

# Ron KITCHING EVERYTHING CYCLING ACCESSORIES, TUBULARS AND SUNDRIES



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# Ron KITCHING EVERYTHING CYCLING ACCESSORIES

Because so many members of our company are active cyclists, it gives us added pleasure to see the way that cycle components are evolving.

Unlike the car market, there is no compulsion to issue a yearly new model, and for this reason when manufacturers do add a component to their range it is for reasons of genuine improvement, and not just to stimulate sales.

Some may argue about the value of aerodynamics, but the quest for more aerodynamic items has undoubtedly produced components that are more attractive, more compact and thus lighter. Sealed bearing components are proliferating, and the use of high-tech plastics is on the increase.

Which is not to say that innovation is everything. The world's most popular touring chainset has changed its design hardly at all over the course of a decade and its appeal remains solidly in the wide range of chainwheels and crank lengths available.

Availability is important. We stock an unrivalled range of components, offering a choice of manufacturers in most cases, letting the customer make a personal choice and not necessarily accept that components ridden under contract by professional cyclists are the best. The items we stock are available through countless specialist cycle dealers throughout the country, so even if your chosen dealer does not stock a given line, it can be quickly obtained. Our commitment is to offer not just the fast moving lines, but those needed by the specialist, hence the incidence of components suitable for tandem, unusual rim and hub drillings, the off-standard seat pillar sizes.

You can have confidence that any item listed in this catalogue has been fully assessed for its practicality and value. It is guaranteed and backed up by spares. Our motto is 'Everything Cycling', and this is certainly our aim, to continually scour the world for worthwhile components and to bring them on offer to cycling enthusiasts at reasonable prices.



A.C.I.



## Stainless steel spokes

For a given diameter, stainless steel spokes have a lower tensile strength than the rustless variety but they can be perfectly satisfactory if the basic material is of good quality and a suitable thickness used. Their great attraction is that they retain their shine indefinitely as no others do, and nipples do not become immovably seized-up. The A.C.I. range is intended for lightweight wheels and, along with double-butted 14/16 gauge there is also an 'elliptical' section which is .15 gauge at the ends.



### Spokes & nipples (stainless)

Double Butted 14/16 gauge Gross 1X	ACIA7517	£16.96
Elliptical 15 gauge Gross 1X	ACIA7534	£18.96

AMBROSIO



## Dural sprint rims

### Montreal

In polished, black anodised, or the hardened dark-grey duresx finish, this rim is ideal for the toughest of road races or general time trialling. It is 20.5mm wide, weighs 400 grams and is available in 32 and 36-hole drillings.



Montreal - Polished Pair 1B	ABO A6351 10U	£12.59
Montreal - Anodised black Pair 1B	ABO A6357 10U	£13.67
Montreal - Duresx treatment Pair 1B	ABO A6361 10U	£26.30

### Metamorphosis

To answer the demand for a highly resistant road racing rim, Ambrosio have used a new alloy and applied their duresx hardening treatment to produce the 21.5mm Metamorphosis 'Servizio Corse' rim for the toughest task. This 400 gram rim is dark grey in colour, and the bed is specially dimpled to provide a good key for tubular cement. Drilled 36.

Metamorphosis grey finish Pair 1X	ABO A6381	£71.28
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ACONTI



### Bells

Armal Most - C.P. Each 1C	A1 A452	20U	£0.68
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### Bottle and cage set

Pressed plastic bottle with CP cage Set 1C	A1 A655	20U	£1.12
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### Handlebar grips

Heavy duty with amber reflectors Pair 1C	A1 A3980	20U	£0.96
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### Horns

17" straight - C.P. with single note Each 1C	A1 A4565	20U	£1.08
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### Locks

Combination 30" - 4 figure combination Each 1C	A1 A5150	20U	£1.18
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### Storage hooks

P.V.C. covered alloy (screwed for wood) Pair 1C	A1 A6000	20U	£0.72
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ARAYA



## Aerodynamic sprint rims

The modified V-shaped section of these rims brings a double benefit. Not only are the resulting wheels more streamlined, but they are also stronger, since the spokes are shorter and the rim is stiffer. Two types are available, the ADX-1, 18.7mm wide for ultra-narrow tubulars or the ADX-2 (21mm) for "ordinary" narrow tubulars. The ADX-1 is also available in a hard, grey anodised version ADX-1 (drilled 28 or 32) 300 gm, ADX-2 (28/32/36) 330 gm.



ADX-1 V section 18.7mm wide Pair 1B	AYA A6333 5M	£57.36
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ADX-1 V section anodised hard black Pair 1B	AYA A6334 5M	£67.81
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ADX-2 V section 21.0mm wide Pair 1B	AYA A6338 5M	£52.25
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Special ADX rim washers (aluminium) Each		£0.17
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## Mountain bike rim

A sturdy Endrick-section 26" x 1.75" rim to take either 1.75 or 2.125 tyres. In silver anodised light alloy, tangent drilled for 36 spokes, holes staggered and recessed. Designed for off-road bikes, but also suitable for heavy-duty touring. 600 gm.



Rims - Mountain bike 26 x 1.75 - silver Pair 1B	AYA A6345 5M	£31.49
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ARIUS



## Saddles

### Imperator

This famous Spanish manufacturer has caught the current vogue for saddles which have a drooping nose and upswept rear. The nylon top has foam padding covered with black suede. The result is an attractive saddle at an attractive price. 328 gm.



Imperator Suede covered aerodynamic shape (less clip) Each 1C	AS A6727	10M	£6.76
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### Imperator Skay

Same model in a bargain wrapping - skay covering instead of suede.

Imperator Skay Each 1C	AS 6724	10M	£4.70
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### XR-1

53mm good looks, high-quality production - the XR-1 has it all. With the modern styling of a slightly upswept back and 'drop snoot', the XR-1 is ideal for the long-distance rider. A high-quality nylon top is covered by high-density foam and topped by buffalo suede. A final touch with safety in mind is the fluorescent XR-1 patch at the rear. 355 gm.



XR-1 Buffalo covered (less clip) Each 1C	AS A6726	10M	£12.12
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ATAX



## Handlebars

Two models of specially high quality from a wide range. Both are in AG5 light alloy, with an engraved centre sleeve and the whole bend given a luxury silver anodised finish.

### Franco-America

We chose this handlebar for the rider needing a wide shape with plenty of depth, a style popularised by Eddy Merckx. 340 gm.

Franco America anodised silver 42 cm.  
Each 1B AXA3775 £8-40

### Tour de France

A squarish bend ideal for road rider, offering a choice of positions, a good choice for most purposes. 40 cm wide. 340 gm.

Tour de France anodised silver 40 cm.  
Each 1B AXA3780 £8-24

## Handlebar stems

### ASCG Aerodynamic stems

The high technology of this respected company, already involved for years in alloy bars and stems, has now turned to aerodynamics. But not only the smooth lines are new. In addition, it employs a patented way of securing the bars, the hidden Allen-key bolt acting as a cam. The locking steel thread is helioid, and the clamp cannot twist or warp under pressure because of a rubber shock-absorbing pad. In 75-90-105mm lengths:  
75mm - 265 gm.  
90mm - 285 gm.  
105mm - 330 gm.

ASCG Aerodynamic 75mm  
Each 1B AXA4070 £8-05

ASCG Aerodynamic 90mm  
Each 1B AXA4075 £8-33

ASCG Aerodynamic 105mm  
Each 1B AXA4080 £8-61

### Glissiere adjustable stem

A chrome-plated stem adjustable for length by virtue of a moveable handlebar clamp. 475 gm.

37 Glissiere adjustable to 170mm  
Each 1B AXA4130 £12-15

## Seat Pin

### Professional

An amazingly simple micro-adjusting seat pillar in anodised light alloy, one easily-reached Allen-key bolt controlling the saddle tilt and the actual damping of the saddle wires. 230 gm.

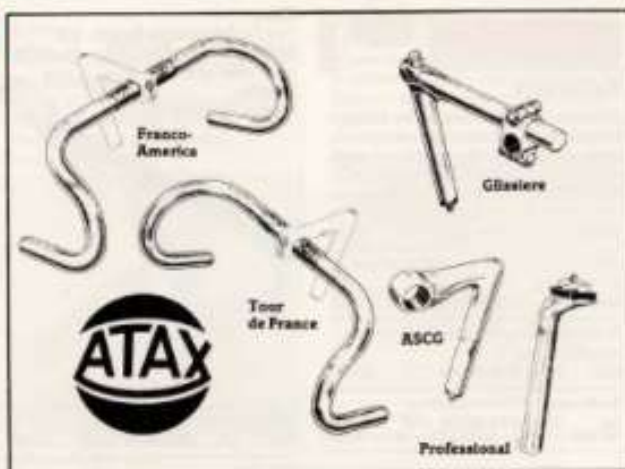
Professional 205mm long, 26-B, 27-O, 27-2mm.  
Each 1B AXA7050 £6-98

NEW

### Polypro

Similar model, but in black polyamide, for extreme lightness. 180 gm.

Polypro  
Each 1B AXA7053 SU £4-46



BADOR



## Handlebar stem

### Competition

Light alloy stem for French-dimension frames 90, 100, 120, 130mm.

Competition alloy handlebar stem (90-130mm ext.)  
Each 1X BRAS20 £8-54

## Bottom bracket set

### Competition

Precision sealed bracket unit alloy with steel axle. French threading. 290 gm.



Competition Alloy B. bracket set (steel axle)  
Set 1X BRAS40 £35-81

BERNARD



## Rustless spokes

Manufactured in France in a modern factory, Bernard are offering the answer to cyclists requiring a reliable product at a reasonable price. The spokes are manufactured in first quality rustless steel and are available in 14 x 16 double-butted gauges. This gauge, coupled with the quality, offers a first class product both for competition riders and tourists. Supplied with Schrader first quality nipples.



Age of Hearts: 14-16 gauge D.B.  
1,000 1B BDA7524 SU £44-00

BIBIA



## Dynamo cap

A rubber cap for the dynamo pulley wheel which reduces pulley wear and reduces the risk of bulbs blowing at high speed by reducing the effective RPM of the dynamo. At the same time it minimizes slippage.

73 Dynamo pulley caps  
Each 1C BBA A2465 £0-04

BINDA



## Toestraps

### Standard

Extremely strong leather. The first favourite among cyclists the world over. Really stiff chrome leather with special quick release buckle make Binda straps ideal for road or track. Available in attractive colours - Red, blue, white or black.



Standard model QR assorted colours  
Pair 1B BNA A8150 20M £3-62

### Super

A tough outer coating adds strength to the suppleness of chrome leather.

Super model QR assorted colours  
Pair 1B BNA A8155 20M £5-81

### Extra

New model for the professional. Finest leather strap with reinforcing insert resulting in an almost indestructible strap.

Extra model assorted colours  
Pair 1B BNA A8160 20M £7-56

BONANZA



## 'Safety Light' rechargeable lighting set

Ever since the battery lamp was first used on bicycles, its limitations have

been apparent and the subject of adverse comment by night riders. Even with improved design, the inadequate light intensity, faulty switches and the constantly increasing prices of batteries have all tended to make the undoubted convenience of such lamps a doubtful bargain. Now the Bonanza Safety Light offers all the convenience PLUS a 6-volt 3-watt output PLUS a battery that will last at least 3,000 hours! The heart of the system is a high-impact plastic container, fitting into a bottle cage, that holds five rechargeable ni-cad batteries. The only 'switch' is a 3-pin jack which plugs a twin-wire cable into a socket and feeds current to a smart all-plastic headlamp with a 2" lens and a neat BS 3648 tail-lamp. Both have springy plastic clips intended for use on handlebar and seat pillar or seat tube, and both can be stored within the battery container. The batteries can be plugged into the mains via the supplied charging unit, and after a 14-hour charge there will be a full output for at least 3 hours and this process is repeatable up to 1,000 times. 550 gm.



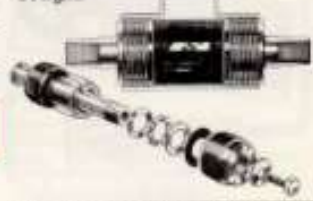
'Safety light' rechargeable batteries in plastic container with easy-to-head and BS rear lamps (includes charging unit)  
Set 1X BZA A2440 SU £33-77

BULLSEYE



## Roller bearing bottom bracket

A heat-treated high quality steel axle, centreless ground and guaranteed against breakage for two years, running in two SCE 109 INA needle-roller bearings and shielded by integral neoprene seals - should end bottom bracket troubles for ever, and that is what the Bullseye unit sets out to do. The rollers are 10mm x 1.8mm, 22 each side, set in alloy housings that screw into the bracket shell. End thrust is taken care of by two additional bearings of 6 x 4mm steel balls butting against hardened steel washers and positioned by an internal sealing sleeve that is the 'key' of the whole system. Chain-line can be varied. 300 gm.

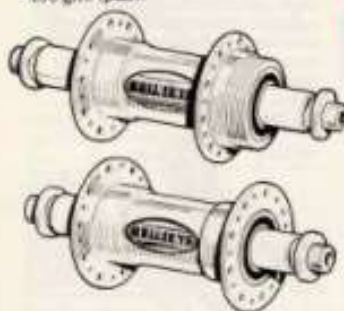


Bottom bracket unit 4V1 Coded Red - English standard fitting  
Each 1X BSA A765 SU £28-50

## BULLSEYE - continued

### Sealed bearing hubs

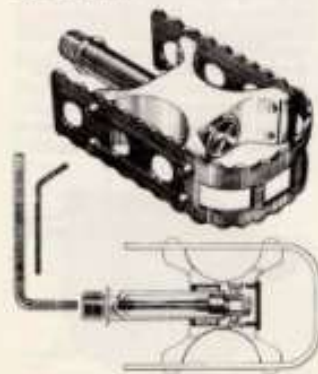
The first sealed bearing hub which can be serviced by the user. The bearings are 12 x 28 x 8mm, with non-contact labyrinth seals, and can be slid out of their housings when Allen-screwed sleeves are removed. The axles are of heavy duty steel of large diameter, have flatted ends to fit the fork-end slots and can be used with either a conventional quick-release device or with Allen bolts which screw into them. Front and rear bolts are of the same size. The alloy bodies have 5 cm. diameter flanges, 4mm thick with 36 holes and the threaded portion can be replaced at the factory. The finish is satin polish with clear anodising. Remember to dismantle, undo one set screw, take out one Allen bolt and push out comes a bearing and the axle itself. 400 gm. (pair).



Sealed bearing hubs (less QR fittings)  
Pair 1X **BSE A4630 5U £53.23**

### Sealed bearing pedals

Bullseye are known for good engineering and the effective use of sealed bearings, and their alloy pedals are no exception. Here a unique hollow spindle allows the mounting of a heavy-duty sealed roller bearing and a precision open ball bearing to give a basic dynamic capacity of 1925 pounds for each pedal. This great over-capacity results in long life and resistance to heavy shock loads. An outboard plastic cap provides 100% sealing with absolutely no friction. Good looking, light, tough, and easy to maintain and service, they have black cage plates, with the main body either black or silver. 352 gm. (pair).



Pedals - sealed needle roller bearings  
Pair 1X **BSE A5650 5U £38.00**

## CAT EYE



### Reflectors

Safety is greatly increased by using reflectors, which catch the attention even in bad daylight conditions, and certainly at night. Cat Eye offer a red rear reflector for seat-stay fitting or for polo seats stays, and sets of four amber pedal reflectors.

Pedal reflectors - RR 0217 G2A Amber 2-bolt fitting			
Set 4	1X	<b>CTE A6130 25U</b>	<b>£0.85</b>
Rear reflectors - RR 300 APR 3" dia. polo seat stay fitting			
Each	1X	<b>CTE A6150 20U</b>	<b>£0.52</b>
Trafficators - FFW 9-bolted set			
Set	1X	<b>CTE A8550 10U</b>	<b>£8.35</b>

## CHIMIPLAST



### 'Dissoplast' narrow rim tape

100% cotton adhesive 17mm rim tape in the new narrow section for Elan, Elite type rims. Herringbone design, firmly edged to fit into the bed of the rim.



Dissoplast for Elite/Elan rims  
Each 1B **CT A6505 30M £0.52**

## CHRISTOPHE



### Toeclips

**Chromed steel**  
The world's most popular toeclip - the Christophe Special is in spring steel heavily chromed on copper and is available in 3 lengths, short medium or long. 86 gm. (medium).



50 DAC Short pattern			
Pair	1B	<b>CE A7950 20M</b>	<b>£1.74</b>
50 C Medium pattern			
Pair	1B	<b>CE A7951 20M</b>	<b>£1.74</b>
50 SC Long pattern			
Pair	1B	<b>CE A7952 20M</b>	<b>£1.74</b>

## Alloy

For the lightweight fanatic, the famous Christophe design quality is now offered in light alloy, in two lengths. 45 gm. (medium/long).



49C medium			
Pair	1B	<b>CE A7970 20M</b>	<b>£3.47</b>
49S long			
Pair	1B	<b>CE A7975 20M</b>	<b>£3.47</b>

## Protector strip

Now available in a plastic protector strip easily fitted and giving full protection to both shoe and clip.

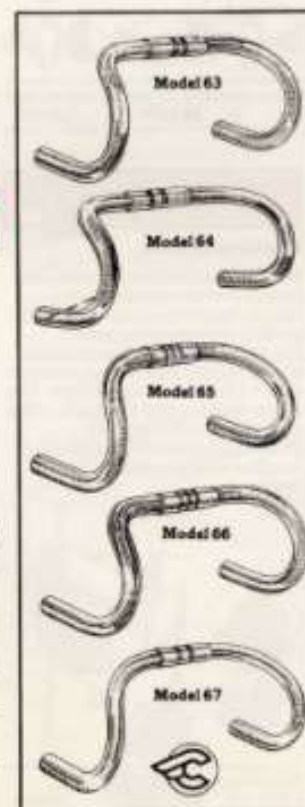
44 020 plastic strip			
Set	1B	<b>CE A7955 20U</b>	<b>£0.21</b>

## CINELLI



### Handlebars

Cinelli handlebars are in superbly finished dural, and have a centre ferrule which is 26-4mm diameter and beautifully engraved. There are five road versions and one for the track.



## Model 63 'Campione del Mondo'

A square bar with a good forward reach. Available in 38 and 40 cm widths. 324 gm.

Model 63 - Campione del Mondo			
Each	1X	<b>CIA3700 20M</b>	<b>£8.45</b>

## Model 64 'Giro d'Italia'

Slightly less square than the 63, and less radical dimensions. A good all-round road racing bar. In 38, 40 and 42 cm widths. 329 gm.

Model 64 - Giro d'Italia			
Each	1X	<b>CIA3705 20M</b>	<b>£8.45</b>

## Model 65 'Criterium'

A shape which owes much to track racing and is favoured also by time trialists. The forward curve starts almost from the ferrule. In 38, 40 and 42 cm widths. 314 gm.

Model 65 - Criterium			
Each	1X	<b>CIA3710 20M</b>	<b>£8.45</b>

## Model 66 'Campione del Mondo'

A square bar, but much deeper and with more forward throw than the other road bars. In 38, 40 and 42 cm widths. 320 gm.

Model 66 - Campione del Mondo			
Each	1X	<b>CIA3715 20M</b>	<b>£8.45</b>

## Model 'Aero'

Following the move towards more aerodynamic components, Cinelli have produced a handlebar based on the Model 65, but with a section which owes much to the streamlined shape of an aircraft wing. In 40 cm width. 315 gm.

Aero			
Each	1X	<b>CIA3718 20M</b>	<b>£9.30</b>

## Model 67 'Pista'

A very deep bar for use by track riders and those who require a very low position. In 39 cm width. 320 gm.

Model 67 Pista			
Each	1X	<b>CIA3730 20M</b>	<b>£9.30</b>

## Handlebar stems (dural)

### 1A Road

Smooth lines, good looks, superb finish. Allen-key expander bolt and handlebar clip bolt, both 6 mm. Sizes 7.0 to 14.5 cm. 298 gm. (for 11 cm).



1A Road			
Each	1X	<b>CIA4050 20M</b>	<b>£10.34</b>

## CINELLI - continued

### 1R 'Record' Road

An aerodynamic stem whose handlebar clip-bolt has been concealed underneath the extension. The Gram Allen-key bolt works on a wedge which tightens on a large part of the handlebar circumference. Sizes 9.5 to 14.5 cm. 262 gm.



1R 'Record' Road in sizes 9.5 to 14.5 cm  
Each 1X **CIA4060** 20M **£16.58**

### 'Domino'

This stem is hinged at the handlebar clamp to allow handlebars to be inserted or removed without touching the brake lever assembly. It is mostly of light alloy, with the upper part in semi-rigid polyurethane. In 9/10/11/12 cm.



'Domino'  
Each 1X **CIA4063** 20M **£18.53**

### 2A 'Pista'

A more steeply sloping stem, but otherwise similar to the 1A. Sizes 10 to 13 cm. 288 gm.

2A 'Pista'  
Each 1X **CIA4066** 20M **£11.67**

### Handlebar stem spares

1A/2A Expander bolt  
Each 1X **CIA4110** **£0.75**

1R Expander bolt  
Each 1X **CIA4115** **£1.97**

1A/2A Clip bolt  
Each 1X **CIA4120** **£0.55**

1R Clip bolt  
Each 1X **CIA4125** **£0.68**

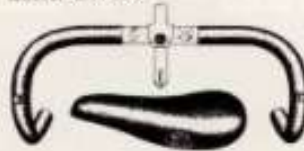
1R Slide wedge  
Each 1X **CIA4150** **£2.68**

1R Stem cover  
Each 1X **CIA4135** **£0.40**

Allen key 6mm  
Each 1X **CIA4140** **£0.57**

### VIP Ensemble

For the rider with an eye for good looks, a matching set of Record stem, with handlebars and Cinelli No. 3 saddle covered in matching buffalo leather. CIA4085.



VIP Ensemble  
Set 1X **CIA4085** 5U **£75.40**

### Tandem rear handlebar clamp

A superbly machined light alloy clamp to take the rear handlebars on a tandem. It is designed to accept Cinelli bars or others with a 26.4mm centre bulge, and a 27.2mm seat pin. Complete with two Allen key bolts. 170 gm.

Tandem clamp  
Each 1X **CIA4068** 5U **£27.72**

### Handlebar end stops

The finishing touch to any classy handlebar set-up, push-in end plugs in chrome-plated plastic.

Chromed handlebar end stops  
Pair 1X **CIA3861** 25U **£0.28**

### Handlebar tape

'Cork Ribbon'  
A luxuriously soft feel is the deceptive advantage of Cinelli's 'Cork Ribbon' handlebar tape. It is made of a cork-rubber compound which is waterproof, tear-proof and sweat-proof. The natural cork colour is eye-catching and blends with any colour scheme. The tape itself has an adhesive centre band and builds up to a smooth, gently yielding cladding. Delivered in a pack containing two rolls, enough for one pair of bars.

'Cork Ribbon'  
Twin  
Pack 1X **CIA4255** 5U **£3.93**



## Pedals

### M71 Sprint

Pedals of unique design, which hold the foot firmly without the aid of a toeclip or strap. The alloy platform has a locking clip, which would release the foot in the event of a sideways fall. It locks to a nylon shoe-plate (supplied), which will suit any shoe, and keeps the foot firm on the pedal once locked. 400 gm.



M71 Sprint - complete with RD 1000 shoeplates  
Pair 1X **CIA5600** **£16.58**

Shoeplates only for M71 pedals  
Pair 1X **CIA5605** **£0.64**

Dust cap for M71 pedals  
Pair 1X **£0.78**

## Saddles (without clip)

The original and still the best - Unica produced the first nylon/plastic saddle years ahead of the rest. Known as the world's most modern cycle saddle, only Cinelli/Unica have these 'star' features.

- ★ Top moulded to the saddle frame giving a clean and finished appearance.
- ★ Modern curved back without any protruding rivets or 'bats'.
- ★ Short chamfered sides to prevent any chafing.
- ★ No breaking-in required - the top provides a firm, comfortable seat without that springy feeling that absorbs pedalling power.
- ★ Impervious to heat, cold or wet, the saddle always retains its original shape. Economy in weight.
- ★ Non-rust stainless steel or alloy frame - fully adjustable.

### Model 55

The original saddle top, without padding or covering, perforated, made of an indeformable technopolymer. 300 gm.



55 Road - black  
Each 1X **CIA6600** 5M **£7.51**

### Campione del Mondo model 65

Based on the model 55, but with a covering of either black leather, chamois or buffalo. 335 gm.



65/CM Black leather covered  
Each 1X **CIA6610** 5M **£13.19**

65/2 Black chamois covered  
Each 1X **CIA6615** 5M **£12.20**

65/N Black buffalo covered  
Each 1X **CIA6620** 5M **£13.19**

### Tour de France

A Rilsan top, padded with high-density foam rubber, and then covered in black chamois, or smooth leather. 450 gm.

No. 2 Black chamois covered  
Each 1X **CIA6640** 5M **£13.88**

No. 4 Black smooth leather covered  
Each 1X **CIA6650** 5M **£14.92**

### Model C

Latest in the range of luxury competition saddles, this one is based on the Tour de France model, but with the Cinelli logo providing a patterned finish to the black suede covering. A very distinctive saddle for machines that need something special. 488 gm.

Road 'C' printed leather  
Each 1X **CIA6605** 5M **£17.61**

### Model L

The search for lightness has brought the Model L 'Superleggers' saddle down to only 220 grams, thanks to a revolutionary design. The twin alloy saddle wires merge into one near the nose, saving weight without losing either strength or adjustment. Suitable for all kinds of competition, the 'Superleggers' has a Rilsan top and buffalo covering, and is available as an unpadded track model, or with high-density foam padding for road racing, where the weight is still only 330 grams. A top-flight saddle for the most demanding of riders.



Track unpadded  
Each 1X **CIA6655** 5M **£19.18**

Road padded  
Each 1X **CIA6660** 5M **£20.80**

# ACCESSORIES

**Ron  
KITCHING**

## CINELLI - continued

### Grantour

The first Cinelli saddle aimed at the distance rider. It has the same alloy twin wires as the Model L, but with extra-thick padding on the rear, and top-class buffalo covering of the Rislan top. 320 gm.

Grantour  
Each 1X **CI A8661** 5M **£20-80**

### Volare

A futuristic shape and a really aggressive price. The rear of the saddle has a completely new, more rounded style, and the nose has a distinctive shape. Underside the suede covering is a densely-padded polyurethane top. 420 gm.



Volare  
Each 1X **CI A8662** **£12-25**

### Saddle cover

#### Coprisella

A stretchy saddle cover which protects the saddle in transit or even while being ridden. Will fit virtually all racing saddles. In assorted colours.

Saddle cover Coprisella  
Each 1X **CI A8607** 30U **£1-82**

### Shoe-plates

#### Uniblock 2000

Nylon plate which fits over the central barrel of the pedal and inside the cage plates, instead of slotting on to just one cage plate. Suitable for most top-class quill pedals.



Uniblock 2000  
Pair 1X **CI A7200** **£1-97**

### Seat tube collar

#### Riviera

A collar which clamps the seat tube and seat pillar where a brazed-on clamp is not fitted.

Riviera  
Each 1X **CI A8675** **£0-32**

### Toeclips

#### Ergal

Cinelli's Ergal (light alloy) toe-clips are now available in colour, as well as silver anodising. Formed from a

single piece of 12mm thick alloy, with gently-radiused corners to avoid weak points. The clip is tumble finished and polished before final anodising in silver, blue, gold or black. Short, medium or long. 30 gm. (pr).



Anodised silver - short  
Pair 1X **CI A7968** 10M **£4-58**

Anodised silver - medium  
Pair 1X **CI A7970** 10M **£4-58**

Anodised silver - long  
Pair 1X **CI A7971** 10M **£4-58**

Anodised black, blue or gold - short  
Pair 1X **CI A7973** 10M **£4-75**

Anodised black, blue or gold - medium  
Pair 1X **CI A7974** 10M **£4-75**

Anodised black, blue or gold - long  
Pair 1X **CI A7975** 10M **£4-75**



### Brake shoes

#### Auto Preneur

An ingenious wedge-shaped well in this lightweight brake shoe uses braking forces to increased advantage. As braking tends to force the blocks forward in the shoe, the same action accentuates the sideways pressure on the rim. Blocks are 4-studded, and come in two types of shoe in sets of four.

Pin fitting  
Set 1X **CLB A850** 5U **£1-50**

Screw fitting  
Set 1X **CLB A855** 5U **£1-50**

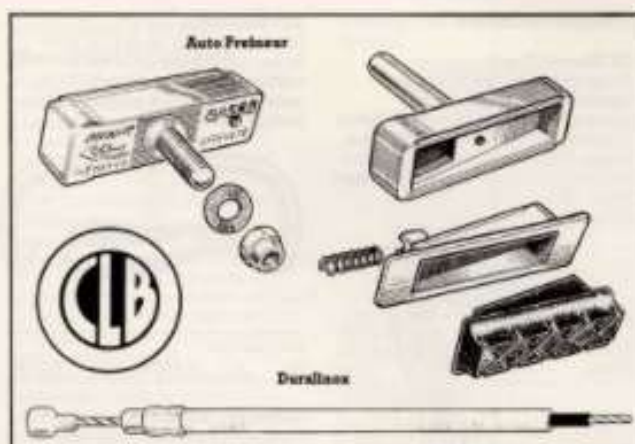
### Brake transmissions

#### Duralinox

The 'self-lubricating' principle of CLB outer casing for brake cables is achieved by means of a 2-8mm external diameter polyethylene sleeving which is slid over the inner wire. The sheathed wire is then introduced into the casing which has a 3mm internal diameter and is made from square section 1mm Duralinox, extremely smooth on the inside and covered in clear vinyl. Supplied as complete systems, or in 12 metre rolls of outer casing and sleeving with sachet of 23 end fittings. 85 gm. (pair).

Duralinox S-C Transmission (complete inner & outer)  
Pair 1X **CLB A1206** 5U **£4-97**

Outer cable only 12 m roll  
Each 1X **CLB A1220** 5U **£15-20**



### CONDAR

#### Bulb horn

A superb cycle horn. The best quality chrome plating, a fully adjustable non-slip clip, plus a perfect tone every time from the four pipes.



115 Trumpet model 14"  
Each 1C **CR A4520** 25M **£5-18**

### COMPY

#### Saddles (less clip)

The latest nylon saddle in the popular 'Concorde' shape is covered in high-quality black suede. The top is firmly bonded to a chromed frame. The benefits of this design are better purchase from the back of the saddle, especially when climbing, and reduced friction, thanks to the narrow peak, maintenance of leg reach when on the peak of the saddle, which is slightly raised. 310 gm.



Suede covered top  
Each 1A **CPY A6629** 5M **£13-66**

### CYCLO

#### Bag loops

Many racing saddles do not have integral loops for saddlebag straps. This handy accessory remedies the problem.

Bag loop attachments  
Set 1B **CLO A205** **£1-15**

### CYPARI

#### Bottle cage

Alloy downtube bottle cage with clip fittings and plastic bottle guide. Anodised silver, blue or black.



Bottle cage  
Each 1C **CP1 A8615** 20U **£0-78**

### Brakes

#### 'Sprite' steel side-pull

Side-pull brake with plated steel struts, the front depth variable between 55 and 75mm and the rear between 60 and 75mm. Blocks are 35mm long with four studs. Levers are in steel, of the touring type with ball ends and clips for 1 1/2" bars. Cables have barrel nipples with alloy lever stops and white plastic housing.

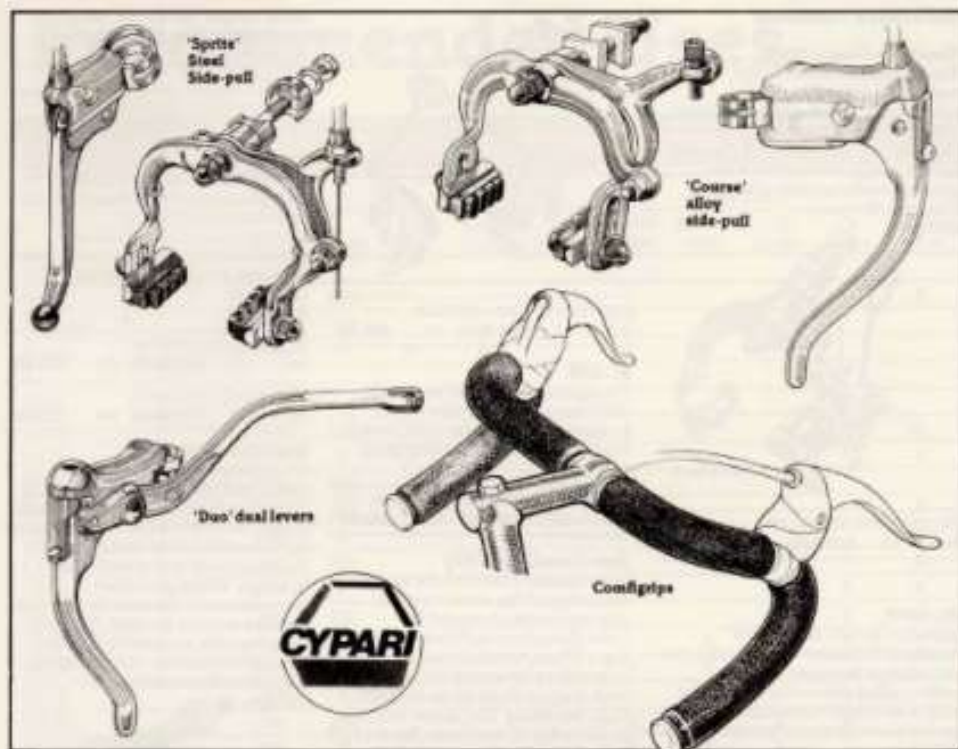
'Sprite'  
Pair 1C **CP1 A807** 10U **£5-76**

#### 'Course' and 'Course Extra' alloy side-pull

A conventional alloy side-pull for sports and touring machines. The front strut can be adjusted for depths between 50 and 60mm and the rear for depths between 55 and 75mm. The studed blocks are 35mm long and the pivot bolts 6mm diameter. Levers are hooded with band-clip fitting for 1 1/2" bars and hinged tension release. Cables are 15-strand 1.5mm in white plastic sheathing fitted with one pear nipple and alloy lever stop. The 'Course' has a standard racing lever, while the 'Course Extra' has dual-use 'safety' levers.

'Course'  
Pair 1C **CP1 A811** 10U **£6-64**

'Course Extra'  
Pair 1C **CP1 A812** 10U **£7-64**



### 'Duo' dual levers

The 'safety' lever arrangement which allows two different braking positions, including one when riding 'on the tops'.

'Duo' 2-way combination touring levers  
Pair 1C **CPIA1326** 10U **£3.78**

### Cables

#### Universal inner/outer

A 60"/65" inner and outer brake cable, white casing, with a different ripple at each end.

Universal inner/outer - in white with double ended inner wire: 60"/65"  
Each 1C **CPIA1330** 20U **£0.58**

#### Universal brake inner wire

A 65" double-ended brake inner wire with pear and barrel nipples.

Universal brake inner  
Each 1C **CPIA1101** 25U **£0.20**

#### Universal gear inner wire

A 65" gear inner wire, double-ended to fit all popular derailleur mechanisms.

Universal gear inner  
Each 1C **CPIA3300** 25U **£0.20**

### Handlebar grips

#### Comfigrips

Cellular close-texture plastic foam is extruded into various lengths to suit most types of handlebars, and the black or brown colouring will complement all colour finishes. The unstretched thickness of the sleeving is 8mm and the comfort when fitted is quite luxurious. Tough and washable, resistant to abrasion and perspiration, the material is far superior to the 'sponge rubber' of former days. Supplied in 4-piece sets.

Set (4) 1C **CPIA3943** 5U **£2.58**

### Handguard

Old-timers need sigh no longer for the Shockstop or Constrictor sponge grips of yesteryear: the Cypari micro-cellular types offer all the old comfort with longer life and greater durability. They can be washed with soap and water. In black, red, blue or yellow.



'Handguard'  
Pair 1C **CPIA3945** 5U **£1.94**



### Alloy brakes - side-pull

#### DC-500N

Unsurpassed performance at a price you can afford. Redesigned to simple aerodynamic lines, with the popular 144 lever. 580 gm.

DC-500N x DC-500N x 144  
Pair 1X **DCEA802** 5U **£9.40**

#### DC-630N

As above, but with the extra mudguard clearance offered by the 630 depth. With 144 lever.

DC-630N x DC-630N x 144  
Pair 1X **DCEA803** 5U **£9.40**

#### QS-500N

Dynamic elegance, an enhanced finish, and the addition of a positive-action quick-release mechanism and wheel guides.

Coupled with the perforated 151 lever. 555 gm.

QS-500N x QS-500N x 151  
Pair 1X **DCEA807** 5U **£11.70**

#### QS-630N

As above, but in 630 depth.

