the 10s drivetrains. Using the ultra-drive geometry and the rear derailleur with the adjusting screw on the lower body and the re-balanced parallelogram are the perfect ingredients for years of smooth, precise and consistent shifting.





VELOCE GROUPSET

The Veloce Groupset is the top of the middle range. The quality of the materials, the performance, the finish and its durability have moved it up to the top of the class. Veloce's sporting and decisive character together with its interesting price make it the only choice for cyclists with a racing spirit.

VELOCE: RELIABILITY AND DURABILITY

The quality of a product is determined by its reliability and durability. The Veloce groupset is a good example. The materials and the manufacturing and assembly tolerances are normally found only in top-end products.

VELOCE TRIPLE DRIVETRAIN

The popularity of the triple drivetrains with cyclists has led Campagnolo to devise a triple drivetrain for the Veloce range. Two crank lengths are available: 170 and 175 mm, and the triple chainring has 30-42-52 teeth. All this is combined with the famous Exa-Drive geometry that ensures smooth and precise shifting.



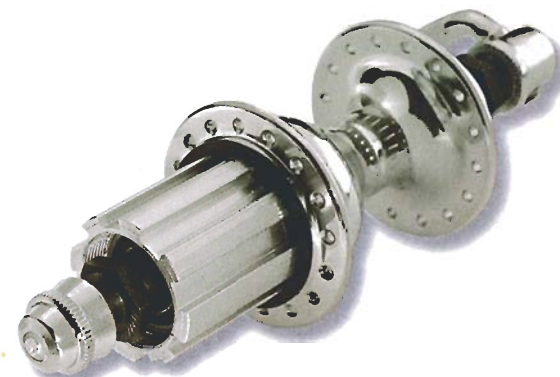
VELOCE

VELOCE SPROCKETS

Veloce sprockets are made of the same material as Chorus sprockets. The same goes for the nickel-chrome surface treatment, which was hitherto given only to top-of-the-range sprockets, and the Ultra-Drive geometry of the chamfers. These touches enhance the performance and lengthen the working life of Veloce sprockets. From this year there will be a 14-28 sprocket set for our budding champions. Now they too will be able to enjoy the full benefits of Campagnolo quality.

VELOCE HUBS

The hi-end finish of the Veloce groupset gives it a top-end appearance. In particular, the gloss finish of the hubs and the use of light alloy for the freewheel body show their high quality.



CENTAUR



CENTAUR GROUPSET

The Centaur groupset inaugurates the top end of the Campagnolo range and brings outstanding technological content and performance within the reach of a large number of users.

Centaur is appreciated for its high-precision performance and for its appearance, and is becoming the Campagnolo best seller thanks to the unparalleled value for money that it provides.

2X10 AND 3X10 DRIVETRAIN

Campagnolo has revolutionized cycling with its most innovative and daring project to date: the 10-speed drivetrain.

Last year, it launched the incredibly successful Record triple 10x3 drivetrain. This year, it decided to offer a 10x3 drivetrain to a great number of customers by launching the Centaur triple drivetrain.

The rear sprockets can be combined with 30-40-50 or 30-42-53 chainrings, so all types of cyclists are catered for.

OVERSIZE HUBS.

These hubs combine maximum technology with minimal weight and are the fruit of an ingenious Campagnolo patent. They can easily be recognized by their OVERSIZE form and their anodized finish. The hub body, freewheel body and axle are in light alloy.

A locking in special resin enables play to be adjusted even with the wheel mounted on the bicycle. The internal components are standardized and are the same as those inside Record and Chorus hubs.



PRO-FIT PLUS CENTAUR PEDALS

Pro-Fit PLUS Centaur pedals are based directly on Record pedals. Their state-of-the-art design makes them really comfortable over long distances although they are compact and the pedal weight of just 325g is top-of-the-range standard. The cleats and the support surface overcome the problem of the 'hot point' that normally besets compact pedals.

To suit these pedals to the different requirements of cyclists without limiting adjustment scope, Campagnolo offers fixed cleats as an optional (cleats with floats are supplied as standard with the pedals) and HRE plates that some cyclists prefer because they are harder to release.

For cyclists who train in poor light Campagnolo has designed dedicated reflectors (type-approved in the USA, France and the United Kingdom) whose special shape does not interfere with the pedal stroke even on bends.

The basic difference between the Centaur and Record pedals is the finish and steel, as opposed to titanium, for the axle.



10S UD SPROCKETS

Centaur sprockets use the Ultra-Drive system and are the fruit of continuous research and development to improve our products. The Ultra-Drive system makes shifting more precise and fluid, especially thanks to the careful machining and treatments that the sprocket teeth have undergone. The special sprockets pattern interfaces perfectly with the rest of the drivetrain components, especially the chain and chainrings, thus bringing performance to levels of outstanding excellence.

The sprockets are made with the same type of steel as Record and Chorus sprockets. The only difference is that they use a different system of supports and spacers.

C10 CHAIN

The C10 chain is just 6mm wide and weighs a mere 279g. It represents the latest in chain technology. This chain has been made from the finest materials, has been subjected to the most advanced surface and thermal treatments and has been manufactured to the finest tolerances. Its light weight and performance are unsurpassed and have made it possible to create a ten-speed drivetrain.

The chain is closed by the new HD-Link system, which consists of a pin which is inserted with a guide pin into a virgin hole of the chain link. For this chain and in particular for this closure system Campagnolo has created the special UT-CN200 tool, which comes complete with a chain lock, with a calibrated tip for the C10 chain and for the HD link pins. To get the most out of your C10 chain in terms of durability and quietness Campagnolo recommends using the new Superlative lubricant.







CHORUS GROUPSET

The Chorus groupset is known throughout the world of cycling for its quality, reliability and durability. It is closely related to the Record groupset and incorporates all the Record features and technical innovation that have made it an undisputed world leader. The Chorus groupset differs from the Record groupset in its use of aluminum alloy rather than carbon fiber materials. But this difference enables it to attract an increasing number of fans who are looking for top quality at a lower price.

CHORUS TRIPLE DRIVETRAIN

This year Campagnolo is presenting a long-cage rear derailleur and a 111-mm asymmetrical bottom bracket on the Chorus groupset to enable enthusiasts to obtain a triple drivetrain using the Record crankset and front derailleur. The new rear derailleur enables even the 13-29 sprocket set to be used, whilst the bottom bracket with aluminum spacer interfaces with the Record triple crankset. This drivetrain has been designed to master even the 'impossible' high mountain climbs where your legs really feel the shortage of oxygen.



CHORUS HIDDENSET HEADSET SERIES

Two new Hiddenset 1-1/8" headsets, one standard and one TTC, have been added to the two existing Chorus headsets.

Like the other Hiddenset headsets, they are built into the frame's head tube. This reduces weight and above all gives the bike a really smart appearance thanks to the perfect aesthetic balance between the forks and the frame and between the frame and the stem.

The bearings are the same as for the Record Hiddenset, so they are the very best in terms of materials and tolerances.

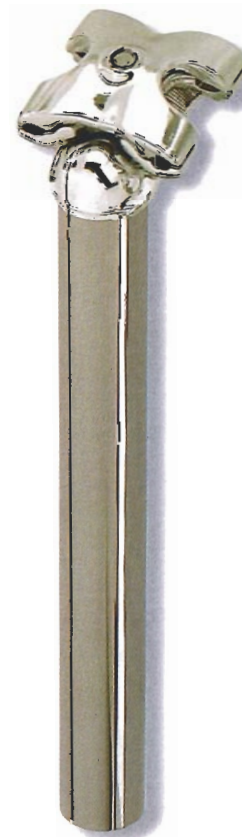
A Chorus class top disc in black anodized light alloy with a bolt in special steel are used.

The HIDDENSET headset is remarkably light, easy to assemble and maintain and durable, a typical Campagnolo product.



CHORUS DIFFERENTIAL BRAKES

Campagnolo brakes have become the reference standard for racers because of their powerful, precise and progressive braking qualities. To make the brake system lighter without diminishing power, the dynamics of the bicycle during all types of braking had to be examined to determine the parameters and to precisely calculate how much of the braking power is supplied by the front and how much by the rear brake. That is why a rear brake has been devised that is 40 g lighter than the front one, is more progressive and reduces the risk of rear wheel lock without in any way increasing stopping distance. The final result, which is highly innovative for the world of racing bicycles, is the 'differential' braking system that was introduced in the year 2001. Although it is very light, it provides very short stopping distances and is easier to use. These are therefore not only the best brakes going in technical and performance terms but are also the ones with the most elegant design thanks to the use of forged components with recessed pivots.



CHORUS

CHORUS TITANIUM SEAT POST

The Chorus titanium seat post sums up what the Chorus groupset is all about: exceptional functionality and performance combined with great aesthetic appeal. The titanium that was chosen for the tube makes the seat post extraordinarily tough and light and gives it a finish that is usually associated with a hi-end product.

