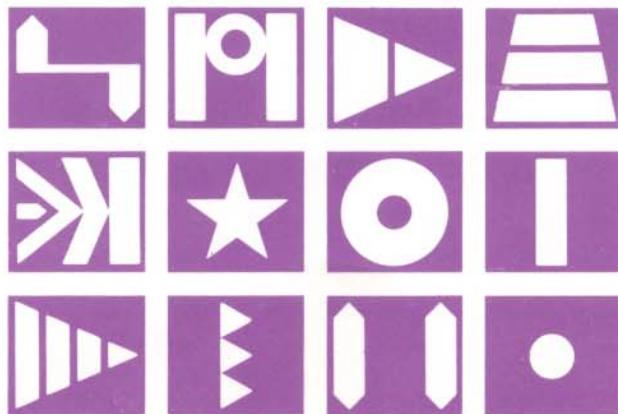


Campagnolo[®]



CENTAUR[®]



CENTAUR®





The Bicycle has always provided a means for competition as well as a means of transportation.

In more recent times "All Terrain Bikes" have opened new horizons for man's inborn desire to compete.

You may now find cyclists engaged in breath taking descents on the same steep slopes used for Downhill Ski racing, climbing up scarcely accessible mule tracks or racing on trails covered with natural obstacles. These are all new ways of competing which require particular skills associated with the "All Terrain Bike".

The Centaur group has been designed with these bicycles in mind. It is a professional group particularly suited for competition with highly specialized technical features and the unquestionable



reliability typical of all Campagnolo products.

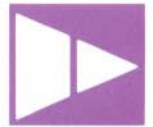
REAR DERAILLEUR

A new finishing treatment gives the derailleur a refined, pleasant appearance which compliments the highly functional inclined parallelogram design.

The technical features of precision, practicality and reliability are the results of more than fifty years of careful research and testing on competition derailleurs.

The precision can be seen in the gentle shifting of the chain thanks to the geometry of the cage plate movement. Its path enables the rollers to be constantly in line with the sprockets, eliminating friction and troublesome noise.

The rollers are mounted on bear-



ings which allow them to run smoothly even under the most demanding conditions.

The adjustment screws are located on the outer arm making them easily accessible. They are held in place by springs which exert enough pressure to ensure that their adjustment is maintained no matter what the conditions may be.

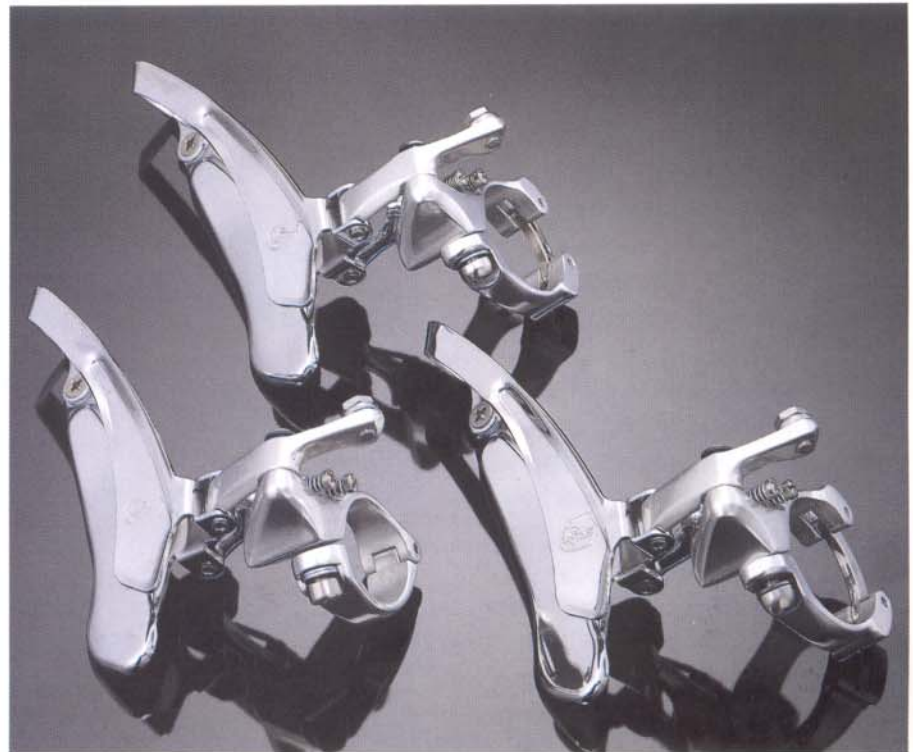
The rear derailleur contains three springs: the two traditional springs for the arm movement and for the cage plate return, and a third spring insert into the upper body (around the pivot bolt). Thanks to this third spring, the angle of inclination of the derailleur with respect to the dropout may be varied. The preloading of this spring may be adjusted by means of a tempered steel pin that acts against the hanger. The less the spring is preloaded (counterclockwise adjustment) the more the chain is wrapped around the freewheel, resulting in more precise shifting.