QS-630N x QS-630N x 151  
Pair 1X **DCEA809** 5U **£11.70**

#### G-500N

A beautifully balanced design, incorporating all the QS features but with anodised finish, and using the slotted 152 lever with rubber hoods. 695 gm.

G-500N x G-500N x 152  
Pair 1X **DCEA812** 5U **£17.28**

#### GC-500N

Gran Corpe design, high-quality buffing and anodizing, the central pivot bolt having an Allen-key locknut with a protective black cap. Using the rubber-hooded model 200 racing lever. A very handsome brake indeed. 755 gm.

GC-500N x GC-500N x 200  
Pair 1X **DCEA822** 5U **£27.78**

#### GX-500N

As the G-500N, but with the compact and attractive GX quick-release, tightened brake shoes, and the double-slotted 157 lever. 695 gm.

GX-500N x GX-500N x 157  
Pair 1X **DCEA817** 5U **£20.51**



GX-500N/630N  
As above, but in 630 depth.

GX-630N x GX-630N x 157  
Pair 1X **DCEA819** 5U **£20.51**

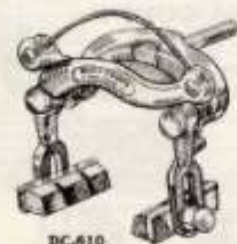




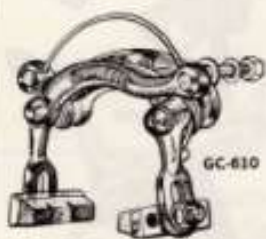
AC-500



AC-300

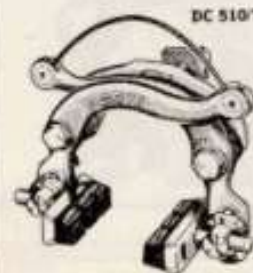


DC-610



GC-610

DIA-COMPE



DC 510/700

## DIA COMPE - continued

### New Gran-Compe 500N

The ultimate in brake design, fully anodized, and with a slimline quick-release on the opposite side to other Dia-Compe models. The exceptional performance is matched by the design, the finish and the pleasing looks and feel of the Gran-Compe 160 levers. 695 gm.



47-57mm

NGC500 x NGC500 x GC160  
Pair 1X **DCE A821** SU **£36-27**

### GC-400N

Based on the GC-500N, with anodised finish and wheel guides, but with the quick-release and cable-pulling arm on the right-hand side. A relatively inexpensive brake set for close-clearance frames. 730 gm.

GC-400N x GC-400N x 202  
Pair 1X **DCE A814** SU **£28-00**

### New Gran-Compe 400

The top model in the 400 depth (short-reach) series, which allows stirrup depths of 40-50mm. Anodised silver, it has a quick-release mechanism on the stirrups, and the brake shoes are fitted with wheel guides. The top-quality NG-C200 lever in the modern vogue comes complete with 202.1 rubber hoods. 690 gm.



40-50mm

NGC400 x 400 x 200 New Gran-Compe  
Pair 1X **DCE A828** SU **£42-51**

### Royal Gran-Compe 400

An aristocrat among racing brakes. Forged light alloy stirrups with 39-49mm depth, brake wheel guides, rubber-clad adjuster and quick-release which can be operated to intermediate positions if required. The exceptionally compact stirrup arms are aerodynamic, as is the chromed head to the centre bolt. With the perforated NGC 202 lever. 670 gm.



RGC-400 x RGC400 x NGC202  
Pair 1X **DCE A815** SU **£49-18**

### AC-500

A budget aerodynamic brake with 48-57mm depth, offered with hooded and perforated 144G levers. Fast looks without a flyaway price. 610 gm.

AC500 x AC500 x 144G Aero-Compe  
Pair 1X **DCE A827** SU **£12-58**

### Aero Gran-Compe 300

Aerodynamics have set the keynote in the design of this most compact side-pull brake, designed for close-clearance machines. The stirrup has a 37mm nominal reach, varied only slightly by raising or lowering the oval-shaped shoes on an eccentric Allen-key fitting. The centre-bolt has an Allen-key fit, too, and is finished off with a conical adjusting nut. The raised portion of the stirrup has minimal projection outside the line of the frame, and for the same reason the quick-release system has been eliminated. The short, rubber-hooded AGC 250 lever provides for the brake-cable to pass straight into the handlebars. Superbly anodised. 610 gm. (pair).



AGC-300 Aero Gran-Compe  
Pair 1X **DCE A829** SU **£45-88**

### AC-300 Aero Compe G

A less expensive version of the AGC 300, but a very similar design with savings made on the polished finish and some of the fittings. With AC 250 levers for concealed cables. 617 gm.

AC-300 Aero Compe G  
Pair 1X **DCE A830** SU **£31-19**

### Alloy brakes - centre-pull

#### DC 610

Basic centre-pull, using drop-forged stirrups with 49-63mm depth, paired with 144 levers. Excellent value for all-round riding. 730 gm.

DC610 x DC610 x 144  
Pair 1X **DCE A831** SU **£12-16**

#### GC 610

Similar 610 stirrup, but with a better finish, quick-release facilities on the

cable hanger and on the 162 lever, which has rubber hoods and cable adjusters. 835 gm.

GC610 x GC610 x GC162 G. Compe  
Pair 1X **DCE A836** SU **£27-65**

#### DC 510/700

The new single of centre-pulls, incorporating a clever stirrup synchronization feature, widely-adjustable brake block position, with the 160G hooded lever. In depths for short or average clearance. 860 gm.

DC510 x DC510 x GC160  
Pair 1X **DCE A833** SU **£21-22**

DC700 x DC700 x GC160  
Pair 1X **DCE A834** SU **£21-39**

### New Gran-Compe 450

One essential requirement of a centre-pull brake is that its actuating arms should pivot freely and without shake. Dia-Compe have produced the ultimate with a new design in which the arms pivot over sealed roller bearings. Wheel guides are incorporated in the shoe clamps and with the shapely hooded 200 lever the ensemble is superbly rigid and virtually frictionless - undoubtedly the most efficient of its type. 740 gm.



NGC 450 New Gran-Compe  
Pair 1X **DCE A839** SU **£47-03**

### Braze-on alloy cantilever brakes

(supplied without levers - specify to choice)

#### DC 960

For ultimate rigidity, there's no beating the braze-on brake. Simple, widely adjustable, powerful. Complete with braze-on fittings. Ideal for touring bikes, tandems, cyclo-cross and light bikes. 320 gm.

DC 960 x DC 960  
Pair 1X **DCE A842** SU **£11-09**

#### DC 980

As DC 960, but with a wider base and consequently increased power. Ideal for tandems or mountain bikes. 320 gm.

DC 980 x DC 980  
Pair 1X **DCE A843** SU **£12-71**

#### DC 981

An economy version of the 980, using wire, and with a single-ended straddle Allen-key pivot bolts. 320 gm.

DC 981 x DC 981  
Pair 1X **DCE A848** SU **£9-93**

**NEW**

**NEW**

## DIA COMPE - continued

### NGC 982

Top-of-the-range extra-leverage cantilever, silver anodised, for tandems or mountains. It has an ingenious eccentric pivot bush which allows the brake arm to be slightly raised or lowered, and thus fine-tune the positioning of the brake blocks. 420 gm.

NGC 982 x NGC 982

Pair 1X DCEA849 5U £19.85

### Cables for cantilever brakes

Set main cables Front & Rear

Set 1X £1.34

1271-330mm straddle cable (for 980)

Each 1X £0.37

1271-250mm straddle cable (980)

Each 1X £0.37

1274-380mm straddle cable (981-982)

Each 1X £0.37

### Brake levers - alloy

#### 131 Junior

Simple lever for straight handlebars. Two-piece handlebar clamp. Easy cable removal. 98 gm. (pair).

131 Junior

Pair 1X DCEA1330 10M £1.95

#### 135 Standard

Another lever for straight bars, but with band clip, and stylish lines. 124 gm. (pair).

135 Standard

Pair 1X DCEA1333 10M £2.49

#### 139 Randonneur

A special lever which mounts either side of the stem handlebar clamp, for those who prefer to ride "on the tops". 132 gm. (pair).

139 Randonneur

Pair 1X DCEA1360 10M £3.20

#### 189 Reverse

For the neat look of concealed cables on straight handlebars of 18mm inside diameter. The bars need to be slotted for cable exit and to firmly locate the plug-in lever. 146 gm. (pair).

189 Reverse

Pair 1X DCEA1382 10M £4.11

#### 165 Safety

Dual-action levers which can be operated from the normal braking position or when riding "on the tops". 262 gm. (pair).

165 Safety

Pair 1X DCEA1350 10M £4.88

#### 144

The basic racing lever, compact and stylish, and among the lightest available. 162 gm. (pair).

144

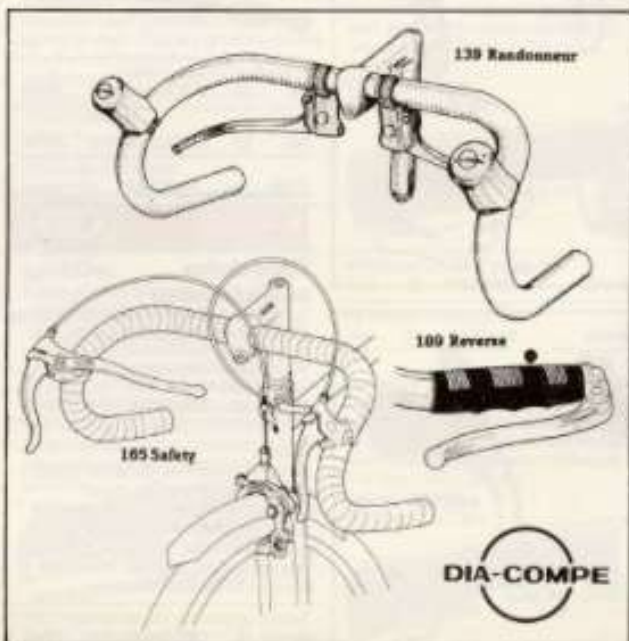
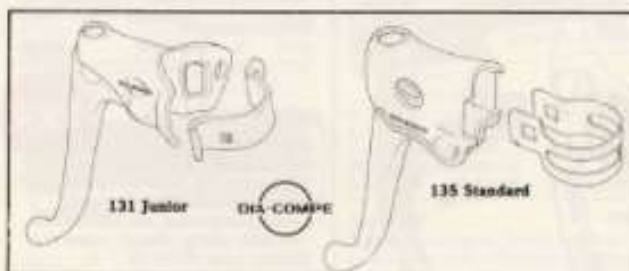
Pair 1X DCEA1335 10M £3.04

#### 157

A better quality racing lever, double slotted, and with a rubber hood. 220 gm. (pair).

157

Pair 1X DCEA1339 10M £6.51



### 204C

A strikingly modern lightweight lever with rubber hood. The lever blade is chevronned for grip.

204C

Pair 1X DCEA1347 10M £4.82

### 144T

Based on the 144 lever with rubber hoods, but specially for tandems, trike riders, or anyone requiring one lever to operate two brakes. The set comprises a standard 144 lever plus another to take a special twin cable together with one twin cable (inner and outer) and a single cable. The cables supplied are the self-lubricating "Superliner" model. 260 gm. (pair).

144T Tandem (including cables)

Set 1X DCEA1331 10M £8.39

Set of 3 inner cables for 144T

Set 1X DCEA1332 £2.00

### GC 160

Gran Compe lever, with double perforations, rubber hoods, and a useful adjuster on top of the lever hood. 260 gm. (pair).

GC 160 Gran Compe

Pair 1X DCEA1340 10M £6.75

### NGC 202

Top-of-the-range lever, with a double row of slots. The lever is satin finished and anodised, and comes complete with rubber hood. 196 gm. (pair).

NGC 202

Pair 1X DCEA1344 10M £9.56

### AGC 250H

Aerodynamic lever, satin finished and anodised with slotted blade and provision for concealed cables. Complete with rubber hood. 224 gm. (pair).

AGC 250H Aero

Pair 1X DCEA1353 10M £9.38

### Mountain bike levers - alloy

These are for straight bars, and are similar to motorcycle levers - very long and designed for extra leverage. They come complete with heavy-duty main cables.

#### 280

Standard model

280

Pair 1X DCEA844 10M £8.83

#### 281

Economy model

281

Pair 1X DCEA854 10M £7.97

#### NGC 280

Luxury model

NGC 280

Pair 1X DCEA855 10M £11.00

### Brake lever hoods

#### 144.7H

Suits lever 144, 144G, 151, 152, 157

144.7H Compe G

Pair 1X DCEA1410 £1.63

#### GC 202.1

Suits levers 200, 202

GC202.1 New Gran Compe

Pair 1X DCEA1415 £2.46



## DIA COMPE - continued

### AGC 252.1

Suits levers 250, 250H

252.1 Aero Gran Compe  
Pair 1X **DCE A1420** £2-44

### GC 162.3/4

Complete with rubber hood for adjuster. Suits levers 160, 162

GC 162.3/4 Gran Compe  
Pair 1X **DCE A1422** £2-44

## Brake blocks & shoes

### GC 77N

Fit most side-pull and centre-pull brakes

GC 77N Gran Compe  
Each 1X **DCE A863** £0-56

### 450.11

Pin-type for centre-pull brakes

450.11 Gran Compe  
Each 1X **DCE A885** £0-63

### AGC-78

Fit Aero brakes

AGC 78 Aero Gran Compe  
Each 1X **DCE A867** £1-92

### 980.11

For mountain bike/tandem brakes

980.11 Mountain  
Set 4 1X **DCE A868** £2-79

### 960.11

For cantilever brakes

960.11 Cantilever  
Set 4 1X **DCE A869** £1-50

## Brake cables

### Superliner

Extra-special cables which are self-lubricating, thanks to a vinyl tube between the cable and the outer casing. Supplied as sets of front and rear, with casing of black, white or metallic silver.



Superliner - black or white  
Set 1B **DCE A1246 10M** £1-95

silver  
Set 1B **DCE A1246 10M** £2-22

## D.I.D.



## Cycle chains

### Standard derailleur

Tough 3/32" chain for use with all kinds of standard width derailleur blocks. Blued finish.

1/2 x 3/32" x 114 link  
Each 1C **DIDA1904 30M** £2-22

### Lammer

A slightly narrower derailleur chain using the patented Dai-Hard hardening treatment. The outer link plates are shaped for quicker and quieter changes. The chain plates are thinner and thus lighter. Finish is silver and blued steel.

Lammer special 1/2 x 3/32" x 114 link  
Each 1C **DIDA1938 30M** £7-62

## ECLIPSE



Now available in the UK, the Eclipse range of touring accessories from the USA is acknowledged design and performance leader in North America. Utilising proven concepts in technology, Eclipse sets the measure for quality and performance in touring racks and luggage.

Fabrics are canvas-weave Cordura nylon or Oxford-weave nylon. Both are coated with polyurethane for moisture resistance. Zippers are YKK nylon coil with twin slides, covered by flaps for protection from moisture and abrasion. Sewing and construction are of superior quality.

## Handlebar packs

Each Eclipse Handlebar pack includes:

Spacious main compartment 254 x 126 x 203 cm, 7.4 litres.

Steel support frame with epoxy coating to protect handlebars, fits any stem except those under 6 cm extension and those with bar clamp width over 132mm.

Elastic shock cords which fix around fork ends or to fork end cutouts or eyelets.

Detachable mapcase with twin, double-sided compartments. Total map viewing space over 1200 sq. cm. (Spare mapcase EBT A225).

D-rings for attachment of optional shoulder strap (strap included with Professional model).

Removable polyliner for protection of contents and shape reinforcement.

## Nomad

A great value for short tours or commuting. The Nomad incorporates the Eclipse Basic Features, plus durable mesh slip pockets on both sides, in red Oxford nylon. Volume 7.4 litres. 511 gm.



'Nomad' Handlebar pack including mapcase

Each 1X **HBT A212** £20-65

## Standard

A sophisticated bar bag for the tourist on a budget. The Standard has the Eclipse Basic Features, plus one large outside zip-pocket, inside slip divider for maps, wallet, keys, etc., supplementary Velcro tab for quick closure, in orange or blue Cordura nylon. Volume 8.9 litres. 586 gm.

# ACCESSORIES

**Ron  
KITCHING**

## Professional touring rack

The most evolved luggage rack available. Added to the Basic Eclipse Rack Features the Professional has a truss-like strut load support. Mountings for brake bolt or seat stay. Eyelets for mounting of mudguards. 600 gm.



Professional touring rack (seat stay fitting)  
Each 1X **EBT A275** £24.28

Professional touring rack (brake bolt fitting)  
Each 1X **EBT A276** £24.28

## Nomad commuter rack

The lightest of Eclipse rear racks, the Nomad includes all the Basic Eclipse Rack Features in a more economical form. It mounts to the seat stays and offers very good strength and rigidity thanks to the Eclipse welded, rather than riveted, construction. 500 gm.



Nomad commuter rack  
Each 1X **EBT A281** £14.94

## Front touring racks

Partner to Eclipse rear racks, the front version offers Basic Eclipse Rack Features and a flared mounting rail to clear side pull brakes and the fork crown. Support struts are a single rod bent through ferrules welded under the chassis. The snug rod-to-ferrule fit gives excellent lateral anti-sway yet enough rod rotation to prevent damped fork blade flex common to front racks.



Front touring rack  
Each 1X **EBT A284** £18.68

## Rack adaption kits

Two types of fitting allow addition of Side Mount pannier channel to non-Eclipse racks.



**Bolt On Adaptor** clamps to Blackburn style luggage racks.

Bolt-on adaptor kit  
Each 1X **EBT A290** £3.74

**Strap On Adaptor** buckles to any conventional luggage rack.

Strap-on adaptor kit  
Each 1X **EBT A287** £3.74

**D-ring Kit**, four steel loops which bolt into Eclipse rack chassis providing points down straps, or the Rac-Pac. Hardware is included.

D'Ring kit  
Each 1X **EBT A293** £1.49

**ENUMA**

**ENUMA**

## Golden Grand chain

A top-quality derailleur chain with smaller outer links coloured gold, and black inner links which are slotted for lightness.

'Golden Grand' 1/2 x 3/32" x 116 link  
Each 1C **EA A1900** 10U £5.22

**EQUIPE**

**NEW**

**EQUIPE**

## Spokes

A range of utterly reliable spokes in a wide range of sizes and available in rustless, chrome-plated or stainless steel, with nickel-plated brass nipples.

**Chrome-plated** (double butted) For sheer good looks in ideal conditions, chrome-plated spokes are unparalleled. But on some chrome-plated spokes the finish cracks easily, especially where spokes bend, and there are problems with breakages in the centre of the lightened section. Which is why our double-butted spokes have a gently-tapered transition into the butt, and are slightly thicker at 15.5 gauge (instead of 16 gauge) at the thinnest point. In addition the chroming is

such that it will not crack until bent at an extreme angle, a factor which keeps them looking top-class for longer. In red boxes of 100.

Chrome-plated 14/15 5/14g  
100 1X **BQE A7550** SU £9.77

**Stainless steel** (double-butted) This is the choice for a great finish which is easily maintained in all weathers, and many top builders would use nothing else for racing wheels. Ultimately, only rustless steel spokes are stronger. In double butted 14/16/14 gauge. In blue boxes of 100.

Stainless steel 14/16/14g  
100 1X **BQE A7510** SU £9.31

## Rustless

The spokes for all-round purposes. Rustless galvanised spokes can be used for every kind of bicycle. In plain 14 gauge. In green boxes of 100.

Rustless 14g  
100 1X **BQE A7520** SU £2.99

**FAG**

**FAG**

## Bottom bracket unit

Sealed bottom bracket sets can be within everyone's price range now, thanks to a major innovation by FAG Kugelfischer, makers of the acclaimed Nadax sealed bracket unit. The unit fits conventional screwed bracket shells. It comes in two pieces, a right-hand cup/sleeve which is first screwed in, and the remainder of the unit which screws in from the other side.

Once inserted, the unit works on manufacturer-adjusted clearances. No adjustment is needed, and it is greased for life, so is maintenance free.

The flanged sleeves are made of glass-fibre reinforced polyamide, which is also used to cage the deep-groove ball bearings. The corrosion resistant axle has a tapered square seat for cotterless cranks, and a cottered unit is also available if required. Axle length is 119mm, suitable for almost every sports machine. 280 gm.



**NEW**

Cotterless - 119mm axle English thread  
Each 1C **FAG A769** SU £6.86

Cottered - 115mm axle English thread  
Each 1C **FAG A770** SU £6.86

S64414 fitting tool  
Each 1B **FAG A796** SU £6.94

**FAST NO-STOP**

**FAST NO-STOP**

## Instant puncture treatment

"The spare wheel in the can" sounds almost too good to be true, but the Fast aerosol will seal most punctured tyres of all types without harm to the tube or fabric. The 95cc 'bomb' has a connector fit to Presta valves and sufficient capacity to inflate at least

two tyres, sometimes four with careful handling. The cylinder is 32mm diameter and 145mm long. It can be clipped to the bicycle in a special plastic holder if required. Available also for Schrader valves. 95 gm (with holder, 135 gm).



Presta valve model  
Each 1B **NPT A4620** 10U £1.60

Schrader valve model  
Each 1B **NPT A4623** 10U £1.60

Holder for above  
Each 1B **NPT A4630** 10U £0.79

**FLAMME**

**FLAMME**

## Dural sprint rims

**Bussola**  
Tough 21mm road racing or training rim with double eyelets, spoked 28/32/36/40. Polished finish. 360 gm.

1 'Bussola'  
Pair 1B **FE A6360** £11.58

## Egal

Light rim for time trialling, pursuit or special road racing. 20-5mm wide, double eyelets, polished finish. Spoked 28/36. 280 gm.

0/1 'Egal'  
Pair 1B **FE A6375** £31.09

## 'Hard Silver'

A versatile road rim, similar to the Bussola but with the advantage of a hard anodising treatment. Spoked 28/36. 360 gm.

21 'Hard Silver'  
Pair 1B **FE A6377** £29.17

## Dural wired-on rims

### Type 71

Traditional alloy HP rim, available in 32/36/40 spokes. 520 gm.

71 27 x 1 1/4" H.P.  
Pair 1B **FE A6380** £11.33

**FIVE RAMS**

**FIVE RAMS**

## Cycle chain

A thoroughly reliable 1/2" chain for use on standard bicycles without multiple freewheels.

1/2" x 1/4" x 114 link  
Each 1C **FRS A1915** 10U £1.44

## BERNARD HINAULT



### Toeclip covers

Six ounces of tough, flexible plastic, 2mm thick and shaped like the front halves of orthodox overshoes with extended tongue provide ample foot protection against rain, snow and mud. They fit snugly over toe clips and are held by toe straps passing through slots at the rear, and by the pedal ears or an extra strap through slots at the front. Finished in a high-gloss black and with 'Bernard Hinault' in yellow lettering along the sides, they are an elegant solution to problems of cold, wet feet - and dirty shoes.



Toe clip covers  
Pair 1X **HYA8110** £4-10

## IDEALE



### Saddles

#### 88 Special Competition

A superb leather racing saddle, softened by hand, and with large copper rivets. Extra-supple leather is used, treated by slow tanning. Chrome frame. 735 gm.



88  
Each 1A **IEA6622** 10M **£22-70**

#### 90CR Special Competition

As model 88, but with deeper saddle wires more suited to leisure riding, and with the zinc-plated No. 3 saddle clips which is widely adjustable and has a loop for a cape-roll strap. 700 gm.



90CR  
Each 1A **IEA6650** 10M **£16-80**

#### 90IR Special Competition

Reckoned the lightest leather saddle in the world, thanks to its duralumin frame and fittings, and one of the most luxurious because of the hand-softening. Based on the 90CR. With No. 4 duralumin clip. 500 gm.

90IR  
Each 1A **IEA6665** £21-39

### 2000

Rilsan saddle top in modern style, complete with No. 2 clip. 450 gm.



2000  
Each 1A **IEA6720** 10M **£4-37**

### 2002

As model 2000, but with Latex foam padding and a leather covering. 560 gm.



2002  
Each 1A **IEA6730** 10M **£16-99**

### 2003A

As 2002, but with all-chrome frame and special hide top. 560 gm.

2003A  
Each 1A **IEA6735** 10M **£18-00**

### 2002 Titanium

As 2002, but with a titanium frame and without a clip. 325 gm.

2002 Titanium  
Each 1A **IEA6756** 10M **£27-00**

### 2003A Titanium

As 2003A, but with a titanium frame and without a clip. 305 gm.

2003A Titanium  
Each 1A **IEA6757** 10M **£28-06**

## IZUMI



### Chains

Izumi is the world's largest chain manufacturer, producing not only standard cycle chains but also others for specialist cycling purposes.

#### Special track

Silver/black finish, 1/2" x 1/8", 110 link with screwed connecting link. Surface-hardened chrome-moly rivets.



110 link x 1/8" - black/silver  
Each 1C **IZIA1901** 10U **£9-52**

### Standard

Izumi quality on standard blued finish, either 1/8" or 3/32".

114 link x 1/8" Standard blued  
Each 1C **IZIA1903** 10U **£2-40**

116 link x 3/32" Standard blued  
Each 1C **IZIA1928** 10U **£2-58**

### Nickel-plated

A superb silver finish created by coating the link plates with nickel, for good looks and corrosion resistance. For use on standard-width freewheels and derailleurs.

116 link x 3/32" - Nickel plated  
Each 1C **IZIA1951** 10U **£5-70**

### Sigma special derailleur

One step up from a standard derailleur chain. The rivets use special carbide steel for durability, and inner and outer links are chamfered to give smoother gear changing. You owe it to yourself to feel the difference. Silver/black.

114 link x 3/32" Sigma silver/black  
Each 1C **IZIA1954** 10U **£4-48**

### GP All-Golden

A fabulous-looking derailleur chain completely coated with brass. Sheer luxury in links.

116 link x 1/8" GP  
Each 1C **IZIA1957** 10U **£6-56**

### Izumi VI

As the Sigma in construction, but with special narrow external dimensions for use with compact six and seven-speed freewheels. Fits standard freewheels too! Silver/black.

116 link x 3/32" Izumi VI  
Each 1B **IZIA1961** 10U **£6-34**

## JAGUAR



### Saddles

#### Comfort

Shaped for comfort, with two raised densely-padded areas for ischial support. Nylon base, foam padding, leather covering. Complete with saddlebag loops - an extra feature for the leisure rider. 390 gm.

77 MAD-X 'Comfort'  
Each 1B **JRA6791** 5M **£13-19**

#### Comfort W

As above, but with a shorter 'nose' and wider at the rear, aimed at lady riders. 320 gm.

81L-APDX 'Comfort W' in leather extra width  
Each 1B **JRA6793** 5M **£13-49**

### Comfort Reserve

As the Comfort model, but with imitation leather covering. 400 gm.

77 CPD-X 'Comfort Reserve'  
Each 1B **JRA6795** 5M **£8-24**



Comfort



## JRAS



### Blinker set

Directional blinker lamp set - two U2 type battery operated with two front and two rear lamps in amber. Universal frame tube fitting battery holder. Complete but less batteries. 310 gm.



400 Blinker lamp set - directional indicators  
Set 1C **JSA6530** 10U **£6-92**

## K & H



### Ball bearings

W"  
Gross 1C **KHA380** 20M **£0-34**

3/8"  
Gross 1C **KHA381** 20M **£0-46**

1/2"  
Gross 1C **KHA382** 20M **£0-62**

1/4"  
Gross 1C **KHA383** 20M **£1-06**

## KT



### Ball retainers

Caged ball bearing to fit headset such as Millremo Special, Tange New Levin, and others of similar dimensions.

16 x 5/8" head face  
Each 1C **KTA390** 240U **£0-10**

## KRYPTONITE



### Shackle locks

#### K-4

Top quality bicycles need top-quality locks, and the Kryptonite® K-4 is designed to stop even the most determined thief. Using high-strength alloy steel specially heat-treated, the U-shaped shackle is large enough to attach a machine by seat-tube and rear wheel to a secure post or fence, then locking at both ends to a crossbar. This double locking point means the K-4 is easy to fix, open and close. Breaking it open is a different matter, thanks to the high-quality seven-pin locking mechanism with a lock coding exclusive to Kryptonite®. The lock is for treasured bicycles, and the K-4's vinyl coating treasures finishing, too. The K-4 can be carried underneath a saddle, in a saddlebag, or securely fixed to a special seat-tube bracket (illustrated). Hacksaws and massive bolt-cutters have failed to break the K-4.

**£250 guarantee against bicycle theft.**



Locking Mechanism: 7 Pin Ace Tubular Keyway

Material: High strength armor steel, fully hardened. 120,000 psi

Finish: Fully plated to prevent rust. Coated with .060 PVC to prevent marking.

Shackle will fit around poles up to 10 cm in diameter (inside shackle dimensions 216 x 102mm)

935 gm.

K4 Bike Lock  
Each 1X **KTE AS145 SU £21-41**

#### K-4LS

As the K4, but with increased dimensions, possibly for securing two bicycles at a time. Inside dimensions 292 x 102mm. 1070 gm.

K4-LS Bike lock - long shackle  
Each 1X **KTE AS146 SU £23-73**

#### K-4 Mini

For those who believe the other models are too bulky, this model is compact enough (127 x 76mm) to slide into a back pocket, but still big enough to shackle a frame to a post. 675 gm.

K-4 Mini  
Each 1X **KTE S140 SU £19-76**

#### Megalock B.M.X.

Similar to the K-4 in size and construction, but also available red, blue or grey. 935 gm.

Megalock B.M.X. - in colours  
Each 1X **KTE AS142 SU £19-76**

#### ALL THE ABOVE LOCKS HAVE A £250 GUARANTEE AGAINST CYCLE THEFT.

#### Megalock

Based on the K-4 in dimensions and operation, the Megalock comes in a grey vinyl covering and is less expensive only because it uses a quality flat-key mechanism instead of a tubular one. It carries a £100 guarantee. 935 gm.

Megalock  
Each 1X **KTE AS144 SU £17-13**

#### Carrying brackets

Our unique carrying bracket is not only more durable, it holds the lock in place more effectively than any other bracket on the market.

It comes in two versions, the standard wing-nut K4 CB, or the quick-release K4 CBQR.

K4 CB  
Each 1X **KTE AS150 10U £1-89**

K4 CBQR  
Each 1X **KTE AS155 10U £3-13**

## LASWISS



### Saddle cover

Saddle life is longer if one of these inexpensive covers is used whenever bicycles are left out in the elements or is transported on a car roof rack. An elasticated edging ensures a snug fit over sports saddles. Available in fluorescent orange-white, red/white, and blue/white showerproof nylon.



Saddle cover  
Each 1A **LS A6808 £0-90**

## LIGHTTRACE



### Bottom bracket

#### TTS Super

The axle of the Gourgand cotterless BB set is a drop-forging with polished ball-tracks and to the usual dimensions except that the difference in the two ends from ball-track to tip of axle is a mere 1mm, making it

virtually reversible. The squared-taper section is longer than usual at 21-22mm. Cups have polished tracks, the fixed one with two flats for a 35mm tool and the adjustable cup with a 24mm hexagon and a four-notch locking ring. Axle bolts have 16mm heads, and ball retainers are included. 330 gm.



TTS Super  
Set 1B **LE A765 SU £5-19**

Axle only  
Each 1B **LE A780 SU £2-06**

### Headset

#### TTS Super Lighttrace

Lighttrace components have long been esteemed for quality and finish, and the new 'Super' headset can only enhance their reputation. Ground and polished races accommodate 1/8" steel balls in caged races. A deeply-seamed washer locks the adjustable top-race and a sturdy octagonal locknut completes the ensemble. The polished chromium-plate will complete the most impeccable finish - at a surprisingly moderate price. 175 gm.



TTS Super Lighttrace with ball races  
Set 1B **LE A4467 20M £4-66**

## LION



### Tubular tyre bag

A smart zip-ended bag in stout nylon fabric. A corded nylon strap with locking buckle holds the bag securely to seat pillar or saddle wires and there is a smaller zipped extra pocket. 50 gm.



Tubular tyre bag  
Each 1B **LN A8830 10U £3-70**

## LYOTARD



### Pedals

#### 36

Double-sided steel rat-trap, 90mm wide.

36  
Pair 1B **LD A5610 25M £2-80**

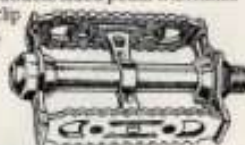
#### 136R

Double-sided steel sports pedal with reflectors.

136R  
Pair 1B **LD A5615 25M £2-80**

#### 460A

Racing double sided pedal with holes for toeclip screws.



460A Double sided  
Pair 1B **LD A5620 25M £3-11**

#### 82

Superb value light-alloy quill pedal, based on a one-piece cast frame.

82  
Pair 1B **LD A5622 25M £6-33**

#### 23AL

The classic platform pedal giving more support to the foot and a greater area on which the leg power operates. With long thread for alloy cranks.



23AL  
Pair 1B **LD A5625 25M £6-48**

#### 45A

Steel quill pedal with alloy outer plate.

45A  
Pair 1B **LD A5630 25M £5-64**

## MARUICHI



### Kickstand

#### Durat-7

Bolted to the nearside chain and seat stays, the specially-shaped fixing plate does not interfere with wheel removal. The rod is 10.5mm diameter - and the holding spring is covered in black/orange vinyl. Made in light alloy, for 27-inch wheels.



Durat-7  
Each 1X **MI A7755 £8-18**

**MAVIC**



### Dural sprint rims

#### Montlhéry Route

Workmanlike rim for all kinds of racing and training. Polished, with double eyelets, drilled 36, 21.5mm wide. 420 gm.

Montlhéry Route  
Pair 1B **MVC A631510M £10-90**

#### Montlhéry Pro

Lighter all-round rim, based on the Route, but 20mm wide. Drilled 32/36. 395 gm.

Montlhéry Pro  
Pair 1B **MVC A632010M £12-05**

#### Argent 10

Lightweight 20mm rim, silver anodised for greater surface hardness and easier upkeep. Double eyelets, spaced 28/32/36. 310 gm.

Argent 10  
Pair 1B **MVC A632210M £10-42**

#### GP4

Grey rim, coloured by hard-layer oxidation, which greatly increases the rigidity. Double eyelets, drilled 28/32/36, 20mm wide. For demanding conditions.

GP4  
Pair 1B **MVC A633310M £27-32**

#### CX 18

Another hardened grey rim with an 18mm section, suitable for track or time trials, and for use with tubulars 18 20mm wide. Extremely rigid. Double eyelets, drilled 28/32/36. 300 gm.

CX 18  
Pair 1B **MVC A633610M £67-94**

#### GEL 280

An extra-light version of the GP4, thanks to the use of lighter-gauge material. Drilled 28/32/36. 280 gm.

GEL 280  
Pair 1B **MVC A633410M £37-73**

#### Blue 'Spéciale Service des Courses'

A top-quality de luxe rim for racing in the toughest conditions, and used by professional teams. Extra hardness through deep anodisation. 20mm wide, double eyelets, drilled 36. 395 gm.

Blue 'Spéciale Service'  
Pair 1X **MVC A634010M £102-66**

### Dural HP rims

#### E2

A 19.6mm rim for tyres 20 to 25mm wide, for touring, club riding, even racing. Polished, double eyelets, drilled 36. In 27" or 700C. 430 gm.

'E2' 27"  
Pair 1B **MVC A635010M £14-18**

#### E2-700C

Pair 1B **MVC A635510M £14-18**

#### G40

Similar in dimensions and construction to the E2, but with the same hardening treatment as the GP4 sprint, and consequent grey colour. It can be used with the lightest HP tyres for training or even racing. Drilled 36, and available in 27" or 700C. 430 gm.

G40 27"  
Pair 1B **MVC A636010M £29-86**

G40 700C  
Pair 1B **MVC A636310M £29-86**

#### Module 3D

A 22mm rim for the tourist using tyres 25 to 28mm wide. Silver anodised for easy upkeep and extra hardness. Double eyelets, spaced 36/40. In 27" and 700C. 530 gm.

Module 3D 27"  
Pair 1B **MVC A637010M £19-28**

#### Module 3D 700C

Pair 1B **MVC A637310M £19-28**

#### Module 4

As the 3D, but 26mm wide, for tyres of 28 to 35mm width. Heavy-duty touring, camping, tandems. Spoked 36/40 in 27" and 700C, plus 36 in 650B diameter. 550 gm.

Module 4 27"  
Pair 1B **MVC A636910M £18-82**

Module 4 700C  
Pair 1B **MVC A636610M £18-82**

Module 4 650B  
Pair 1B **MVC A636710M £18-82**

#### All rims

Extra for drillings 24-28 or 32  
Pair 1B **£0-59**

Extra for drillings 40 hole  
Pair 1B **£1-04**

#### MAXI-CAR



### Tandem hubs

Light alloy added flange allowing a symmetric disposition of the spokes. This system avoids the ovalization of the drum coming from the difference of tension of the spokes, a steel drum which ensures a safe and efficient braking, no heating of the rim which may induce the bursting of the inner tube of the tyre - available in 5 or 6-speed versions, 36 or 40-hole.