RECORD





RECORD

RECORD GROUPSET

The Record groupset once again confirms its undisputed leadership. The use of the finest materials such as carbon fiber and titanium, the unique lightness and the soft and precise functionality make it an unequalled product. The new carbon Hiddenset headset and the new triple drivetrain combination that have been added to the series this year have further enhanced it.

RECORD TRIPLE DRIVETRAIN

A new 30-40-50 chainring is added to the Record 10s triple drivetrain presented last year. Campagnolo wanted to increase the choice for our users and thereby make a lot of cyclists happy and that's why it designed this new combination.

Notice also the bottom bracket that has been designed for the Record triple drivetrain: 111 mm long, carbon-fiber central body and a specific asymmetry that maintains the 'Q' factor.

NEW RECORD HIDDENSET HEADSETS

For years, Campagnolo has been in the forefront of composite materials and this year it has introduced two new integrated headsets, in the two versions 1-1/8" and 1-1/8" TTC. In addition to the carbon bolt washer and nut set that has for years been a feature of the Record threadless headset, the top fixing bolt cap is also in carbon. This certainly saves on weight, although the existing aluminum top fixing bolt cap is very light, but it is above all yet another proof of the company's domination of the technology of composite materials. Apart from that, the Hiddenset headset is just the same, with top-quality bearings, the bolt washer and nut set in carbon and light alloy.





RECORD CARBON CRANKSET

The Record Carbon crankset bears the unmistakable mark of Record carbon components. The aggressive and at the same time elegant appeal of the Record carbon fiber combines with amazing technical features:

- Greater stiffness;
- Greater resistance to torsion and flexure;
- Greater resistance to fatigue
- 150 g less

ERGOPOWER RECORD

The Ergopower controls are the result of a smart project that enabled us to ensure complete compatibility between these designs and all the most innovative designs that have extended the range of Campagnolo products over the last few years. Their aggressive and elegant appearance is due to the carbon fiber levers and the body in composite material and has made them unmistakable for thousands of discerning enthusiasts.



RECORD CARBON SEAT POST

The clean cut design of Record's carbon seat post and its great mechanical qualities make it unique. The reliability and the reduced weight have made it a success. It is now available in three versions:

- 27.2 Ø with 250-mm tube
- 27.2 Ø with 350-mm tube
- 32.4 Ø with 250-mm tube

A Campagnolo clamp that has been specially designed for the Record carbon seat post is supplied with every model.

RECORD HUBS

Record hubs are a concentration of genius and technology. The special design of the hub body and the oversize axle ensure optimal axial stiffness and great lightness. The standardized components and the ease with which the bearings can be adjusted really simplify maintenance tasks.

RECORD BRAKES

Record differential brakes were praised by the international press for their performance and state-of-the-art technology.

They are the result of sophisticated tests with on-board data gatherers and provide more progressive braking for the rear brake, which means that stopping times and distances have been cut. In addition, the special design of the rear brakes has reduced the weight of the entire braking system by 40 g.



RECORD

SUPERLATIVE LUBRICANT FOR CHAINS

The operating efficiency and duration of the drivetrain components (chain, sprockets, chainrings and rear-derailleur pulleys) depend on the quality and frequency of maintenance. In particular, a chain elongated by wear will also cause sprockets and chainrings to wear rapidly. That is why a clean and correctly lubricated drivetrain will extend the working lives of all its components to their maximum extent. However, not all lubricants are the same. Although they often look similar, very few products are able to penetrate between the links of the chain and strongly bind with the metal so as to almost eliminate chain wear.

After years of research and tests on the best existing products Campagnolo has found and perfected a chain lubricant that is unmatched anywhere in the world. Campagnolo's Superlative chain lubricant gets right inside the chain, bonds with it at the molecular level and lubricates it like no other lubricant. It is a totally synthetic lubricant that resists high temperatures, does not dissolve in water, makes lubrication less frequent and transmission quieter. Campagnolo recommends using it after cleaning the chain if you want to get the best drivetrain performance out of your competition bike.



RECORD PISTA GROUPSET

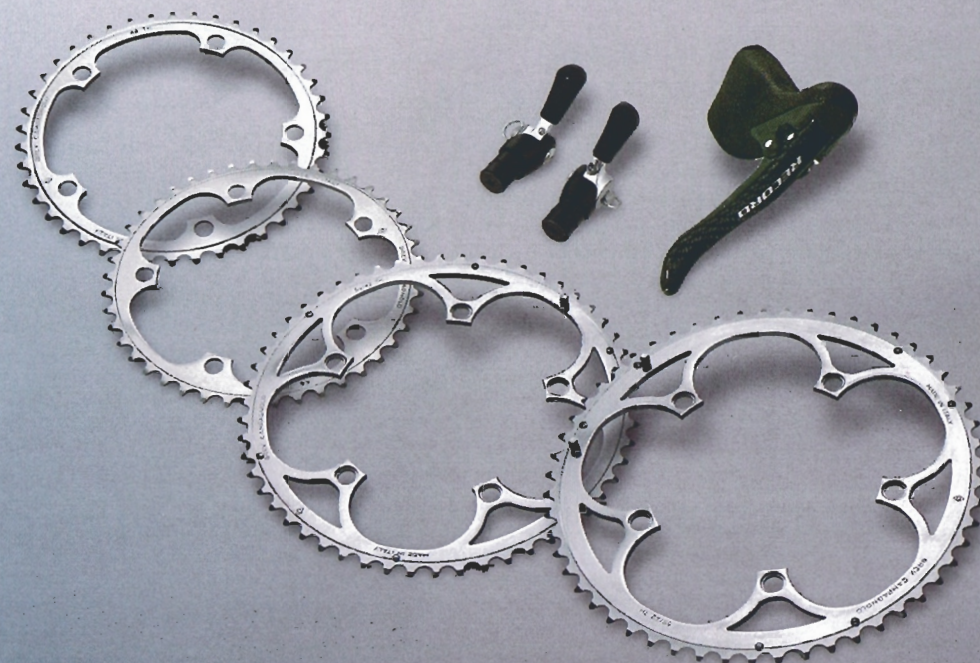
The Pista version of the Record groupset is an assembly of high-performance components that boast an extraordinary history of success on tracks throughout the world where they are used, often together with PISTA wheels, to win even the toughest competitions. The three versions of the carbon seat post, the pedals and the headsets (including the new Hiddenset headsets with the carbon top caps) use the same components as the road-racing Record groupset but the crankset, hubs and bottom bracket are designed specifically for track use.



TRIATHLON

TRIATHLON/TIME-TRIAL COMPONENTS

The Campagnolo components designed for time-trials or triathlon events include over-size chain-rings, bar-end shifters and special extra-light brake control levers that are made entirely from composite materials. The bar-end shifters and brake controls make it possible to use handlebars that provide aerodynamic positions that are suitable for these types of competition whilst the chainrings enable the rider to use very high gears or to fit 26"/650C wheels.





ERGOBRAIN10

ErgoBrain is the result of Campagnolo's commitment to electronics. The application of state-of-the-art technology combined with an intimate knowledge of the world of cycling have produced an unprecedented result.

The integrated ErgoBrain computer is a full-scale control unit for your bicycle. Just click on the integrated Ergopower controls to access all functions without ever having to take your hands off the handlebars. The hardware is worthy of this jewel of technology: an elegant design, optimal aerodynamic penetration and ideal positioning on the handlebars for readout make this a harmonious complement for your bicycle.



NEW 10X3 COMPATIBLE VERSION

The addition of the new 10s triple drivetrain to the Campagnolo range made it necessary to design an ErgoBrain that was able to monitor these new drivetrains. The new ErgoBrain has all the features of the previous ErgoBrain10, but it has the 10x3 option in addition. Its black finish make it easy to recognize.



FUNCTIONS

Sprocket self-learning

Whatever the sprocket combination, ErgoBrain calculates it automatically. You no longer need to program the sprockets one by one, you avoid manual data input errors and can change the back wheel without having to reset the computer.

Tooth number and chain position display

ErgoBrain displays chain position through icons and also indicates the number of teeth used by the chainring-sprocket combination.

Stopwatch

The stopwatch function enables you to keep track of all partial route data without ever sacrificing summary data detailing the entire route.



Gear development

The 'gear meter' function indicates the distance covered in meters with one complete crankset revolution.



Back-lit screen

The back-lit screen function enables you to use ErgoBrain functions even if the light is poor. It is activated by pressing any of the integrated pushbuttons: the display lights up for the time needed to read data and then shuts down until a pushbutton is pressed again.