Another extremely useful feature is the adjustability of the cage-plate return spring which will allow variable adjustment of the chain tension.

The derailleur is available in three versions: Long cage plate (LG), medium cage plate (MD), and a short cage plate (SM). The choice of which one is right for you should be determined by the combination of freewheel and chainwheel, and also by the degree of professionalism needed for competition.

All three models have contoured and reinforced cage plates with chain protecting wings.

Protection against scratching and all atmospheric conditions will be ensured by the new finishing while still keeping the derailleur esthetically pleasing.



The changing capacity is 44 teeth for the LG derailleur, 39 teeth for the MD derailleur and 32 teeth for the SM derailleur.

FRONT DERAILEUR

The Centaur group is supplied with the Euclid front derailleur.

The anodized finishing is used on the front as well as on the rear derailleur to guarantee a long lasting life of the component.

Due to the characteristically

heavy work load of the front derailleur, the shifting fork is constructed of steel.

It is available in three different versions all with a capacity of 26 teeth. The first is a fixed clip for the bikes with 28.5mm tubing, the second is a fixed clip for 35+36mm tubes and the third is a fully adjustable clamp for 28+33mm tubes.

CENTAUR				
SPROCKETS		CHAINRINGS		
A	B	C	D	E
		CENTAUR LG	CENTAUR MD	CENTAUR SM
Gear change capacity = (E + A) - (C + B) =		44	38	32
Biggest sprocket utilizable = A =		34	34	30
Front changer capacity = (E - C) =		26	26	26



SHIFT LEVERS

The front and rear shift levers of the Centaur group have an anodized and glazed finish which gives the pieces a particularly fine appearance as well as effective protection from the rigors of competition.

The shifters are attached to the handlebars by means of a clip. The clip is provided with a rubber insert to eliminate scratching and minimize the tendency to slip.

Centaur Syncro levers allow both traditional friction use as well as preset Index positions.

Six or Seven speed freewheels may be used by simply substituting the correct micrometric insert into the lever. (see compatibility chart in instruction booklet).

Cable tension can be quickly adjusted by using the barrel adjuster located on the levers themselves.



BRAKE LEVERS

There are three different brake levers available in the Centaur group, designed to satisfy the demands of all types of users.

The most versatile model without a doubt is the BIOFITTING lever with variable geometry.

By turning a screw, the patented system allows the end of the lever to be rotated through 180°.

The first position favors gripping the brake lever with the index and middle finger, while the second position favors the use of the ring and little finger.

The second version is the traditional type with a straight lever.

The third brake lever is the most popular among the competitive cyclist. This is the Compact lever. It is particularly suited for short, racing handlebars.

All of the levers are provided with return springs which combine smooth efficient functionality with

the quality and reliability of Campagnolo componentry.