Front standard  
Each 1X **MCR A4650 £33-22**

Rear standard  
Each 1X **MCR A4651 £36-30**

Rear with hub brake  
Each 1X **MCR A4655 £76-62**

Spare brake pads  
Pair 1X **MCR A4670 £5-34**

#### MILLER



Battery lighting set  
Set 1X **MLR A2400 £5-30**

Dynamo sets  
531-101-600 model 10  
Set 1X **MLR A2403 £6-55**

53-03-600 model 3  
Set 1X **MLR A2409 £5-57**

Dynamo bulbs  
6v-05  
Each 1X **MLR A2445 £0-27**

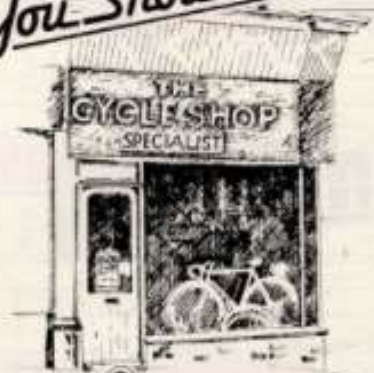
6v-01  
Each 1X **MLR A2446 £2-27**

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3. In cases of difficulty, contact us for the name of your nearest dealer.



This is not a mail order catalogue. Mail order companies cannot give the personal and unbiased services of a specialist cycle dealer.

MILREMO



## 'Club' bag support

A chrome-plated steel wire support which when fitted to the saddle clip bolt makes a rigid platform for the saddlebag.



Club  
Each 1C **MOA308** 10U **£0-76**

## Bottles

Ask for the bottle with the Milremo badge and you will be buying the best. Made in superior pearl white non-odour plastic, this bottle will stand enormous pressure and take hot or cold liquids. Two models are available - both ribbed for easy handling and to fit snugly into cages.

### Tour de France

This model now has the famous double seal ratchet cap with centre hole plugged. This plug can be removed by one's teeth and the liquid contents easily squeezed out without removing the cap. The cap is fitted with an extended lip for easy removal and is held by a hinged attachment loop. Available with the famous Milremo badge in three colours. 62 gm.

Tour de France  
Each 1C **MOA350** 20U **£1-20**

### Giro d'Italia

The 'Giro' bottle has non-slip finger grips on either side of the Milremo badge and a pop-up stopper in the cap. The cap itself is 'tied' to the bottle and a hygienic feature is the absence of any ridge or obstruction inside the neck, allowing easy clearing. 62 gm.

Giro d'Italia  
Each 1C **MOA355** 20U **£0-70**

## Thermic

Patented unbreakable white plastic bottle specially insulated to conserve the liquid contents, temperature either hot or cold. 250 cc hygienic container made by Kostal is surrounded by lagging and the top sealed by a thumb push hermetically sealed cap. To obtain the best results warm (or cool) in advance the inside of the Thermic Bottle with warm (or cold) water. Milremo badged. 142 gm.

Thermic insulated  
Each 1C **MOA560** 20U **£2-24**

## Cimatti

Thanks to the Cimatti patented attachment, this bottle dispenses with the conventional bottle cage or holder so saving not only weight but also the problems of clearing, etc. Fitment to the cycle is simple - just slide the bottle so that the recessed 3" long slot locates over the two studs fixed to the cycle frame down tube. The bottle itself is modern in shape and safe to hold and due to the conical base can be slipped easily into the back jersey pocket. A strong cap with drinking hole and removable cork both firmly located by loops attached round the bottle neck. Frame attachments either with two brazed on studs or with a single clip. 92 gm.

Cimatti - bottle only  
Each 1C **MOA563** 20U **£0-79**

Cimatti - bottle with fixing clip  
Each 1C **MOA565** 20U **£1-96**

Cimatti bottle brace-on fittings  
Each 1C **MOA566** 20U **£1-50**

## Brake cable clips

Another Milremo innovation. Made in the strongest plastic, this clip has been designed to dispense with the usual nut and bolt fixing. Held in place firmly by interlocking lips, it can be both fitted or removed without any difficulty. Ultra light and rustless, it cannot damage either cable or frame enamel.

1 1/2" dia. loop at side  
Each 1C **MOA955** **£0-13**

3/4" dia. loop at top  
Each 1C **MOA960** **£0-13**



## Brake inner wires

### Front brake

Standard Ballifa Pear/Open 70 cm

CLB Dia Coupe Galbi-Mafac Shimano-Sun Tour Universal-Zeuss  
Each 1C **MOA1100** **£0-16**

G.B. Pear/Open 77 cm  
Each 1C **MOA1105** **£0-16**

Weinmann Barrel/Open 65 cm  
Each 1C **MOA1110** **£0-20**

Rear brake

Standard Ballifa Pear/Open 135 cm

CLB Dia Coupe Galbi-Mafac Shimano-Sun Tour Universal-Zeuss  
Each 1C **MOA1115** **£0-20**

Weinmann Barrel/Open 140 cm  
Each 1C **MOA1125** **£0-28**

Tandem Pear/Open 225 cm  
Each 1C **MOA1130** **£0-30**

Straddle

Mafac Racer Round/Open 13 cm

Each 1C **MOA1135** **£0-16**

Mafac-Criterium Round/Open 19 cm  
Each 1C **MOA1140** **£0-16**

Jachy-Tandem Pear/Pear 15 cm  
2000 'Competition'  
Each 1C **MOA1145** **£0-16**

Universal 61 Ballifa Barrel/Barrel 10 cm  
Each 1C **MOA1150** **£0-16**

Weinmann 999 Barrel/Barrel 14 cm  
999 Dia-Coupe  
Each 1C **MOA1155** **£0-16**

Zeuss Barrel/Barrel 9 cm  
'Super Alfa' 2000  
Each 1C **MOA1160** **£0-16**

Brake cable casing

Europ Best quality ribbed plastic covered outer casing. Choice of colours: Red, black, white, yellow, green, blue and silver. In 20 metre rolls.

Europ 60 ft. (20 m) rolls in 7 colours  
Each 1C **MOA1200** 10U **£4-44**

## Chain wheels, chrome-plated

Single

No. 2003 3-arm 1/2" x 1/4", sizes 48, 49, 50, 52  
Each 1C **MOA1600** **£1-84**

Double

No. CTV23 3-arm 1/2" x 1/4", outer 50, inner 40  
Each 1C **MOA1650** **£4-04**

No. CTV25 5-pin 1/2" x 1/4" 45-50 or 42-52  
Each 1C **MOA1655** **£4-04**

## Cotter pins

Stem chrome (continental size) with plain nut

Each 1C **MOA2200** **£0-12**

## Dynamo headlamps (with bracket)

### Comet

Round design made from top quality chrome plated brass. 2 1/2" diameter curved grooved glass fitted into lamp front with shaped vnaor. The single 6v. 3-03 watt bulb makes contact with a strong current strip which is firmly fastened to the headlamp body allowing the cable to fit to a small screwed stud on the outside of the lamp body. No internal wires, all fully insulated direct contacts. Easy bulb replacement. Supplied complete with lamp bracket fixing clip. 126 gm.

Comet  
Each 1C **MOA2400** **£2-50**



## Dynamo only (with bracket)

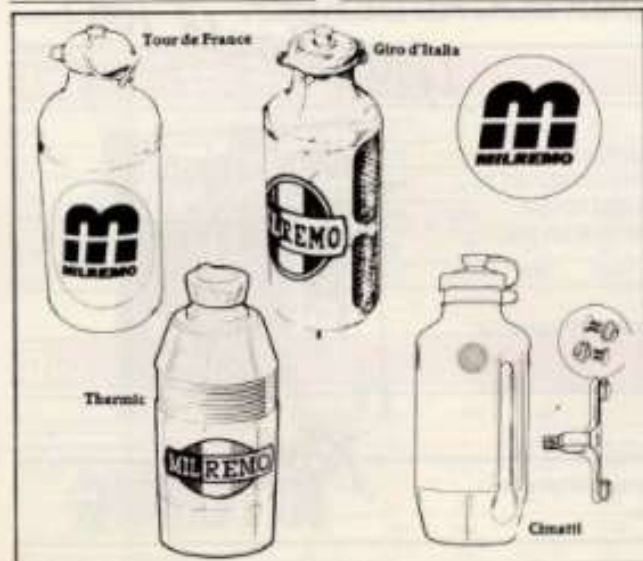
Comet chrome 6v/3w 8 poles  
Each 1C **MOA2410** **£2-76**

'Meteor' alloy 6v/3w 8 poles  
Each 1C **MOA2415** **£2-44**

## Dynamo rear lamp

Stay fitting BS 364B approved with fixing bracket

Each 1C **MOA2420** **£1-20**





# ACCESSORIES

**Ron  
KITTING**

## MILREMO - continued

### Head fittings

#### Special

A chromed steel set of excellent quality at a reasonable price, with a knurled adjusting race. A welcome feature are the caged ball bearings. 197 gm.

Special Set 1B **MO A4405 10U £2-00**

#### Classic de Luxe

Top quality head set made in finest quality chrome steel. Octagonal top races and locknut. 140 gm.



Classic de Luxe Set 1B **MO A4410 10U £2-50**

### Hubs - small flange, solid spindle

#### Champion

Made in heat treated highly polished duralumin, these are the most popular lightweight non quick-release hubs in use today. Available SS/Gear or DS/Gear/Fixed with drillings. Front 32/36 Rear 36/40 395 gm (pair).



Front Each 1B **MO A4600 £1-67**

Rear SS/G Each 1B **MO A4601 £2-51**

Rear DS/GF Each 1B **MO A4602 £2-04**

Pair SS/G Pair 1B **MO A4603 10U £4-39**

Pair DS/GF Pair 1B **MO A4604 10U £4-61**

### Hubs - small flange, quick-release

#### Super Champion

Top quality quick release hub similar to Champion but fitted with hollow axles incorporating a trouble-free quick-release mechanism.

SS/Gear only with drillings. 36/36. 572 gm.

Front Each 1B **MO A4610 £5-42**

Rear SS/G Each 1B **MO A4611 £6-25**

Pair 1B **MO A4612 10U £11-96**

### Professional Road

Forged duralumin. Free running bearings with black dust covers and quick-release covers. SS/G only. Drillings 24/28/32/36. 519 gm.

Professional Road SS/G Pair 1B **MO A4632 10U £29-90**

### Hubs - large flange solid spindle

#### Sport

The most popular large flange non quick-release hub available. Made in heat-treated duralumin offering lightness with durability. Highly polished flanges with elongated cut-outs, with a choice of three threadings. SS/Gear, DS/Gear/Fixed Drillings: Front 32/36 Rear 36/40. 472 gm.

Sport Front Each 1B **MO A4650 £2-33**

Rear SS/G Each 1B **MO A4651 £3-06**

Rear DS/GF Each 1B **MO A4652 £3-49**

Pair SS/G Pair 1B **MO A4653 10U £5-59**

Pair DS/GF Pair 1B **MO A4654 10U £6-62**

### Professional Track

As Pro road model with solid spindles. Fixed only. Drillings: 24/28/32/36. 470 gm.

Professional Track SS/G Pair 1B **MO A4662 10U £32-96**

### Hubs - large flange, quick-release

#### Super Sport

Similar to 'Sport' but fitted with quick release hollow axle and mechanism. Drillings: Front 32/36 Rear 36/40 619 gm.

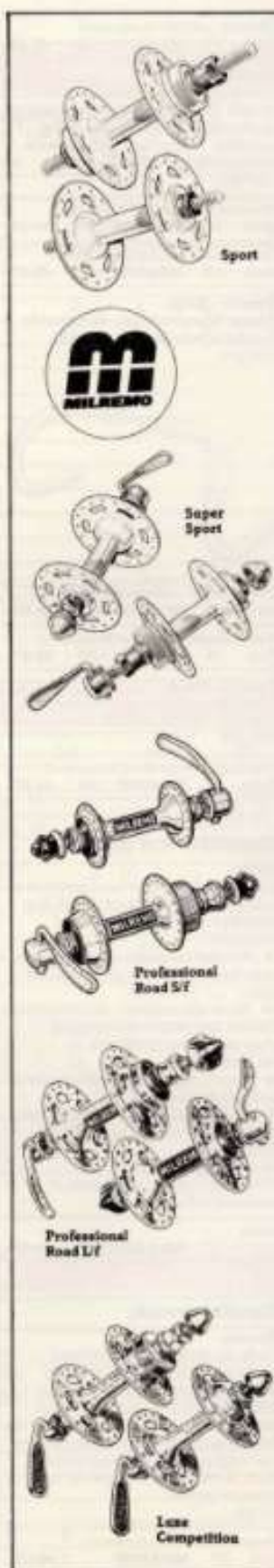
'Super Sport' Front Each 1B **MO A4670 £5-96**

Rear SS/G Each 1B **MO A4671 £6-61**

Pair SS/G Pair 1B **MO A4672 10U £12-77**

### Luxe Competition

Made in heat treated alloy with all bearing surfaces processed in the most modern way. The high precision machining resulting in perfectly smooth running. Curved slotted flanges, one piece shell, slim smooth lines, all make this quick-release hub



the first choice for top racing machines. SS/Gear only.

Drillings: Front 28/36, Rear 28/36. 625 gm.

Luxe Competition - Front Each 1B **MO A4680 £7-43**

Rear SS/G Each 1B **MO A4681 £8-27**

Pair SS/G Pair 1B **MO A4682 10U £15-89**

### Professional Road

Forged duralumin elongated flange cut outs. Free running bearings with black dust covers and quick release levers for safety. SS/Gear only. Drillings: 24/28/36. 580 gm.

Professional Road - Pair SS/G Pair 1B **MO A4692 10U £32-98**

### Hub Spares

3414 Super-Sport front cone Each **£1-40**

3464 Super-Sport rear cone Each **£1-40**

3004 Sport front cone **£0-22**

3054 Sport rear cone **£0-25**

3701 Front standard skewers complete Each 1B **MO A4703 £2-06**

3706 Rear standard skewers complete Each 1B **MO A4704 £2-06**

3010 Front Champion/Sport axle complete Each 1B **MO A4707 £1-35**

3062 Rear Champion/Sport axle complete Each 1B **MO A4708 £1-96**

3110 Hollow axle complete front Each 1B **MO A4709 £1-92**

3162 Hollow axle complete rear Each 1B **MO A4710 £2-76**

Key: DS/GF - Double sided threading for multiple freewheel and fixed cog  
SS/G - Single threading for freewheel  
SS/F - Single sided for fixed cogs

### Lamp bracket

Boss fitting in alloy Each 1C **MO A5005 20U £0-76**

### Mudguards

#### Easy-fit

16" of U-section plastic mudguard that slips over the seat-stay bridge and snaps on to the seat-tube and chainstays by tough, springy clips. Cannot scratch the enamel. Ideal for distance races in the rain and rigid enough to act as a bag-support. Black or white. 53 gm.

Easy-fit Each 1C **MO A5360 £1-30**

## MILREMO - continued

### Tufflex

A truly top-class mudguard for those who want good looks and durability. The laminated construction, which sandwiches a metal foil strip between unbreakable plastic, allows the guard to undergo unreasonable punishment without complaining. Fitted with a mudflap and BS reflector, Tufflex guards come with either English fittings or patented (and surely more rigid) French stays (illustrated).

The U-shaped stays loop over the outside of the guard, and fix at the fork-end with an ingenious device unique to this model. The section is close-fitting, and suits the current trend for narrow tyres. Metallic ice blue, black with silver centre band, or silver with two black ribs.



Tufflex  
Pair 1C **MO A5365** 5U **£8-90**

### Monarca

A narrow-section guard made in superior quality plastic. Available in red only.



Monarca plastic with mudflap & reflector  
Pair 1C **MO A5370** **£5-40**

### Pannier carriers

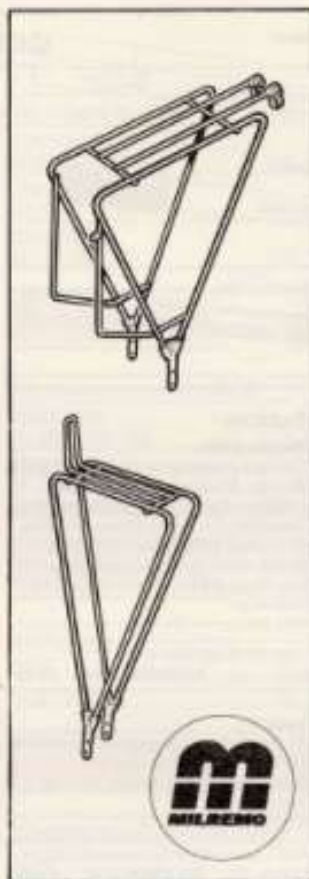
#### Fiol (front and rear)

Strong tubular steel highly chromed carriers. Front model with 3 point fork end eyes and brake bolt fixing or Rear model fitting on mudguard eyes and rear seat stays.

Supplied complete with all fixing clips.  
Front 594 gm.  
Rear 792 gm.

Fiol - front  
Each 1C **MO A5500** **£3-20**

Fiol - rear  
Each 1C **MO A5510** **£4-10**



### Pedals - chrome

#### Cadet

Chrome steel, double-sided with supporting centre strut and solid end cap. 400 gm.

Cadet  
Pair 1B **MO A5600** 20M **£2-80**

#### Club

Chrome steel, similar to Cadet, but with side-plates drilled for toeclips. 400 gm.

Club  
Pair 1B **MO A5605** 20M **£3-27**

#### Aurora

Quill type with ample tread and ground clearance, and one-piece side-plates.

Aurora  
Pair 1B **MO A5615** 20M **£4-80**

### Pedals - dural

#### Apollo

Sturdy, double-sided, with 3/16" tread, stiff centre strut, detachable end caps, toestrap slots. Chrome-dural. 415 gm.

Apollo  
Pair 1B **MO A5655** 10M **£5-72**

#### Aurora

As Aurora chromed model, but with dural side-plates. 415 gm.

Aurora  
Pair 1B **MO A5660** 10M **£6-00**

### Avenir Road

Road racing quill with the dural body in the new modern bulged shape. Anodised black or polished dural cage strongly riveted to chrome steel cross struts. Toestrap retainer incorporated with pick-up tabs and toeclip attachment.

Smooth running bearings on chrome axle amply threaded for dural cranks. 396 gm.

Avenir Road  
Pair 1B **MO A5665** 10M **£14-77**

### Avente Track

Superb quality. One-piece forged dural body. Short 3" side plates for track clearance. Black or silver finish. 340 gm.

Avente Track - polished  
Pair 1B **MO A5665** 10M **£22-14**

Avente Track - black anodised  
Pair 1B **MO A5690** 10M **£23-60**

### Pro UL

For seekers after the ultra-light, these weigh only 245 grams, which we believe is the world's lightest. The X-shaped resin-fibre frame and detachable alloy



plates revolve on sealed bearings around a heat-treated steel axle. All extraneous metal is eliminated to produce the bare minimum for pedalling efficiency. 245 gm.

Pro UL  
Pair 1B **MO A5895** 10M **£36-69**

### Pumps - standard

#### Club

Silvered alloy pump for sports use, available in lengths of 15" or 18", complete with braided connection.

Club 15" x 1/2"  
Each 1B **MO A5800** 25M **£1-12**

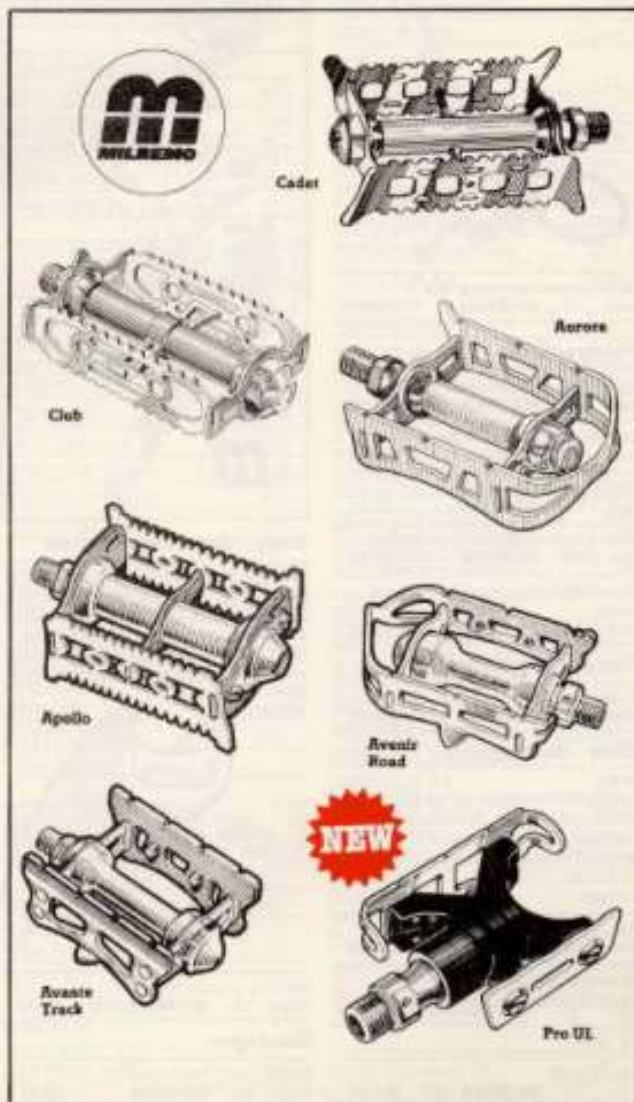
Club 18" x 1/2"  
Each 1B **MO A5805** 25M **£1-28**

#### Sport

Top quality white plastic pump available in 12" or 15" length with attractive Milremo name in gold and supplied with braided 5' connection.

Sport  
Each 1C **MO A5808** 20M **£0-78**

Sport 15" x 1/2"  
Each 1C **MO A5810** 30M **£0-78**



## MILREMO - continued

### Pumps - frame - fitting with push-on adaptor

**Cross**  
An inexpensive frame-fitting pump with push-on adaptor, black grip and handle and white barrel in eight sizes from 385-560mm (to fit frames 19-26").

Cross  
Each 1C **MO A5848 25M £1-80**

### Gran Carrera

Highest quality frame-fitting pump again with eight sizes available to fit frames from 19" to 26". The black barrel has a silvered grip and handle and incorporates a push-on adaptor.

Gran Carrera  
Each 1C **MO A5850 25M £2-18**

### Pumps - track

#### Slica-Plata

A powerful double handed pump for use where high pressures are required on road or track. Fitted with pressure gauge.



Slica Plata with pressure gauge  
Each 1B **MO A5880 £20-14**

### Pump spares

No. 24 Plata adaptor for track pump  
Each 1B **MO A5915 £1-18**

24/1 Washer for No. 24 adaptor  
Each 1B **MO A5916 £0-14**

Flexible base inc. adaptor  
Each 1B **MO A5917 £3-21**

Washer for Gran Carrera/Cross adaptor  
Each 1B **MO A5930 £0-20**

Plunger/washer for Gran Carrera/Cross pump  
Each 1B **MO A5932 £0-12**

### Pump connectors

5" standard  
Each 1C **MO A6005 £0-24**

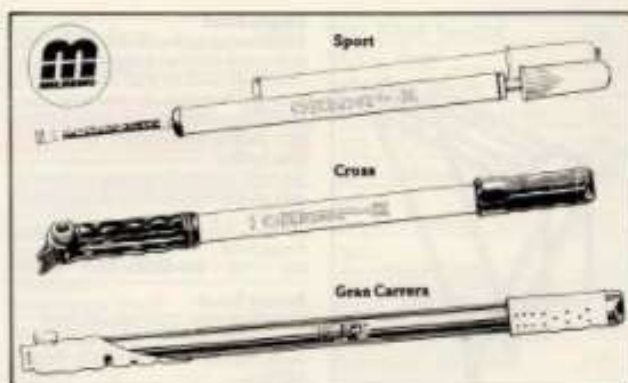
### Rims - dural sprint

**Giro**  
Tough, workmanlike all-round rims at a reasonable price. Double eyelets, polished, 21.5mm wide, with serrated braking surfaces. Drilled 25/32/36. 410 gm.

Giro  
Pair 1B **MO A6300 10M £10-28**

**Record Route**  
A lighter version of the Giro. Drilled 36. 350 gm.

Record route  
Pair 1B **MO A6305 10M £10-28**

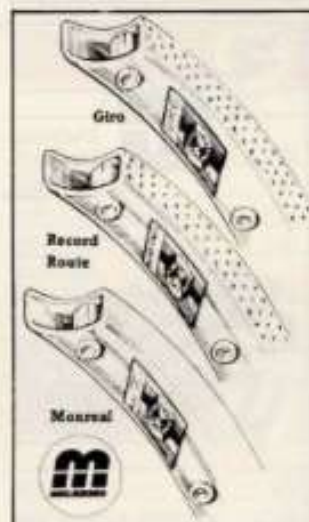


### Montreal

Anodised road racing rims, with double eyelets, in silver, gold or black, 20.5mm wide, drilled 28/32/36. 400 gm.

Montreal - silver anodised  
Pair 1B **MO A6325 10M £15-67**

Montreal anodised finish - gold or black  
Pair 1B **MO A6330 10M £15-67**



### Rims - dural for wired-on tyres

**Elite**  
The Elite rim is 27" x 1 1/4" 19mm width with deep cavity section and double spoke hole washers. This 36-hole rim is both ultra light yet strong and is to fit 20 to 25mm tyres. 460 gm.



Elite  
Pair 1B **MO A6355 10M £9-30**

### Rim tapes

Rubber for 27" x 1 1/4" rims  
Each 1B **MO A6500 £0-14**

### Saddles

#### Freccia d'Oro

This will certainly be the bargain of the decade. It has a perfectly shaped perforated plastic top that is moulded cleanly to the 2-wire frame avoiding any rough edges, flats or corners which cause chafing. Neat moulded bag loops are provided. Complete with clip. 450 gm.

20B/10 Freccia d'oro 470  
Each 1C **MO A6600 25M £1-90**

#### Luxe

As the standard Freccia d'Oro model but with the top covered in hard-wearing black skay. No bag loops. 560 gm.

20B/1 Luxe - black skay covered 541  
Each 1C **MO A6605 25M £3-58**

#### Star Rider

Luxurious comfort allied with efficiency sums up this saddle. The nylon base is slightly more supple than is usual among this type, and the layer of plastic foam, topped by a black skay covering, adds to the comfort without loss of energy through sagging or swaying. A superb saddle at an unexpectedly reasonable price. 320 gm.

Star Rider  
Each 1C **MO A6647 25M £5-34**

#### Pro Buffalo

The ultimate in racing saddle comfort. Made in the 'classic' style of the world's finest but at a more competitive price this saddle has no equal for value. The perfectly moulded top is covered with sandwich foam and then topped with buffalo leather for a good grip. 345 gm.

Pro Buffalo  
Each 1C **MO A6680 25M £8-74**

#### Gran Carrera

A superbly made padded saddle cover in top quality smooth leather and extensively perforated for coolness, this is a must for the man who wants the best. 350 gm.

Gran Carrera  
Each 1C **MO A6700 25M £14-34**

Extras for saddle clip  
**£0-56**



### Seat bolt

**Club**  
Knurled headed chrome bolt with emblem capped nut. 24 gm.



Club  
Each 1C **MO A6875 £0-30**

### Seat pillars

**Gran Sport**  
Modern design with cradle pivot operated by easily accessible knurled headed bolt. Plain model or fluted pillar model. 300 gm.

Gran Sport plain  
Each 1B **MO A7030 5M £6-56**

Gran Sport fluted  
Each 1B **MO A7035 5M £7-18**

Spare bolts for Gran Sport  
Each 1B **MO A7040 £1-15**

## MILREMO - continued

### Luxe

Similar to the familiar Campagnolo design but with socket-head screws accessible from below the head, obviating the need for a special spanner and skinned knuckles. The clip affords an unslipping grip on 7 or 8mm wires and allows ample adjustment. The stem portion is polished with five short flutes and is engraved 'Milremo' in vertical lettering. 280 gm.



Luxe fluted  
Each 1B **MO A7938 2M £13.20**

### Spoke discs

#### Protecta

The disc that is perfect in every way. Diameter at 4 3/4" is exactly right. Material: Hard plastic that will not rust or buckle. Choice of three attractive colours: red, white or blue. Lightest ever. 14 gm.



Protecta 4 3/4" dia. plastic  
Each 1C **MO A7400 £0.10**

### Spoke solder

A few seconds heating by the flame from a lighter and a dab of this special silver solder will secure the crossing of two spokes sufficiently for all normal use and without the need for 'tying' with wire. Spokes to be joined should preferably be new and free from grease. This quick and easy method (just a few minutes for each wheel) offers the same advantages as the usual tying and soldering which calls for expert handling and takes much longer. The principal benefits are a more rigid wheel and the ability to finish a race or training session even with a broken spoke.



Spoke solder  
Card 1X **MO A7830 10U £2.54**

## Straps (leather)

Club 7" x 3/4" bag straps - black or white  
Each 1C **MO A7900 £0.20**

Club 15" x 1/4" cape straps - black or white  
Each 1C **MO A7810 £0.32**

## Toeclips

### Competizione

The world's finest toeclip. Made in tempered steel, perfectly formed to avoid contact with the shoe toe, and finished in superb chrome plating on copper base. Available in two lengths. Medium 82 gm.

Competizione medium  
Pair 1B **MO A7950 20M £1.74**

Competizione long  
Pair 1B **MO A7955 20M £1.74**

### Corse

The economy toeclip. Made of tempered steel and plated. Complete with fixing plates. Medium only. 104 gm.

Corse chrome - medium  
Pair 1B **MO A7960 20M £1.55**

### Italia

Utility and high fashion are combined admirably in the Milremo light alloy toeclips. Very smart in black or silver anodised dural, the strap-loop is double riveted and the Milremo logo adds note of colour. The shape is the one which has stood the test of time and the dural is impervious to rusting. Supplied with fixing bolts and nuts, and alloy back-plates. 27 gm.



Italia - silver  
Pair 1B **MO A7965 20M £4.36**

Italia - black  
Pair 1B **MO A7966 20M £4.36**

## Toeclips and straps (sets)

Competizione medium clips with straps  
Set 1B **MO A7990 10U £3.25**

Competizione long clips with straps  
Set 1B **MO A7985 10U £3.25**

Corse medium clips with straps  
Set 1B **MO A7990 10U £2.96**

## Toestraps

### Competizione

A superlative strap in supple, wet-resistant chrome leather with quick-release roller buckle. In assorted colours or natural.



Competizione QR assorted colours  
Pair 1B **MO A8150 20M £1.48**

Competizione QR in natural leather  
Pair 1B **MO A8155 20M £1.58**

### Corse

A new design with special quick-release buckle in a choice of red, white, blue, grey or green. Great value.

Corse QR in assorted colours  
Pair 1B **MO A8160 20M £1.34**

### Club

Top quality chrome leather economy strap with quick-release buckle. In natural or assorted colours.

Club in assorted colours  
Pair 1B **MO A8170 20M £1.48**

## Toestrap end buttons

### Full-stop

The handiest end button. Constructed in ultra light plastic - weight negligible - this handy accessory is ideal for that quick pull, or as a sure safety stop on release. With special steel self-threading locking screw, available in red, white, blue, black and yellow.

Full-stop plastic  
Pair 1C **MO A8200 £0.20**

## Transfers

DF2 large - 4 1/2" x 1 1/4" vertical Milremo motif with Olympic bands.  
Each 1C **MO A8605 £0.08**

DF3 large - 4 1/2" x 1 1/4" vertical Milremo motif with Olympic rings.  
Each 1C **MO A8610 £0.08**

DF6 large transfer 3 1/4" x 1 1/4". Especially for bottles.  
Each 1C **MO A8626 £0.08**

## Rim transfers

Modelo Giro - Record route - Super record - Plate - Super racing - Munich - Montreal - Super club - Elite - Super champion.  
Each 1C **MO A8650 £0.08**

## Trouser bands

Bicy - orange reflective with steel insert  
Pair 1B **MO A8750 300 £0.46**

## Tubular tyre covers

A superior quality article - smooth black centre band, strong P.V.C. walls, metal fastening clips - makes wheels smarter and tyres safer when being transported.



Extra  
Pair 1B **MO A8900 5U £7.41**

## Tyres - high pressure

The responsiveness, durability and lightness of fine nylon cord, plus brilliant design of the casing and the tread, combine to produce two lightweight tyres for the rider demanding speed, yet not wanting to fit tubulars.

The woven nylon casing is overlapped underneath the tread, where resistance is most needed, then covered in a protective rubber coating, finally topped with an ingenious tread band featuring herringbone side bands flanking a raised centre ribbed strip. The result is a lively tyre which should last and last.

### Escort

The Milremo Escort is a 27 x 1 1/4" cover which fits 1 1/4" rims and weighs, complete with a tube and rim tape, only the weight of a training tubular.

(Conventional tyre weight is 560 grams).

The Escort is also available in 700 x 28C size for convenient exchangeability with tubular racing tyres.

Tyre weight only 275 grams.

Escort 27 x 1 1/4" gum walls  
Each 1B **MO A9100 10M £5.54**

Escort 700 x 28C  
Each 1B **MO A9106 10M £5.54**

## MILREMO - continued

### Elite

Even lighter, at 380 grams including a tube and tape (tyre weight only 265 grams) is the Milremo Elite, a 27 x 1 inch cover specially designed for the narrow 21mm high-pressure rims. Also available as 700 x 25C.

Elite 27 x 1" slim sided  
Each 1B **MOA9110 10M £5-54**

Elite 700 x 25C  
Each 1B **MOA9116 10M £5-54**

### Extra

For the rider who aims for durability rather than lightness, the Extra is the choice, once again using nylon casing but topped this time with a fast but substantial tread. A ribbed centre section is flanked by file, and the amber sidewalls are well rubbered. Ideal for the clubman and tourist.

Extra 27 x 1 1/4" amber wall  
Each 1B **MOA9118 10M £3-85**

## Tubes - high pressure

Esport 27 x 1 1/4"  
Each 1B **MOA9170 10M £2-08**

Esport 700 x 28C  
Each 1B **MOA9175 10M £2-08**

Elite 27 x 1"  
Each 1B **MOA9180 10M £2-08**



'Extra' tread

'Esport' and 'Elite' tread and construction

## MITSUBISHI



### Mountain bike tyre

#### Grippe

A sturdy 26 x 2.125" tyre for off-road use. The centre tread has raised studs, with flanks sporting a special tread block which tends to throw off mud. Nylon sidewalls.



Grippe 26 x 2.125"  
Each 1B **MBIA9225 10U £10-27**

## MKS



### Pedals - steel

#### Quill-2

Steel quill pedal with one-piece cage plate. 480 gm.

2001 Quill-2  
Pair 1B **MKS A5605 20M £4-65**

### Pedals - dural

#### Quill-2K

As Quill-2, but with alloy barrel and cage plate. 380 gm.

3002 Quill-2K  
Pair 1B **MKS A5630 20M £5-06**

#### AR-1

Aerodynamics comes to the quill pedal in this latest inexpensive light alloy model. The front half of the quill is swept back stylishly, while the front and back plates are tapered towards the offside. A toe-strap retainer and pick-up tab complete the specification of this roadman's pedal. 340 gm.



2022 AR-1  
Pair 1B **MKS A5631 20M £7-25**

#### Sylvan

Quill pedal for road use, with pick-up tab, drilled for toeclips. Excellent value. 360 gm.

2021 Sylvan-polished finish  
Pair 1B **MKS A5632 20M £9-27**

#### Unique Royal track

Single-sided track pedal with polished alloy body and side-plates. Push-up tabs, drilled for toeclips. Side-plates available silver or black. 350 gm.

2021 Unique Royal-track-polished  
Pair 1B **MKS A5680 20M £23-36**

## Esquartz

The smooth, aerodynamic lines of this pedal and its matched toe-clip shout speed, borrowing from the platform design and the quill. The toe-clip (medium or long) gives 6mm forward adjustment, 5mm laterally. The rear resembles a standard road pedal, with pick-up tab, but the body is narrow and streamlined. 380 gm (with toe-clips).



2023 Esquartz with medium toeclips  
Set 1B **MKS A5660 5M £30-90**

2023 Esquartz as above, long  
Set 1B **MKS A5661 5M £30-90**

### Esquartz Amateur 102

Similar in principle and design to the Esquartz, the 102 is a "junior" version for tighter purse-strings, with a cast one-piece alloy body and a carbon steel spindle. The same alloy toe-clips are used. 390 gm (complete with toe-clips).