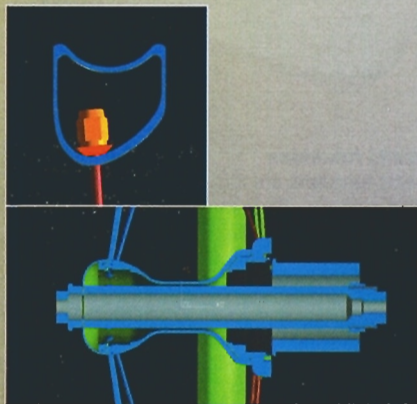
Acoustic functions

Acoustic functions are ideal for a complete training program. There are as many as four such functions, depending on the kind of training session required: Speed, Pedal Cadence and Reps.

PROTON

LOW-PROFILE WHEELS

Low-profile wheels have conquered the racing world thanks to their amazing quality in sprints, climbs and long rides. Their exceptional lateral and torsional stiffness makes them impressively efficient wheels. They are the ideal 'tool' for demanding climbs but they are also extremely comfortable even over long rides thanks to their capacity to absorb bumps. There are three very similar models of low-profile wheels, all of which have asymmetrical rear rims, to meet the requirements of all racers who prefer this type of competition 'tool'.



PROTON

PROTON

Proton wheels provide demanding riders, who are looking for a light but very reliable product for long-distance rides or climbing, with top-of-the-range performance. They have differential rims with asymmetrical rear rims, differential spokes with varying sections, oversize extra-light hubs with light alloy axles to provide even the most exigent riders with speed, lightness, lateral and torsional stiffness and comfort.

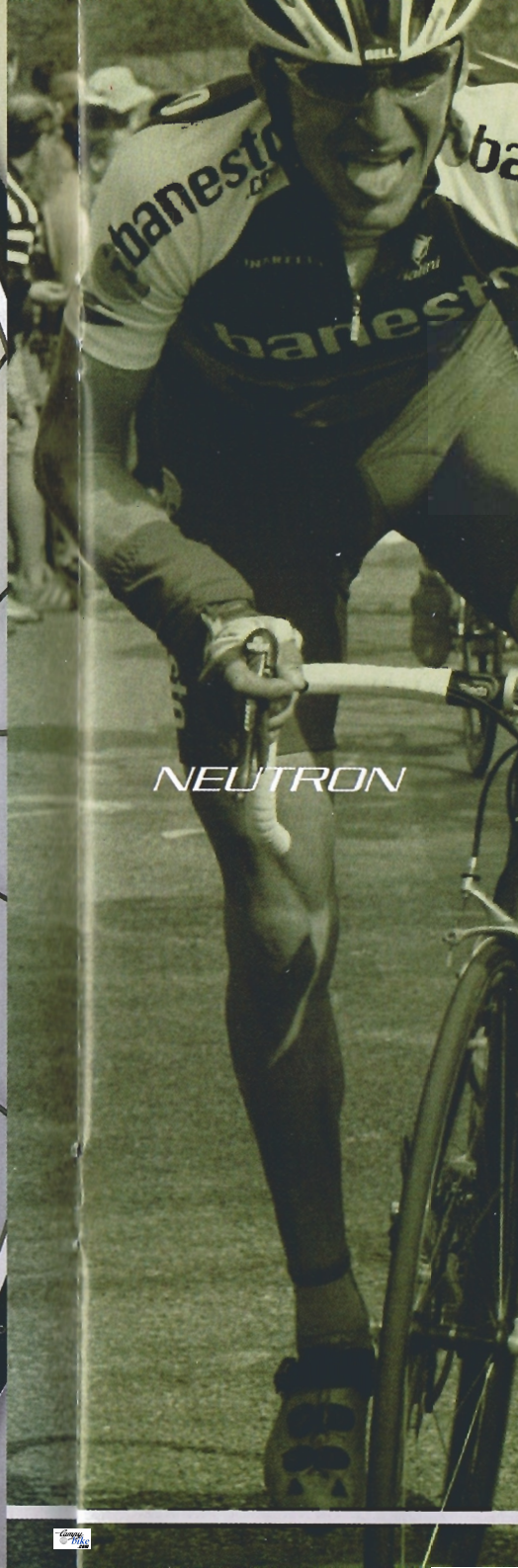
This is a competition product for even the most ambitious rider. Outstanding performance at an affordable price.



NEUTRON

NEUTRON

Neutron wheels are the ideal complement for any hi-level or top of the range groupset thanks to their Record class HPW oversize hubs and to the ultralinear differentiated 'aero' spoke geometry with a self-orienting nut-plate system with spherical coupling. The rear differential asymmetrical rim ensures better lateral stiffness and therefore more efficient power transmission without any compromise on comfort during long rides.



Neutron wheels are designed for races over terrain with steep and repeated slopes, with continuous acceleration or very long in distance, where the ability to absorb jolts from an uneven road surface becomes very important. The maximum performance obtainable today with light alloy wheels.

HYPERON

Hyperon wheels are extraordinary competition wheels with carbon-fiber hubs and low-profile rims. Each pair of wheels weighs just over 1200 g yet they embody all the reliability, tenacity, quality and durability that have always distinguished Campagnolo products. Hyperon wheels are the "full-carbon" version of Neutron wheels, the wheels that have swept away all competitors thanks to their extraordinary lateral and torsional stiffness, supreme acceleration and comfort even in the longest races.

The objective of the project was to design an incredibly efficient wheel that would transform into acceleration and speed the highest possible percentage of the rider's energy, to design a wheel that would be ideal for the hardest climbs, the longest rides and for routes where continuous acceleration was required.

It must be emphasized that, unlike most wheels on the market, which are assembled from a variety of generic components, the Hyperon wheel is the result of a fully integrated project where every component is designed and developed together with the others. The hubs for Hyperon wheels, with their extraordinary bodies in curved carbon fiber of variable thickness, are at the technological forefront of composite materials applied to racing bike components; they combine ultra-light carbon-fiber bodies with the internal engineering of Record hubs to ensure very low weight and an even longer life span thanks to carbon's extraordinary resistance to fatigue.



The technical content and performance of the composite rims are also unprecedented: the low-profile design of these rims minimizes inertia resistance and guarantees comfort during long races; the cross-section is also differential so that the front rim is symmetrical whilst the rear one is asymmetrical to improve lateral stiffness and thus the transmission of rider power.

HYPERON

The very low weight of these rims ensures supreme acceleration on sprints and climbs both for the most powerful riders and the most demanding enthusiasts, sprint after sprint, climb after climb. The Hyperon wheel's special braking surface in composite material requires special brake pads, which Campagnolo has designed and developed to ensure that the wheel's exceptional accelerating performance is accompanied by adequate braking quality and safety.

The spoke system is also top-of-the-range: Hyperon wheels are fitted with 'aero' black stainless steel spokes that have a differential cross-section that varies according to specific load. They are fitted to the rim by means of the special Campagnolo system of self-locking nuts and plates with spherical coupling that ensure that the spokes can work without torsion.



MEDIUM-PROFILE WHEELS

Campagnolo's medium profile wheels are halfway between the low-profile and high-profile wheels and combine the best of each category. The wheels have a 30-mm rim and a special spoke system, they are light and quick in acceleration, but at the same time they are aerodynamic and therefore fast.

The ingenious G3 spoking can be immediately recognized by the way the spokes are grouped in threes, which provides a lot of advantages over traditional systems:

- better lateral stiffness, thanks to the redoubling of the spokes on the side where the wheel dish is more severe,
- better transfer of pedal power, again because the spokes on the right-hand side that transfer the torque have been doubled,
- reduced maximum spoke tension with consequent lightening of the spokes and of the rim sections,
- better general balance of tension makes for better balanced wheels.

A new generation of wheels to meet all the needs of both climbers and sprinters.



SCIROCCO

SCIROCCO

The Scirocco wheel was created to offer a larger number of enthusiasts the performance of the G3 spoke system used for Campagnolo's medium-profile wheels.

Scirocco wheels are exceptionally good value for money because they provide all the technical benefits of top-of-the-range wheels at a slightly higher but still competitive weight.

These wheels are ideal for both racing and daily training with very 'racing' black-satin finishing on the rims, hubs and spokes.

ZONDA

Zonda wheels have G3 spokes on the rear wheel, G4 spokes on the front wheel and oversize extra-light hubs.

They are certainly very fast wheels but at the same time they are very light and comfortable; at 1660g the pair, they have few competitors. Whilst the G3 system makes Zonda wheels responsive sprinters, the 30-mm rims make them fast without weighing them down. One feature that should be emphasized is the class of the hubs. They were introduced on the Record groupset and remain a benchmark for quality, lightness, smoothness and easy maintenance.

**ZONDA**

These hubs have oversize bodies and axles in light alloy, just like the freewheel body, and they have standard Record class inner componentry. These extraordinary hubs combine exceptional performance with very low weight and can be adjusted with extreme precision even with the wheel mounted on the bicycle, in racing trim.