All CENTAUR levers have an extremely fine finish in which a special coating is used. Applied in layers this finish helps to protect the levers against scratching and acidic agents such as those caused by the sweat of the rider's hands.

The distance between the lever and the handlebar may also be adjusted.



BRAKES

Very high braking power, suitable for all conditions of use, is possible thanks to the Monoplaner type brake. This is meant both in the absolute sense, thanks to the CAD structure, and in the relative sense thanks to the recovery of braking energy loss by means of the Monoplaner geometry.

The brakes are made of a special alloy and may be mounted either on the seat stays of the frame or under the chain stays.

Assembly and tuning are made easier by means of an innovative patented system for adjusting the reciprocal centering of the two arms.

By means of this system, any imperfections of the frame bosses may be corrected. Once the fixing bolt has been removed, the brake can easily be attached using a 6mm allen head bolt which is coaxial with a cylindrical bronze housing that



eliminates friction which would be harmful to the operation of the brake.

It is also possible to vary the preloading of the springs, so as to even up the return force on each caliper arm.

The brake shoes may be rotated in all directions due to their anchoring system with its spherical joint.

Although these brakes can be mounted on the more commonly available bosses, they are sure to be a cut above the rest due to the accuracy of machining and precise tolerances.





CHAINWHEEL

The chainwheel is made from high quality aluminum similar to the type used in the aerospace industry.

The chainwheel maintains the typical "drop" formation that characterizes all the most recent Campagnolo cranks.

Bolt circles are 110 and 74mm and chainrings that are fully interchangeable with the Euclid model.

Using state of the art CAD technique, Campagnolo's engineers have managed to create a cross section which will provide the ultimate in reliability while still maintaining a pleasant appearance. Chainrings are available in the following configurations:

Inner 24-26-28-30-34

Middle 36-38-40-42

Outer 46-48-50-52

Crankarms will be available in 170 and 175 mm lengths.

The individually machine cut teeth of the chainrings in keeping with the Campagnolo tradition, will provide silent and efficient coupling with the chain for years of use.



BOTTOM BRACKET

The bottom bracket axle is made of alloyed steel.

The grease is kept free from contaminants or loss by a bellows type bottom bracket sleeve.

The cups are also made of alloyed steel and the 1/4 inch ball bearings which are selected to a tolerance of one micron.

These bearings are protected further from dust, mud, water, or other contaminants by means of a small double sided gasket. This seal is placed into the cup and is made from a special material resistant to deterioration.

The bottom bracket spindle is available in 124 and 132 mm lengths. Both can be supplied for 68 or 70 mm shells in Italian, French or British threadings.



PEDALS

Centaur pedals are available in two versions: LG (wide sole) and SM (compact).

The pedals are enclosed with a polished cage possessing specially profiled teeth.

These teeth will provide a non slip surface in all types of conditions.

The LG version is suitable for use with most types of athletic shoes, while the SM version is intended for the competitive cyclist who will require extra cornering clearance.

The SM version also introduces the pedal tab common to racing pedals into the "All Terrain" world.

A toe strap can also be added to this type of pedal, passing it below the pedal body.

With an O-ring on the pedal axle, a double lip gasket integrated on



the dust cover, the rolling mechanisms of the pedal are highly protected and require a negligible amount of maintenance.

HEAD SET

The head set is made of steel with cups and bearing races manufactured to the exacting tolerances which Campagnolo is world renowned for.