Esquartz Amateur 102 with toeclips medium  
Pair 1B **MKS A5702 20M £17-06**

Esquartz Amateur 102 long  
Pair 1B **MKS A5705 20M £17-06**

### GR-8

An ultra-modern pedal in a medium price range, offering the advantages of a platform pedal without entirely losing the look of a conventional one. It is single-sided, has a one-piece alloy frame and a fine finish. It has a pick-up tab at the rear, and has fittings for standard toe-clips. The raised studs on the platform enable it to be used with ordinary leisure shoes as well as cycling shoes. 400 gm.

2026 GR-8  
Pair 1B **MKS A5707 20M £8-14**



### 505

An ingenious pedal for all kinds of leisure riders, this model follows the platform principle, and is counterweighted so that it always comes to rest "business side upwards". It is a generous 99mm wide, and has studded ridges at the front, rear and outside of the one-piece alloy frame. Amber reflectors front and rear complete this unusual design. 560 gm.



2027 505  
Pair 1B **MKS A5709 20M £5-63**

### 707

Similar to the 505, but with a sportier look, and provisions for toe-strap and special toe-clips, which are similar to those used on the Esquartz range. 560 gm.



2028 707  
Pair 1B **MKS A5711 20M £6-09**

## Toeclips

(to fit models 707 & Esquartz)

1265 Steel medium  
Pair 1B **MKS A5715 10M £2-92**

1265 Steel long  
Pair 1B **MKS A5716 10M £2-92**

126 Alloy medium  
Pair 1B **MKS A5690 £5-30**

126 Alloy long  
Pair 1B **MKS A5691 £5-30**

## MINOURA



### Chainstay protection

#### Chainplate

A shaped and flexible piece of stainless steel which carries its own adhesive and is fitted on the right-hand chain stay to protect the frame against damage from the chain when the rear wheel is removed. An inexpensive accessory which will give good service.



Chainplate  
Each 1C **MAA1951 20U £0-84**

## MKS - continued

### Toeclips

(half-clip, leather-covered)  
Ideal for the rider who is sports-minded, but not ready for full toe-clips.



132 Half clip  
Pair 1B **MKS A7060 5U £3-95**

### Backplates

For 2023 'Espace' pedals  
Pair 1B **MKS A5740 £1-89**

## NADAX

### Favorit bottom bracket unit

The growing tendency towards the fitting of sealed annular-bearing units to bottom brackets is bound to be accelerated by the advent of the Nadax-Favorit cartridge. The threaded aluminium cylinder houses a hollow, stainless steel spindle of exceptional hardness, turning in two FAG precision ball-bearings. Bearings and spindle-ends are sealed against the ingress of mud and water, and the special grease inserted at the factory ensures long and maintenance-free life. The unit can be installed without special tools, being screwed-in from the chain-wheel side and locked in place by a thick alloy locking. There is provision for any slight adjustment which may be needed. The unit is available with English threading for left and right-hand 'cups', or for Continental brackets with two right-hand threads.

250 gm.

1.37 x 24 x 68mm English

36 x 24 Metric-Italian

35 x 100 Metric-French

Important - state the length of axle required

107mm. (Campag/Sun Tour single)

113mm. (Campag/Sun Tour double, TA single)

114.5mm. (Campag triple, TA double)

119mm. (TA triple)

1.37 x 24 x 68mm English

Each 1X **NXA 766 5M £26-57**

36 x 24 Metric-Italian

Each 1X **NXA 767 5M £26-57**

35 x 100 Metric-French

Each 1X **NXA 768 5M £28-57**

### Locking only

1.37 x 24 (English)

Each 1X **NXA 800 £1-80**

36 x 24 (Italian)

Each 1X **NXA 801 £1-80**

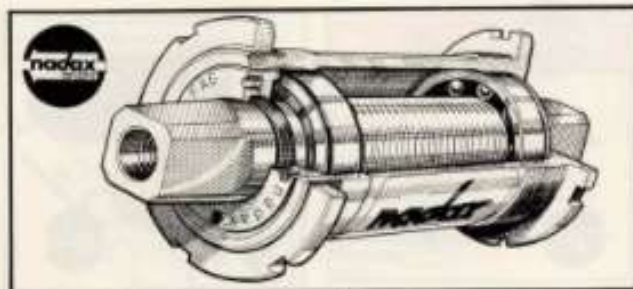
### Fitting tools

854890 Standard model

Each 1X **NXA 790 5M £11-30**

555020 New workshop model

Each 1X **NXA 795 5M £42-40**



## NAGAOKA

### Light alloy carriers

#### AFC-C1 Front low-loader

#### ARC-C1 Rear low-loader

Versatile anodised light alloy carriers which offer two ways of carrying front and rear pannier bags. They are 'low-loaders', enabling the bags to be strapped to the lower part of the carrying frame, giving a lower centre of gravity and thus more stability. For everyday use, the lower carrying frame can be removed to leave conventional front and rear pannier carriers. To better cope with the extra strain of heavy loads, the carriers have a four-point fitting to the fork ends and, via cushioned and adjustable nylon clamps, to front forks or seat stays. This patented feature is recognized by experienced tourists.

AFC-C1 Front  
Each 1X **NA A5181 5M £24-07**

ARC-C1 Rear  
Each 1X **NA A5183 5M £24-35**

#### APC-1

A rigid double-strut front carrier with simple mount, attaching to brake centre bolt.

310 gm.

APC-1 Front  
Each 1X **NA A5186 5M £9-60**

#### ARC-02

The strut rear carrier with adjustable mount to achieve horizontal fitting, and with bracket to take a rear lamp or reflector.

380 gm.

ARC-02 Rear  
Each 1X **NA A5190 5M £11-84**

#### APC-5

Folding single-strut front carrier, again featuring an adjustable mounting to achieve the correct angle.

280 gm.

APC-5 Front  
Each 1X **NA A5193 5M £6-90**

#### ARC-TE

Folding rear carrier with simple clamping mount and removable spring clip to hold papers or small items.

ARC-TE rear  
Each 1X **NA A5195 5M £6-44**



## NAGAOKA - continued

### Kickstand

#### Mighty-5

Booting handily to the nearside seat and chainstay, this lightweight alloy stand has the extra facility of a spring-loaded lock, which makes it impossible for it to be accidentally disengaged. Sturdy enough to take the weight of a fully-loaded cycle. For 27-inch wheels. 280 gm.



Mighty-5  
Each 1X **NA A7748 SU** £7-57

NITTO

NITTO

### Aerodynamic handlebars

The perfect match for the Crystemblue, in aluminium alloy.

They are drilled at the front and slotted at the rear, for use with Dia. Compe or similar aero levers which suggest running the cable through the handlebar, complete with outer casing. The bars are consequently heat-treated to minimize any weak points caused by the drilling. To complete the aerodynamic effect the upper section has a tear-drop cross section. 330 gm.



ADB-185 AA 30cm drilled for cables  
Each 1X **NO A3741** £17-07

### Aerodynamic stem

#### Crystemblue

Striking design has more than an eye-catching purpose with this top-quality forged stem. The handlebar clamp is secured by three Allen-key bolts, the top section anodised blue and completely removable to allow the insertion of normal or aerodynamic handlebars.

Available in 70, 80, 90 or 100mm. 330 gm. (for 80mm).

Crystemblue  
Each 1X **NO A4676 10M** £19-03



### Tandem rear stem

Classy rear handlebar clamps were thin on the ground until we introduced Nitto's light alloy model, designed for 27.2 seat pins and a wide variety of handlebars. The clamp has a rear extension which slopes gently upwards, and is designed to give the "stoker" some breathing space. 240 gm.



Tandem rear stem  
Each 1X **NO A4080** £12-24

### Mountain bike accessories

#### B801 handlebar

A superbly-finished chrome-moly bar of 22.2mm section, with a modest 50mm lift. 625 gm.



B801  
Each 1B **NO A3765 SU** £9-00

#### MT-1 stem

Handsome stem with chrome-moly column and forged alloy extension and two-piece clamp, anodised silver. The clamp is held secure by four Allen-key bolts, and is designed for 22.2mm bars. 495 gm.

MT-1  
Each 1B **NO A4090 SU** £19-74



PATINAUD

PATINAUD

### Toeclips

The three main types of toe-clip offered by the old-established Patinaud concern have the stamp of quality and high finish expected of this firm's products. All are in high quality spring steel, heavily chromium plated and of long proven design. The 'Adjustable' features a strongly-made slide which can be locked in any one of five positions, giving a length variation of 20mm. The ingenious clamping screw will not loosen accidentally. The 'Reflector' type is for fitting to reflector pedals and has a cut-out portion to accommodate the rectangular lens. The 'Special-Cross' is really two clips riveted together, the inner one being cadmium-plated with a broad base without cut-off.

Special Cross 28  
Pair 1B **PD A7980 20M** £3-32

Automatic (adjustable) 23  
Pair 1B **PD A7985 20M** £3-02

16R Reflector  
Pair 1B **PD A7990 20M** £1-82



PAVARIN



### Shoeplates

#### 70 Alloy

Alloy shoeplate with deep slot. Complete with nails.

70 One piece alloy  
Pair 1B **PVN A7220 20M** £1-66

#### 75 Nylon/fibreglass

As model 70, but in a lighter material. Complete with nails.

75 Nylon/fibreglass  
Pair 1B **PVN A7225 20M** £1-22

#### Cyclo-cross

Two-piece shoe-plate specially designed for cyclo-cross. The forward section has a wider than normal slot plus two sturdy studs. The rear section, which fits to the heel, is also double-studied. Complete with nails.

Cyclo-cross nylon-fibreglass  
Pair 1B **PVN A7235 20M** £1-84

#### 73 Adjustable alloy

Two-piece shoeplate. Once the base-plate is nailed on, the positioning can be adjusted at will via two large-diameter screws. Complete with nails.

73 Adjustable alloy  
Pair 1B **PVN A7233 20M** £2-85

#### 78R Adjustable nylon/fibreglass

As model 73, but with adjustable plate in nylon.

78R Adjustable nylon/fibreglass  
Pair 1A **PVN A7234 20M** £2-08



## PELISSIER



### Thorn catcher

The original racing thorn catcher in the lightest duralumin.



Thorn catcher  
Each 1B **PRA A7900** £1-10

## PHOS



### Battery headlamp

#### Cross

A sturdy and reliable front lamp. Made in durable black plastic the main body incorporates a positive action on/off switch. The large reflector/lenses assembly is protected by a strong shock resistant guard. Runs off a standard type 1289 battery (not supplied).



681 Cross black plastic  
Each 1C **PHS A4960 10U** £3-46

### Dynamo sets

The Phos dynamo is a miniature generator with a three-watt output made possible by the use of high-efficiency coils and magnets. Weighing a mere six ounces, it has a brilliant chrome-finish one-piece body and spring housing, ribbed plastic pulley and push buttoning. The matching headlamps, rectangular or round, have brilliant reflectors and ribbed lenses. Complete with BS3648 rear lamp.

#### Dyno headlamp

651/01 round pattern  
Each 1C **PHS A2411 10M** £1-63

650/02 rectangular pattern  
Each 1C **PHS A2414 10M** £1-32

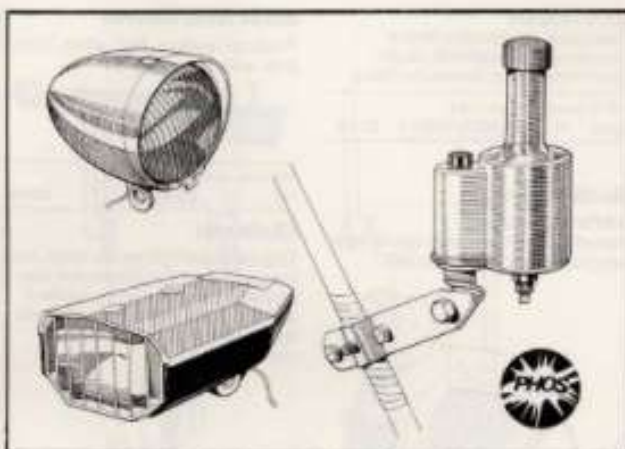
#### Dynamo only

650/01 with bracket  
Each 1C **PHS A2430 5M** £2-92

#### Dynamo sets (complete with British approved rear lamp)

Phantom with round head lamp  
Set 1C **PHS A2443 10M** £5-54

Phos with rectangular head lamp  
Set 1C **PHS A2447 10M** £5-40



## PRIMAX



### Hub brake

The Primax-60 is a hub brake which screws to the nearside thread on any double-threaded rear hub. It is an internal expanding brake with a servo mechanism which eliminates unpleasant braking squeal and gives superior performance to rim brakes, both in wet and dry conditions. It is cable operated easy to fit and adjust, and replacement brake pads are available. 530 gm.



Primax-60 C.P.  
Each 1B **PXA A4641 5U** £7-28

Brake pads & springs  
Set 1B **PXA A4644** £2-29

## PRIMUS



### Pumps

#### SL-C

Frame-fitting pumps with narrow barrel for high tyre pressures. Barrels and piston-rods are of seamless aluminium tubing. The handle and grip carry a non-slip pattern. In various lengths and with 'chrome' handle and grip on natural alloy barrel. 155 gm.



SL-C  
Each 1B **PS A5870 10U** £5-32

#### Aerodynamic

Even a pump can be made more aerodynamic, and this product of alloy and plastic is shaped to hug the seat tube, as well as to fit the frame. In 6 lengths to cover virtually every frame size. Silvered barrel with black or blue handgrip. 155 gm.

Aerodynamic  
Each 1B **PS A5880 10U** £5-26

## REG



### Bottles

#### 313

Standard bottle in non-toxic plastic with knurled indentations for easy grip, and with two-way cap allowing drinking or squirting. In red, blue, yellow, black or white, or with printed Caro d'Italia, Milan-San Remo or Zeus badges.

313 plain colours  
Each 1C **RG A500 40M** £0-54

313G white with 'Caro d'Italia' badge  
Each 1C **RG A505 40M** £0-70

313M white with 'Milan-San Remo' badge  
Each 1C **RG A510 40M** £0-70

313Z white with 'Zeus' badge  
Each 1C **RG A515 40M** £0-70

#### 308

Similar to the 313 but in transparent plastic, and with slightly different drinking cap.

308 - transparent  
Each 1C **RG A901 40M** £0-72

#### 309 Reserve bottle

The bidon in white plastic is shaped for fitting between the seat stays immediately below the seat-lug.

309 seat stay fitting  
Each 1C **RG A520 40M** £0-76

#### Hip flasks 310/311

Corked hip flasks with 200 and 100cc capacity.

311 hip flask 100cc  
Each 1C **RG A550 40M** £0-60

310 hip flask 200cc  
Each 1C **RG A560 40M** £0-60

#### 314 Thermic

Patented unbreakable white plastic bottle specially insulated - fits in standard bottle cages. 250cc. Temperature change over a period of three hours

Hour	0	1	2	3
C°	85	61	54	45
F°	185	141	129	113

314 thermic  
Each 1C **RG A570 40M** £2-34

#### 316 bottle cover

In coloured felt, with elasticated top. Gives some insulation for all standard bottles.

Bottle cover 316  
Each 1C **RG A580** £0-94

### Bottle cages

#### Standard QR 162/164

In chrome-plated steel strip, handlebar or downtube fitting, both with quick-release grip. 120 gm.

162 handlebar model  
Each 1C **RG A600 20U** £2-02

164 downtube model  
Each 1C **RG A605 20U** £1-44

#### 1970 Competition

Downtube fitting in chrome-plated spring steel with nylon grips.

1970 Competition model  
Each 1C **RG A620 20U** £1-52

You can obtain or order every item in this catalogue through your local specialist dealer.



## REG - continued



## 1979 standard

One-piece construction frame chrome-plated steel with single spot-welded clip. Downtube fitting.

1979 standard downtube  
Each 1C **RG A833** 20U **£1-14**

## Bottle and cage

**1973/19 Aerodyn**  
Aerodynamic bottle with special light alloy cage, complete with clips.



1973/19 Aerodyn with alloy cage  
Set 1C **RG A655** 10U **£2-80**

## Bottom bracket sleeve

320 plastic sleeve for protection of bottom bracket bearings. Concoquina shape.



320 black plastic  
Each 1C **RG A750** **£0-28**

## Brake cable clips and clamps

**749K**  
Plastic cable clamp for double cables with securing bolt. Available in attractive colours.



749K double clamp  
Card 1C **RG A900** 5C50 **£5-72**

**748K**  
Open pressure fitting  
Card 1C **RG A905** 5C50 **£4-24**

**751/25**  
Chrome top tube clip. 1" diameter, loop at top  
Each 1C **RG A950** **£0-20**

## Brake lever sleeves

Plastic pin pattern. Red, white, blue, grey, yellow, green.



346 lever sleeve  
Pair 1C **RG A1510** **£0-38**

## Chain rest

This small and light plastic chain-hook is a press-fit on the offside seat-stay and allows the chain to be hooked upon it when the wheel is removed, thus preventing it from soiling the chain-stay.



635 Chain rest  
Each 1C **RG A1931** 20U **£0-42**

## Handlebar end plugs

411 interior push-in fit, chromed plastic.

411 End plugs  
Pair 1C **RG A3665** **£0-42**

## Handlebar grips

Pin pattern plastic with contrasting hand guard. Assorted colours. 7/8" or 1 1/4" dia.



460 handlebar grips  
Pair 1C **RG A3925** 60M **£0-70**

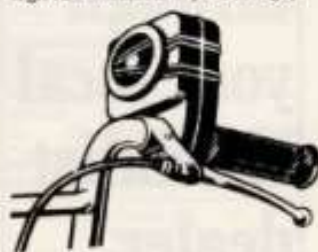
## Handlebar grip/sleeve sets

Matching sets of items 460 and 346.

460/346 grips/sleeves  
Set 1C **RG A3960** 60M **£1-08**

## Horn

**Turbo siren**  
A loud warning of approach comes from this twist-grip siren, which clamps to the end of a straight or high-rise handlebar in place of a grip.



294 Turbo handlebar siren  
Each 1C **RG A4525** **£4-48**

## Lamp bracket

**362**  
Handlebar fitting, strong lightweight steel in non-rust finish. This lamp bracket is on or off in a jiffy, having a half clip held with easy turn thumb screw. Fitted with exclusive plastic liners to the clip, thus preventing damage to the bar and at the same time ensuring a firm grip.



362 Handlebar lamp bracket  
Each 1C **RG A5000** 25U **£0-64**

## Mirrors

581 Round plastic frame 2 1/4" chrome pillar  
Each 1C **RG A5200** 20U **£0-54**

591 Rectangular plastic frame 4" by 2" Z.P. pillar  
Each 1C **RG A5205** 30U **£0-64**

593 Rectangular plastic frame 4 1/2" x 2 1/2" chrome pillar  
Each 1C **RG A5210** 30U **£0-80**

582 Round plastic 3" dia.  
Each 1C **RG A5215** 30U **£0-80**

590 Similar to 591 but oval shape  
Each 1C **RG A5220** 30U **£1-02**

475 Larger rectangular 4 1/2" x 2 1/2" with trim  
Each 1C **RG A5225** 30U **£1-30**



## 1971 Competition

As above, but handlebar fitting.

1971 Competition - handlebar  
Each 1C **RG A625** 20U **£1-94**

## 1975.50 Ergal

In Ergal light alloy with nylon grip. Downtube fitting. Silver colour.

1975.50 Ergal downtube  
Each 1C **RG A630** 20U **£1-38**

## 1976 Dural

In black anodised dural for braze-on fitting. (Fittings not supplied).

1976 Dural, black (braze-on)  
Each 1C **RG A635** 20U **£2-06**

REG - continued

### Mud flaps



213 Standard white plastic with reflector studs 7" x 8"  
Each 1C **RG A5300** £0-58

### Price holder



660 Price ticket holder for shower room  
Each 1C **RG A5415** £0-68

### Pumps

Constructed in a special unbreakable hard plastic with extra strong handles and plungers with best leather washers firmly attached by an exclusive method of screw with plastic cone.

11 Juvenile white 9-10 1/2" long (225-265mm)  
Each 1C **RG A5600** 30M £0-64

12 Standard white 11-12 3/4" long (280-320mm)  
Each 1C **RG A5605** 30M £0-84

12 Standard white 14 1/2"-16" long (370-400mm)  
Each 1C **RG A5810** 30M £0-84

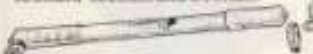
13 Standard white 17 1/2"-18" long (430-465mm)  
Each 1C **RG A5815** 30M £0-84

All above fitted with 5" braided connections

Extra for Schrader connections  
Each £0-12

### 8C Racing

With patented push-on racing adaptor and horned rest. Handle grip and separate pump cup in ABS chromed plastic. Available in lengths of 435mm, 465mm and 500mm.



8C Racing  
Each 1C **RG A5850** 30M £3-44

### Pump cups



276/5 Onelli pump cup only  
Each 1C **RG A6055** £0-42

### Adaptor for track pump



128 Sclavenand - turned brass  
Each 1C **RG A5870** £1-46

129 Sclavenand - plastic  
Each 1C **RG A5871** £0-32

### Reflectors



280 Alloy - rear stay fitting  
Each 1C **RG A6100** £0-38

### Spoke discs



67 Chrome plated 4 1/2" dia  
Each 1C **RG A7450** 25U £0-74

65 Polished alloy with outer plastic disc  
Each 1C **RG A7455** 25U £0-84

### Stabilisers

Renowned for quality, long life and for easy fitting. Strong stay design with slots enabling one type of stabiliser to fit cycles with wheel sizes 12" to 18".

501/S  
S' clip to suit cycles with round chainstays.



501/S  
Set 1C **RG A7605** 25M £3-68

501/D  
As above but with 'D' clip to suit cycles with 'D' style chainstays.

501/D  
Set 1C **RG A7610** 25M £3-68

### Stands

98 Kick side prop stand, alloy for 26" or 28" wheel  
Each 1C **RG A7700** 30M £2-60

184 'V' pattern centre stand, zinc plated for 26" or 28" wheel  
Each 1C **RG A7710** 30M £3-76



### Toeclips

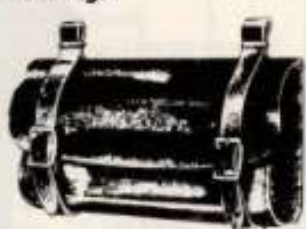
77 1/2" clip in C.P.  
Pair 1C **RG A7902** £1-68

79-01 black plasticised steel small  
Pair 1C **RG A7903** 10U £1-66

79-02 black plasticised steel medium  
Pair 1C **RG A7904** 10U £1-66

79-03 black plasticised steel large  
Pair 1C **RG A7905** 10U £1-66

### Tool bags



421 simulated leather  
Pair 1C **RG A8255** £1-26

### Trafficators

463 Blink Grip  
Battery operated flashers incorporated into pin pattern grips with handguard. The flasher unit and battery inserted into the handlebar ends. The flashers work by pressing a pressure point on the grip. Available in red, blue or green.



463 Blink Grip  
Pair 1C **RG A8550** £2-26

### Tubular carrier

This ingenious sturdy plastic strap push fits to sports saddle wires, and wraps around tubulars or cape rolls of varying sizes, secured by studs. No abrasion risk to your tubulars as with a toe-strap.



701 Tubular carrier  
Each 1C **RG A8840** £0-72



### Speedometer

Round type in sizes 16", 20", 26"  
Each 1C **RX A7300** 10M £7-04

Complete cable for speedometer (inner and outer)  
Each 1C **RX A7320** £0-88

Gear drive for speedometer  
Each 1C **RX A7330** £1-26



### Dynamos

The 108 plastic dynamo unit has a neat headlamp attached and at 185 grams is ideal for the lightweight enthusiast. The rear lamp is to British Standard.



### Dynamo head lamps

125 Model 7 chrome  
Each 1C **RX A2420** 10M £3-00

### Dynamo only

101 Model 64 chrome  
Each 1C **RX A2430** 10M £2-44

### Dynamo with headlamp attached

108 New model in plastic  
Each 1C **RX A2445** 10M £4-74

### Rear lamp (Dynamo)

287  
Each 1C **RX A2447** £1-20



### Sicuro toe straps

Italian styling and know-how produced these attractive leather toe straps for the demanding rider who wants good looks as well as performance. A smart, light-grey finish is set off by flashes of the Italian tricolour and the World Championship rainbow bands.



Sicuro  
Pair 1B **PRO A8177** 10U £2-68

## RON KIT



### Bags, handlebar fitting

Fit 9" x 6 1/2" x 3" black ski-roll zip-complete with CP bag support  
Set 1B RTA210 10M £8-40

### Bags - 'Mendip' touring range

A new medium-priced range of matching bags, using black nylon material with cream-coloured nylon trim, straps and zips.

#### Handlebar bag (with support)

Main compartment 145 x 222 x 200mm deep, closed by double-ended and flapped zip. Two open side-pockets, front and rear zipped pockets, top map case designed to take Bart's maps. The bag comes with its own easily-removable support frame, which is polyurethane coated, and with two elastic shock cords which connect to mudguard eyes. There is a removable stiffener. 420 gm. complete.

Handlebar bag & support - with tension cord  
Each 1C RTA218 5U £10-54

#### Pannier bags

Tapered main compartment 300 x 130mm at top, tapering 300mm deep, double zipped. Zipped side and rear pockets. Rear-facing reflective strip. Handles for easy carrying off the bike. Polyurethane-coated pannier frame clips. Fastens to virtually every pannier carrier. 360 gm. (each).

Pannier bags  
Pair 1C RTA219 5U £19-78

#### Saddlebag

Main compartment 350 x 150 x 175mm deep, with internal drawcord. Quick-release nylon webbing straps. Two zipped side compartments with flaps, plus generous top compartment (zipped) for cape or similar. Rear-facing reflective strip. 390 gm.

Saddle bag  
Each 1C RTA220 5U £11-72

### Bag support

#### Easyfit

Ingenious handlebar bag support which loops over the stem and needs no clips or clamps. Fits large front bags, which rest on its lower part and are strapped to cross-members. Chrome plated.



Easyfit  
Each 1B RTA316 10M £2-28



### Bottle

#### Competition

Top-quality plastic bottle with 'Miracle' cap and Ron Kit badge in green, yellow and black.



Competition  
Each 1B RTA560 £1-03

### Tubular tyre cover

#### Protecta

A superior quality article - smooth black centre band, strong PVC walls, metal fastening clips - makes wheels smarter and safer when being transported.



Protecta  
Pair 1B RTA8925 5U £7-41

### Tubular tyre carrier

Strong plastic roll to protect spare tubular, clothing or waterproofs. Extra large in white colour with attractive red and blue printing. 45 x 30 cm. 50 gm.



Plastic Protective Roll  
Each 1B RTA8905 20U £0-93

## ROTO



### Brake Wheel Guides

Easily fitted to most brake shoes, these alloy guides speed wheel changes. 2 gm. (each).



R76 Light alloy - attaches to brake shoes  
Set 1B ROA860 £0-72

## SAN MARCO



### Saddles

A full range of lightweight saddles offering a choice of frames and coverings based on two basic shapes. The Gi-Lux series is the conventional profile aimed at efficient and comfortable transmission of power. The Concor series has an upswep rear, for better purchase when pushing big gears, and a distinctive nose shape which resists the tendency for the rider to slide forward when producing maximum effort. The Corsaire range gives good design at bargain prices. Latest in the range is the Profil, a development of the Concor which makes it even more aerodynamic. The saddle mould is altered to provide a "spoiler" extending backwards from the nose on the underside to decrease wind resistance.

#### Junior Racing

248 Junior Black  
Each 1C SMO A6620 30M £1-56

#### Adult Racing - less clips

313/5 Corsaire - Black suede  
Each 1C SMO A6635 30M £5-32

313/2 Corsaire - Smooth leather  
Each 1C SMO A6637 30M £7-10

312/7 Gi-Lux - Black Sueded  
Each 1C SMO A6639 30M £6-82

267/20 Profil Black  
Each 1X SMO A6643 30M £10-70

267/9 Concor  
Each 1X SMO A6655 30M £13-20

#### Polo - High Rise - Senior models

150/6 Montegrappa  
Each 1C SMO A6725 30M £4-62

Saddle covers in assorted colours  
Each 1C SMO A6626 10U £1-52

#### Chrome Seat Stays for Cross Saddles

985 Long Pattern  
Each 1C SMO A6755 30M £2-44



312/7 Gi-Lux

## SCHNEPHER-KLUT



### Plata Track pump

Ideal for any rider who finds pumping tyres hard work. This top-quality pump makes light work of inflating tyres up to 15 atmospheres. An easy dial keeps track of the pressure.



Plata 'Special' with dial gauge  
Each 1B SKT A5040 5U £19.20

Gauge only  
Each 1B SKT A5056 £7.20

### Pump Adaptor & Spares

3132 for 'Plata' pump with chain  
Each 1B SKT A5025 £1.22

3170 Washer for above  
Each 1B SKT A5030 £0.18

3174 Washer for dual adaptor  
Each 1B SKT A5033 £0.18

3081 Flexible connection with dual adaptor  
Each 1B SKT A5035 £4.92

as readily as a tubular and carried as a spare. The flexibility is enhanced by a fine nylon fabric and a black tread with a high central rib and chevroned 'shoulders'. It is eminently suitable for fast long-distance riding over all but the roughest terrain. 280 gm.



27" x 1 1/4" Folding  
Each 1B SSR A9202 5U £8.96

## SIM



### Ball Retainers

C566 Cycle head (steel cage) 1/2" balls  
Each 1C SM A370 £0.10

5588 Cycle bottom bracket (steel cage) 1/4" balls  
Each 1C SM A372 £0.10

## SPORFABRIC



### Bags and supports

**Boyobag**  
Black nylon zipped bag for under-saddle use. Happily takes a folded tubular or waterproof, and fixes to the saddle with the accompanying strap.



Boyobag  
Each 1X SPC A302 5M £1.72



### Easyon bag support

Nothing could be simpler than this dural saddlebag support, which fixes cleverly to the seat stays without clips or clamps. The frame finish is protected by vinyl cladding.

Easyon  
Each 1X SPC A320 5M £3.20

## STRONG



### Seat pillars

**Model S fluted**  
Users of ordinary straight-seat pillars and Brooks-type saddle clips can now

enjoy the pleasing appearance of fluting thanks to this high-duty alloy pillar. In diameters 26.4, 26.8 and 27.2mm, length 200mm. 96 gm.



Model S, fluted  
Each 1C SG A7045 30M £2.48

### Model NS-1 Micro

Superb value seat pillar in light alloy with a grooved column. It incorporates a micro-adjusting cradle, and both the tilt and the saddle clamp are operated by a single allen key bolt approached from below. In sizes 25.0, 26.2, 26.4, 26.8, 27.0 and 27.2mm, 200mm length. 240 gm.



NS-1 micro  
Each 1B SG A7065 5U £8.86

## STRONGLIGHT



### Bottom bracket axles and bolts

65 Cotterless axle 113mm  
Each 1B ST A710 £8.90

65 Cotterless axle 120.5mm  
Each 1B ST A715 £8.90

65 Cotterless axle 125.5mm  
Each 1B ST A720 £8.90

59/60 Axle end bolts  
Each 1B ST A730 £0.38

## SILVER STAR



### Folding H.P. Tyre

This 27 x 1 1/4 cover is the latest addition to the small selection of high-pressure tyres that can be folded



## The latest catalogue is available from us FREE

Send only 29p to cover postage to  
Ron Kitching  
Sun Tour offer  
Hookstone Park, Harrogate,  
N. Yorks.



# ACCESSORIES

# Ron KITCHING

SUN TOUR



## STANDARD SERIES

### Sealed bearing bottom bracket unit

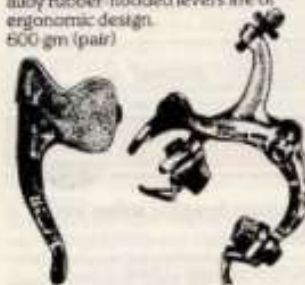
**SS-150 Mountain bike triple**  
Sealed unit with 130mm chromo axle, clearance for triple mountain bike rings and extra clearance on the opposite side too. Steel body and lockrings. 389 gm.

SS-150 Mountain bike triple  
Each 1C **STRA752 5U** £26-34

### Brakes

#### Cyclone

Borrowing much of their style from the Superbe brakes, these brakes come in depths 40-50mm or 47-57mm. In mirror-finished forged light alloy, the stirrups have adjusters and quick-release which can be locked in any intermediate position. The light alloy rubber-hooded levers are of ergonomic design. 600 gm (pair)



CB-7000 Cyclone (40-50mm)  
Pair 1C **STRA813 5M** £42-58

CB-8000 Cyclone (47-57mm)  
Pair 1C **STRA814 5M** £42-58

#### XC Power Brakes

Incredible stopping power is offered by these brakes designed for use on mountain bikes. The arms pivot around special braze-on fittings, and are perforated for lightness. The principle owes much to the centre-pull, but without the loss of rigidity occasioned by straddle cables. Instead, the main cable pulls up on a triangular wedge working in grooves to push apart the brake arms at the upper extremity, and consequently push them together on the rim. The lightweight levers incorporate easy cable removal and an ingenious grub screw fitting to exactly set their reach.



CB-6000 XC Power Brakes  
Set 1C **STRA819 5U** £61-28



Sealed BB unit

### Chains

#### Z-chain

Flexible standard-width  $\frac{1}{2}$ " chain, black/silver, suitable for use with derailleur gears.

TZ-6000 Z-chain  $\frac{1}{2} \times \frac{1}{2} \times 116$   
Each 1C **STRA1919 10U** £2-86

#### Cyclone

A high-carbon steel chain in ultra narrow dimensions, with a Dai-hard finish for extra durability. Silver and black finish.

SP-6100 Cyclone  
Each 1C **STRA1934 5U** £6-18

### Chain guide

#### Super Champion

Invaluable accessory for use with single chainrings to stop the chain unshipping over rough ground. Bolts to seat tube as with normal front changer.

Super Champion  
Each 1C **STRA1926 10U** £6-82

### Multiple freewheels

Complete freewheels are stocked in the ratios listed below. Other ratios are available only as unassembled, separate body and sprockets in teeth sizes shown under Spares.

#### Perfect 888 5-speed

Beta's most popular freewheel, stocked everywhere for its reliability and its interchangeability of sprockets.

Top two sprockets (14 to 17) are screwed to the body, while the remaining three (16-38) are on a single spline.

Natural: brown finish.  
335 gm (14-18)

Model PT-5000  
14 15 16 17 18  
16 17 18 19 20  
14 16 18 20 22  
14 16 18 21 24  
15 17 19 21 24  
Each 1C **STRA2500 25M** £5-74

14 17 20 23 26  
Each 1C **STRA2505 25M** £5-94

14 17 20 24 28  
Each 1C **STRA2515 25M** £6-24

14 18 22 26 30  
Each 1C **STRA2520 25M** £6-44

14 18 22 28 34  
Each 1C **STRA2525 25M** £6-94

14 17 21 26 32  
Each 1C **STRA2530 25M** £6-64

14 17 20 24 28  
Tandem Special  
Each 1C **STRA2532 25M** £6-64

14 17 22 26 38  
'AG' Alpine Special  
Each 1C **STRA2535 25M** £8-42

### Spares for Perfect 888 freewheel

Body only  
Each 1C **STRA2550** £3-96

Top and 2nd screwed cogs (14 to 18)  
Each 1C **STRA2551** £6-90

3rd, 4th and 5th splined cogs (16 to 26 except 25)  
Each 1C **STRA2553** £9-90

3rd, 4th and 5th splined cogs (27 to 34 except 29, 31, 33)  
Each 1C **STRA2556** £1-34

38 tooth, 5th  
Each 1C **STRA2557** £1-78

Spacing washer only - wide  
Each 1C **STRA2559** £6-12

Spacing washer only - narrow  
Each 1C **STRA2560** £6-12

Spacing washer only - narrow bevelled (for 15T cogs)  
Each 1C **STRA2561** £6-12

**Perfect 888 6-speed**  
A 6-speed version of the 888 model, using a different body but all the same sprockets except for the special 13-tooth top screwed sprocket.

Model PS-6000  
13 15 17 18 21 24  
Each 1C **STRA2710 25M** £7-24

13 15 17 20 24 28  
Each 1C **STRA2713 25M** £7-72

13 16 20 24 28 34  
Each 1C **STRA2716 25M** £8-42

### Spares for PS-6000

Body only - 6 speed  
Each 1C **STRA2719** £4-56

13 tooth screwed cog  
Each 1C **STRA2720** £1-20

### Pro-Compe 5-speed

A 5-speed freewheel using similar screwed and splined sprockets to the Perfect 888, but in a distinctive gold finish. The body has ground ball races, and spreads the drive load over three pawls against the two of the Perfect 888.

Model PC-5000  
14 15 16 17 18  
14 16 18 20 22  
14 16 18 21 24  
15 17 19 21 24  
14 15 17 19 21  
Each 1C **STRA2600 25M** £7-14

### Spares for Pro-Compe freewheel 5-speed

As with Model 888 can be supplied in other ratios from spares.