EURUS



EURUS

At the top end of the new generation of medium-profile wheels, characterized by the G3 spoke system and the 30-mm rims, there are the EURUS wheels, which are a top-class product, aerodynamic yet very light.

The rims lightened by a special machining, the spokes with variable cross-section in the G3 configuration and the Record class HPW hubs combine to create a pair of wheels weighing little more than 1500 grams that have the speed of high-profile wheels and the weight and comfort that are typical of low-profile wheels.



EURUS

The rear wheel provides record-breaking torsional and lateral stiffness thanks to the G3 system, which doubles right-side spokes, reduces spoke tension and gives an even lighter rim section.

The front wheel combines the new HPW hub with radial spoke lacing and a lightweight profile. A product for top-flight competitions that not only provides the outstanding performance that people have come to expect but also stands out through design creativity, engineering sophistication and unique styling.



HIGH-PROFILE WHEELS

This is a class of wheel that has revolutionized a decade with the Shamal and its many different imitations. These wheels have been created for speed, when all other features are of secondary importance. For race conditions where speed is everything, be them time-trials or triathlon events, maximum speed is achieved by reducing the aerodynamic resistance of the rims and spokes and by optimizing the transfer of power; in fact, if lateral and torsional stiffness are neglected, an aerodynamic wheel is obtained which is not actually fast.

BORA

Bora is the ideal wheel for riders whose strength is speed. This is the fastest wheel in the range, the very best high profile wheel thanks to its rim in structural carbon fiber and reduced spoking (14 on the front, 16 on the rear). In great demand among all professional riders, Bora is the true "time-trial" wheel!

GHIBLI

The greatest aerodynamic performance (side wind permitting) is achieved by disc wheels and Ghibli disc wheels definitely take pride of place, thanks to their exceptional lightness combined with extreme stiffness. Ghibli wheels have a tenso-structure which instead of spokes utilizes a special fiber (borrowed from the aerospace industry) which is pre-tensioned in the manufacturing stage to ensure exceptionally efficient pedal-power transmission despite its exceptional lightness.

Ghibli road wheels use the famous ultra-light oversize Record-class hubs, which keep weight to a minimum and ensure unprecedented performance and easy maintenance. For both indoor races and road time-trials, riders seeking maximum speed can only choose Ghibli wheels - as the list of victories clearly goes to show.



BORA / GHIBLI

PISTA

PISTA

PISTA wheels are an evolution of the Shamal range, with a higher number of spokes and high-profile rims. In the best tradition of Campagnolo products for indoor racing competitions, they are renowned as highly efficient in converting the rider's energy output into pure speed. 38 mm "aero" rim, "aero" spokes and Pista hubs with black finish are the main features of these wheels.



CAMPAGNOLO 2003 SUMMER



MAN MODEL



WOMAN MODEL



- 1 Three different layers construction.
- 2 Concave lower end for more freedom of movement and air ventilation.
- 3 No central seam.
- 4 Made with high frequency technology.
- 5 Permanent hygienic treatment.
- 6 External microfiber with excellent moisture vapour transportation.

TEXTRAN®

TEXTRAN® is produced with state of the art technology for transpiring textile. The result is a double stretch waterproof and windproof material. This innovative material is available in two different versions:

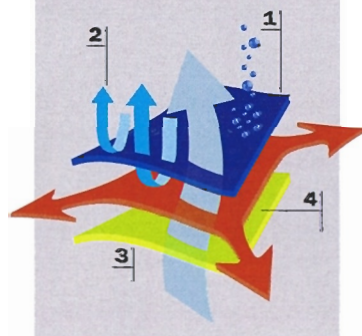
- Light TEXTRAN® for summer garments;
- Thermo TEXTRAN® for winter garments.



TEXTRAN® is a registered trademark by Campagnolo Cycling Apparel.

TEXTRAN®

1. Waterproof.
2. Windproof.
3. Transpiring.
4. Double Stretch (Single Stretch for jackets and vests).



C084 M.S. System X-S Socks

Socks made in permanent antimicrobial silver fabric. Front mesh.



C080 Metal Color Thermo Txn Leather Glove

Glove made in Thermo Textran breathable and windproof material. Washable and breathable leather on palm.



C045 Metal Thermo Txn Gloves

Winter gloves made in Thermo Textran windproof fabric. Side reflective insert. Additional protection on index and middle fingers. High absorption foam on palm. Adjustable closure with velcro.



C089 Metal Thermo Txn Racing Glove

Glove made in Thermo Textran breathable and windproof material. Silicon gripper on palm.



ACCESSORIES

AUTUMN WINTER

C086 Metal Light Txn Armwarmer

Armwarmer made in breathable and windproof Light Textran fabric.



C087 Metal Light Txn Legwarmer

Legwarmer made in breathable windproof Light Textran fabric. Zip closure.



C034 Metal Light Txn Rain Overshoes

Overshoes made in Thermo Textran water and wind proof fabric. Front taped seam. Back reflective piping.



METAL COLOR

AUTUMN WINTER



C056 Metal Color Thermo Txn Jacket

Jacket made in ThermoTextran wind proof fabric, breathable and stretching. Neck trimmer with coulisse. Cuff zipper and cellular phone pocket on left arm.



C058 Metal Color Reflective Light Txn Bib

Bib pant made in Light. Textran fabric, 6 panels fit. Anatomical seat pad Project One with 3 different thicknesses and thermoregulating foam. Stretching and reflective back panel. Ankle closure with zip.



C057 Metal Color X-S Long Sleeve Jersey

Long Sleeve jersey made in silver fiber. Permanent antimicrobial silver fabric. Triple back pocket with waterproof bag.



C059 Metal Color Thermo 2P Bib

Bib pant made in Thermo Polypropilene fabric, 6 panels fit. Anatomical seat pad Project One with 3 different thicknesses. Permanent antimicrobial silver fabric. Ankle closure with zip.



METAL

AUTUMN WINTER

C040 Metal Thermo Txn jacket

Jacket made in windproof Thermo Textran fabric, breathable and stretching. Internal flap. Back pocket with reflective insert. Stretching and reflective piping.



C042 Metal Thermo Txn Bib pant

Bib pant made in Thermo Textran fabric, 8 panels fit. Anatomical seat pad Project One with 3 different thicknesses. Reflective insert on the ankles. Stretching and reflective piping.

C039 Metal Thermo light long sleeve shirt

Long sleeves shirt. Personalized zipper. Back internal pocket.



C043 Metal Light Txn bib pant

Bib pant made in Light Textran fabric, 6 panels fit. Anatomical seat pad Project One with 3 different thicknesses. Stretching and reflective piping.

ACCESSORIES

SPRING SUMMER

C012 Metal C.Tp Head Band

Head Band with thermo regulation.



C011 Metal C.Tp Glove

Glove with thermo regulation.
High frequency reinforcement.



C015 Logo Glove

Gloves with logo.
Absorbing side sponge.
Grip + side protection.



C035 M.S. System Thermo Socks

Thermal socks.
Adjust and maintain the temperature.
Front mesh.



C036 M.S. System Light Socks

Socks made in special cotton fabric.
Fast wicking of sweat towards the outside, keeps the body dry.
Front mesh.

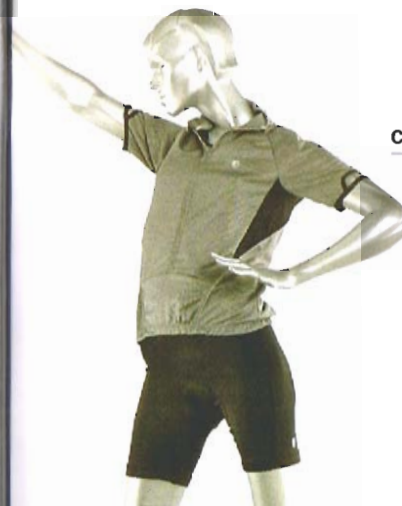


WOMAN

SPRING SUMMER

C062 Lady Metal Jersey

Jersey with instantaneous moisture evaporation.
Side mesh.
Stretching and reflecting piping.



C066 Lady Metal Pant

Short with internal coulisse and pocket.
Stretching and reflecting piping.
Anatomical pad Project One with three layers and thermoregulating foam.



C063 Lady Metal Sleeveless

Jersey with instantaneous moisture evaporation.
Back mesh.
Stretching and reflecting piping.



C064 Lady Metal Top

Top lined inside with double stretch mesh.
Adjustable suspenders

METAL COLOR

SPRING SUMMER



C053 Metal Color jersey

Jersey with instantaneous moisture evaporation. Side mesh. Stretching and reflecting piping.

C010 Metal reflective Trim Bib Short

Bib with anatomical pad Project One with three layers and thermoregulating foam. Back pocket. Stretching and reflecting piping.