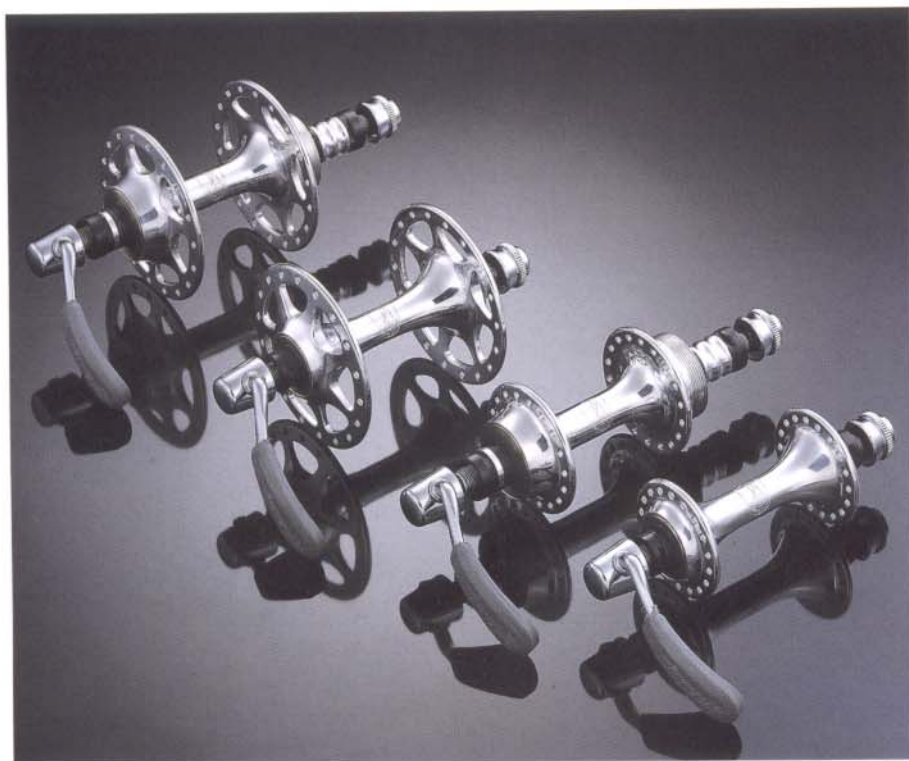
This type of precision manufacturing ensures exceptionally smooth operation and a long life span.

A gasket ensures protection against dust and contaminants.

The locking bracket (a Campagnolo patent) guards against the unscrewing of the Centaur headset and is made of a techno-polymer with a high degree of specific resistance.

This bracket ensures the secure adjustment of the headset against all vibrations common to the "All Terrain Bike".





SEAT POST

The CENTAUR seat post is derived from the Chorus racing model and is 325mm long with a single fixing screw.

Inside the cylindrical part, a ribbing guarantees maximum rigidity of the seat post, while the weight is kept to a minimum thanks to the use of an aluminium alloy.

The seat post is available with diameters 26.4-26.6-26.8-27-27.2 mm and is supplied complete with a quick release device for frame, with a 50 or 60mm shaft.

HUBS

There is a vast range of possibilities to choose from, all with quick release: Small flange or large flange, for 7 or 9mm dropouts, or with an axle suitable for fitting the long or short derailleur guard if required.

An additional feature is that front hubs with 28 holes are also available in all the versions described above.

The system of rolling mechanisms is highly reliable and smooth running, in keeping with Campagnolo tradition.

Sealing gaskets, in these hubs, guarantees protection from dust and atmospheric agents.

Our quick release mechanisms are available with a coated lever. Greasing may be performed through the holes located on the dust covers.



The hubs are also supplied with 32 or 36 holes, with 126,5 or 130 width, with Italian, French or BSC thread.





GEAR

- Q010-LG LG gear with change capacity up to 44 teeth ■
- Q010-MD MD gear with change capacity up to 38 teeth
- Q010 SM gear with change capacity up to 32 teeth
- 1309001 Gear guard long
- 1309002 Gear guard short



FRONT CHANGER

- M022 Front changer Euclid with fixed clip for tubes Ø 28,5 ■
- M023 Front changer Euclid with adjustable clip for tubes Ø 28+33
- M024 Front changer Euclid with fixed clip for tubes Ø 35+36