Body only  
Each 1C **STRA2640** £4-56

Top and 2nd screwed cogs (14 to 17)  
Each 1C **STRA2641** £1-24

3rd, 4th and 5th splined cogs (16 to 26)  
Each 1C **STRA2643** £1-24

3rd, 4th and 5th splined cogs (27 to 34 except 29, 31, 33)  
Each 1C **STRA2646** £1-78

Spacing washer only - wide  
Each 1C **STRA2659** £6-12

Spacing washer only - narrow  
Each 1C **STRA2660** £6-12

Spacing washer only - narrow bevelled (for 15T cogs)  
Each 1C **STRA2661** £6-12

### Single freewheels

Quality single freewheels for standard hubs, available in either  $\frac{1}{4}$ " or  $\frac{1}{2}$ " Model PS-1500

Single  $\frac{1}{4} \times \frac{1}{4}$ "  
SD-16 16 tooth  
Each 1C **STRA2601 25M** £2-48

SD-16 18 tooth  
Each 1C **STRA2603 25M** £2-48

SD-19 19 tooth  
Each 1C **STRA2605 25M** £2-48

SD-20 20 tooth  
Each 1C **STRA2607 25M** £2-48

Single  $\frac{1}{2} \times \frac{1}{2}$ "  
SD-16 16 tooth  
Each 1C **STRA2611 25M** £2-48

SD-18 18 tooth  
Each 1C **STRA2613 25M** £2-48

### Freewheel display/service boards

#### 888/Pro-Compe

For the dealer, an ideal way to stock and display Sun Tour freewheel bodies, sprockets and spacers. The boards are in a striking blue acrylic sheeting with white lettering and chrome-plated hooks for the spares. They also clearly show how each freewheel should be built up. Size 61 x 86 cm. Comprising 60 assorted 'Perfect' sprockets 14-34 and 40 'Pro-Compe' sprockets 14-34, 20 bodies, 40 Wide spacers - 20 Flat spacers, 4 Bevelled spacers - complete with hooks for fittings.

Display/service board  
Each 1C **STRA2680** £230-68

## Mechanic's freewheel service case

The answer to storage or transport of freewheel bodies and sprockets. This set is contained in a stout, well-finished wooden case with double fastenings, with a full selection of sprockets for Perfect 888 (total 61 in all) and Pro-Compe (46) freewheels, plus bodles, spacers, a hub vice, chain-type sprocket remover and a freewheel remover. The case is versatile, and can be used to store or carry other kinds of Sun Tour sprockets if required. Just right for the stage-race mechanic or the shopkeeper with limited room.



Mechanics service case  
Each 1C STRA2682 £186-10

## Mountain bike ensemble

An accessory ensemble for mountain bikes, from Sun Tour and associated companies. Buying the ensemble offers a considerable saving over the purchase of separate components.

Comprises—  
SUN TOUR  
Moun-Tech front and rear derailleurs  
MicroLite power shift levers (for straight 'n' bars)  
XC-II Bear Trap sealed bearing pedals  
BH-1400 sealed bearing s/f hubs, solid spindle  
2-chain, 116-link  
QR-170 Seat pillar q/r bolt  
New Winner 5-speed freewheel, 13-30  
SS-150 sealed bearing bottom bracket unit, chrome moly axle, for triple chainset  
H5-100 headset  
Fitting tools for hubs and bracket set  
DIA-COMPE  
980 brazed-on brakes, complete with bosses  
280 levers for straight 'n' bars  
SUGENO  
AT triple forged chainset with 26/36-46 rings and 175mm cranks

Mountain bike ensemble  
Set 1C STRA2685 £223-62

## Gears - front changers (less lever)

**NSL**  
Lightweight alloy changer with top normal set-up, allowing the rider to use his own strength to change down on a suddenly steepening gradient. 110 gm.

FD-1700 NSL  
Each 1C STRA3015 20M £5-20

**Spirit**  
Alloy body, steel cage, top normal with good capacity. 145 gm.

FD-1000 Spirit  
Each 1C STRA3006 20M £3-88

**VX**  
Alloy body, steel cage with cut-outs. Low normal and good capacity. A good 'workhorse'. 115 gm.

FD-1800 VX  
Each 1C STRA3004 20M £4-56

**LE Tech**  
Wide-capacity changer with top normal. Light alloy except for inner cage plate, which is steel, designed to clear chain stays on a shallow-angled frame. Excellent with triple chainrings. 118 gm.

FD-3200 LE Tech  
Each 1C STRA3007 20M £9-42

**Compe-V**  
Alloy body with perforated steel cage. Top normal with good capacity. Bargain price. 134 gm.

FD-1100 Compe-V  
Each 1C STRA3010 20M £3-96

**MounTech**  
Features a 26-tooth range, achieved by the long specially shaped cage design. A deep scallop towards the rear of the inner plate serves to get a better pick-up on a small chain ring. Body and outer cage plate are of light alloy, inner cage plate of steel. Low normal. Designed for mountain bikes, but adopted by all kinds of cycle tourists. 102 gm.

FD-2700 MounTech  
Each 1C STRA3013 20M £8-32

**AR**  
Alloy body, steel cage, low normal with good capacity. Slim cage with cut-outs. Excellent price for an inexpensive racing changer. 112 gm.

FD-2500 AR  
Each 1C STRA3032 20M £4-88

**Cyclone**  
An old name with a new look, the Cyclone changer has a light alloy parallelogram body with a heat-treated chrome-plated cage. A healthy 18-tooth capacity makes it right for racing and touring. 101 gm.

FD-3300 Cyclone  
Each 1C STRA3021 20M £7-22

**Cyclone II**  
A model with plenty of capacity and many aerodynamic qualities, with projections kept to a necessary minimum. The new endless clamp ensures even tightness all round and the firm Allen key bolt which tightens it is recessed into a housing. Light alloy body, chrome-plated steel cage. Low normal, generous capacity. 94 gm.

FD-2300 Cyclone II  
Each 1C STRA3028 20M £10-40



**ARX**  
A lightweight changer of modern lines, resembling the Cyclone II. Light alloy with steel inner cage plate. Low normal. Can be used with bare wire or sheathed cable. 93 gm.



FD-2600 ARX  
Each 1C STRA3042 20M £6-94

**AG**  
A front changer for the wide-ratio tasks. The width of the cage is adjusted automatically as the change is made from large to small chainring, obviating the risk of the chain jamming between rings or overshooting. It also has the drawbridge design for easy chain removal. Light alloy, with steel cage plates.



FD-2100 AG  
Each 1C STRA3043 20M £5-10

**AG Tech**  
Super-wide ratio for touring and mountain bikes, double or triple chainrings. Alloy with steel cage, inner plate scalloped for better pick-up. A marvelous gear for the money. 128 gm.

FD-2800 AG Tech  
Each 1C STRA3044 20M £4-86

**Gears - rear mechanisms**  
**Volante**  
Good strong alloy and steel gear for all-round use. 263 gm.

RD-2600 Volante  
Each 1C STRA3045 20M £5-94

**Honor**  
Steel gear with longer cage for increased capacity. Quick cage for easy chain removal. 400 gm.

RD-1100 Honor  
Each 1C STRA3055 20M £6-24

**MounTech**  
A gear for any kind of terrain from the smoothest roads to the roughest going. It incorporates the slickness, compactness and smooth shape of the ARXGT, with the technologically advanced twin pivot cage mechanism. This pivots at two points giving double articulation, and allows the jockey wheel to stay a constant distance from each freewheel cog. This advantage comes into its own particularly on wide ratio freewheels. Light alloy body with a steel cage. 277 gm.

RD-4000 MounTech  
Each 1C STRA3057 20M £12-88

continued - p 35






# ACCESSORIES

# Ron KITCHING

## Front Derailleurs














Model	Gear capacity (Max. difference between chainrings)	Weight
<b>SUPERBE PRO</b> 	14T	82 gms
<b>SUPERBE PRO (Braze on)</b> 	14T	92 gms
<b>SUPERBE II</b> 	18T	100 gms
<b>CYCLONE (New model)</b> 	18T	101 gms
<b>CYCLONE II</b> 	18T	94 gms
<b>LE TECH</b> 	26T Max 6T Min	118 gms
<b>ARX</b> 	18T	93 gms

<b>VX</b> 	15T	115 gms
<b>AG</b> 	22T	155 gms
<b>AG TECH</b> 	26T Max 6T Min	128 gms
<b>AR</b> 	18T	112 gms
<b>MOUNTECH</b> 	26T Max 6T Min	102 gms
<b>NSL</b> 	16T	110 gms
<b>COMPE-V</b> 	18T	134 gms
<b>SPIRT</b> 	18T	145 gms

## Rear Derailleurs



Model	Gear Capacity	Weight
<b>SUPERBE PRO II</b> 	25T (Total difference) Front 12T Rear 13T - 26T = 13T	176 gms
<b>SUPERBE II</b> 	22T (Total difference) Front 12T Rear 13T - 23T = 10T	163 gms
<b>SUPERBE TECH GTL</b> 	40T (Total difference) Front 19T Rear 13T - 34T = 21T	307 gms
<b>SUPERBE TECH I</b> 	34T (Total difference) Front 13T Rear 13T - 34T = 21T	302 gms
<b>SUPERBE TECH S</b> 	28T (Total difference) Front 15T Rear 13T - 26T = 13T	201 gms
<b>LE TECH</b> 	38T (Total difference) Front 17T Rear 13T - 34T = 21	305 gms

<b>CYCLONE (New model)</b> 	28T (Total difference) Front 17T Rear 13T - 24T = 11T	210 gms
<b>CYCLONE Mk II RACING</b> 	28T (Total difference) Front 15T Rear 13T - 26T = 13T	160 gms
<b>CYCLONE Mk II G.T</b> 	34T (Total difference) Front 13T Rear 13T - 34T = 21T	170 gms
<b>MOUNTECH GTL</b> 	40T (Total difference) Front 19T Rear 13T - 34T = 21T	283 gms
<b>MOUNTECH</b> 	34T (Total difference) Front 13T Rear 13T - 34T = 21T	277 gms
<b>AG TECH GTL</b> 	40T (Total difference) Front 16T Rear 14T - 38T = 24T	366 gms
<b>AG</b> 	34T (Total difference) Front 10T Rear 14T - 38T = 24T	399 gms

<b>ARX RACING</b>		28T (Total difference) Front 15T Rear 13T - 26T = 13T	206 gms	<b>VX</b>		24T (Total difference) Front 12T Rear 14T - 26T = 12T	200 gms
<b>ARX GT</b>		34T (Total difference) Front 14T Rear 14T - 34T = 20T	280 gms	<b>VX GT</b>		34T (Total difference) Front 14T Rear 14T - 34T = 20T	210 gms
<b>ARGT</b>		34T (Total difference) Front 14T Rear 14T - 34T = 20T	303 gms	<b>VX S</b>		28T (Total difference) Front 16T Rear 14T - 26T = 12T	210 gms
<b>AR</b>		28T (Total difference) Front 13T Rear 13T - 28T = 15T	280 gms	<b>VOLANTE</b>		25T (Total difference) Front 13T Rear 14T - 26T = 12T	263 gms
				<b>HONOR</b>		28T (Total difference) Front 12T Rear 14T - 30T = 16T	400 gms

## Control Levers











Model	Material	Mechanism	Clamp Diameter and Attachment Position	Lever	Weight
<b>SUPERBE PRO II</b>		Forged light alloy (lever) Anodised finish Stainless steel clamp Brazed on version available	28.6mm Down tube (Clamp on) or Down tube bosses	Double	64 gms
				Double	46 gms
<b>SUPERBE</b>		Forged light alloy lever Anodised finish For brazed on bosses	Down tube boss fitting	Double	52 gms
					(Brazed-on)
<b>CYCLONE (New model)</b>		Light alloy mirror finish Steel clamp Brazed on version available	28.6mm Down tube  Brazed on Down tube	Double	69 gms
				Double	51 gms
<b>CYCLONE</b>		Forged light alloy lever Anodised finish Stainless steel endless clamp Brazed on version available	28.6mm Down tube	Double	60 gms
<b>VX</b>		Light alloy lever Stainless steel clamp	28.6mm Down tube	Double	80 gms
<b>PDL-M</b>		Light alloy lever Steel lever clamp	28.6mm Down tube	Double	125 gms
<b>PSL-M</b>		Light alloy lever Steel lever clamp	28.6mm Down tube	Single	72 gms
<b>DLW</b>		Light alloy lever Steel lever clamp	28.6mm Down tube	Double	83 gms





# ACCESSORIES



<b>SLW</b>		Light alloy lever Steel lever clamp	Universal type	28.6mm Down tube	Single	65 gms
<b>UBN-10</b>		Light alloy lever Steel lever clamp	Universal type	22.2mm H/bar stem	Double	143 gms
<b>UBN-5</b>		Light alloy Steel lever clamp	Universal type	22.2mm H/bar stem	Single	110 gms
<b>PUB-10</b>		Light alloy lever Steel lever clamp	Power lever with ratchet	22.2mm H/bar stem	Double	227 gms
<b>BAR-CON</b>		Light alloy Die cast	Power shift	H/bar end	Double	176 gms
<b>MICROLITE POWER THUMB SHIFTER</b>		Light alloy lever Stainless steel clamp	Power lever with ratchet	22.2mm H/bar	Double (1 pair)	155 gms
<b>MIGHTY SHIFTER II</b>		Light alloy lever Stainless steel clamp	Power shift	22.2mm H/bar	Single	95 gms
<b>TOP MOUNT</b>		Light alloy (Lever & body) Stainless steel clamp Braze on version available	Universal type	28.6mm Down tube	Double	74 gms
				Braze on for Aero or round	Double	69 gms



### SUN TOUR - continued

#### Mountech GTL

As the Mountech, but with an even larger cage and consequently increased total capacity. A dream of a wide-ratio gear. 283 gm.

RD-5500 Mountech GTL  
Each 1C STRA3098 20M £14-06

#### VX

The VX gear is inexpensive, yet still offers the basic advantages of the Sun Tour systems: the patented slant parallelogram system which keeps a constant clearance between freewheel sprockets and the jockey pulley, ensuring smoother changes, and the 'straight wire' feature, which keeps links out of the gear cable, meaning longer life and less friction on gear changes. Light alloy. A bargain racing gear. 200 gm.

RD-2200 VX  
Each 1C STRA3074 20M £8-52

#### VXS

As the VX, but with a slightly larger cage which increases the capacity. Quick cage. 210 gm.

RD-2500 VXS  
Each 1C STRA3079 20M £8-52

#### VXGT

The long-cage VX, with touring capacity and quick cage. 210 gm.

RD-2400 VXGT  
Each 1C STRA3084 20M £8-50

#### LE Tech

All the features of the Mountech, but with the trim and finish of the Cyclone II gears. A first-class wide-ratio gear. 305 gm.

RD-5900 LE Tech  
Each 1C STRA3085 20M £21-78

#### Cyclone

This latest addition on to the Sun Tour range is a racing gear with an amazing 28-tooth maximum capacity, also taking a 24-tooth largest sprocket. In Mirror-finished light alloy, it follows the lines of the Superbe Pro II gears. 210 gm.

RD-6000 Cyclone  
Each 1C STRA3051 20M £15-04

#### Cyclone II

A streamlined version of the Cyclone, which has already proved so popular with competitive cyclists. Housings are smoothed off to give better airflow, and adjusting screws recessed. Compact, good-looking — and a gear which won't let you down. Forged light alloy. Lightest in the Sun Tour range. 160 gm.

RD-3500 Cyclone  
Each 1C STRA3101 20M £18-32

#### Cyclone II GT

As the Cyclone II, but with larger cage for increased capacity. 170 gm.

RD-3700 Cyclone II GT  
Each 1C STRA3105 20M £19-32

#### AR

A bargain racing gear, using the aerodynamics of the Cyclone II for its style, and light alloy and steel for its construction. 280 gm.

RD-4200 AR  
Each 1C STRA3106 20M £7-44

#### ARGT

Long-cage touring version of the AR. 303 gm.

RD-4400 ARGT  
Each 1C STRA3107 20M £7-92

#### ARX

A medium-price gear using the aerodynamic lines and many of the features of the Cyclone II. Satin finished light alloy with steel cage. 205 gm.

RD-4300 ARX light alloy  
Each 1C STRA3120 20M £9-42



#### ARXGT

Long-cage touring version of the ARX. 280 gm.

RD-4500 ARXGT  
Each 1C STRA3121 20M £10-40

#### AG (Alpine Gear)

An inexpensive gear designed to take extreme ratios, right up to the 38-tooth sprocket available on the Sun Tour AG Perfect freewheel. Light alloy and chrome-plated steel. 375 gm.

RD-3400 AG  
Each 1C STRA3124 20M £8-52

#### AG-Tech GTL

Ultra-wide ratio gear using the twin pivot system of the Mountech. Light alloy and steel. 366 gm.

RD-5600 AG-Tech GTL  
Each 1C STRA3126 20M £12-48

Spine hanger bracket for rear gears  
Each 1C STRA3109 £0-60

### Jockey Pulleys

#### Standard

Reitalize your rear mechanism with a new set of jockey wheels and immediately improve the drive. Suit all Sun Tour gears and most others.

Spine Pulleys for rear gears  
Set 2 1C STRA3108 £1-30

#### Sealed bearing

Sun Tour's sealed bearing replacement jockey wheels reduce drive train friction and thus save rider energy. They fit all Sun Tour gears and most others too. A double-sealed precision bearing is fitted to a Delrin plastic pulley wheel, with additional alloy washers as double dust shields. 30 gm (pr).

Sealed bearing pulleys  
Set 2 1C STRA3111 10U £6-54



# ACCESSORIES

## Ron KITCHING

### SUN TOUR - continued

#### Gear control levers (with inner & outer cable)

##### Downtube fitting

###### SLW single

Right-hand hooded alloy lever with steel clamp  
56 gm.

LS-1000 SLW  
Each 1C STRA3230 20M £2-78

###### DLW double

Double alloy lever, slotted blades, with steel clamp.  
63 gm.

LD-2900 DLW double  
Each 1C STRA3235 20M £3-56

###### VX double

Compact double light alloy levers with stainless steel clamp and ring-bolt tension adjusters.  
80 gm.



LD-1900 VX double  
Each 1C STRA3236 20M £3-96

###### PSLM single

Single light alloy lever, steel clamp, with ratchet mechanism to minimize power needed to change.  
72 gm.

LS-1500 PSLM single power  
Each 1C STRA3240 20M £3-66

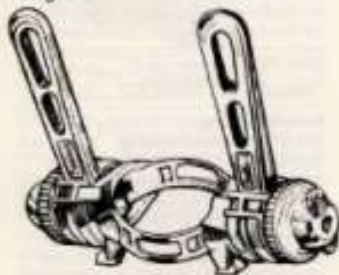
###### PDLM double

Double version of PSLM.  
125 gm.

LD-1500 PDLM  
Each 1C STRA3245 20M £5-64

###### Cyclone double

Forged and slotted light alloy levers, "endless clamp" in stainless steel. Ring-bolt adjusters. Lightweight.  
60 gm.



LD-1600 Cyclone double  
Each 1C STRA3250 20M £10-40

**Cyclone control levers**  
Mirror finished slimline double levers with ring adjusting bolt.  
60 gm.



LD-3700 Cyclone  
Each 1C STRA3251 20M £5-74

#### Top Mount double

Aerodynamic levers placed above the downtube rather than at each side. Light alloy with stainless steel endless clamp. Self-adjuster to minimize chain "tinkle" on extremes of gears. The need to "overchange" is also obviated.  
74 gm.



LD-2300 Top Mount double  
Each 1C STRA3260 20M £8-02

#### Gear control levers (Braze-on)

##### Top Mount

As standard Top Mount, but available to braze on either round or aero tubing.  
68 gm.

LD-2350 Top Mount double  
Each 1C STRA3265 20M £8-02

##### LD-2350 Top Mount aero tube

Each 1C STRA3266 20M £8-02

##### Cyclone double

As standard Cyclone, but for braze-on fittings.  
52 gm.

Cyclone double  
Each 1C STRA3268 20M £10-90

##### Cyclone

As the clamp-on lever, but suitable for Sun Tour or Italian braze-on bosses.  
51 gm.



LD-3750 Cyclone  
Each 1C STRA3269 20M 5-74

#### Gear control levers (handlebar)

##### Mighty Shifter

Compact single power lever with ratchet. For straight bars of 1 1/8" diameter.  
95 gm.

LS-2200 Mighty Shifter  
Each 1C STRA3270 20M £4-36

#### MicroLite power thumb shifter

A ratchet lever designed for use on all flat handlebars, and particularly on off-road bikes. It uses Sun Tour's endless band clamping system, has a rugged lever, and a quick-adjust friction screw similar to that on Superbe levers. When you push with your thumb, you work against the derailleur spring, and with the spring when you pull with the index finger. The curved shape is designed to keep the thumb from slipping on rough terrain.  
155 gm (pair).



LD-2800 MicroLite power thumb shifter  
Pair 1C STRA3242 5U £10-40

LD-3000 Power thumb shifter II  
Pair 1C STRA3243 20M £12-48

#### Bar-Con

Light alloy handlebar-end power levers with ratchet. Ideal for time trialing or cyclo-cross.  
176 gm (pair).

LD-1400 Bar-Con bar end fitting  
Pair 1C STRA3273 20M £13-44

#### Gear control levers (stem-fitting)

##### UBN-10

Double stem-fitting lever.  
142 gm.

LD-3000 UBN-10 double  
Each 1C STRA3280 20M £4-42

##### UBN-5

Single stem-fitting lever.  
105 gm.

LS-3500 UBN-5 single  
Each 1C STRA3281 20M £3-66

##### PUB-10

Double stem-fitting lever with power ratchet on right-hand side.  
227 gm.

LD-1300 PUB-10 double power  
Each 1C STRA3283 20M £5-64

#### Gear tunnels and stops

OS-120 1/8" Chainstay stop  
Each 1C STRA3285 £0-36

OS-110 Single D/T stop  
Each 1C STRA3286 £0-46

OS-100 Double D/T stop  
Each 1C STRA3287 £0-46

WL-100 Single D/T Tunnel  
Each 1C STRA3288 £0-46

WL-100 D/T Tunnel and stop  
Each 1C STRA3289 £0-46

#### Gear lever rubbers

White  
Each 1C STRA3400 £0-20

Black  
Each 1C STRA3401 £0-20

#### Handlebar stem

##### KC-V

Mountain bike stem, with pillar in Cromo. 75mm extension in anodised light alloy. Clamp is 22.2mm diameter, secured by two allen-key bolts. Includes special locking feature which spreads the clamp for easy bar installation.  
330 gm.



MS-1400 KC-V  
Each 1C STRA4135 5U £19-80

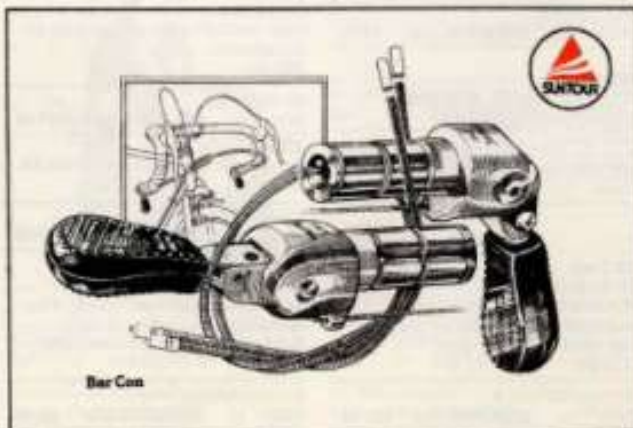
#### Hubs - track

##### Sprint

Excellent beginner's track hub also usable on the road, because it is threaded for fixed cog one side, single freewheel the other. Forged light alloy, silver anodised, large-flange, solid spindle. Drilled 28/32/36.  
535 gm (pair).



RH-4400 Sprint  
Pair 1C STRA4420 5U £30-10



Bar-Con



## SUN TOUR -- continued

### Hubs - quick release

#### VX

Inexpensive small-flange quick-release light alloy hubs, spoked 36H. Over-locknut dimensions: 100mm (front), 120mm (rear). 595 gm (pair).

RH-1500 VX  
Pair 1C STRA6630 SU £10-22

### Hubs - sealed bearing

#### Quick-release

The advantages of sealed bearings have been common knowledge to engineers for decades. But the high degree of precision, low need for maintenance, and long, dependable life which they provide has only been available to bicyclists in premium priced products.

Now, Sun Tour advanced bicycle technology has produced a sealed bearing hub with the same precision, smoothness and maintenance-free durability as high-priced sealed hubs, but at a price which any cyclist can afford. The hub shell is computer-machined from an aluminium alloy casting. Both large and small flange are available, drilled for 36 spokes.

The hubs use conventional quick-release axles with adjustable retainers, assuring perfect fit, but providing the convenience of easily available replacement of a damaged axle.

The precision sealed bearings are of an internationally standard size, and front and rear hub bearings are identical. The alloy spacer between the bearing and lock nut also acts as a secondary seal to protect the bearings from grit and moisture. 622 gm (pair, small-flange). 647 gm (large-flange).

RH-4600 Small flange  
Pair 1C STRA4640 5M £28-72

RH-4700 Large flange  
Pair 1C STRA4642 5M £31-98

### Mountain bike, solid spindle

A solid-spindle version of the same hubs, with 130mm rear over-locknut dimension. Drilled 36. Suitable for off-road bikes or tandems. 565 gm (pair).

RH-1400 Small flange  
Pair 1C STRA4644 5M £25-06

### Cyclone

Sealed-bearing small-flange hubs with quick-release. Forged light alloy shells in the modern diabolo shape, dished with slant-cut flanges. Drilled 28/32/36. 536 gm (pair).

BH-2000 Cyclone  
Pair 1C STRA4653 SU £30-70

### Quick-release skewers

QR-100 Front  
Each 1C STRA4800 £2-68

QR-110 Rear  
Each 1C STRA4810 £2-88



### Pedals

#### VX

Quill road pedal with light alloy cage, pick-up tabs and threads for toe clip bolts.

360 gm (pair)



PL-1500 VX  
Pair 1C STRA5600 SU £10-40

#### Cyclone

A lightweight pedal owing much of its design to the much-admired Superbe Pro. With a light-alloy "lazy H" frame, chrome detachable side plates and Cromo steel axle, its design is outstanding -- and so is the price. 390 gm.



PL-5300 Cyclone  
Pair 1C STRA5602 SU £19-30

### Seat bolts (quick-release)

Two versions, the QR-120 with a useful shank length of 22-35mm, and the QR-170 (18-38.5mm) the latter designed for mountain bikes.



QR-120  
Each 1C STRA6680 £2-48

QR-170  
Each 1C STRA6681 £4-26

### Spoke Disc

6" Plastic  
Each 1C STRA7430 20M £0-70

7 1/2" Plastic  
Each 1C STRA7440 20M £0-80

SD-750 7 1/2" Chrome plated  
Each 1C STRA7450 20M £0-90

SD-750 7 1/2" Light alloy  
Each 1C STRA7460 20M £1-98



## ROAD GROUP

### Brakes

Top quality side-pull braking in the modern vogue. In polished light alloy

with shallow stirrups, quick release levers on lower brake arms, wheel guides and rubber-buffered adjusters. Blocks are 35mm by 10mm with two slots and the shoes have both ends closed. The 6mm pivot bolts have spanner flats for spring adjustment. The perforated levers are held by hand-clips with Allen screws fitted, and have extremely comfortable natural rubber hoods. Available in two depths.

40-50mm (549 gm pair)  
47-50mm (565 gm pair)



CB-3000 Superbe Pro 40-50mm  
Pair 1B STRA800 SU £51-82

CB-4000 Superbe Pro 47-50mm  
Pair 1B STRA801 SU £51-82

CB-3000 Superbe Pro 40-50mm (Allen key fitting)  
Pair 1B STRA802 SU £51-82

### Brake levers

#### CB-3200

Perforated levers with rubber hoods. Silver anodised finish. As supplied with brake sets. 219 gm (pair).

CB-3200 Superbe Pro perforated  
Pair 1B STRA830 SU £12-87

#### CB-2200

More compact lever, unperforated blade, shorter than CB-3200 and slightly shorter reach with rubber hoods. 220 gm (pair).



CB-2200 Superbe Pro compact  
Pair 1B STRA831 SU £14-24

### Brake lever hoods

Translucent  
Pair 1B STRA835 £2-70



# ACCESSORIES

# Ron KITCHING

SUPERBE PRO - continued

## Chainwheel & crankset

Brand new in the Superbe Pro range, a forged light alloy crankset with an eye-catching design which is both aerodynamic and good-looking. The right-hand crank blends into the spider arms for increased stiffness. Interchangeable rings feature cut-outs, in sizes 42 to 54. Crank lengths 165, 170, 172.5 and 175mm. Delivered with double rings to choice, but without bracket set. 658 gm.



CW-5000 Crankset inc. double rings  
Set 1B STRA2010 SU £60-47

## Chainrings

42 to 47 teeth  
Each 1B STRA1620 £9-61  
48 to 54 teeth  
Each 1B STRA1625 £11-04

## Control levers

We believe that the Superbe Pro levers are the lightest available, ergonomically designed for finger-tip changing, these drop-forged levers incorporate a double friction locking mechanism which prevents unwanted changes. Available as braze-on (compatible with Italian bosses and supplied with Sun Tour fittings) or with clamp-on fitting



LD-3200 Superbe Pro clamp-on  
Each 1B STRA3232 SU £10-02

LD-3250 Superbe Pro braze-on  
Each 1B STRA3233 SU £10-02

## Gears - front changers

This latest top-flight front changer is more compact without losing efficiency. The 'endless clamp' fixing system gives clean lines to the downtube. The mounting bolt fits into the changer body, eliminating another protrusion. A braze-on fitting is also possible. Light alloy with stainless steel clamp. 85 gm.

FD-2000 Superbe Pro  
Each 1B STRA3036 SU £14-16

FD-2050 Superbe Pro braze-on  
Each 1B STRA3037 SU £14-16

## Gears - rear mechanism

### Superbe Pro II

The new Superbe Pro II derailleur typifies the range. Smooth in looks and in operation, compact, making use of the finest materials. The body is of drop-forged light alloy, the pulley wheels are of polyester resin, running on sealed bearings. It has a sculptured cage which aids air flow, a concentric tension spring which, like a watch spring, does not fatigue like ordinary coil springs, and is sealed with Delrin bushings. The adjustment screws have nylon inserts to guard against movement through vibration. It will handle a 26-tooth rear sprocket. And at 176 grams, it is one of the world's lightest derailleurs. 176 gm.



RD-5200 Superbe Pro II  
Each 1B STRA3145 SU £20-00

## Head fittings

Forged and anodised light alloy cups and cones, with inserted Cromo steel ball tracks. A lightweight set suitable for road and track. 110 gm.

HD-150 Superbe Pro  
Set 1B STRA4453 SU £20-48

## Hubs - sealed bearing, quick release

The new Superbe Pro hubs are unique in several ways. First, the bearings are sealed and shielded to eliminate dirt and moisture, yet they are fully serviceable with ordinary hub spanners. No other sealed hubs on the market can be taken apart, be relubricated, and have the balls, races or bearing surfaces replaced, and all with just ordinary hub wrenches, like traditional hubs.

Second, the bearings are of the angular contact type, which gives them the same radial load capacity as other sealed bicycle hub bearings, but greater thrust loading capacity. Third, the balls can be run in the

self-lubricating Delrin retainer, or the retainer can be removed and balls added.

Fourth, the flanges of the cold-forged alloy hub shells are concave, to better aim the spoke toward the rim, and the outside edge of each flange is carefully bevelled to eliminate spoke bending.

Fifth, the rear road hub can be set up as a symmetrical five-speed or an asymmetrical six or seven speed, simply by moving a spacer from one axle end to the other.

Sixth, the axles are to Japanese Industry Standard for bicycle hub axles, which means that a bent axle can be replaced with easily available standard parts. The new Superbe Pro hubs come as trial flange road. The rear hubs are available with 126mm locknut-to-locknut dimensions. Drilled 28/32/36 520 gm (pair).



BH-1500 Small flange  
Pair 1B STRA4657 £47-62

## Pedals

The basis of the Superbe Pro pedal is a machined alloy forging that has greater strength and durability than anything similar which is currently available. It affords ultra-firm housing for two needle roller bearings and a hollow chrome-alloy steel spindle threaded  $\frac{9}{16}$ " x 20. The black alloy cage is attached by seven Allen screws with 8mm flat heads and 3mm sockets and has a pick-up tab, a strap-guide and threaded toe-clip holes. It is also tapered towards the outside to give enhanced ground clearance. With grease-packed shielded bearings and sturdy construction, long life and efficiency are assured despite the low weight. 300 gm.



PL-4000 Superbe Pro  
Pair 1B STRA5655 SU £30-95

Side plates for Superbe Pro pedals  
Pair 1B STRA5657 £4-63

## TRACK GROUP

### Hubs

#### Superbe 'Custom'

From time to time there appears a bicycle component which is so obviously "right" in form, finish and presentation that even a cursory glance evokes approval and admiration. These track hubs are of that category. The one-piece bodies are turned from forged light alloy with "solid" flanges 75mm in diameter and 3.5mm thick at the spoke holes.

The latter are not countersunk, but the flanges are angled to the line of the spokes and on the single-sided rear hub are a full 72mm apart to give maximum lateral strength. The plated solid axles are 9mm front and 10mm rear and 100 and 120mm respectively over the serrated locknuts, and fitted with heavily chromed trackracks.

Precision-ground cones and ball tracks with close-fitting seals give unsurpassed smoothness, and the mirror finish with fine circular chasing on the flanges make a firmament of elegant efficiency. Drillings 28, 32 and 36 (or to special order). 572 gm.



BH-3100 Superbe Custom L/F  
Pair 1B STRA4635 SU £45-73

### Superbe Pro

Following the solid-flange lines of the Superbe Custom, these hubs offer the advantage of sealed bearings as used in the small-flange quick-release road hubs (BH-1500). Drilling 28, 32 and 36. 545 gm.

BH-1600 Superbe Pro L/F  
Each 1B STRA4636 SU £47-62

### Pedals

As Superbe Pro road pedals, but with separate track-style sideplates. 278 gm.

PL-2000 Superbe Pro  
Pair 1B STRA5670 SU £38-95

Side plates for Superbe Pro pedals  
Pair 1B STRA5672 £2-75

### Fixed sprockets

Cromo steel fixed sprockets, precision ground, available in 1/4" width, 12-17 teeth.

HC-100 Superbe Pro  
Each 1B STRA4711 £3-00

HC-900 L/Wing for racing sprockets  
Each 1B STRA4713 £0-34



## ROAD GROUP

### Bottom bracket set

Steel set, chrome-plated cups, lockings, with ground and hardened bearing surfaces. With ball retainers. Chromo axle. 300 gm.



BB-100  
Set 1B STRA750 5U £12-01

### Sealed bearing bottom bracket units

An answer not only to problems caused by the ingress of water and dust, but also that of changing chainline as cranks wear against the tapered axle. This unit can be adjusted sideways within the bracket shell. It features double-sealed bearings, with the cups and the bearings themselves being sealed. The shell, cups, lockings are of alloy, the axle of steel and the taper suits not only Superbe cranks, but also Campagnolo, Sugino Super Mighty, and others of similar dimensions. In single (track) double and triple axle lengths. 280 gm.

SA-110 double 117mm  
Set 1B STRA755 5U £28-40

SA-120 triple 120mm  
Set 1B STRA756 5U £28-40

## Chains

### Ultra-6

A special  $\frac{3}{32}$ " lightweight Chromo chain for use with any compact freewheels (or standard if required) such as the Ultra range. It has thinner link plates and smaller chain pins for a smaller external width. The link plate inner surface is chamfered for more efficient changing, and the plates have a hardened silver finish.



UC-6000 Ultra 6  
Each 1B STRA1925 5U £5-77

### Superbe

An exceptional chain in Ultra size in high-carbon steel which has been Dai-hard treated. Specially shaped outer links, and inner links chamfered for easier changing. Silver finish. An exceptional light and flexible derailleur chain. 346 gm.



SP-6000 Superbe 16x $\frac{3}{32}$ "x114L  
Each 1B STRA1929 5U £6-31

## Chainwheel and crankset

Forged light alloy double chainset with rings interchangeable with many other popular makes. Inner ring 42 upwards, outer 48-54. Crank lengths 170, 172.5 and 175mm. Includes bottom bracket set. 910 gm.