C052 Metal color Full Zip Jersey

Jersey with instantaneous moisture evaporation. Side mesh. Full zip. Reflecting tape on the back pocket.

C054 Metal Color Net Pant

Six panel fit pant. Lower mesh panel. Internal coulisse and pocket.



C051 Metal Color Sleeveless

Jersey with instantaneous moisture evaporation. Side mesh. 3/4 zip. Stretching and reflecting piping.

C008 Metal Racing Shorts

Polypropylene short. Anatomical pad Project One with three layers and thermoregulating foam. Internal pocket. Two panel fit

METAL

SPRING SUMMER



C002 Txn Wind Shield

Vest made in Light Textran wind proof fabric, breathable and stretching. Internal flap. Drawcord sleeve closure with ministopper. Drawcord back pocket closure. Stretching and reflecting piping.

C007 Metal Reflective Trim Shorts

Short with Anatomical pad Project One with three layers and thermoregulating foam. Internal pocket. Stretching and reflecting piping.

C006 Metal Full Zip Jersey

Jersey with instantaneous moisture evaporation. Full zipper with customized pull. Elasticized back pocket. Mesh vented. Stretching and reflecting piping.

C009 Metal racing Bib

Polypropylene bib. Double stretch suspenders. Anatomical pad Project One with three layers and thermoregulating foam. Internal pocket. Two panel fit.



C005 Metal 3/4 Zip Jersey

Jersey with instantaneous moisture evaporation. 3/4 zipper with customized pull. Two side pockets. Double back pocket with elastic. Mesh vented. Stretching and reflecting piping.

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Bloomington - U.S.A.
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2003 RANGE

RECORD 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
RECORD 10s rear der. short cage		min. sprocket 11 - max. sprocket 26 - cap. 27 - max. front diff. 14 - composite outer plate - lightened inner plate - Titanium hanger and pivot bolt - lightened upper body - upper to lower pulley-axle 55 mm	187
RECORD 10s rear der. medium cage		min. sprocket 12 - max. sprocket 29 - cap. 36 - max. front diff. 23 - composite outer plate - lightened inner plate - Titanium hanger and pivot bolt - lightened upper body - upper to lower pulley-axle 72 mm	193
RECORD 10s rear der. - long cage		min. sprocket 13 - pign. max 29 - cap. 39 - max. front diff. 23 - composite outer plate - lightened inner plate - Titanium hanger and pivot bolt - lightened upper body - upper to lower pulley-axle 89 mm	205
RECORD braze-on front derailleur		9s/10s - for double crankset - capacity 15 - max. chainring 54 - adjustable spring lightened fork - antifriction insert	91
RECORD clip-on front derailleur	Ø 28.6, 32, 35 mm	9s/10s - for double crankset - capacity 15 - max. chainring 54 - adjustable spring lightened fork - antifriction insert	104
RECORD Triple braze-on front derailleur		9s/10s - for triple crankset - capacity 23 - max. chainring 53	106
RECORD Triple clip-on front derailleur	Ø 32, 35 mm	9s/10s - for triple crankset - capacity 23 - max. chainring 53	113
RECORD 10s Ergopower		double/triple crankset compatible - composite body and levers - ball bearings light alloy hardware - ErgoBrain 10 computer ready	342
RECORD front hub	28, 32, 36 holes	light alloy axle and body - adjustable bearings - lubrication port quick-release with aluminium lock nuts - O.L.D. 100 mm	181
RECORD rear hub	28, 32, 36 holes	9s/10s - light alloy body, axle and freewheel body - Titanium pawl - adjustable bearings - lubrication port - quick-release with aluminium lock nuts - locking thread 27x1 - O.L.D. 130 mm	316
RECORD UD 10s sprockets - steel+ti	11-21, 11-23, 12-25, 13-26, 13-29	Ultra-Drive - nickel-chromed finish for steel sprockets - light alloy carrier supplied without locking	188

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
RECORD UD 10s sprockets - titanium	11-23, 12-25, 13-26	Ultra-Drive - light alloy carrier - supplied without locking	156
titanium locking		thread 27x1 - not for Z. 11	10
RECORD C10 HD-L chain		10s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE Finish - 114 links - HD-Link	279
RECORD 10s crankset	170, 172.5, 175, 177.5, 180, 39-52, 39-53, 42-52	light alloy fixing bolts and nuts - 4-pointed crankspider - Ultra-Drive chainrings requires b.b. with 102 mm axle	632
RECORD CARBON 10s crankset	170, 172.5, 175 mm, 39-52, 39-53, 42-52	composite/light alloy crankarms - light alloy fixing bolts and nuts - 4-pointed crankspider - Ultra-Drive chainrings - requires b.b. with 102 mm axle	500
RECORD Triple 10s crankset	170, 172.5, 175 mm, 30-40-50, 30-42-53	light alloy fixing bolts and nuts - 4-pointed crankspider - Ultra-Drive chainrings requires b.b. with 111 mm axle (asymmetrical)	715
RECORD bottom bracket	ITA, ENG	oversize hollow axle L. 102 mm - only for double crankset - composite/light alloy cartridge	190
RECORD Triple bottom bracket	ITA, ENG	oversize steel hollow axle L. 111 mm (asymmetrical) - light alloy cups - only for Record Triple crankset - composite and light alloy cartridge	198
RECORD Pro-Fit PLUS pedals		Titanium axle - light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain magnet	266
RECORD-D brakes		brake-pad height adjustment ratio: 40-50 mm (measured from brake fixing-bolt to brake-shoe-nut) - ball bearings - light alloy and titanium hardware - brake pads orbital adjustment - lightened rear brake	308

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

RECORD 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
RECORD Ø 27.2 mm seat post	L 250, 350 mm	composite tube - clamp for seat tube Ø 31.6 - 31.9 mm	180
RECORD Ø 32.4 mm seat post		L. 250 mm - composite tube - clamp for seat tube Ø 35.5 - 35.8 mm	208
RECORD headset		BC 1"x24tpi - height 36.5 mm - lubrication port	104
RECORD THREADLESS headset	1", 1-1/8"	for unthreaded fork tube - height 24.5 mm - composite cover and light alloy fixing screw - lubrication port	110
RECORD HIDDENSET headset	1-1/8", 1-1/8" TTC	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm, version 1-1/8" TTC: height 15.9 mm - patent pending system - composite and light alloy fixing screw and cap	73
RECORD HIDDENSET headset		internal headset for unthreaded fork tube Ø 1" - height 5.9 mm - patent pending system composite and light alloy fixing screw - aluminium cap	75
RECORD brake levers		composite body and lever	210
Bar-end 10s shift. levers			163
RECORD cable guide plate		to fit under bottom bracket shell - stainless steel with QPQ antifriction treatment	9

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

CHORUS 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
CHORUS 10s rear der.		min. sprocket 11 - max. sprocket 26 - cap. 27 - max. front diff. 14 - lightened upper body	209
CHORUS 10s rear der. medium cage		min. sprocket 12 - max. sprocket 29 - cap. 36 - max. front diff. 14 - lightened upper body	215
CHORUS 10s rear der. long cage		min. sprocket 13 - max. sprocket 29 - cap. 39 - max. front diff. 23 - lightened upper body	227
CHORUS braze-on front derailleur		9s/10s - for double crankset - capacity 15 - max. chainring 54 lightened fork - antifriction insert	89
CHORUS clip-on front derailleur	Ø 32, 35 mm	9s/10s - for double crankset - capacity 15 - max. chainring 54 lightened fork - antifriction insert	102
RECORD Triple braze-on front der.		10s - for triple crankset - capacity 23 - max. chainring 53	106
RECORD Triple clip-on front der.	Ø 32, 35 mm	10s - for triple crankset - capacity 23 - max. chainring 53	113
CHORUS 10s Ergopower		double/triple crankset compatible - composite body - anodized lever - ball bearings - light alloy hardware - ErgoBrain 10 computer ready	365
CHORUS front hub	32, 36 holes	light alloy axle and body - adjustable bearings - quick-release with aluminium lock nuts - O.L.D. 100 mm	180
CHORUS rear hub	32, 36 holes	9s/10s - light alloy body, axle and freewheel body - adjustable bearings - quick-release with aluminium lock nuts - locking thread 27x1 - O.L.D. 130 mm	326
CHORUS UD 10s sprockets - steel	11-23, 12-25, 13-26, 13-29	Ultra-Drive - nickel-chromed finish - light alloy carrier - supplied without locking	220
RECORD C10 HD-L chain		10s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links - HD-Link	279
CHORUS 10s crankset	170, 172.5, 175 mm 39-52, 39-53, 42-52	Ultra-Drive chainrings - requires b.b. with L. 102 mm axle	667
RECORD 10s Triple crankset	170, 172.5, 175 mm 30-40-50, 30-42-53	light alloy fixing bolts and nuts - 4-pointed cranks spider - Ultra-Drive chainrings requires b.b. with L. 111 mm (asymmetrical)	715