SHIFT LEVERS

- Q222 SYNCRO control levers for 6-speed gear and front chan. ■
- 0118155 SYNCRO control lever for 7-speed gear



BRAKES AND LEVERS

- Q500 Subgroup brakes/brake control levers: ■
 - brake control levers and normal levers ■
 - Monoplaner brakes complete with cables and casings ■
- Q05C-DX/SX Brake control levers with COMPACT levers
- Q05E-DX/SX Brake control levers with BIOFITTING levers



CHAINWHEEL

- Q040 Left and right cranks 175 mm with triple chainring: ■
 - inner 26, central 36, outer 48 teeth
- Q071 Right crank 170 mm
- Q072 Left crank 170 mm
- QZ00I Inner chainrings with 24-28-30-34 teeth
- QZ00M Central chainrings with 38-40-42 teeth
- QZ00 Outer chainrings with 46-50-52 teeth



BOTTOM BRACKET

- Q0H0 Bottom bracket with 124 mm axle for 70 mm b.b. box, ■
 - with Italian thread unless other versions are specified when ordering:
 - Q0H0 with 124 mm axle, 68 mm b.b. box, cups with Italian, French or BSC thread
 - Q0H0 with 132 mm axle, 68 or 70 mm b.b. box, cups with Italian, French or BSC thread



PEDAL - TOE CLIP

- Q600 Subgroup LG pedals ■
- Q640 Subgroup SM pedals
- QF15 Set of resin toe-clips
- OF13-A Set of steel toe-clips
- QF95-PR Set of reflectors for pedals with resin toe-clips
- QF95 Set of reflectors for pedals without toe-clips or with steel toe-clips
- 1134056 Shoe plates complete with fixing screws



HUB

- Q300 Subgroup hubs, normal flanges for 7 or 9 mm fork ends ■
 - (not suitable for applying the gear guard) with 36 holes, width 126.5, Italian thread
- Q300 Subgroup hubs, normal flanges for 7 or 9 mm fork ends
 - (suitable or not suitable for applying the gear guard, specify when ordering) with 28 holes (front hubs only), 32 or 36 holes, width 126, 5 or 130, Italian, French or BCS thread
- Q300-FG Subgroup hubs, large flanges for 7 or 9 mm fork ends
 - (suitable or not suitable for applying the gear guard, specify when ordering) with 28 holes (front hubs only), 32 or 36 holes, width 126, 5 or 130, Italian, French or BCS thread
- N.B.: *When ordering specify whether for 7 or 9 mm fork ends*



SEAT PIN

- Q0R8 Seat pin with one fixing screws Ø 27 mm ■
 - and quick release with a 50 mm skewer
 - or when ordering specify the variations with Ø 26,4 - 26,6 - 26,8 - 27,2;
 - quick release 50 or 60 mm



HEADSET

- Q0D0 Headset with cable guide bracket, Italian thread, also ■
 - in versions with French or BSC thread
 - (specify when ordering)



BOTTLE

- 1120007 BIODYNAMIC 900 bottle complete with cage

■ = basic component

- CAMPAGNOLO S.R.L. - VIA DELLA CHIMICA, 4 - 36100 VICENZA - ITALIA - PHONE 0444-564933 - TELEX 480074 CAMPA I - TELEFAX 0444-565062
- CAMPAGNOLO SARL - RUE DU CHATEAU D'EAU - ROUZIERES DE TOURAINE - 37360 NEUILLE PONT PIERRE - FRANCE - PHONE 47-566569 - TELEX 750373 WEIFRA - TELEFAX 47-566779
- CAMPAGNOLO CORPORATION - 43 FAIRFIELD PLACE - WEST CALDWELL, N.J. 07006 - U.S.A. - PHONE 201-8828733 - TELEX 705994 CAMPA CORP - TELEFAX 201-8828939

SERVICE AND TECHNICAL INFORMATION • CENTRAL (ITALY) - Phone 0444/571871
• U.S.A. - Phone 201/8828733