Double chain set  
Set 1B STRA1950 5U £62-98

## Chainwheels

Inner 4mm thick dual -  $\frac{1}{2}$ "x $\frac{9}{16}$ " sizes  
42-47

Each 1B STRA1600 £7-52

Outer 5mm thick dual -  $\frac{1}{2}$ "x $\frac{9}{16}$ " sizes  
47-54

Each 1B STRA1610 £17-23

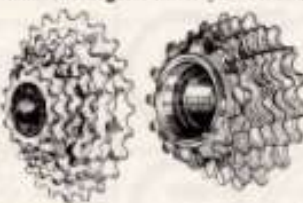
Chainwheel Bolts  
Set 5 1B STRA1958 £1-72

## Multiple freewheels

**New Winner Regular and Ultra**  
Sun Tour have an unrivalled range of New Winner freewheels, offering the Winner 5 Regular in standard width 5 or 6-speed, plus the Ultra-6 and Ultra 7 freewheels in narrow-width 6 or 7-speed.

Incredibly, all four types of freewheel use the same body, and many of the sprockets can be used to make up any type of freewheel. The Ultra-6 and Ultra-7 take up virtually the width of a Regular 5 and 6 respectively, but Ultra, Superbe or similar narrow chains should be used. Spare sprockets and spacers are readily available, and the freewheel cones are adjustable using the special TA-180 tool.

**Winner 5 Regular** use any  $\frac{3}{32}$ " chain)



## 5 Speed $\frac{1}{2}$ "x $\frac{9}{16}$ "

NWN 55  
13 14 15 16 17  
Each 1B STRA2850 5M £9-01

13 15 17 19 22  
Each 1B STRA2860 5M £9-18

6 speed  $\frac{1}{2}$ "x $\frac{9}{16}$ "

NWN 65  
13 14 15 16 17 18  
Each 1B STRA2880 5M £9-87

13 14 15 16 18 21  
Each 1B STRA2885 5M £10-30

13 14 15 17 20 24  
Each 1B STRA2890 5M £10-73

Ultra (Use Ultra or Superbe chain)

6 speed  $\frac{1}{2}$ "x $\frac{9}{16}$ "

US-6000  
13 14 15 16 17 18  
Each 1B STRA2920 5M £10-30

13 14 15 16 18 21  
Each 1B STRA2925 5M £10-73

13 15 17 19 21 24  
Each 1B STRA2930 5M £11-15

13 15 17 20 24 28  
Each 1B STRA2935 5M £12-01

13 15 17 20 26 32  
Each 1B STRA2940 5M £13-04

Ultra

7 speed  $\frac{1}{2}$ "x $\frac{9}{16}$ "

12 13 14 15 16 17 18  
Each 1B STRA2950 5M £12-44

12 13 14 15 17 19 21  
Each 1B STRA2955 5M £12-87

12 14 16 18 20 22 24  
Each 1B STRA2960 5M £13-30

12 14 16 18 20 24 28  
Each 1B STRA2965 5M £14-16

12 14 16 18 20 26 32  
Each 1B STRA2970 5M £15-19

Spares for New Winner and Ultra freewheels

16510070 Body  
Each 1B STRA2980 £6-86

Spare Sprockets Regular & Ultra

U12 £1-12

U13 £1-12

S13 £1-12

S14 £1-12

E13 £1-12

E14 £1-12

L13 £1-54

L14 £1-54

L15 £1-54

X14 £1-54

X15 £1-54

X16 £1-54

N14 £1-54

P14 £1-12

T15 £1-12

T16 £1-12

T17 £1-12

T18 £1-12

T19 £1-12

R15 £1-12

R16 £1-12

R17 £1-12

R18 £1-12

R19 £1-12

R20 £1-12

R21 £1-12

V16 £1-12

A17 £1-12

A18 £1-12

A19 £1-12

A20 £1-12

A21 £1-12

A22 £1-20

A23 £1-20

A24 £1-20

A25 £1-63

A26 £1-63

A28 £1-72

A30 £1-89

A32 £2-06





# ACCESSORIES



## SUNTOUR NEW WINNER SERVICE BOARD

MADE IN JAPAN

<b>1st</b> UL7 UL4 RES RES	<b>U</b> (UL7 ONLY) U12 U13	<b>S</b> (UL8 ONLY) S13 S14	<b>E</b> (REG. 5 ONLY) E13 E14																																																																																																																																																																																																																																																																																																																																																																																																				
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## SUPERBE - continued

### Spacers - Ultra

URD	£0-17
UTN	£0-17
UFT	£0-17
URV	£0-17

### Spacers - Regular

BD	£0-17
PT	£0-17
BV	£0-17

### Spacer shims

39x43x0.1mm SH-100	per 10	£1-37
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39x43x0.2mm SH-105	per 10	£1-37
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44x47x0.1mm SH-200	per 10	£1-37
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44x47x0.2mm SH-205	per 10	£1-37
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52x56x0.2mm SH-300	per 10	£1-37
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52x56x0.3mm SH-305	per 10	£1-37
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### New Winner display/service board

Attractive blue acrylic sheet, chrome hooks, plus spares for all Regular and Ultra freewheels. Includes 4 bodies, 42 spacers and 114 sprockets.

See P. 40

Display/service board	Each 1B	STR A2999	£214-50
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### Microlite alloy freewheels

Building on the success of the New Winner 5/6/7 speed freewheel, Sun Tour has applied MicroLite technology to come up with a freewheel with the mechanism and versatility of the popular New Winner but with a body, sprockets and spacers made of a specially developed super duralumin for staggering lightness, only the bearings, which have precision-ground ball races, and the CrMo clutch cone, are steel. The special alloy used in this freewheel is superior in performance and durability to that used in other alloy freewheels. The unit is available in Ultra-6 and Ultra-7 speed configuration. 154 gm (13-18)

### Microlite Freewheels 6 speed

LF6000	13 14 15 16 17 18	Each 1B	STR A2972	£50-34
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	13 14 15 16 18 21	Each 1B	STR A2973	£60-32
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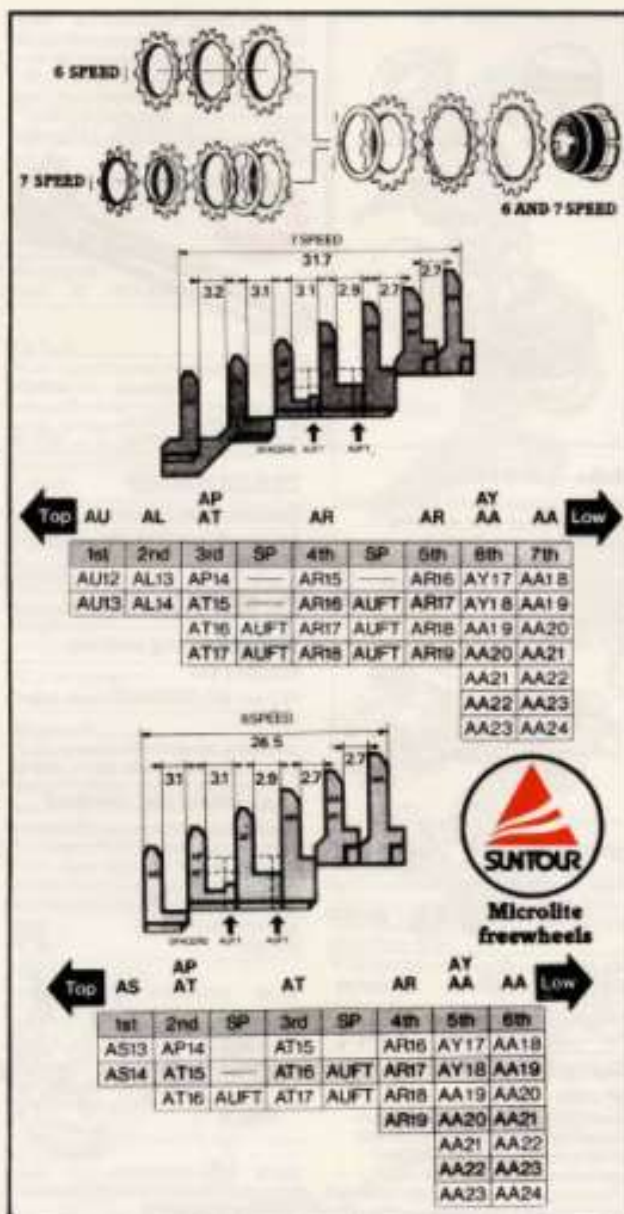
	13 14 15 17 20 24	Each 1B	STR A2974	£63-06
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### Microlite Freewheels 7 speed

LF7000	12 13 14 15 16 17 18	Each 1B	STR A2976	£67-52
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	12 13 14 15 17 19 21	Each 1B	STR A2977	£69-33
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	12 13 14 15 17 20 24	Each 1B	STR A2978	£72-07
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AY17	Each	£6-01
AY18	Each	£6-01

Spacer	AUFT	Each	£0-06
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### Spares for 'Microlite' body

Cone	Each	£1-28
Inner body	Each	£10-00
Pawl	Each	£0-04
Steel balls (31+42)	Set	£0-25
Ratchet ring	Each	£2-05
Outer body	Each	£15-17
Cover	Each	£1-50
Stop washer	Each	£0-18
Lockring	Each	£2-02

### Gears - rear mechanism

#### Superbe II

As the Superbe Pro II, but with a steel top pivot bolt instead of alloy, and with standard jockey pulley wheels. 163 gm.



RD-5300 Superbe II	Each 1B	STR A3144 SU	£23-17
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### Superbe Tech S, L and GTL

Three top-of-the-range rear derailleurs, one with standard dimensions, one with standard dimensions and super-long cage and twin pivot mechanism. Dirt, grit and moisture have interfered with efficient gear changing ever since the derailleur has been invented. Now Sun Tour have succeeded in making a sealed rear derailleur. Its design uses two large pivot bushings instead of the more traditional four, the entire shifting mechanism is permanently lubricated and sealed. An unusual cable routing provides a more direct pull without the friction caused by cable casing or by looping around corners. Instead, a special supplied cable guide (WL-130) needs to be fitted to the chain stay. All models have a light alloy body with a steel cage. Superbe Tech S 201 gm. Superbe Tech L 302 gm. Superbe Tech GTL 307 gm.

RD-4700 Superbe Tech S	Each 1B	STR A3136 SU	£19-31
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RD-4800 Superbe Tech L	Each 1B	STR A3141 SU	£20-14
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RD-5400 Superbe Tech GTL	Each 1B	STR A3143 SU	£21-02
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WL-130 Wire lead only	Each 1B	STR A3142 SU	£0-43
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### Spares for Microlite Freewheels

Body complete	Each 1B	STR A2979	£34-32
Alloy sprockets			
AU12	Each	AA17	£6-01
AU13	Each	AA18	£5-50
AL13	Each	AA19	£6-01
AL14	Each	AA20	£6-01
AP14	Each	AA21	£6-06
AT15	Each	AA22	£7-72
AT16	Each	AA23	£8-50
AT17	Each	AA24	£8-44
AR15	Each	AS13	£5-15
AR16	Each	AS14	£5-15
AR17	Each		£6-01
AR18	Each		£6-01
AR19	Each		£6-44
AY17	Each		£5-50
AY18	Each		£5-50



## SUPERBE -- continued



Superbe Tech 5

Superbe Tech 1

### Gear control levers

#### Superbe braze-on

Compact slotted levers in forged light alloy, with ring-bolt adjuster. 64 gm.

LD-2050 Superbe double  
Each 1B STRA3267 20M £7.38

### Handlebar stems

A beautifully finished stem in forged light alloy, with deep fluting along the sides of the extension and a cut-out section on top of the clip. A 6mm Allen-key turns the concealed steel expander bolt and the sunken clip-bolt which screws into an 8mm threaded housing. Clamp diameter 25.4mm. 265 gm (for 85mm).



RS-1000 85mm  
Each 1B STRA4124 5M £12.28

100mm  
Each 1B STRA4126 5M £12.71

110mm  
Each 1B STRA4128 5M £13.21

120mm  
Each 1B STRA4130 5M £13.63

### Head fittings

Road headset in top-quality chrome-plated steel with ground ball races. Available in BSA or Campag dimensions with British threads 3/8" balls. 172 gm.

HS-100 Road 1" x 24 TPI  
Set 1B STRA4450 5M £11.15

HS-100 Road 1" x 24 TPI (Campag type)  
Set 1B STRA4451 5M £11.15



### Hubs - quick release

Forged light alloy quick-release hubs, silver anodised, with precision ground ball races. Small or large-flange, drilled 28/32/36 with rubber hoods for quick-release. Superlative hubs. Spaced for 6 speed. 550 gm (small-flange) 600 gm (large-flange)



RH-1000 Small flange 1.37 x 24 TPI  
Pair 1B STRA4455 £47.38

RH-2000 Large flange 1.37 x 24 TPI  
Pair 1B STRA4455 £50.02

### Seat pillars

#### SP-1000

Based on the original Campagnolo design, the Sun Tour Superbe seat pillar is eight ounces of polished perfection. Apart from the steel clamping bolts, everything is in forged light alloy with eight flutes on the pillar and an anodized head affording ample tilt to accommodate all possible frame angles. In diameter 27.2mm, 200mm long. 227 gm.



SP-1000 Superbe - 200mm  
Each 1B STRA7040 5U £18.12

SP-2000 (300mm)  
SP-2100 (200mm)  
A surprisingly light seat pillar in two lengths, which uses the more secure

two-bolt clamp but places the Allen-key bolt heads in a much more accessible position. In forged light alloy, the pillar has a clamping mechanism which accepts both 7mm and 8mm wires, and gives a saddle angle adjustment of up to 15 degrees. 203 gm (SP-2000).



SP-2000 Superbe 300mm  
Each 1C STRA7020 £18.88

SP-2100 Superbe 200mm  
Each 1C STRA7025 £17.16

### TRACK GROUP

#### Bottom bracket set

As road set, but with 109mm axle. 295 gm.

BB-300 Co/Mo steel  
Set 1B STRA760 5U £12.00

#### Sealed bearing bottom bracket set

As road sets, but with 108mm axle. 275 gm.

SA-100 Track with 106mm axle  
Set 1B STRA765 5U £28.40

#### Chainwheel and crankset

Track version of the popular road chainset, complete with bottom bracket set and 1/2" single ring (although 3/4" can also be used with this crankset). Crank lengths 165 and 170mm, rings 48-54. 851 gm.



Chainwheel & crankset  
Set 1B STRA2000 5U £56.30

Chainwheels 1/2" x 1 1/2" 48 to 54  
Each 1B STRA1650 £17.23

#### Head fittings

Similar to road set, but slightly shallower, and with 3/8" balls. 145 gm.

HS-300 1" x 24 TPI English thread  
Set 1B STRA4470 5U £11.15

#### Hubs - solid spindle

Forged light alloy hubs, silver anodized and buff-polished. Ground ball races, large or small flange. Drilled 28/32/36. 457 gm pair (small-flange) 535 gm pair (large-flange)



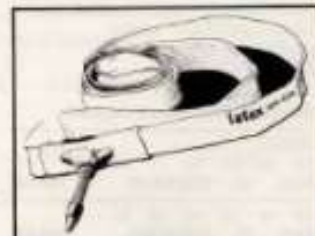
RH-4000 Small flange  
Pair 1B STRA4670 5U £41.00

RH-3000 Large flange  
Pair 1B STRA4660 5U £45.73



### Latex inner tubes

Robert Boulain, who makes these products, is one of the world's innovators in rubber technology. The lightweight inner tubes he makes are so special that they have been adopted by Vittoria for their tubulars. But these latex inner tubes are for use too with HP tyres, giving the "feel" of a lightweight tubular to the humble wired-on cover. Latex is natural rubber. It is strong yet flexible, and far superior to butyl in puncture resistance because it "gives" when a sharp object tries to puncture it. This natural flexibility also gives a much more comfortable "ride" for any given pressure. It also makes better use of a rider's energy. Robert Boulain has tested his tubes and found that using the same amount of energy, a rider has covered 165 kilometres - with ordinary inner tubes only 100 kilometres. These products have an appeal to the lightweight rider who wants to go further or faster, and to the leisure rider who wants more comfort, for fewer punctures, and an easier ride. Each tube comes in protective plastic packaging which can be slipped into a rear jersey pocket if required. It also comes complete with a measure of talc to aid fitting and to allow the tube to stay mobile within the outer cover when the tyre is at pressure - another aid against punctures.



There are two types of inner tube offered.

#### Rollatex

The traditional latex tube, but extremely light.

700 x 23C  
Each 1X SLXA9511 12M £4.00

27 x 1 1/4"  
Each 1X SLXA9514 12M £4.00

650 x 28B  
Each 1X SLXA9518 12M £4.00

### SUP'AIR LATEX - continued

#### Sup'air Latex

As the Rollatex, but specially treated to give the pressure retention of butyl without its disadvantages.

700x23C			
Each	1X	SLXA9501 12M	£4.82
27x1 1/4"			
Each	1X	SLXA9504 12M	£4.82
650x28B			
Each	1X	SLXA9508 12M	£4.82

### SUPER CHAMPION



#### Rims - dural

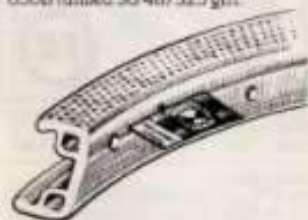
##### Mixte

Ingenious 700c rim which will accept either HP tyres or tubulars. Ideal for the all-year rider. Satin finished, drilled 36. 520 gm.

700c Mixte			
Pair	1B	SN A6341 50	£15.53

##### Model 58

A superb light HP rim with amazing strength thanks to its rigid section. Ideal for touring, and also appreciated by tandemists. Polished finish. 27 x 1 1/4" (drilled 36/40/48) 565 gm. 700C (drilled 36/40/48) 555 gm. 650B (drilled 36/48) 525 gm.



Mod 58 27 x 1 1/4"			
Pair	1B	SN A6360 10M	£12.20

Mod 58 700C			
Pair	1B	SN A6361 10M	£12.20

Mod 58 650B			
Pair	1B	SN A6362 10M	£12.20

Extra for other than 36/36			
Pair			£2.02

### SUZUE



#### Tandem hubs

Solid axle, with solid large flanges for maximum strength. In light alloy, they are spoked 36 front, 36 or 48 rear. The rear hub is double threaded, suitable for a screw-on rear brake such as the Primax-60. Locknut to locknut dimension is 135mm. 615 gm (pair).



Front - 36 hole			
Each	1B	SZE A4614 5M	£8.00

Rear - 36 or 48 hole			
Each	1B	SZE A4625 5M	£10.47

# MOUNTAIN BIKES?



**We stock virtually everything for Mountain Bikes.**



**Dirt Component set. Gears, hubs, pedals, seat bolt, seat post, freewheel.**



**Brakes**



**Rims**



**Tyres**



**Saddles**



**Gaskets**

T.A.

T.A.

T.A. is the world's most versatile chainwheel system backed by this French company's years of manufacturing expertise and our own unequalled stocking facilities, which ensure that all kinds of cyclists can find in the T.A. range the right kind of crankset and chainring combination for their use. You can get chainrings from 26 to 68 teeth. There are combinations for the tourist and for the racing man. And even tandemists can find what they need in the T.A. range, with two different chainset formulas to suit their preference.

Throughout the range the T.A. watchwords are quality, lightness and good design. For the touring cyclist the CYCLOTOURISTE chainrings are a must, offering double or triple chainrings from 26 to 68 teeth, and using the PROFESSIONAL crankset. Chainwheels of these varying sizes allow you to tackle any mountain pass, going up or down.

PROFESSIONAL chainrings, from 43 to 68 teeth, are meant for use with adaptors, which means they can be used on 3- or 5-pin cranks. Again, there are double and triple combinations, and the adaptor itself adds to the strength of the chainset as a whole, and virtually eliminates problems of chainrings going out of true.

The CRITERIUM chainrings do not need adaptors, are available to fit either 3-pin or 5-pin cranks, and are available from 43 to 68 teeth. Once again double and triple chainring combinations are available.

For those who prefer single chainrings, they are available either in the PROFESSIONAL or CRITERIUM style of  $\frac{1}{8}$  or  $\frac{1}{2}$  inch chains and there is even a CYCLO-CROSS chainring which incorporates two dual chainguards to stop the chain unshipping on uneven ground.

The CYCLOTOURISTE, CRITERIUM and PROFESSIONAL adaptor chainrings all fit the all-purpose PROFESSIONAL 5-pin crankset. This is not to be confused with the PROFESSIONAL 3-pin chainset, which comprises a bottom bracket set, 3-pin crankset and chainrings which are available from 36 to 68 teeth, an amazing range for a chainset aimed at the racing man.

For those who prefer a chainset with a 5-arm spider, and chainrings fitting a wide variety of cranks from several manufacturers, the answer can be found in the TEVANO range, a recent introduction from T.A. TEVANO chainsets, with triple, double and single chainrings, are light in weight, made to the highest manufacturing standards, yet are still available at a highly competitive price. Chainrings are from 42 to 56 teeth (from 32 on the triple).

Alongside the wide variety of chainrings and cranksets, T.A. offer a selection of drinking bottles and cages, touring bags and supports, pedals, shoeplates of all kinds, and an alloy headset.

Since 1948 T.A. have answered all your transmission problems. PRECISION — QUALITY — ACCURACY — FINISH — WEIGHT — INTERCHANGEABILITY — RANGE — STANDARDISATION — AVAILABILITY — PRICE.

You pose the question — T.A. has the answer.

Thousands of cyclists all over the world — club riders, tourists, road racers, track riders, record breakers — all find their requirements in the unrivalled T.A. range of light alloy chainwheels — single, double or triple, track or road — in sizes 26 to 68 teeth (or more if you wish!). With the chainwheels go a range of superb forged alloy cranks — 3- or 5-pin in a choice of 12 lengths. Remember, too, when you buy T.A. transmission you pay only for the product and not for the "Pro". T.A. opted out of the race to buy winning "pros" years ago to concentrate on giving amateurs better value.

## Bags

### Training

A neat and extra strong bag with full zip, suitable for either carrier or handlebar. 191 gm.



271 Training  
Each 1B TAA210 5M £8-00

Bag has a plastic covered map holder and folds completely over the bag and is held in position by an elastic which grips the expander bolt. 510 gm.



272 Randonneur  
Each 1B TAA215 5M £10-12

### Randonneur

The ideal way of distributing weight more forward. Made in top quality brown canvas with reinforced stitched piped edges and centre leather strip. In addition to the large 6" x 9" x 10" main compartments, the bag also incorporates two side, two back and one front pocket. The top

### Tubular

T.A. offer a tubular carrier in imitation leather to match their well-known handlebar bag. It can be fitted to a bottle cage by removing the plastic retainer and slipping the loop of the carrier over the wires and then replacing the plastic piece. Or a toe strap can be threaded through the loop and the carrier fixed behind the

saddle. The carrier can be used to hold a waterproof, an inner tube and several tools. The top is zip-fastened. 50 gm.



273 Tubular bag  
Each 1B TAA220 5M £5-23

## Bag supports

### 270

Sturdy front bag, rain cape or tube roll carrier. Using the brake centre and pivot bolts as fixing points, this carrier will support those touring accessories that a rider needs quickly while touring. Made of fine chrome steel tube. 120 gm.



270 Bag support  
Each 1B TAA300 5M £3-76

### PL270

As above but with headlamp fixing bracket. 130 gm.



PL270 with lamp attachment  
Each 1B TAA310 5M £4-63

## Bottles

T.A. Bottles are fitted with 'Miracle' caps enabling liquids to be taken without removing the cap. Just release the patented button with a sharp pull with your teeth and squeeze the bottle. T.A. Bottles available with own printed name (Min. 250).

## PROFESSIONAL

Ref. 200  
T.A.'s world-famous bottle. Made in special polythene to withstand enormous pressure. It is light, will take hot or cold liquids, and is guaranteed against odour. The 'Miracle' cap has a double seal, ensuring a watertight fit, and is attached by a flexible moulded loop with a thumb-push lip for easy opening. 60 cl.



Plain white (no badge)  
Each 1B TAA500 25M £1-03

F8 badge  
Each 1B TAA505 25M £1-03

Tour de France badge  
Each 1B TAA510 25M £1-03

Berlin badge  
Each 1B TAA530 25M £1-03

Tour de France (conical)  
Ref. 202

New conical shape — easy to handle. Attractive printed two-colour France badge. 'Miracle' cap. Holds 65 cl.

202 T.D.F. conical  
Each 1B TAA530 25M £1-08

## Isol Thermic

### Ref. 147

The latest idea from T.A. Completely insulated without the need for a separate cover. Keeps hot drinks hot and cold drinks cold for long periods.

147 Isol Thermic  
Each 1B TAA540 5M £2-53

## Gourde

The needs of the tourist are catered for here, in this squarish 'gourd' of tough aluminium. Anodised turquoise outside, its inner surface has a non-taint coating, and the wire and rubber stopper owes much to the old 'pop bottle'. It's designed for long life and frequent use, and the capacities of 0.75 and 1 litre will be appreciated. Needs a special 218 cage.

220 75cl - Gourde  
Each 1B TAA540 5M £10-06

222 100cl - Gourde  
Each 1B TAA544 5M £10-33

## T.A. - continued

### Hip flasks

Handy size, strong white plastic hip flasks with non-leak cork. Two sizes.



300 White - size 30cl  
Each 1B TAA550 25M £1.09

150 White - size 15cl  
Each 1B TAA551 25M £0.86

### Bottle Caps and Corks

21 Mtwade cap  
Each 1B TAA560 £0.23

20 Criterium cap  
Each 1B TAA565 £0.15

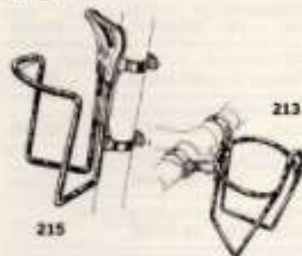
03 Cork for 300 hip flask  
Each 1B TAA570 £0.36

05 Cork for 150 hip flask  
Each 1B TAA575 £0.36

### Bottle cages

#### Professional

The 215 steel cage with plastic grip comes in handlebar, downtube or braze-on versions. 134 gm.



213 Professional handlebar  
Each 1B TAA600 25M £4.13

215 Professional downtube  
Each 1B TAA605 25M £2.75

215AB Professional braze-on  
Each 1B TAA610 25M £2.22

#### Neo-Pro

The model 214 offers a simpler chrome-plated steel cage with plastic grip for double use. 120 gm.

214 Neo-Pro downtube  
Each 1B TAA606 25M £1.71

#### Record

Model 412, a budget satin-finished light alloy cage with plastic grip, for downtube use. 60 gm.

412 Record downtube  
Each 1B TAA612 25M £1.75

### Record Legere

Model 417, light alloy cage, luxury quality, anodised black or silver, in clip-on or braze-on versions. 64 gm.



417 Record Legere clip-on downtube  
Each 1B TAA615 25M £3.98

417AB Record Legere braze-on  
Each 1B TAA620 25M £3.37

### Gourde

21B For Gourde with DTube clips  
Each 1B TAA623 5M £4.40

21BAB For Gourde braze-on fitting  
Each 1B TAA624 5M £4.00

21BNU For Gourde, cage only  
Each 1B TAA625 5M £3.73

### Bottle and cage sets

#### Record

Ensemble of Record alloy cage and white plastic bottle with detachable cap. 110 gm.

382 Record ensemble, downtube  
Each 1B TAA639 10M £2.23

#### Gourde

Ensemble of Gourde bottle (see above) with special cage. Two bottle sizes.

0-57L With wire clip stopper  
Set 1B TAA645 £14.46

1-00L With wire clip stopper  
Set 1B TAA646 £14.72

### Bottle Cage Spares

13 Pro set handlebar clips & bolts  
Set 1B TAA660 £0.80

15 Pro set downtube  
Set 1B TAA665 £0.58

17 Set clips for Record cage  
Set 1B TAA670 £0.71

16 Criterium downtube clips  
Set 1B TAA675 £0.52

### Bottom bracket components



W700 Set of 2 cups & lock ring 1.370 x 24 (UK)  
Set 1B TAA700 5U £7.73

ITA700 Set of 2 cups & lock ring 36 x 24 (Italian)  
Set 1B TAA705 5U £7.73

S1709 Set of 2 cups & lock ring 35 x 100 (Metric)  
Set 1B TAA706 5U £7.73

17 Set of 2 axle end bolts with washers  
Set 1B TAA710 £0.42

314 Axle for single ring 111.5mm  
Each 1B TAA715 £7.26

344 Axle for double ring 114.5mm  
Each 1B TAA720 £7.26

373 Axle for triple ring 118.0mm  
Each 1B TAA725 £7.26

374 Axle for triple ring 123.5mm  
Each 1B TAA730 £7.26

375 Axle for tandem 125mm  
Each 1B TAA731 £7.26

12 Plastic sleeve  
Each 1B TAA735 £0.27

### Chainwheels

#### Professional 3-pin (36-68 teeth)

For use with W1693 cranks. Anodised.

243 Outer 46-68 teeth (also triple immediate)\*  
Each 1B TAA1600 25M £8.30

263 Inner 36-60 teeth for doubles and triples  
Each 1B TAA1605 £8.30

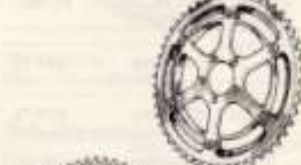
23P Assembly bolts for single  
Set 1B TAA1620 £1.52

43 Assembly bolts for double  
Set 1B TAA1625 £1.53

43 Assembly bolts for triple  
Set 1B TAA1630 £2.62

#### Professional adaptor chainwheels (43-68 teeth)

The finest combination for racing. Double or triple chainrings for 1/2 x 3/32" chains assembled on to an adaptor having a continuous double flanged rim that gives comparable rigidity and ensures that the rings always remain true. The same adaptor rings fit either 3 or 5 pin adaptors. Singles and triples also available. Polished finish.



104 Outer 43-68 teeth\*  
Each 1B TAA1640 25M £5.94

106 Inner 43-60 teeth\*  
Each 1B TAA1645 25M £5.94

173 3-pin Road  
Each 1B TAA1652 25M £9.55

175 5-pin Road  
Each 1B TAA1653 25M £9.55

#### Adaptors only for Professional chainwheels

173 3-pin Road  
Each 1B TAA1652 25M £9.55

175 5-pin Road  
Each 1B TAA1653 25M £9.55

### Professional chainwheels complete with adaptor

2173 3-pin double\*  
Set 1B TAA1660 £22.97

2175 5-pin s\*  
Set 1B TAA1661 £22.97

25 Crank fitting bolts 5-pin (set of 5)  
Set 1B TAA1670 £0.66

62 Assembly bolts (set 6) for double adaptor set  
Set 1B TAA1675 £1.54

### Criterium chainwheels (43-68 teeth)

Criterium doubles and triples offer exactly the same range as the Professional but without the use of the adaptor, thus saving slightly on both weight and price.



CR203 Outer 3-pin\*  
Each 1B TAA1700 25M £9.30

CR205 Outer 5-pin s\*  
Each 1B TAA1701 25M £7.08

204 Inner\*  
Each 1B TAA1702 25M £5.94

2203 Double 3-pin\*  
Set 1B TAA1710 £15.86

2205 Double 5-pin s\*  
Set 1B TAA1711 £14.63

3202 Triple 3-pin\*  
Set 1B TAA1712 £22.37

3205 Triple 5-pin s\*  
Set 1B TAA1713 £21.15

25 Crank fitting bolts (set 5)  
Set 1B TAA1670 £0.66

64 Assembly bolts (set 6) for double chainwheels  
Set 1B TAA1720 £1.61

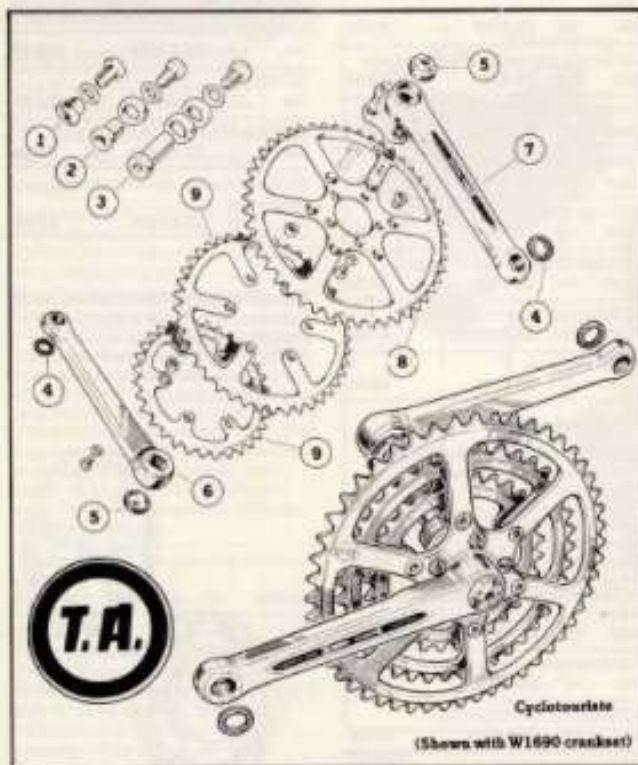
66 Assembly bolts (set 6) for triple chainwheels  
Set 1B TAA1725 £2.19

### Cyclotouriste chainwheels (26-68 teeth)

The incomparable double and triple chainwheels for touring, the Cyclotouriste (5 pin only) offers a tooth range that meets every requirement.

Recommended, as all other doubles and triples, to be used only with 1/2" x 3/32" chains. Remember every T.A. chainwheel is surface plate tested for truth before despatch. Use with W1690 Professional cranks. Polished finish.

## T.A. - continued



CY205 Outer 5-pin x\*  
Each 1B **TAA1750** 25M **£7-08**

208 Inner 36-41 teeth  
Each 1B **TAA1751** 25M **£6-09**

208 Inner 26-35 teeth  
Each 1B **TAA1752** 25M **£4-00**

R208 Inner 41-52 teeth (reinforced model)  
Each 1B **TAA1753** 25M **£7-08**

2235 Double 5-pin (26-35 inner) x\*  
Set 1B **TAA1760** **£12-69**

2235 Double 5-pin (36-52 inner) x\*  
Set 1B **TAA1761** **£14-79**

3235 Triple 5-pin (26-35 inner) x\*  
Set 1B **TAA1762** **£19-36**

3235 Triple 5-pin (36-52 inner) x\*  
Set 1B **TAA1763** **£21-46**

25 Crank fixing bolts  
Set 1B **TAA1670** **£0-88**

64 Assembly bolts for double c/wheels  
Set 1B **TAA1720** **£1-61**

86 Assembly bolts for triple c/wheels  
Set 1B **TAA1725** **£2-19**

### Single adaptor chainwheels (43-68 teeth)

P209 Adaptor chainring 1/2" or 9/16"  
Each 1B **TAA1780** 25M **£7-08**

### Adaptors only for above

P173 3-pin  
Each 1B **TAA1785** 25M **£9-55**

P175 5-pin x  
Each 1B **TAA1786** 25M **£9-55**

### Single chainwheels complete with adaptor (43-68 teeth)



P1753 3-pin\*  
Each 1B **TAA1790** **£17-71**

P1755 5-pin\*  
Each 1B **TAA1791** **£17-71**

P75 Assembly bolts track  
Set 1B **TAA1795** **£1-11**

### Chainwheels



203 3-pin 1/2" or 9/16" 36 to 68 teeth\*  
Each 1B **TAA1800** **£8-30**

205 5-pin 1/2" or 9/16" 36 to 68 teeth\*  
Each 1B **TAA1805** **£7-08**

205 5-pin 1/2" or 9/16" 26 to 35 teeth x  
Each 1B **TAA1810** **£5-05**

### KEY

- 1 Bolt to fit chainwheels on crank. Ref. 25 TAA1670.
- 2 Bolt for double chainwheels. Ref. 64 TAA1720.
- 3 Bolt for triple chainwheels. Ref. 86 TAA1725.
- 4 Washer for pedal. Ref. 137 TAA1992.
- 5 Dust cap for crank. Ref. 31 TAA1993.
- 6 Left hand crank. Ref. W515 TAA1990.
- 7 Right hand crank. Ref. W515 TAA1990.
- 8 Chainwheel 5-pin, type Cyclo touriste. Ref. CY205 TAA1750.
- 9 Inner chainwheel, type Cyclo touriste. Ref. 208 TAA1751-2.

### Chainwheels (single cyclo-cross) 43-52 teeth



1203 Chainwheel Special 3-pin  
Each 1B **TAA1820** 5M **£21-55**

1205 Chainwheel Special 5-pin x  
Each 1B **TAA1825** 5M **£21-55**

### Cranksets

Crank lengths available:  
150 - 160 - 162.5 - 165 - 167.5 - 170 - 172.5 - 175 - 177.5 - 180 - 185mm

**Professional W1690 5-pin**  
The all purpose crankset. All standard 5-pin chainwheels (from 26 teeth) and adaptors will fit these cranks which are held in position by large-headed, extra long axle end bolts on to the standard square-end cotterless axle. Silver anodised finish. Warning, please ensure that the pedal stop washers (ref. 137) are used. They are supplied with every complete crankset.