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
CHORUS bottom bracket	ITA, ENG	hollow axle L. 102 mm - only for double crankset - light alloy cartridge - light alloy cups	220
CHORUS Triple bottom bracket	ITA, ENG	axle L. 111 mm (asymmetrical) - for Record Triple crankset light alloy cartridge - light alloy cups	233
CHORUS Pro-Fit PLUS pedals		steel axle - light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain magnet	325
CHORUS-D brakes		brake-pad height adjustment ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut) - brake pads orbital adjustment - lightened rear brake	340
CHORUS Titanium seat post		Ø 27.2 mm - L. 250 mm - titanium tube	195
CHORUS headset		BC 1"x24tpi - height 36.5 mm	106
CHORUS THREADLESS headset		1" - for unthreaded fork tube - height 24.5 mm - patent pending system steel and light alloy fixing screw	117
CHORUS HIDDENSET headset	1-1/8", 1-1/8" TTC	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm, version 1-1/8" TTC: height 15.9 mm - patent pending system - steel and light alloy fixing screw light alloy cap	82
RECORD cab. guide plate		to fit under bottom bracket shell - stainless steel with QPQ antifriction treatment	9

*The Indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

CENTAUR 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
CENTAUR 10s rear der.		min. sprocket 11 - max. sprocket 29 - cap. 30 - max. front diff. 14	223
CENTAUR 10s rear der. medium cage		min. sprocket 11 - max. sprocket 29 - cap. 37 - max. front diff. 14	229
CENTAUR 10s rear der. long cage		min. sprocket 11 - max. sprocket 29 - cap. 40 - max. front diff. 22	241
CENTAUR braze-on front der.		9s/10s - for double crankset - capacity 15 - max. chainring 54 lightened fork - antifriction insert	93
CENTAUR clip-on front der.	Ø 28.6, 32, 35 mm	9s/10s - for double crankset - capacity 15 - max. chainring 54 lightened fork - antifriction insert	106
CENTAUR Triple braze-on front der.		9s/10s - for triple crankset - capacity 22 - max. chainring 52	107
CENTAUR Triple clip-on front der.	Ø 28.6, 32 mm	9s/10s - for triple crankset - capacity 22 - max. chainring 52	114
CENTAUR 10s Ergopower		double/triple crankset compatible - composite body - anodized lever - lightened shifting levers - ErgoBrain 10 computer ready	399
CENTAUR front hub	32, 36 holes	light alloy axle and body - adjustable bearings - O.L.D. 100 mm	126
CENTAUR rear hub	32, 36 holes	9s/10s - light alloy body, axle and freewheel body - adjustable bearings locking thread 27x1 - O.L.D. 130 mm	332
CENTAUR UD 10s sprockets - steel	11-23, 12-25, 13-26, 13-29	Ultra-Drive - nickel-chromed finish - light alloy carrier - "macro" spacers supplied without locking	233
RECORD C10 HD-L chain		10s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links - HD-Link	279
CENTAUR 10s crankset	170, 172.5, 175 mm 39-52, 39-53, 42-52	Ultra-Drive chainrings - requires b.b. with L. 111 mm	646
CENTAUR 10s Triple crankset	170, 175 mm 30-40-50, 30-42-53	Ultra-Drive chainrings - requires b.b. with L. 111 or 115.5 mm (for oversize seat tube Ø 32 or 35mm)	730

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
AC-H bottom bracket	ITA, ENG 111 mm, 115.5 mm	cartridge b.b. - hollow axle - light alloy cups - axle L. 111 mm for double crankset axle L. 111 mm for triple crankset with seat tube Ø 28.6 mm axle L. 115.5 mm for triple crankset with oversize seat tube Ø 32 or 35 mm	288
AC-S bottom bracket	ITA, ENG	cartridge b.b. - solid axle L. 111 mm - light alloy cups - for double crankset - for triple crankset with seat tube Ø 28.6 mm	299
CENTAUR Pro-Fit PLUS pedals		steel axle - light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - metallized finish - left axle compatible with the ErgoBrain magnet	325
CENTAUR brakes		brake-pad height adjustment ratio: 42÷52 mm (measured from brake fixing-bolt to brake-shoe-nut) - brake pads orbital adjustment	376
CENTAUR seat post		Ø 27.2 mm - L. 250 mm - steel tube	230
CENTAUR cab. guide plate		to fit under bottom bracket shell - resin	6

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

VELOCE 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
VELOCE 9s rear der.		min. sprocket 11 - pign. max 29 - cap. 30 - max. front diff. 14	250
VELOCE Triple 9s rear derailleur		min. sprocket 11 - pign. max 29 - cap. 37 - max. front diff. 22	255
VELOCE braze-on front derailleur		for double crankset - capacity 15 - max. chainring 54	93
VELOCE clip-on front derailleur	Ø 28.6, 32 mm	for double crankset - capacity 15 - max. chainring 54	108
CENTAUR Triple braze-on front der.		9s/10s - for triple crankset - capacity 22 - max. chainring 52	107
CENTAUR Triple clip-on front der.	Ø 28.6, 32 mm	9s/10s - for triple crankset - capacity 22 - max. chainring 52	114
VELOCE 9s Ergopower		double/triple crankset compatible - composite body - anodized lever ErgoBrain 10 computer ready	402
VELOCE front hub	32, 36 holes	adjustable bearings - O.L.D. 100 mm	241
VELOCE rear hub	32, 36 holes	9s/10s - light alloy freewheel body - sealed bearings locking thread 27x1 - O.L.D. 130 mm	458
VELOCE UD 9s sprockets - steel	12-23, 13-23, 13-26, 13-28, 14-28	Ultra-Drive - single sprockets - nickel-chromed finish - supplied without locking	231
RECORD C9 UD chain		9s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links	300
VELOCE crankset	170, 172.5, 175 mm 39-53, 42-52	Exa-Drive chainrings - requires b.b. with L. 111 mm	659
VELOCE Triple crankset	170, 175 mm	for triple crankset - 30-42-52 - Exa-Drive chainrings requires b.b. with L. 111 or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	731
AC-S bottom bracket	ITA, ENG	cartridge b.b. - solid axle - light alloy cups - axle L. 111 mm for double crankset, for triple crankset with seat tube Ø 28.6 mm	299
SC-S bottom bracket	ITA, ENG 111, 115.5 mm	cartridge b.b. - solid axle - steel cups - axle L. 111 mm for double crankset axle L. 111 mm for triple crankset with seat tube Ø 28.6 mm axle L. 115.5 mm for triple crankset with oversize seat tube Ø 32 or 35 mm	358

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
CENTAUR Pro-Fit PLUS pedals		steel axle - light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - metallized finish - left axle compatible with the ErgoBrain magnet	325
VELOCE brakes		brake-pad height adjustment ratio: 42÷52 mm (measured from brake fixing-bolt to brake-shoe-nut) - black anodized shoe-holder - brake pads orbital adjustment	368
CENTAUR cable guide plate		to fit under bottom bracket shell - resin	6

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

MIRAGE 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
MIRAGE 9s rear der.		min. sprocket 11 - max. sprocket 29 – cap. 30 – max. front diff. 14 - black chromed plate	269
MIRAGE Triple 9s rear derailleur		min. sprocket 11 - max. sprocket 29 – cap. 37 – max. front diff. 22 - black chromed plate	274
MIRAGE braze-on front derailleur		for double crankset - capacity 15 – max. chainring 54 - black chromed plate	103
MIRAGE clip-on front derailleur	Ø 28.6, 32 mm	for double crankset - capacity 15 – max. chainring 54 - black chromed plate	116
MIRAGE Triple braze-on front der.		for triple crankset - capacity 22 – max. chainring 52 - black chromed plate	118
MIRAGE Triple clip-on front derailleur	Ø 28.6, 32 mm	for triple crankset - capacity 22 – max. chainring 52 - black chromed plate	133
MIRAGE 9s Ergopower		double/triple crankset compatible – composite body and levers ErgoBrain 10 computer ready	406
MIRAGE front hub	32, 36 holes	adjustable bearings - O.L.D. 100 mm	226
MIRAGE rear hub	32, 36 holes	9s/10s - light alloy freewheel body – sealed bearings - locking thread 27x1 O.L.D. 130 mm	447
MIRAGE UD 9s sprockets - steel	12-23, 13-23, 13-26	Ultra-Drive - single sprockets- galvanized - supplied without lockring	231
RECORD UD C9 chain		9s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links	300
MIRAGE crankset	170, 172.5, 175 mm 39-53, 42-52	Exa-Drive – steel inner chainring - requires b.b. with L. 111 mm	713
MIRAGE Triple crankset	170, 175 mm	for triple crankset - 30-42-52 - Exa-Drive - steel inner chainring requires b.b. with L. 111 or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	769