W1690 Crankset comprising 2 cranks, bracket set & axle  
Set 1B **TAA1950** 5M **£35-62**

W1690 1 Crankset with 205 single ring\*  
Set 1B **TAA1955** **£43-81**

W1690 2 Crankset with 2235 double Cyclo touriste rings\* (26-35 teeth inner)  
Set 1B **TAA1960** **£49-92**

W1690 3 Crankset with 2235 double Cyclo touriste rings (36 to 52 inner)  
Set 1B **TAA1961** **£52-03**

W1690 3 Crankset with triple ring (26-35 inner)  
Set 1B **TAA1965** **£57-24**

W1690 3 Crankset with triple ring (36-52 inner)  
Set 1B **TAA1966** **£59-27**

W515 Right hand crank 9/16" x 20F  
Each 1B **TAA1990** **£15-22**

W525 Left hand crank 9/16" x 20F  
Each 1B **TAA1991** **£11-71**

137 Pedal stop washers  
Pair 1B **TAA1992** **£0-15**

31 Axle end dust cap  
Pair 1B **TAA1993** **£0-80**

**Professional W1693 3-pin**  
Designed expressly for modern racing. Wider and more rigid crank form and extra solid short forged arms that will accommodate all the T.A. 3-pin range from a minimum of 36 teeth up to 68, this set gives a combination of rigidity of crank and rings plus a variation in teeth range that cyclists have long sought after.

It uses the same bottom bracket axle as the popular W1690 set, and can be used with single, double or triple chainwheels.

W1693 Road crankset comprises 2 cranks, BB set & axle  
Set 1B **TAA2000** 5M **£45-59**

W1693 1 Road crankset with single chainwheel\*  
Set 1B **TAA2020** **£55-92**

W1693 2 Road crankset with double chainwheel\*  
Set 1B **TAA2025** **£63-73**

W1693 Road crankset with triple chainwheel\*  
Set 1B **TAA2030** **£72-94**

WP1693 Track - LESS chainwheel\*  
Set 1B **TAA2050** **£47-63**

W513 Right hand road crank  
Each 1B **TAA2055** **£19-28**

WP513 Right hand track crank  
Each 1B **TAA2060** **£21-34**

W525 Left hand track/road crank  
Each 1B **TAA2065** **£11-70**

Other spares as W1690  
Extra for crank lengths other than 170mm  
Pair **£3-43**



T.A. - continued

## Cranksets - Tandem

There are two formulas of providing T.A. tandem transmission. Formula 1 (crossover drive) and Formula 2 (straight-through). Formula 1 allows the true use of triple rings, while Formula 2, although allowing a rear triple set, in fact only offers the effective use of the outside two rings, the inside ring being purely a drive link to the front chainwheel.

Formula 1 comprises: 2 cranks Ref. W515FG, 1 crank Ref. W515; 1 crank Ref. W525FD (left), 2 sets of bottom bracket cups Ref. W700, 1 axle Ref. 344, 1 axle Ref. 374 or 344, 2 chain wheels, 30 teeth Ref. 201, and 1 triple Ref. 3235 (Chaining sizes to choice) or double Ref. 2235.

Formula 2 comprises: 2 5-pin crankset Ref. 1690, 1 chainwheel 30 teeth, and 1 double or triple special tandem Ref. 2235 or 3235 (Chaining sizes to choice with 30 tooth inner ring). Metric threads available to special order.

### Formula 1 crossover drive 5-pin

W1690T Professional tandem (with triple ring)  
Set 1B TAA2100 5M £107.73

W1690T Professional tandem (with double ring)  
Set 1B TAA2105 £103.61

W1690T Professional tandem (without triple or double ring)  
Set 1B TAA2107 £89.49

### Formula 2 straight through drive 5-pin

W1690T Professional tandem straight through drive  
Set 1B TAA2110 5M £100.16

\*Supplement 53-68 teeth EXTRA to above prices for each tooth above 52  
Extra per tooth £0.73

### Special Chainwheels 203 & 205

69 to 100 teeth for every tooth  
Each £1.27

101 to 140 teeth for every tooth  
Each £1.77

x Price includes set of 25 fixing bolts

Supplement for anodising (per piece) (i.e. ring or crank)  
Each £0.95

Extra for cranks other than 170mm  
Pair £3.43

## Head fittings

### Alloy headset

Aluminium alloy components with steel bearing races.  
110 gm.

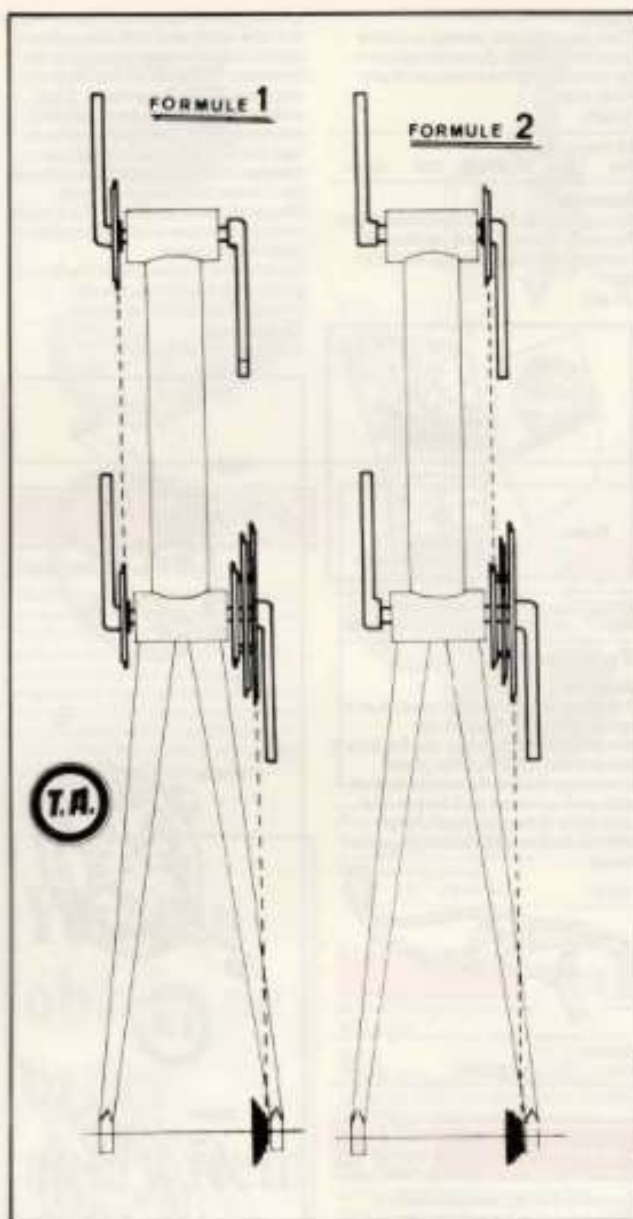
3800 Complete with ball bearings  
Set 1B TAA4400 5M £33.09

### Headset Spares

391 Fork crown race  
Each 1B TAA4450 £4.47

392 Bottom frame race  
Each 1B TAA4451 £9.57

393 Top frame race  
Each 1B TAA4452 £5.55



394 Adjusting cup	Each 1B TAA4453	£10.25
395 Washer	Each 1B TAA4454	£2.23
396 Locknut	Each 1B TAA4455	£2.87



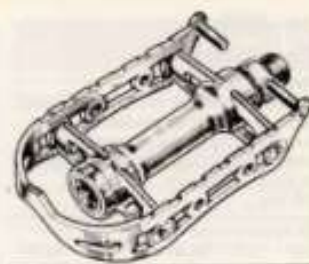
## Pedals

T.A. have entered this field with road and track pedals fitted with inner

needle roller and outer annular ball bearings. The inner roller bearing is sealed against water penetration.

The dust-cap, which is three notched for removal by special tool, is fitted with an oil-gun nipple. The body is in high-grade aluminium alloy and a novel feature is that the cage is attached by four sturdy flat-headed Allen screws, both front and rear plates have threaded holes for toe-clip fitting, also guides for toe straps and are thus fully reversible and interchangeable when worn.

Track pedals have separate front and back plates. Road pedals have a one-piece plate with quill.  
Track 290 gm.  
Road 300 gm.



W4690 Road  
Pair 1B TAA5600 5M £53.38



W4690 Track  
Pair 1B TAA5610 5M £53.38

690 Replacement pedal cage & fixing screw - road

Pair 1B TAA5630 £12.88

690 Replacement pedal cage & fixing screw - track

Pair 1B TAA5635 £12.88

## Orthopaedic

Many cyclists, troubled by unaccountable pains in legs, hips or back, finally discover that they have legs of unequal length. Now T.A. are offering a special "made to measure" service to compensate for such anatomical peculiarities. Based on their alloy track pedal, the Orthopaedic Pedal has interchangeable cage plates. A standard pedal would be partnered by one with plates of a greater depth. The recommended increase in depth would be two-thirds of the difference in leg length, a dimension that must be supplied by the customer. Clearly these pedals are to special order only, but they cost only slightly more than the standard T.A. pedal.



P4690 SO Piston Orthopaedic (special order only)

Pair 1B TAA5615 £80.91

## Seat bolts

365 Chrome - Allen key fitting  
Each 1B TAA6875 £1.39

368 As above with brake hanger  
Each 1B TAA6880 £2.53

# ACCESSORIES

**Ron  
KITCHING**

T.A. - continued

## Shoe plates

### Anquetil Road

Forged duralumin in 3 pieces riveted with copper. Road model has extra long base plate and Jacques Anquetil claims this design helps avoid cramp in long, hard races. 56 gm.

38 Anquetil Road  
Pair 1B **TAA7200** 25U **£2-30**

### Anquetil Track

The track model is shorter with deep slots and an extra strong base plate. 63 gm.

39 Anquetil Track  
Pair 1B **TAA7205** 25U **£2-16**

### Criterion

Extra light. Extra strong. Practical. Easiest to fit because of location slot.

36 Criterion  
Pair 1B **TAA7210** 25U **£1-20**

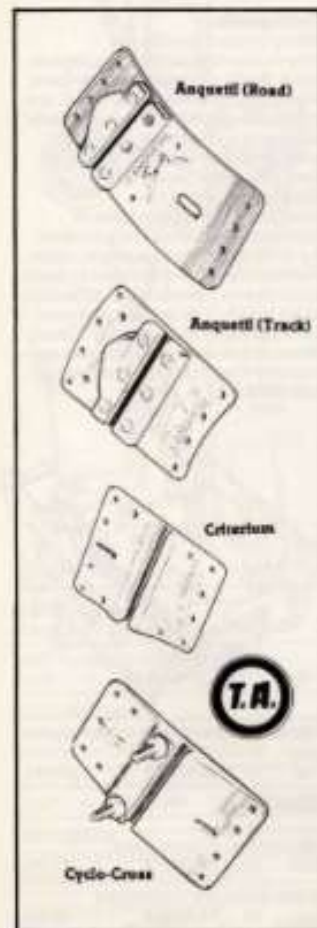
### Cyclo-cross

Superb one-piece alloy shoeplates with deep centre slot. The shoeplate base is threaded to take two detachable 3/4" long spikes. Supplied complete with fixing tacks. 84 gm.

Spikes can be obtained separately.

41 Cyclo Cross (inc. spikes)  
Pair 1B **TAA7215** 25U **£2-08**

27 set of 4 spikes for 41  
Set 1B **TAA7220** 25U **£1-16**



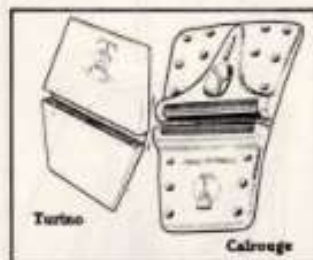
## Turnno

Two-piece leather riveted to centre steel strip which allows the plates to be moulded to the contours of any shoe sole. 42 gm.

40 Turnno - leather  
Pair 1B **TAA7225** 25U **£3-61**

## Cabrouge

Strong red plastic with reinforced slot. Specially curved to suit cambered racing shoe soles. Easy to fit and so light! 31 gm.

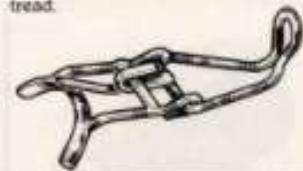


42 Cabrouge reinforced red plastic  
Pair 1B **TAA7230** 25U **£1-04**

## Tyre saver

### Raclette

For those who want the maximum of tyre and tubular life with the minimum of punctures, the Raclette is the answer. This chrome plated accessory fixes to the centre-bolt of side-pull or centre-pull brakes and dislodges flints and other sharp objects before they can damage the tread.



Raclette  
Pair 1B **TAA7910** **£4-84**

## TEVANO

Described as the newest name in chainwheel and cranksets, the Tevano is nevertheless made by the well-known T.A. concern, and carries a handsome mechanical specification. The set comes complete with bottom bracket set. The cranks are forged from aluminum alloy of the highest mechanical characteristics and the precision finish resulting in a satin-sheen gives a high degree of weather-proofing.

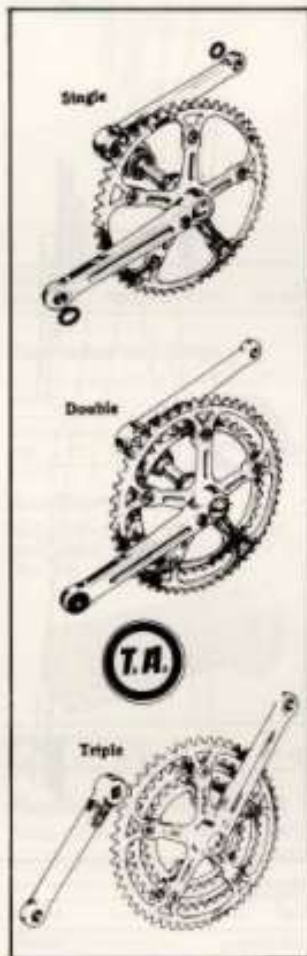
The same treatment is given the chainwheels. The teeth are shaped by a milling cutter. High-carbon steel, turned and polished, is used to make the axle and cups, which have trued ball-tracks. The fixing bolts are self-centering with socket heads polished and chromium-plated. Chainwheel sizes are 42 to 56 and these are interchangeable.

The set is five-arm fitting, cranks, chamfered and outer ring cut away, in the same manner as Campagnolo, whose rings will fit the Tevano

crankset and vice versa. The set will fit the bike easily and includes a plastic sleeve to keep water away from the bearings. The triple set has an inner ring from 32 teeth upwards. Total weight is 815 grams for the double set, once again exactly the same as you-know-who's, which includes a titanium bottom bracket axle against the Tevano's high-carbon steel. Standard crank length is 170mm but other lengths are available to order at slight extra charge. Look for the Tevano trade mark—a globe with a feather across it, adorning the top of the cranks.

## Chainwheels

Available 42-56 teeth



55S up to 52 teeth\*  
Each 1B **TO A1850** 10M **£10-30**

P55S up to 52 teeth\*  
Each 1B **TO A1860** 10M **£10-30**

## Chainwheel & Crankset (Anodised cranks)

AX5000 comprising pair of cranks, BB set and axle x\*  
Set 1B **TO A2150** 5M **£97-30**

AX5000/1 with single ring x\*  
Set 1B **TO A2155** 5M **£70-74**

AX5000/2 with double ring x\*  
Set 1B **TO A2160** 5M **£80-38**

AX5000/3 with triple ring rings available 32-56 x\*  
Set 1B **TO A2161** 5M **£91-49**

\*Supplement 53-56 teeth extra to above prices for each tooth above 52

Each **£1-05**

554 L.H. crank x  
Each 1B **TO A2165** **£11-40**

553 R.H. crank x  
Each 1B **TO A2166** **£29-16**

57 Pedal washers  
Pair 1B **TO A2170** **£0-15**

55 Assembly bolts  
Set 1B **TO A2175** **£2-88**

38 Assembly bolts Plus  
Set 1B **TO A2177** **£2-63**

51 Axle end dural dust cap  
Pair 1B **TO A780** **£0-00**

x Extra for other than 170mm cranks  
Pair **£4-90**

TTT



## Handlebars - dural

### Record Competizione

Heat-treated, progressive strength curve with large centre section size, 40 or 42 cm widths.

Road—Tour de France - Merckx - Gironde.

Track—Pista. 360 gm.



Tour de France  
Each 1A **TTT A3701** 20M **£9-71**

Gironde  
Each 1A **TTT A3711** 20M **£9-71**

Merckx  
Each 1A **TTT A3716** 20M **£9-71**

Pista  
Each 1A **TTT A3721** 20M **£11-06**

### Aerodynamic

The Record Competizione bar with a changed section on the upper part, for improved streamlining. Shape, the new Sarocrit, and 42 cm, 43 or 44 cm. 360 gm.



Aerodynamic  
Each 1A **TTT A3723** 20M **£13-73**

### Record Competizione Superleggero

Very light road bars for that extra-special event. 40 or 42 cm, in Tour de France, Gironde and Merckx shapes. 250 gm.

Tour de France  
Each 1A **TTT A3741** 20M **£16-60**

Gironde  
Each 1A **TTT A3747** 20M **£16-60**

Merckx  
Each 1A **TTT A3751** 20M **£16-60**

3 TTT - continued

### Handlebar stems - dural

#### Record Road

Beautifully finished stem, forged, with Allen-key clamp and expander bolts. Lengths 6-14 cm. Weights: 65 cm/238 gm, 13 cm/300 gm.



Record Road 6 to 9 cm  
Each 1A TTT A4051 20M £9-05

Record Road 9-5 to 14 cm  
Each 1A TTT A4056 20M £9-96

#### Record Pista 2

As the Record Road, but with 64-degree slope to the extension, for track work. In lengths 11-13 cm.



Record Pista 2  
Each 1A TTT A4061 20M £17-10

#### Record 78

Forged from the highest quality light alloy, its presentation and finish are impeccable. The extension is a tapering broad-oval section and the clip is tightened from below by a socket-headed sleeve-nut screwing over a threaded steel spigot let into the underside of the extension, invisible when screwed home. The appearance is very neat and frame from Allen key will turn the concealed expander bolt. Bolt and screw are in runless black finish. From 250 gm.



Record 78  
Each 1A TTT A4058 20M £12-14

#### AR 84

This latest addition solves the eternal problem of inserting handlebars without difficulty or damage to the surface of the metal. Alongside the concealed clamp bolt at the rear of the clamp, an allen-key grub screw can be tightened to force open the clamp for handlebar insertion. A wedge is

also included in the package for use when tear-drop aero bars need to be inserted. In light alloy, 9-13 cm, 280 gm.



AR 84  
Each 1A TTT A4062 20M £13-06

#### Record Adjustable

Adjustable Record stem, transverse grooved for positive location. With expander and wrench, forged in light alloy. 342 gm.



Record Adjustable  
Each 1A TTT A4072 20M £20-12

#### Handlebar stem spares

BR Record clip bolt  
Each 1A TTT A4106 £0-80

EXRN Record expander bolt  
Each 1A TTT A4110 £0-93

BR 78 Record 78 clip bolt  
Each 1A TTT A4116 £0-83

#### Seat pillar

##### Criterion

Single-bolt fixing and adjustment, pressed and forged in duralumin, with a grooved 160mm pin. Our lightest micro-adjusting pillar. 180 gm.



RSCA Criterion  
Each 1A TTT A7038 10M £12-17

BRSCA Criterion seat bolt  
Each 1A TTT A7050 £0-85

### TANGE



#### Head fittings

##### New Levin

Al-steel construction, with ground and polished races and polished chromium-plated finish. With two caged races of 15x3/32" steel balls. This is one of Britain's most popular headsets for all-round and especially racing use. 155 gm.

New Levin  
Set 1X TGE A4445 5M £5-99

##### Levin Alloy

Alloy headsets come out of the luxury price range with this model, which uses steel for its ball bearings and the inset race tracks. It offers a worthwhile weight saving at a reasonable price. Can be used for road and track. Includes two caged races. 90 gm.



Levin alloy  
Set 1X TGE A4449 5M £12-39

### VELOX



#### Handlebar tape

##### Tressorex

Herringbone twill adhesive tape in rolls of 2.5m x 20mm. Colours red, royal blue, white, black.



BS Tressorex twill tape  
Each 1C VX A4280 20M £0-78

#### Repair outfits (for tubulars)

##### No. 5

Metal box 80 x 60mm containing - 3 round patches 20mm, 2 round patches 25mm, 1 rubber sheeting

70 x 50mm, 1 tube Velox solution, 1 each thread card, needle, thimble, 1 emery paper.



No. 5 in metal box  
Each 1C VX A6220 10U £1-36

#### No. 2 De Luxe (workshop)

Metal box containing workshop kit - 3 round patches 20mm, 2 round patches 25mm, 1 rubber sheeting, 2 self vulcanising Flac patches, 20mm dia, 1 self vulcanising Flac patch 30mm dia, 1 tape for protecting puncture, 1 needle, 1 thimble, 1 tube Velox rubber solution, 1 tube Tubastix glue, 1 tube Flac self vulcanising solution, 1 marker pencil, 1 Velox thread card, 1 emery paper, 1 thimble.



No. 2 De Luxe  
Each 1C VX A6225 10U £3-02

#### Repair outfit (standard)

##### V6

A miniature outfit intended for narrow, high-pressure tubes. In a small plastic box with ten 15mm circular rubber patches, a 30 x 40mm patch-strip, emery paper, marking crayon and a small tube of Velox solution.



V6  
Each 1C VX A6260 20U £1-04



# ACCESSORIES

**Ron  
KITCHING**

## VELOX - continued

### Rim cement

#### Tubast

Tubular tyre cement used by the champions, permits several successive tyre fittings without renewal.



42 Tubast small tube  
Each 1C **VXA6410 20U £0-64**

44 Tubast small pot  
Each 1C **VXA6415 10U £2-74**

### Adhesive primer

Adhesive primer for dural rims, patented, Ref. No. 47. A special liquid adhesive for increasing the holding properties of rim cement and rim tapes when used just once a year. Can be used for sticking down non-adhesive handlebar tape and for sealing the ends of all handlebar coverings.



47 Adhesive Primer  
Each 1C **VXA6425 10U £2-50**

### Rim tapes

#### Jantex

Users of tubulars who prefer the cleanliness and long lasting qualities of sticky rim tapes to shellac or cement will find Jantex tape something special. The tape itself is practically indestructible - once fitted it is immovable and tyres can be removed and replaced repeatedly without the adhesive losing its gripping qualities. Highly recommended.



40 Jantex  
Each 1C **VXA6520 20U £1-96**

### Rim Strip

Extremely tough rim tape in adhesive-backed cotton, made for the wells of narrow H.P. tyres. Supplied in 16mm width, either in 2-metre rolls for one rim, or for bulk use in 100m rolls.



51 Rim Strip 2m  
Each 1C **VXA6522 10U £0-82**

51bis Rim Strip 100m  
Roll 1C **VXA6524 £25-60**

## Sewing thread

### Jantex

10 metres of finest tubular tyre sewing thread complete with needle.



Jantex 10m  
Each 1C **VXA7100 20U £0-84**

WIN



## Handlebars - mountain bike

### MT-28

Combination handlebar/stem unit in chrome-moly steel, for rigidity. The bars are 700mm wide, with a rise of 65mm, while the stem section has an extension of 120mm. A built-in hanger for a centre-pull brake cable is a welcome inclusion. 880 gm.



MT-28 Cr-Mo bar and stem combined  
Each 1B **WIN A3370 5U £23-58**

## Handlebar stems

### Crest KPY

Steel stem with no extension piece. For 22.2mm bars. 340 gm.

Crest KPY  
Each 1A **WIN A4100 10M £1-82**

### Medal

Inexpensive melt-forged stems in either 5 or 8 cm lengths. 300 gm (5 cm).



Medal 50mm forward extension  
Each 1A **WIN A4110 10M £3-19**

Medal 80mm forward extension  
Each 1A **WIN A4115 10M £3-42**

### Medallion V

A forged light alloy stem with Allen-key bolts, and a distinct weight-saving slot in the front of the handlebar clamp. In silver or black

anodised 8-5 or 10 cm.  
295 gm (8.5 cm).



Medallion V type 85mm  
Each 1A **WIN A4130 10M £8-77**

Medallion V type 100mm  
Each 1A **WIN A4135 10M £9-45**

WOLBER



## Tyres - H.P.

### Invulnerable

A high-pressure outer cover with a casing of rubbered Egyptian cotton and a fast mixed tread. Under the tread is a band of stainless steel mesh which wards off punctures. Size 27 x 1" or 700 c. 500 gm.



W23 700c Invulnerable  
Each 1X **WR A5188 £7-60**

W23 27 x 1" Invulnerable  
Each 1X **WR A5189 £7-60**

ZEUS



These Spanish-made components come in three main price levels. The New Racer range is bargain priced, aimed at the newcomer or rider with tight purse-strings. Chromium products, where available, are middle-range, while top-level demands are supplied in the Supercronos and 2000 ranges. All share the distinctive Zeus designs.

## Bottom bracket sets

23200 00 New Racer road double  
Set 1X **ZS A701 £7-90**

23100 00 Supercronos chrome-steel, road/track  
Set 1X **ZS A705 £12-46**

23005 00 2000 Titanox B/B Set, road (inc. 700 balls)  
Set 1X **ZS A740 £30-63**

23030 00 Ditto track  
Set 1X **ZS A755 £30-63**

## Spares for steel B/B sets

43103 00 Supercronos axle-road track  
Each 1X **ZS A726 £8-83**

43101 00 Ditto Triple/Cross  
Each 1X **ZS A727 £8-83**

43106 00 Fixed cup BSC  
Each 1X **ZS A728 £3-47**

43107 00 Adj. cup BSC  
Each 1X **ZS A729 £3-62**

43108 00 L-Ring BSC  
Each 1X **ZS A730 £2-03**

53105 00 End bolt  
Each 1X **ZS A731 £0-60**

53004 00 End bolt washer  
Each 1X **ZS A732 £0-29**

## Spares for Titanox B/B sets

33001 00 2000 Axle-road  
Each 1X **ZS A760 £17-36**

33003 00 2000 Axle track  
Each 1X **ZS A763 £17-36**

43005 00 2000 End bolt  
Each 1X **ZS A765 £1-88**

33006 00 2000 Fixed cup  
Each 1X **ZS A766 £10-81**

33007 00 2000 Adj. cup  
Each 1X **ZS A767 £9-47**

43008 00 2000 Locking  
Each 1X **ZS A768 £2-58**

## Brake sets

### New Racer

This shallow-depth alloy side-pull has a modern design featuring a simplified centre-bolt, and cable adjustment both in the stirrup and on the perforated lever, which has a brown rubber hood. This is a no-nonsense brake at a down-to-earth price for the budding champion. 690 gm.



27400 00 New Racer Std. Bolt  
Pair 1X **ZS A812 £20-32**

### Supercronos

Side-pull design in Super Earluran II. This latest top-line Zeus brake has aerodynamic brake shoes, a quick-release on the upper arm and comes either as a short-reach 40-50mm version with Allen-key centre bolt, or a standard reach (46-56mm) with standard bolt. The levers are drilled, with rubber hoods. 654 gm.



27000 00 Shallow Allen K. Bolt  
Pair 1X **ZS A814 £42-06**

27000 00 Standard - Std. Bolt  
Pair 1X **ZS A817 £42-06**

## ZEUS - continued

### Brake levers

37401.00 New Racer	Each 1X	ZS A816	£5.00
37001.00 Supercross	Each 1X	ZS A818	£5.63

### Brake lever hoods

57031.00 Translucent	Each 1X	ZS A1420	£1.34
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### Brake block and shoes

37019.00 New Racer/Supercross (shaped)	Each 1X	ZS A825	£0.97
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### Chainwheels

43011.00 2000 & Supercross inner outer road 36-56T 1/2"	Each 1X	ZS A1630	£24.75
43016.00 2000 & Supercross track 1/2 x 1/4	Each 1X	ZS A1635	£24.50
43211.00 New Racer inner/outer 36-56T 1/2"	Each 1X	ZS A1640	£15.62

### Chainwheel & cranksets

#### New Racer

A design for the 1990s. Polished duralumin cut-out rings are mated with satin-finished cranks which have aerodynamic lines, chamfered at the shoulders and easing gently away from the axis before being subtly straightened to achieve the correct pedalling plane. Cranks are 170mm, with rings 36 to 56 teeth. Complete with bottom bracket set and liner. 883 gm.



13200.00 New Racer	Set 1X	ZS A1970	£43.33
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#### Supercross

A superbly stylish crankset using aerodynamic cranks, the right-hand one blending into one of the five crank arms. The detachable rings are perforated, and available 36 to 56. Crank length 170mm. Complete with bottom bracket set in road double or 165mm track single versions. In Super Earlumin II. 863 gm. (double).

13100.00 Supercross road double	Set 1X	ZS A1975	£57.42
13130.00 Supercross track	Set 1X	ZS A1977	£47.89



#### 2000

Manufactured in Super Earlumin II (Special light metal forged and thermally treated at 45 Kg/mm<sup>2</sup>) these sets offer unrivalled strength with exceptional lightness. Cranks are available in 6 lengths from 165 to 177.5mm and have three slotted cutouts in each crank. The interchangeable rings range from 36 to 56 teeth and are finely drilled and cutaway. Delivered less tool set but with Titanox bracket set and double chainwheels. Double road or single track (1/4") versions. 840 gm. (double).



13000.00 2000 road	Set 1X	ZS A2005	£109.60
13030.00 2000 track	Set 1X	ZS A2020	£98.05

#### Spare Cranks

##### New Racer & Supercross

43218.00 Road R.H.	Each 1X	ZS A1983	£21.23
43219.00 Road L.H.	Each 1X	ZS A1984	£9.03
43214.00 Track R.H.	Each 1X	ZS A1987	
43215.00 Track L.H.	Each 1X	ZS A1988	

#### 2000

(165, 167.5, 170, 172.5, 175, 177.5)

43018.00 Road R.H.	Each 1X	ZS A2050	£41.42
43019.00 Road or track L.H.	Each 1X	ZS A2055	£21.37
43014.00 Track R.H.	Each 1X	ZS A2057	

#### C/ring assembly bolts

##### New racer and Supercross & 2000

33011.00 Road - Double	Each 1X	ZS A2060	£9.74
33013.00 Cr/Cross & Triple	Each 1X	ZS A2062	£1.11
33015.00 Track - Single	Each 1X	ZS A2064	

## Freewheels

### Criterion

A superb compromise between the strength of a steel freewheel and the lightness of an alloy one. The Criterion freewheels, 5 or 6-speed, use exactly the same alloy body as the 2000 model, but with golden steel sprockets, so at any time the user can "move up" to an all-alloy freewheel at will. Standard sizes as follows, which can be modified using a full range of spare sprockets from 13 to 26 teeth. 265 gm. (5-speed 14-18)

#### 5 speed

14-16-18-20-22

#### 6 speed

13-14-15-16-17-18

13-14-15-16-18-21

13-15-17-19-21-24

29250.06 Criterion 6-speed	Each 1X	ZS A2498	£22.54
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29200.05 Criterion 5-speed	Each 1X	ZS A2499	£20.08
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#### 2000

The light alloy splined cog freewheel was the first item developed for the 2000 series. It is super-light and made like a precision watch with all cogs removable from the splined body without separating the freewheel from the hub. Interchangeable dual cogs 13 to 30 teeth. Same body for 5-speed and such is the versatility of the freewheel that any combination between 13 and 30 teeth can be obtained with only 22 sprockets. 230 gm. (5-speed 14-18).

Standard ratios:

#### 5 speed

14-15-16-17-18

14-15-16-18-21

14-16-18-21-24

#### 6 speed

13-14-15-16-17-18

14-15-16-17-18-19

13-14-15-16-18-21



29100.06 2000 6-speed	Each 1X	ZS A2500	£68.49
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29100.05 2000 5-speed	Each 1X	ZS A2510	£57.59
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## Freewheel spares

### 2000 & Criterion

38001.00 Body only	Each 1X	ZS A2550	£19.79
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## 2000 sprockets

49110.00 Alloy splined 15-30T	Each 1X	ZS A2557	£14.83
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39120.00 Alloy Duplex screwed 13-14, 13-15, 14-15, 14-16, 15-17, 16-18	Each 1X	ZS A2560	£19.44
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49130.00 Alloy screwed 14-18	Each 1X	ZS A2565	£4.86
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## Freewheel Spares - Criterion sprockets

49210.00 Splined 15-20T	Each 1X	ZS A2569	£1.44
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39220.00 Duplex 6-speed 13-14, 13-15, 14-15, 14-16, 15-17, 16-18	Each 1X	ZS A2570	£7.91
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49230.00 Screwed 5-speed 14-18	Each 1X	ZS A2571	£4.81
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59249.00 Spacers	Each 1X	ZS A2580	£0.32
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## Gears - front changers

### New Racer

Classic parallelogram design, using duralumin and steel. 95 gm.



22800.00 New Racer	Each 1X	ZS A3018	£7.58
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### Supercross

Parallelogram front changer in Super Earlumin II, with a hinged frame clip. 90 gm.



22500.00 Supercross	Each 1X	ZS A3020	£10.83
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## Gears - rear mechanisms

### New Racer

Exceptional value in rear mechanisms, using the traditional parallelogram principle, with black anodised upper and lower housings. 178 gm.

22300.00 New Racer	Each 1X	ZS A3045	£9.48
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### Supercross

Super-smooth rear mechanism in Super Earlumin II, featuring black anodised upper and lower pivot housings. 167 gm.

22000.00 Supercross	Each 1X	ZS A3055	£19.52
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# ACCESSORIES

**Ron  
KITCHING**

## ZEUS - continued

### Gears - control levers

#### New Racer

Single or double clip-on, in duralumin and steel. With ring adjusters. 80/50 gm.



21300.00 New Racer Double with clip  
Each 1X **ZS A3154** **£3-93**

21303.00 New Racer - Single with clip  
Each 1X **ZS A3151** **£2-62**

#### Supercross

Super Earlumin II alloy double levers with ring adjusters. Available as clip-on or braze-on fitting. 60/36 gm.

21000.00 Supercross double clip-on  
Each 1X **ZS A3180** **£4-33**

21001.00 Supercross - double, braze-on  
Each 1X **ZS A3185** **£3-81**

### Gear tunnels & stops

21400.00 Double tunnel  
Each 1X **ZS A3170** **£0-79**

21401.00 C-Stay stop  
Each 1X **ZS A3175** **£0-36**

### Gear lever rubbers

21800.00 Zeus, asst. colours  
Each 1X **ZS A3400** **£0-12**

### Head fittings

26300.00 New Racer  
Set 1X **ZS A4420** **£8-07**

26200.00 Gran Sport  
Set 1X **ZS A4400** **£9-44**

26000.00 Supercross (alloy)  
Set 1X **ZS A4425** **£14-84**

### Hubs - small flange

#### New Racer

Modern design with most of the attributes of costlier items. Front and rear have one-piece dural bodies in the popular diabolo shape, functionally strong and easy to clean, with neat quick-release spindles. Dimensions are standard, 120mm

over rear cones, 100mm front. There are no oil seals but the pressed-in dust-caps are thick, and fit closely over the cones. Spoke holes are unchamfered. Drilled 28/32/36, 550 gm.



28500.00 New Racer Q/R  
Pair 1X **ZS A4640** **£15-78**

#### Supercross

Super-lightweight small-flange quick-release hubs in Super Earlumin II. The beautifully finished hub shells have the distinctive diabolo shape. Drilled 28, 32, 36, 490 gm. (pair).

28000.00 Supercross Q/R  
Pair 1X **ZS A4615** **£44-72**

### Hubs - large flange

#### Gigante

Large-flange quick-release hubs with shells in duralumin and top-grade steel axles. Drilled 24/28/32/36, 572 gm.

28300.00 Gigante Q/R  
Pair 1X **ZS A4650** **£45-39**

#### Pista

As above, but solid spindle for track and fixed-wheel road use. Drilled 24/28/32/36/40, 546 gm.

28400.00 Pista Track  
Pair 1X **ZS A4660** **£30-08**

### Hub spares

38503.00 Hollow axle complete - New Racer - front  
Each 1X **ZS A4672** **£1-75**

38523.00 Hollow axle complete - New Racer - rear 6 sp.  
Each 1X **ZS A4673** **£2-18**

38003.00 Hollow axle complete - Supercross - front  
Each 1X **ZS A4678** **£8-07**

38023.06 Hollow axle complete - Supercross - rear 6 sp.  
Each 1X **ZS A4679** **£7-38**

38403.00 Solid axle complete - Pista - front  
Each 1X **ZS A4670** **£5-40**

38423.00 Solid axle complete - Pista - rear  
Each 1X **ZS A4671** **£8-27**

38502.00 New Racer - front Q/R skewer  
Each 1X **ZS A4800** **£2-58**

38521.06 New Racer - rear 6 sp.  
Each 1X **ZS A4801** **£2-62**

38002.00 Supercross - front Q/R skewer  
Each 1X **ZS A4806** **£6-11**

38021.06 Supercross - rear 6 sp.  
Each 1X **ZS A4807** **£8-19**

### Hub cogs

28450.00 Pista 13-19T Alloy 1/4" only  
Each 1X **ZS A4700** **£3-81**

### Pedals

#### New Racer/Criterium

Zeus pedals come in road and track, in Criterium and New Racer versions, using a diabolo shaped frame and a quill road or single-sided track plate. The New Racer models are in duralumin with steel axles, the Criterium in Super Earlumin II with steel axles.