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
SC-S bottom bracket	ITA, ENG 111, 115.5 mm	cartridge b.b. - solid axle - steel cups - axle L. 111 mm for double crankset axle L. 111 mm for triple crankset with seat tube Ø 28.6 mm axle L. 115.5 mm for triple crankset with oversize seat tube Ø 32 or 35 mm	358
CENTAUR Pro-Fit PLUS pedals		steel axle -light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - metallized finish - left axle compatible with the ErgoBrain magnet	325
MIRAGE brakes		brake-pad height adj. ratio: 42÷52 mm (measured from brake fixing-bolt to brake-shoe-nut)	380
CENTAUR cable guide plate		to fit under bottom bracket shell - resin	6

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

XENON 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
XENON 9s rear derailleur		min. sprocket 11 - pign. max 29 - cap. 30 - diff. front. max 14 - black chromed plate composite bodies	232
XENON Triple 9s rear derailleur		min. sprocket 11 - pign. max 29 - cap. 37 - diff. front. max 22 - black chromed plate composite bodies	237
XENON braze-on front derailleur		for double crankset - capacity 15 - ingr. max 54 - black finish	103
XENON Ø 32 mm clip-on front der.		for double crankset - capacity 15 - ingr. max 54 - black finish	116
XENON Triple braze-on front der.		for triple crankset - capacity 22 - ingr. max 52 - black finish	118
XENON Triple Ø 32 mm clip-on front derailleur		for triple crankset - capacity 22 - ingr. max 52 - black finish	133
XENON Ergopower		double/triple crankset compatible - composite body and levers	357
XENON front hub	32, 36 holes	adjustable bearings - O.L.D. 100 mm	226
MIRAGE rear hub	32, 36 holes	9s/10s - light alloy freewheel body - sealed bearings locking thread 27x1 - O.L.D. 130 mm	447
MIRAGE UD 9s sprockets - steel	12-23, 13-23, 13-26	Ultra-Drive - single sprockets - galvanized - supplied without locking	231
RECORD UD C9 chain		9s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links	300
XENON crankset	170, 175 mm	Exa-Drive chainrings - 39-52 - requires b.b. with L. 111 mm	793
XENON Triple crankset	170, 175 mm	for triple crankset - 30-42-52 - Exa-Drive chainrings requires b.b. with L. 111 or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	953
SC-S bottom bracket	ITA, ENG 111, 115.5 mm	cartridge b.b. - solid axle - steel cups - axle L. 111 mm for double crankset axle L. 111 mm for triple crankset with seat tube Ø 28.6 mm axle L. 115.5 mm for triple crankset with oversize seat tube Ø 32 or 35 mm	358
XENON brakes		brake-pad height adj. ratio: 42÷52 mm (measured from brake fixing-bolt to brake-shoe-nut)	380
CENTAUR cab. guide plate		to fit under bottom bracket shell - resin	6

RECORD PISTA 2003

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
RECORD PISTA front hub	32, 36 holes	light alloy body - lubrication port - small flanges - O.L.D. 100 mm	204
RECORD PISTA rear hub	32, 36 holes	light alloy body - lubrication port - small flanges - O.L.D. 120 mm	284
RECORD PISTA crankset	165, 170 mm 46, 47, 48, 49, 50, 51, 52	requires b.b. L. 111 mm (asymmetrical)	592
RECORD PISTA bottom bracket	ITA, ENG	axle L. 111 mm (asymmetrical) - composite and light alloy cartridge light alloy cups - without sealings	220
RECORD Pro-Fit PLUS pedals		Titanium axle - light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain magnet	266
RECORD Ø 27.2 mm seat post	L. 250, 350 mm	composite tube - clamp for seat tube Ø 31.6 - 31.9 mm	180
RECORD Ø 32.4 mm seat post		L.250 - composite tube - clamp for seat tube Ø 35.5 - 35.8 mm	208
RECORD headset		BC 1"x24tpi - height 36.5 mm - lubrication port	104
RECORD THREADLESS headset	1", 1-1/8"	for unthreaded fork tube - height 24.5 mm - composite cover and light alloy fixing screw - lubrication port	110
RECORD HIDDENSET headset	1-1/8" 1-1/8" TTC	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm, version 1-1/8" TTC: height 15.9 mm - patent pending system - composite cover and light alloy fixing screw - composite/light alloy cap	73
RECORD HIDDENSET headset		internal headset for unthreaded fork tube Ø 1" - height 5.9 mm - patent pending system - composite/light alloy fixing screw - aluminium cap	75

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

TRIATHLON / VARIOUS

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
bar-end 10s shift. levers			163
RECORD brake levers		composite body and lever	210
inner chainrings	42, 44	Exa-Drive system	51
RECORD 10s outer chainrings	54, 55	Exa-Drive system	88
CHORUS 10s outer chainrings	54, 55	Exa-Drive system	88
RECORD ED 8s sprockets - steel	12-23, 13-23, 13-26	Exa-Drive - single sprockets- chromed - supplied without locking	262
sprockets for GHIBLI 9s	11-19, 11-21	steel-titanium - for Ghibli with O.L.D. 132 mm - 9s (10s spacing)	165
titanium locking		thread 27x1 - not for Z. 11	10

RECORD/CHORUS/CENTAUR 9S

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
RECORD 9s rear derailleur		min. sprocket 11 - max. sprocket 26 - cap. 27 - max. front diff. 14 - composite outer plate - lightened inner plate - Titanium hanger and pivot bolt - lightened upper body	190
CHORUS 9s rear der.		min. sprocket 11 - max. sprocket 26 - cap. 27 - max. front diff. 14 - lightened upper body	211
Racing T 9s rear der.		min. sprocket 11 - max. sprocket 29 - cap. 35 - max. front diff. 22 - lightened upper body	214
CENTAUR 9s rear der.		min. sprocket 11 - pign. max 29 - cap. 30 - max. front diff. 14	223

*The indicative weight refers to the lighter specification among the available options. The weight of the hubs includes the quick-release.

COMPONENT	OPTION	DESCRIPTION	Indicative weight* (g)
CENTAUR Triple 9s rear der.		min. sprocket 11 - pign. max 29 - cap. 37 - max. front diff. 22	229
Racing T braze-on front derailleur		9s - for triple crankset - capacity 22 - max. chainring 52	107
Racing T clip-on front derailleur	Ø 28.6, 32, 35 mm	9s - for triple crankset - capacity 22 - max. chainring 52	114
RECORD 9s Ergopower		double/triple crankset compatible - composite body and levers - ball bearings - light alloy hardware - ErgoBrain 10 computer ready	342
CHORUS 9s Ergopower		double/triple crankset compatible - composite body - anodized lever - ball bearings - light alloy hardware - ErgoBrain 10 computer ready	365
CENTAUR 9s Ergopower		double/triple crankset compatible - composite body - anodized lever - lightened shifting levers - ErgoBrain 10 computer ready	399
RECORD 9s crankset	170, 172.5, 175 mm 39-52, 39-53, 42-52	light alloy fixing bolts and nuts - 4-pointed crankspider - Exa-Drive chainrings - requires b.b. with L. 102 mm	632
CHORUS 9s crankset	170, 172.5, 175 mm 39-52, 39-53, 42-52	Exa-Drive chainrings - requires b.b. with L. 102 mm	667
Racing T 9s crankset	170, 175 mm 30-40-50, 30-42-52	for triple crankset (9s) - Exa-Drive chainrings - requires b.b. with L. 111 mm or 115.5 (for oversize seat tube Ø 32 or 35 mm)	735
CENTAUR 9s crankset	170, 172.5, 175 mm 39-52, 39-53, 42-52	Exa-Drive chainrings - requires b.b. with L. 111 mm	646
CENTAUR Triple 9s crankset	170, 175 mm 30-40-50, 30-42-52	Exa-Drive chainrings - requires b.b. with L. 111 or 115.5 mm (for oversize seat tube Ø 32 or 35mm)	735
RECORD UD 9s spr. steel + titanium	12-23, 13-23, 13-26	Ultra-Drive - nickel-chromed finish for steel sprockets - light alloy carrier - supplied without locking	191
CHORUS UD 9s sprockets - steel	12-23, 13-26	Ultra-Drive - nickel-chromed - light alloy carrier - supplied without locking	197
RECORD UD C9 chain		9s - Ultra-Drive - "Floating Link Action" - Chrome-Nickel-PTFE finish - 114 links	300

2003 COMPETITION WHEELS

- = yes
- * = with special sprockets adapter kit
- h = hub only
- RE = Record
- CE = Centaur
- VE = Veloce

	nominal weight (g)*	carbon rim	aluminum rim	aluminum braking surface	machined braking surface	"OS" section	"AERO" section	"POLYGONAL" section	disc wheel	front/rear differential rims	asymmetrical rear rims	nominal width (mm)	● HPW / ● HPW carbon hub	hub with flanges	titanium pawl carrier		steel pawl carrier	"OS" hub body	"OS" light alloy spindle	light alloy fw body	quick lubrication port	QR type	10s compatible	9s compatible	8s compatible	requires special sprockets	O.L.D. (mm)	"G3" system	Ultralinear geometry	number of spokes	double butted spokes	"AERO" type spokes	L/R differential spokes	black spokes	spherical coupling sl nuts	nipples	black satin anodized
BORA front tub. 28"	725	●		●			●					19	●					●	●		●	RE			*		100			14	●	●				●	m
BORA rear tub. 28"	905	●		●			●					19	●		●		●	●	●	●	●	RE	●	●	*		130			16	●	●	●			●	m
EURUS front clincher 28"	695		●	●	●	●						20	●				●	●	●	●	●	RE			*		100		●	16	●	●		●	●	●	
EURUS rear clincher 28"	865		●	●	●	●						20	●		●		●	●	●	●	●	RE	●	●	*		130	●	●	21	●	●		●	●	●	●
GIBLI rear road 28"	995		●	●					●			19		●	●			●	●	●		RE	*	*	*	●	132										
GIBLI front track 26"	860		●						●			19		●													100										
GIBLI front track 28"	955		●						●			19		●													100										
GIBLI rear track 28"	995		●						●			19		●													120										
HYPERON front tub. 28"	525	●						●		●		20	●●				●	●	●		●	RE			*		100	●	●	22	●	●		●	●		m
HYPERON rear tub. 28"	715	●						●		●	●	20	●●		●		●	●	●		●	RE	●	●	*		130		●	24	●	●	●	●	●		m
NEUTRON front clincher 28"	670		●	●	●			●		●		20	●				●	●	●	●	●	RE			*		100		●	22	●	●		●	●	●	●
NEUTRON rear clincher 28"	910		●	●	●			●		●	●	20	●		●		●	●	●	●	●	RE	●	●	*		130		●	24	●	●	●	●	●	●	●
NEUTRON front tub. 28"	645		●	●	●			●		●		20	●				●	●	●	●	●	RE			*		100		●	22	●	●		●	●		●
NEUTRON rear tub. 28"	895		●	●	●			●		●	●	20	●		●		●	●	●	●	●	RE	●	●	*		130		●	24	●	●	●	●	●	●	●
"PISTA" front tub. 28"	995		●	●			●					20		●						●							100			20		●			●		●
"PISTA" rear tub. 28"	1110		●	●			●					20		●						●							120			24		●		●		●	●
PROTON front clincher 28"	680		●	●	●			●		●		20		●			●	●	●		●	CE			*		100			22	●			●		●	●
PROTON rear clincher 28"	960		●	●	●			●		●	●	20	●	●			●	●	●	●	●	CE	●	●	*		130			24	●		●	●	●	●	●
SCIROCCO front clincher 28"	790		●	●	●	●						20		●			●	●	●		●	VE			*		100	●		24	●			●		●	●
SCIROCCO rear clincher 28"	1040		●	●	●	●						20	●	●			●	●	●	●	●	VE	●	●	*		130	●		24	●			●		●	●
ZONDA front clincher 28"	740		●	●	●	●						20		●			●	●	●		●	CE			*		100	●		18	●	●		●		●	●
ZONDA rear clincher 28"	920		●	●	●	●						20	●	●			●	●	●	●	●	CE	●	●	*		130	●		21	●	●		●		●	●

*The weight of the wheels does not include the quick release.

1. OBJECT

Campagnolo S.r.l., Via della Chimica 4, 36100 Vicenza, Italy (hereinafter "Campagnolo"), guarantees its products to be free from defects in materials or workmanship within the terms and conditions of this Limited Warranty. A product found by Campagnolo to be defective will be repaired or replaced, at the option of Campagnolo, free of charge, within thirty (30) days after receipt of the product by an authorized Campagnolo Service Center.

Please note that in addition to this policy you may have specific legal rights granted by your national or state laws regarding warranties of consumer products.

2. NOT COVERED

This warranty does not cover products which reached the end of their normal lifespan, does not cover damage resulting from accidents, alteration, neglect, misuse or abuse, lack of reasonable or proper maintenance, corrosion, improper assembly, repairs improperly performed or replacement parts improperly installed, use of replacement parts or accessories not conforming to Campagnolo's specifications, use of component parts not manufactured or supplied by Campagnolo, modifications not recommended or approved in writing by Campagnolo, normal wear and deterioration occasioned by the use of the product, activities such as acrobatics, competitive use or commercial use. This warranty also does not cover cosmetic imperfections in the surface, finish, or appearance of the product which were apparent or discoverable at the time of purchase of the product or damage occurring during shipment or transport of the product. This warranty also does not cover tools, lubricants, brake pads, and other consumables or any expenses related to the transportation of the product to or from an authorized Campagnolo Service Center, labor costs to remove the product from the bicycle, or compensation for inconvenience or loss of use while the product is being repaired or replaced.

3. PURCHASER

This warranty is made only with the original purchaser of the product and does not extend to any third parties. The rights of the Purchaser under this warranty may not be assigned.

4. TERM

The term of this warranty shall commence on the date of retail purchase and shall continue for a period of two (2) or three (3) years, depending on the product (see the applicable term in the product's package).

5. ENTIRE AGREEMENT

This warranty supersedes any and all oral, express or written warranties, statements or undertakings that may previously have been made, and contains the entire Agreement of the parties with respect to the warranty of the product. Any and all warranties not contained in this Agreement are specifically excluded.

6. DAMAGES

Except as expressly provided by this warranty, Campagnolo SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ASSOCIATED WITH THE USE OF THE PRODUCT OR A CLAIM UNDER THIS AGREEMENT, WHETHER THE CLAIM IS BASED ON CONTRACT, TORT OR OTHERWISE. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

7. DISCLAIMER

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, IS HEREBY STRICTLY LIMITED TO THE TERM OF THIS WRITTEN WARRANTY. This agreement shall be the sole and exclusive remedy available to the Purchaser with respect to the purchase. In the event of any alleged breach of any warranty or any legal action brought by the purchaser based on alleged negligence or other tortuous conduct by Campagnolo, the Purchaser's sole and exclusive remedy will be repair or replacement of defective materials as stated above. No dealer and no other agent or employee of Campagnolo is authorized to modify, extend or enlarge this warranty. The performance of any warranty service under this Agreement is not an admission or agreement that the design or manufacture of a product is defective.

8. PROCEDURE

In the event of a defect covered by this warranty, the purchaser should contact an authorized Campagnolo Service Center (authorized Service Centers are listed in this catalog and in our web-site: www.campagnolo.com) or :

Campagnolo S.r.l., Service Center, Via Della Chimica 4, 36100 Vicenza, Italy, Telephone: +39-0-444-225604/5; Fax: +39-0-444-225400.

To be honored, claims must be submitted within the two or three years warranty period (depending on the product) and within eight (8) days of discovery of the defect. The determination whether the defect is covered by this warranty is within the sole discretion of Campagnolo.

Campagnolo reserves the right to discontinue products and to change specifications for existing products at any time without notice and shall not be obligated to incorporate new features into products previously sold, even if those products are returned under a warranty claim. Campagnolo may replace defective parts with similar parts of similar quality in the event that identical parts are unavailable. The purchaser must obtain advance authorization in writing before returning any product to a Campagnolo Service Center for warranty inspection. A return authorization number will be issued and must conspicuously appear on the outside of the product's packaging. The issuance of an authorization number does not constitute acceptance of the claim, which will be evaluated by the Service Center upon its inspection of the product.

The product should be cleaned and securely packed to prevent damage during shipment and must be accompanied by a letter specifying or including the following items of information:

- a) dated receipt or other proof of date of retail purchase;
- b) a copy of the warranty;
- c) Campagnolo part number;
- d) detailed description of the problem experienced with the product, including a chronology of efforts made to correct the problem;
- e) identification of the components used in conjunction with the product;
- f) estimate of product usage: (i.e. accumulated mileage or time in service);
- g) your name, address, and written authorization to ship the repaired product back to you freight collect ("C.O.D.").

9. APPLICABLE LAW

Any disputes arising out of this Agreement or the use of this product will be governed by the laws of the country of Italy and will be decided by the Courts of Vicenza, Italy.

10. WARNING

Always install, repair and use your product in strict compliance with the product's instructions, which are also available as a downloadable file from our web site: www.campagnolo.com.

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