New Racer 420 gm. (road),  
368 gm. (track)

Criterium 360 gm. (road),  
320 gm. (track)



24101.00 Criterium road  
Pair 1X **ZS A5610** **£23-77**

24103.00 Criterium track  
Pair 1X **ZS A5615** **£23-77**

24301.00 New Racer road  
Pair 1X **ZS A5630** **£13-21**

24303.00 New Racer track  
Pair 1X **ZS A5635** **£13-21**

### Supercross

Futuristic semi-platform pedal in Super Earlumin II. The rear backplate is standard style, black anodised and held on by four screws, but the front half of the pedal is a platform on to which the special Christophe Palette toeclip slides, held by two screws. 390 gm.

24000.00 Supercross road  
Pair 1X **ZS A5640** **£36-62**

50401.00 Palette toe clips  
Pair 1X **ZS A5645** **£3-85**

### Seat bolt

25500.00 New Racer Alloy seat bolt  
Each 1X **ZS A6876** **£0-63**

### Seat pillars

#### New Racer

Traditional-style light alloy micro-adjusting, with two-bolt clamp. Grooved pillar. In Duralumin 5, in 25.0, 26.4, 26.8, 27.0 and 27.2mm diameters. 285 gm.



25300.00 New Racer  
Each 1X **ZS A7005** **£10-85**

### Supercross

Stylish light alloy micro-adjusting component, the clamp held by a single bolt. Beautifully finished, the column is grooved. In 25.0, 26.4, 26.8, 27.0, 27.2mm diameters. In super Earlumin II. 235 gm.

25000.00 Supercross  
Each 1X **ZS A7010** **£14-80**

## Weight Comparison

### BOTTOM BRACKET SETS (Double Axle)



Make	Grams
NADAX 'Favort'	250
ZEUS '2000'	255
ZEUS 'Supercronos'	257
ZEUS 'New Racer'	268
T.A. W709 (Less Races)	270
FAG 'L66'	280
BADOR 'Competition'	290
SUN TOUR 'Superbe SA-110'	280
STRONGLIGHT (Less Races)	294
BULLSEYE*	296
SUN TOUR 'Superbe'	301
TEVANO (Less Races)	307
LIGHTTRACE 'Super Lighttrace'	330
SUN TOUR Mountain Bike (Triple SS-150*)	389

### BRAKES (Centre Pull)



(Inc. levers and transmissions)

DIA COMPE DC610	730
DIA COMPE NGC 450	740
DIA COMPE GC610	835
DIA COMPE DC-700 x GC-160	840

### BRAKES (Side Pull)



(Inc. levers and transmissions)

SUN TOUR 'Superbe' 400mm	549
SUN TOUR 'Superbe' 500mm	565
DIA COMPE 'Aero - Gran Compe'	610
DIA COMPE QS-500N x 151	555
DIA COMPE QS-630N x 144	565
DIA COMPE DC-630N x 144	590
DIA COMPE DC-500N x 144	580
CYPARI 'Course'	630
DIA COMPE 'Aero Compe G'	630
CYPARI 'Sprite'	634
ZEUS 'New Racer'	650
ZEUS 'Supercronos'	654
SUN TOUR 'Cyclone' 400mm	678
SUN TOUR 'Cyclone' 500mm	684
DIA COMPE ROC400 x 204	690

DIA COMPE NGC 400	690
DIA COMPE G-500N x 152	695
DIA COMPE GX-500N x 157	695
DIA COMPE GC-500N x 200	755

### BRAKE ON BRAKES (Cantilever)



(Inc. levers and transmissions)

DIA COMPE DC-960 x GC-160	715
DIA COMPE DC-980 x 280 (Mountain Bike)	890

### BRAKE CABLE CLIPS (Top Tube - Set of 3)



MILREMO	4
ZEUS	9
REG 751/25	12

### CRANK SETS (Single 170mm (18T) unless stated)



All weights less Bottom Bracket Set

<b>3 PIN</b>	
T.A. Ref. 203 Single C-Wheel with W1693 Crank Set	515
T.A. Ref. P1753 3 pin Single adaptor sets with W1693 Crank Set	600
<b>5 PIN</b>	
T.A. Ref. 205 Single with W1690 Cranks	496
TEVANO AX5000	505
ZEUS 'Supercronos' with Single Chainwheel	546
ZEUS '2000' with Single C-Ring	557
SUN TOUR 'Superbe' Track	585
T.A. Ref. 1205 'Cyclo-Cross' 47T with W1690 Cranks	592
T.A. Ref. 1755 'Pro' Adaptor Set 49T with W1690 Cranks	610

### CRANK SETS (Double 170mm (42-52T) unless stated)



All weights less Bottom Bracket Set

<b>3 PIN</b>	
T.A. Ref. 2173 'Pro' Adaptor Set with W1693 Cranks	620
T.A. Ref. 2203 'Criterion' with W1693 Cranks	630
<b>5 PIN</b>	
TEVANO AX5000	560
T.A. Ref. 2205 'Criterion' with W1690 Cranks (43-52T)	578

ZEUS 'Supercronos' with Double Chainwheel	606
T.A. Ref. 2175 'Pro' Adaptor Set with W1690 Cranks (43-52T)	610
ZEUS '2000' with Double C-Ring	617
ZEUS 'New Racer'	623
T.A. Ref. 2235 'Cyclo-tourist' with W1690 Cranks	650
SUN TOUR 'Superbe Pro'	658

### DYNAMO SETS (Inc. rear lamp)



PHOS 'Phare'	352
PHOS 'Phantom'	360
MILREMO 'Comet'	536

### FREEWHEELS 6 SPEED



(14-24 ratio unless stated)

ZEUS '2000'	262
ZEUS 'Criterion'	280
SUN TOUR 'Winner' 13-22	362
SUN TOUR '888'	410
SUN TOUR 'Pro Compe'	421

### FREEWHEELS 8 SPEED



(13-24 ratio unless stated)

SUN TOUR 'MicroLite' (13-18)	154
ZEUS '2000'	272
ZEUS 'Criterion'	295
SUN TOUR 'Ultra 6'	429
SUN TOUR 'Perfect'	465
SUN TOUR 'Winner'	470

### FREEWHEELS 7 SPEED



(12-24 ratio unless stated)

SUN TOUR 'MicroLite' (12-18)	165
SUN TOUR 'Ultra 7'	490

\*Alloy Cogs

### GEARS (Derailleurs)



Front Changers (Mechanism only)

SUN TOUR 'Superbe Pro' (New Model)	82
SUN TOUR 'Superbe II'	90
ZEUS 'Supercronos' SUN TOUR 'Superbe Pro' B/O	92
SUN TOUR 'ARX'	93
SUN TOUR 'Cyclone II'	94

ZEUS 'New Racer'	95
SUN TOUR 'Cyclone III'	101
SUN TOUR 'Mountech'	102
SUN TOUR 'NSL'	110
SUN TOUR 'AR'	112
SUN TOUR 'VX'	115
SUN TOUR 'LE-Tech'	118
SUN TOUR 'AG-Tech'	128
SUN TOUR 'Compe V'	134
SUN TOUR 'Spir'	145
SUN TOUR 'AG'	155

### Rear Gears (Mechanism only)

SUN TOUR 'Superbe II'	163
SUN TOUR 'Cyclone II Racing'	173
SUN TOUR 'Superbe Pro II'	176
ZEUS 'New Racer'	178
SUN TOUR 'Cyclone II GT'	180
SUN TOUR 'Cyclone Racing'	184
ZEUS 'Supercronos'	187
SUN TOUR 'VX'	200
SUN TOUR 'Superbe Tech-S'	201
SUN TOUR 'ARX'	206
SUN TOUR 'Cyclone III'	210
SUN TOUR 'VXS'	210
SUN TOUR 'VXGT'	210
SUN TOUR 'Volante'	263
SUN TOUR 'Mountech'	277
SUN TOUR 'AR'	280
SUN TOUR 'Superbe Tech-L'	302
SUN TOUR 'AR-GT'	303
SUN TOUR 'Superbe Tech'	307
SUN TOUR 'AG-Tech GTL'	366
SUN TOUR 'AG'	375
SUN TOUR 'Honor'	400

### GEAR LEVERS (Double with clip)



ZEUS 'Supercronos'	60
ZEUS 'New Racer'	65
SUN TOUR 'Superbe Pro'	64
SUN TOUR 'Cyclone'	69
SUN TOUR 'Superbe'	78
SUN TOUR 'Top-Mount'	73
SUN TOUR 'VX'	80
SUN TOUR 'DLW'	83
SUN TOUR 'PDL-M'	125
SUN TOUR 'Bar-Con' (Pair)	176
SUN TOUR 'Power Thumb Shifter for Mountain Bike (Pair)	155

### HANDLEBARS (42cm width unless stated)



T.T.T. 'Gmond' SL	257
T.T.T. 'Tour de France' SL	262

# ACCESSORIES

**Ron  
KITCHING**

## DATA

T.T.T. 'Merckx' SL	270
T.T.T. 'Aerodynamic'	285
MILREMO 'Randonneur'	290
MILREMO 'Franco Belge'	300
T.T.T. 'Girmondi' Std.	310
CINELLI 'Anatomic'	314
CINELLI Model 65	314
T.T.T. 'Tour de France' Std.	315
CINELLI Model 66 40cm	320
CINELLI Model 67 Track 39cm	320
NITTO 'Aerodynamic' 40cm	320
CINELLI Model 63 40cm	324
CINELLI Model 64 40cm	329
T.T.T. 'Merckx' Std.	330
MILREMO 'Franco Italia'	350
T.T.T. 'Pista'	360
WIN 'M 28' Mountain bike handlebars & stem	935

### H'LEBAR STEMS (Length 11cm unless stated)



MILREMO 'Tourist' 5cm	208
MILREMO 'Sport' 9cm	235
ATAX 'ASC Aerodynamic' 105mm	240
CINELLI '1R'	262
MILREMO 'Super Sport'	270
T.T.T. 'Record Road' 10cm	275
T.T.T. 'Strada 78'	279
T.T.T. 'AR 84'	280
CINELLI '2A'	288
BADOR 'Competition'	290
CINELLI '1A'	298
WIN 'Medal 50' 5cm	300
T.T.T. 'Record Pista No. 2'	305
WIN 'Medallion V' 10cm	315
SUN TOUR 'Superbe'	322
SUN TOUR XC-V Mountain bike	330
WIN 'Crest' KPY 3cm	340
NITTO 'Crystemblue' 10cm	350
WIN 'Medal 80' 8cm	350

### HEADSETS



TANGE 'Levin' Alloy	90
SUN TOUR 'Superbe Pro' Alloy	94
T.A. Ref. 3900	110
ZEUS 'Supercronos'	138
MILREMO 'Classic de Luxe'	140
SUN TOUR 'Superbe' Steel	145
MILREMO 'Special'	147
TANGE 'New Levin'	155
LIGHTTRACE 'Super Lighttrace'	175
ZEUS 'Gran Sport'	180

ZEUS 'New Racer'	180
*(Less Ball Races)	

### HUBS (Small Flange, Quick Release)



BULLSEYE Sealed bearings (less Q.R.)	400
ZEUS 'Supercronos'	490
MILREMO 'Professional Road'	519
SUN TOUR BH-1500 (Sealed bearing) 'Superbe Pro'	520
SUN TOUR BH-220 (Sealed bearing) 'Cyclone'	536
SUN TOUR 'Superbe'	548
ZEUS 'New Racer'	550
MILREMO 'Super Champion'	572
SUN TOUR 'VX'	595
SUN TOUR BH-4600 (Sealed bearing)	622

### HUBS (Large Flange, Quick Release)



MILREMO 'Professional Road'	580
ZEUS 'Gigante'	580
SUN TOUR 'Superbe'	600
MILREMO 'Super Sport'	619
MILREMO 'Luxe Competition'	625
SUN TOUR BH-4700 (Sealed bearing)	647

### PUMPS (495mm unless stated)



REG 8C, 460mm	128
REG Model 9 500mm	142
MILREMO 'Cross'	145
MILREMO 'Gran Carrera'	150
PRIMUS 'SL-C'	155
PRIMUS 'Aerodynamic'	222

### PEDALS (Alloy)



MILREMO 'Pro 11L'	245
SUN TOUR 'Superbe Pro' Track	278
T.A. Ref. PW 4690 Track	290
SUN TOUR 'Superbe Pro' Road	300
T.A. Ref. W4690 Road	300
LYOTARD No. 45A	313
M.K.S. Ref. 4533	330
MILREMO 'Avant' Track	340
ZEUS 'Criterion' Track	340
ZEUS '2000' Road	340
BULLSEYE	352

SUN TOUR 'Superbe'	353
M.K.S. 'Aero'	355
MILREMO 'Avant' Road	360
M.K.S. 'Sylvan' Ref. 0000	360
SUN TOUR 'VX'	360
ZEUS 'Criterion' Road	360
M.K.S. 'Esquartz Amateur 102'	365
ZEUS 'New Racer' Track	368
M.K.S. 'Quill' Ref. 3002	380
ZEUS 'Supercronos'	390
SUN TOUR 'Cyclone'	390
MILREMO 'Avant'	396
M.K.S. 'GR8'	400
CINELLI 'M71'	400
MILREMO 'Apollo'	415
MILREMO 'Aurora'	415
ZEUS 'New Racer' Road	420
M.K.S. '505'	560
M.K.S. '707'	560

### SADDLES (Less Clip)



CINELLI 'L Design' Track	220
SAN MARCO 'Gi-Lux' 312/7	305
CONPY 'Concorde'	310
CINELLI 'Grantour'	320
IDEALE Ref. 2003A 'De Luxe'	320
JAGUAR '81L-APDX Comfort W'	320
MILREMO 'Star Rider'	320
ARIUS 'Imperator'	328
CINELLI 'L Design' Road	330
CINELLI 'Campione del Mondo' Leather	340
CINELLI 'Campione del Mondo' Buffalo	340
MILREMO 'Professional' Buffalo	345
MILREMO 'Professional' Leather	350
ARIUS 'XR-1'	355
MILREMO 'Gran Carrera'	350
SAN MARCO 'Concor' 267/B	350
CINELLI 'Campione del Mondo' Charnois	360
SAN MARCO 'Profil'	365
SAN MARCO 'Corsaire' 313/5	372
JAGUAR '77-MADX Comfort'	390
JAGUAR '77-CPDX-K'	400
CINELLI 'Volare'	420
CINELLI 'Tour de France' Leather	429
SAN MARCO 'Corsaire' 313/2	438
CINELLI 'Tour de France' Buffalo	450

CINELLI 'Tour de France' Charnois	452
CINELLI 'Type C' Road	488

### \*TITANIUM FRAME

### SEAT PINS (27.2mm unless stated)



STRONG 'Standard-Alloy'	90
T.T.T. 'Criterion'	180
SUN TOUR 'Superbe' SP2000	203
ATAX 'Poly-pro'	210
ZEUS 'Supercronos'	235
STRONG 'Micro-Adjustable'	260
ATAX 'Professional'	275
ZEUS 'New Racer'	285
MILREMO 'Luxe'	286
MILREMO 'Gear Sport' Plain and Fluted	300

### RIMS H.P. (Single)



MILREMO 'Elite'	408
MAVIC 'E2'	430
MAVIC 'G40'	430
MILREMO 'Super Club'	450
SUPER CHAMPION 'Model 58'	495
MAVIC 'Module 3D'	530
FIAMME	540
MAVIC 'Module 4'	550
SUPER CHAMPION 'Mate'	563
ARAYA 'Mountain bike'	610

### RIMS SPRINT (Single)



FIAMME 'Ergal'	279
MAVIC 'GEL-280'	280
ARAYA 'ADX-1'	300
MAVIC 'Argent 10'	310
ARAYA 'ADX-2'	330
MILREMO 'Record Route'	350
FIAMME 'Hard Silver'	357
MILREMO 'Mercury Durex'	370
FIAMME 'Bussola' Road	370
MAVIC 'GP4'	395
MAVIC 'Monthliery Pro'	395
MAVIC 'Special Service'	395
AMBROSIO 'Montreal' Pol. Black, Durex	400
AMBROSIO 'Metamorphosis'	400
MILREMO 'Montreal' Pol. Gold, Black	400
MILREMO 'Gro'	410
MAVIC 'Monthliery Route'	420

## Availability

### HANDLEBAR STEM AVAILABILITY



Make and Model	Forward Lengths Available (See Conversion Table for inches comparison)																									
	Cms	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	
ATAX																										
ASC Aerodynamic									X			X			X											
BADOR																										
Competition												X		X		X		X		X						
CINELLI																										
1A								X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1R													X	X	X	X	X	X	X	X	X	X	X	X	X	X
2A														X		X		X		X						
Damiano												X		X		X		X								
MILREMO																										
Tourist					X																					
Sport								X				X														
Super Sport									X			X		X												
NITTO																										
Cytemblue								X		X		X		X												
SUN TOUR																										
Superbe											X		X		X		X		X							
T.T.T.																										
Record Road						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Strada 78										X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Record Plate No. 2																	X		X		X					
AR 84												X		X		X		X		X		X				X
WIN																										
Cesir 107V					X																					
Medal 50						X																				
Medal 80									X																	
Medalton V											X		X													

### HANDLEBAR DIMENSIONS AND WEIGHTS



Make	Model	Use	Material	Approx. Weight in gms	A Forward Reach mm.	B Width mm.	C Drop mm.
ATAX	Franco America	Road	Alloy	340	98	420	160
	Tour de France	Road	Alloy	340	86	400	143
CINELLI	Campione del Mondo Ref. 63	Road	Alloy	324	76	380-400	147
	Giro d'Italia Ref. 64	Road	Alloy	329	78	380-400-420	142
	Criterium Ref. 65	Road	Alloy	314	77	380-400-420	147
	Campione del Mondo Ref. 66	Road	Alloy	320	80	380-400-420	156
	Anatomic	Road	Alloy	314	77	400	147
	Pista Ref. 67	Track	Alloy	320	83	390	163
MILREMO	Randonneur	Road	Alloy	290	86	380-420	124
	Franco Belge	Road	Alloy	300	90	400-420	140
	Franco Italia	Road	Alloy	350	78	400-420	148
NITTO	Aerodynamic	Road	Alloy	335	88	390	150
T.T.T. (SL)	Tour de France	Road	Alloy	315	82	400-420	138
	Gemond	Road	Alloy	310	85	400-420	143
	Mercor	Road	Alloy	330	92	400-420	146
	Pista	Track	Alloy	360	75	400-420	160
	Aerodynamic	Road	Alloy	360	88	420-430-440	145
T.T.T. (SL)	Tour de France	Road	Alloy	282	82	400-420	138
	Gemond	Road	Alloy	257	85	400-420	143
	Mercor	Road	Alloy	270	92	400-420	146

# ACCESSORIES

## DATA

AVAILABILITY—continued

### CRANK LENGTHS AND CHAINWHEEL SIZES

Make and Model	Crank to Chainwheel Attachment		Crank Lengths Available in M/m. (See Conversion Table for equivalent in inches)										Available Chainwheel Size		
	3 Pin	5 Pin	150	165	180	162.5	165	167.5	170	172.5	175	177.5	180	Min.	Max.
<b>SUNTOUR</b>															
Superbe Pro Road		X					X	X	X	X	X			42	54
Superbe Track		X					X	X	X	X	X			48	54
<b>T.A.</b>															
<b>Cranks</b>															
1693	X		X	X	X	X	X	X	X	X	X	X	X	36	68
1690		X	X	X	X	X	X	X	X	X	X	X	X	26	68
<b>Chainwheels</b>															
Criterion	X	X												43	68
Professional	X	X												43	68
Cydo Tourist		X												26	68
<b>TEVANO</b>															
AX5000 *		X						X		X				42	58
<b>ZEUS</b>															
New Race, Supermax		X							X					36	56
2000		X	X					X	X	X	X	X		36	56

\* Other Crank lengths to special order.

### MULTIPLE FREEWHEEL SPROCKET AVAILABILITY TABLE

Make	Model	Speeds	1st	2nd	3rd	4th	5th	6th	7th
<b>SUNTOUR</b>									
	888' FR-5000	5	14-18			16-28, 30, 32, 34, 38			
	Pro Comp PC-5000	5	14-18			16-28, 30, 32, 34			
	Perfect PS-6000	6	13		14-18	16-28, 30, 32, 34			
	Ultra 6 NW-6500	6	13-14		14-19	16-21	17-26, 28, 30, 32		
	Ultra 7 NW-7000	7	12-13	13-15	14-19	15-21		17-26, 28, 30, 32	
	MicroLite 6 LF-6000	6	13-14		14-17	16-19		17-24	
	MicroLite 7 LF-7000	7	12-13	13-14	14-17	15-19		17-24	
<b>ZEUS</b>									
	Criterion	5	14-18			15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26			
	Criterion	6	13 x 14, 13 x 15, 14 x 15, 14 x 16, 15 x 17, 16 x 18			15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26			
	2000	5	14-18			15, 16, 16E, 17, 17E, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30			
	2000	6	13 x 14, 13 x 15, 14 x 15, 14 x 16, 15 x 17, 16 x 18			15, 16, 16E, 17, 17E, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30			

### TABLE OF RECOMMENDATIONS FOR SPRINT RIMS

Make and Model	Weight Single Grams	Drilling Available	Width M/m	Track Events			Time Trials			Road Racing						
				Pur- suit	Sprint	Dist- ance	25-50 miles	50-100 miles	12 hours	24 hours	Club events	Train- ing	Cydo cross	Ker- messe	Cri- terium	Road Race
<b>AMBROSIO</b>																
Montreal Pol. Bik	400	32-36	20.5					X	X	X	X				X	X
Montreal Durax	400	32-36	20.5					X	X			X			X	X
<b>ARAYA</b>																
ADX-1	300	28-32-36	18.7	X		X	X	X	X	X						
ADX-2	330	28-32-36	21.0	X	X	X	X	X	X	X		X	X	X	X	X

**AVAILABILITY—continued**

FIAMME												
'Bussola' Road	370	28-32-36-40	21-0					X	X	X		X X
'Ergal' Road	279	28-36	21-0	X				X	X			X
'Hand Silver'	357	28-36	22-0	X		X	X	X	X	X		X X
MILREMO												
'Giro'	410	32-36	21-5						X	X	X X X	X X
'Record Route'	350	28-32-36-40	21-5					X	X	X X		X X
'Montreal' Pol.	400	32-36	21-5					X	X	X X X	X X	X X
MAVIC												
'Monthery Route'	420	36	21-5						X	X	X X X	X X
'Monthery Pro'	395	32-36	20-0						X	X	X X	X X
'Argent 10'	310	28-32-36	20-0					X	X	X		X X
'CX 18'	300	28-32-36	18-0	X		X	X	X				
'GEL 280'	280	28-32-36	20-0	X		X	X	X				X
'GP4'	395	28-32-36	20-0					X	X	X X	X	X X X X
'Special Service'	395	36	20-0					X	X	X X	X	X X X X

## Conversions

British and Metric Equivalents . . .

### Cycle Accessory Dimensions . . .

#### PUMPS


**Diameter**

Inches	3/4	7/8	1 1/16	1
Mms.	19.0	22.2	23.8	25.4

**Length**

Inches	9	10	11	12	13	14	15	16	17	18	19	20
Mms.	228	254	279	305	330	355	381	406	432	457	482	508

#### CRANK LENGTHS JUVENILE



Inches	3 3/16	3 1/2	4 1/16	4 3/16	5 1/8	5 1/16	5 3/16	5 7/16	5 1/2
Mms.	90	100	110	120	130	135	140	145	150

#### CRANK LENGTHS ADULT



Inches	6 1/16	6 3/16	6 1/2	6 7/16	6 1/2	6 1/16	6 3/16	6 1/2	6 3/4	7 1/16
Mms.	160	162.5	165	167.5	170	172.5	175	177.5	180	

#### CHAIN PITCH/WIDTH



Inches	1 1/8	1 1/4	1 1/2	1 3/4
Mms.	25.4	31.7	38.1	44.5

#### FRAME SIZES (Measured from centre of bracket axle to top of seat lug)



Inches	20	20 1/16	20 1/8	21 1/16	21 1/8	22	22 1/8	22 1/4	23 1/16	23 1/8	23 1/4	24	24 1/8	24 1/4
Cms.	51	52	53	54	55	56	57	58	59	60	61	62	63	
Inches	18	19	20	21	22	23	24	25	26					
Cms.	45.7	48.2	50.8	53.3	55.8	58.4	60.9	63.5	66.0					

#### FRAME TUBING (Outside diameters)



	Head	Top	Down	Seat	Fork Column
Inches	1 1/4	1	1 1/8	1 1/8	1
Mms.	31.7	25.4	28.6	28.6	25.4

#### BALL BEARINGS



Inches	1/8	3/16	1/4	5/16
Mms.	3.17	3.96	4.76	6.35



# ACCESSORIES

## DATA

### CONVERSIONS—continued



#### HANDLEBAR STEM (Forward length from centre of clip to centre of expander bolt hole)

Inches	1 <sup>7</sup> / <sub>16</sub>	2	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	4	4 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	
Cms.	4	5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	12	13	14



#### SEAT PILLAR DIAMETERS

BRITISH Ref. No				3				4				5
TUBING GAUGE				20				21				22
Mms.		25	25.8	26	26.2	26.4	26.6	26.8	27	27.2	27.4	
Inches (approx.)		1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>16</sub>	



#### SPOKE GAUGES

BRITISH SWG	7	8	9	10	11	12	13	14	15	16	17
FRENCH JF	20	19	18	17	16	15	14	13	12	11	10



#### SPOKE LENGTHS (Measured from inside bend of the head to the end of the spoke)

Inches	6 <sup>1</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>4</sub>	11 <sup>5</sup> / <sub>16</sub>	11 <sup>5</sup> / <sub>8</sub>	11 <sup>5</sup> / <sub>4</sub>	12	12 <sup>1</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>8</sub>
Mms.	162	170	174.6	289.9	292	293.6	295.2	296.8	298.4	300	301.6	303.2	304.8	306.4	308



#### Tyre Sizes (Wired-On)

Inches	12	14	16	18	20	22	23	24	26	28	
Mms.	300	350	400	450	500	550	575	600	650	700	
Inches	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>4</sub>				
Mms.	32	35A	38B	42C	45C	50	56				
Inches	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>1</sup> / <sub>4</sub>		1 <sup>1</sup> / <sub>2</sub> × 1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub> × 2	1 <sup>1</sup> / <sub>2</sub> × 2
Mms.	28B		32C	35B	35C	39C	42B	45B	45C	50B	50C

Equivalents can be checked as follows: 26 × 1<sup>1</sup>/<sub>4</sub> = 650 × 32 or 26 × 1<sup>1</sup>/<sub>2</sub> × 2 = 650 × 50B



#### Temperature Conversion Scale

Fahrenheit	0	32	40	50	60	70	80	90	100	212
Centigrade	-17.7	0.0	4.4	10.0	15.5	21.1	26.7	32.2	37.7	100

Boiling point of water 212°F. or 100°C. Freezing point of water 32°F. or 0°C.



#### Tubular Tyre Weights

Ozs.	4	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>4</sub>	5	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	6	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub>	7	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>
Grams	113	121	126	135	142	149	156	163	170	177	184	191	198	206	213	220
Ozs.	8	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	9	9 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	10	10 <sup>1</sup> / <sub>2</sub>	11	11 <sup>1</sup> / <sub>2</sub>	12	12 <sup>1</sup> / <sub>2</sub>	13	14
Grams	227	234	241	249	255	262	269	276	283	297	311	326	340	354	368	396
Ozs.	15	16	17	18	19	20	21	22								
Grams	426	454	482	510	538	566	594	622								



#### Distance Tables

2 Equivalent in Miles	0.62	1.24	1.86	2.48	3.11	3.73	4.35	4.97	5.59	6.2	12.4	18.6	24.8	31
1 Kilometres OR Miles	1	2	3	4	5	6	7	8	9	10	20	30	40	50
3 Equivalent in Kilometres	1.61	3.22	4.83	6.44	8.05	9.66	11.27	12.87	14.48	16.1	32.2	48.3	64.4	80.5
2 Equivalent in Miles	37	43	50	56	62									
1 Kilometres OR Miles	60	70	80	90	100									
3 Equivalent in Kilometres	96.6	112.7	128.7	144.8	161									

**CONVERSIONS—continued**
**Speed Tables**


2 Equivalent in Miles per hour	6	9	12½	16	19	22	25	28	31	37	43	50	56	62
1 Kilometres OR Miles per hour	10	15	20	25	30	35	40	45	50	60	70	80	90	100
3 Equivalent in Kilometres per Hour	16	24	32	40	48	56	64	72	80	96	113	129	145	161

For Speed and Distance Tables, read line 1 first and obtain the appropriate equivalent in miles or kilometres from line 2 or 3.

Example: 10 in Miles = 16 in Kilometres  
10 in Kilometres = 6 in Miles

**Gradient Equivalents**


Grade	1 in 5	1 in 6	1 in 7	1 in 8	1 in 9	1 in 10	1 in 11
Feet ascent per mile	1056	880	754	635	586	528	480
Percentage	20	16.6	14.3	12.5	11.1	10	9.1

**Weights and Measures**


Equivalent in Metres	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2
Feet or Metres	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Equivalent in Feet	3.2	6.5	9.8	13.1	16.4	19.6	22.9	26.2	29.5	32.8	36.0	39.3	42.6	45.9
Equivalent in Kilos	0.45	0.91	1.36	1.81	2.27	2.72	3.18	3.63	4.08	4.54	4.99	5.45	5.90	6.35
Pounds or Kilos	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Equivalent in Pounds	2.20	4.41	6.61	8.82	11.02	13.23	15.43	17.64	19.84	22.05	24.25	26.46	28.66	30.87
Equivalent in Litres	4.54	9.09	13.63	18.18	22.73	27.27	31.82	36.36	40.9	45.46	49.6	54.54	59.09	63.64
Gallons or Litres	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Equivalent in Gallons	0.22	0.44	0.66	0.88	1.1	1.32	1.54	1.76	1.98	2.20	2.42	2.64	2.86	3.08
inches	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1
Mms.	1.58	3.17	4.76	6.35	7.93	9.52	11.11	12.7	14.28	15.87	17.46	19.05	22.22	25.4

**Useful Conversion Factors**
**Linear**


Inches	×	25.400	=	Millimetres	×	0.039	=	Inches
Feet	×	0.305	=	Metres	×	3.281	=	Feet
Miles	×	1.609	=	Kilometres	×	0.621	=	Miles

**Weight**


Ounces	×	28.350	=	Grammes	×	0.350	=	Ounces
Pounds	×	0.454	=	Kilogrammes	×	2.205	=	Pounds

**Pressure**


Pounds force per sq. inch	×	0.068	=	Atmospheres	×	14.696	=	Pounds force per sq. inch
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**Velocity**


Miles per hour	×	1.609	=	Kilometres per hour	×	0.621	=	Miles per hour
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# Cycling Pastimes...



*Bicycle Polo.*



*Cyclo Cross.*



*Roller Racing.*



*B.M.X.*



*Cyclo Photography.*



*Rough Stuff.*



*Speedway.*



*Club Run.*



*Foreign Touring.*



*Tandem Riding.*



*Cycle Ball.*



*Hill Climb.*



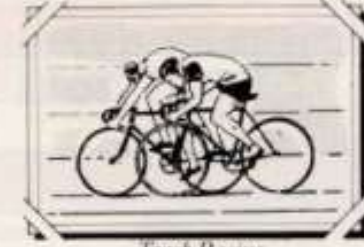
*Time Trialing.*



*Cycle Camping.*



*Road Racing.*



*Track Racing.*



*Cycle Touring.*



*Road Records.*



*Trike Racing.*

# Ron KITCHING

## EVERYTHING CYCLING

# TUBULAR TYRES

Any newcomer to the world of tubular tyres could be forgiven for feeling bewildered by the seemingly endless variety of makes, types, weights and tread patterns, but fortunately the guidelines are fairly well defined. The main one goes straight down the middle and on one side are the types which are largely made by hand with the tread applied 'cold', and on the other are the machine-made vulcanised kind. Generally speaking those in the first category are lighter in weight with a fine quality cotton or silk fabric and pure rubber inner-tubes that can be inflated to high pressures yet still be flexible and fast. They are the thoroughbreds, not cheap to breed or to buy yet a delight to ride and very often longer-lasting than their workaday counterparts. They should be treated like thoroughbreds, sheltered and relaxed when resting and steered clear of oil, potholes and — need it be said — sharp objects when in use.

In earlier times, most tubulars were hand-made, but improvements in materials and processes have made possible the production of high-grade tubulars by cheaper manufacturing methods, and having said that guidelines are well defined, it has also to be said that in good quality products the distinction is becoming somewhat blurred. Perhaps the introduction of nylon fabric has been responsible for at least enhanced reliability although many devotees still swear by long-staple Egyptian cotton — when obtainable. Nylon is more resistant to damp and abrasion and is more tolerant of under-inflation. It also calls for slightly lower vulcanising temperatures so that rubber treads are less well-cooked, although this means little in the case of synthetic rubber.

What does have a big effect on performances is the quality of the inner-tube. In the very best types, the pure natural rubber is so thin as to be almost transparent and this gives maximum resilience with the lightest weight. At the other end of the scale, a heavy butyl tube is fitted when utility rather than speed is the objective and nowadays all the lower-priced tubulars have synthetic innards.

Tread pattern is largely a matter of personal preference, for except on the heavier treads and in specialised uses such as cyclo-cross, it has little effect on performance. A fine rib or file pattern is the most favoured for speed, while rib and herring-bone combined is adequate for rougher use. Inflation pressure is of paramount importance and this should be relative to the weight of the rider and in accordance with the maker's recommendations. The tendency in recent years has been towards small-section tyres but fatter ones are readily available and should be considered for long-distance riding — or the Paris-Roubaix!

To anyone who has never experienced it, the liveliness conferred by sprint rims and tubular tyres will be a revelation. They make a bigger contribution to the mechanical efficiency of the modern bicycle than any other fitment.



# TUBULAR TYRES

**Ron  
KITCHING**

FONTANA

FONTANA

A new range of three carefully-chosen models to cover usage from training to critical racing. The pockets are of high-quality cotton, with treads according to the purpose.

**NEW**

#### Fortis

A bargain tubular for training which, at 300 grams, is still light enough to race on. The tread has been chosen with this in mind, a narrow centre ribbed section flanked on either side with herringbone, for a fast ride with grip on either flank. Butyl tube, 300 gm.

#### Forte

Each 2A **FTA T2630** **£6-62**

#### Squadra

A 260-gram racing tyre for criteriums, road racing and all-round time trials. The centre third of tread is of fine file pattern, with chevron pattern each side. Once again, it has a reliable butyl tube, and the end result is a great tyre at a not-so-great price. 260 gm.

#### Squadra

Each 2A **FTA T2640** **£7-81**

#### Record

A lightweight (220-gram) tubular for those really special events. Core of the tubular is a responsive tube in natural latex. A light pocket is wrapped around it, and topped off with a narrow tread band with a fine honeycomb pattern for grip without unnecessary drag. 220 gm.



Fortis

Squadra

#### Record

Each 2A **FTA T2650** **£11-79**

LION



Lion tyres are made in the most modern tubular tyre factory in the world. All models are manufactured under perfect working conditions with pure natural rubber and with a superior quality cotton. These modern manufacturing methods allow great cost savings, which are passed on to the consumer.

#### GT30

The best bargain in tubulars. A training tyre light enough to be used for racing on a budget. In mixed or ribbed tread, with a butyl tube. 300 gm.



GT 30 Mixed  
Each 2A **LN T2500** **£6-36**

GT 30 Ribbed  
Each 2A **LN T2510** **£6-36**

#### T36

A fully-rubbered tubular with a mixed tread, ideal for training and winter riding. Butyl tube. 360 gm.



T36 Mixed  
Each 2A **LN T2515** **£6-76**

#### GTR 28

Lightweight training or general racing tyre. Mixed tread with butyl tube. 280 gm.



GTR 28 Mixed  
Each 2A **LN T2520** **£7-10**

GTR 28 Ribbed  
Each 2A **LN T2525** **£7-10**

#### GTR 27L

An all-round racing tyre, mixed or ribbed tread, with the added advantage of a puncture-resistant breaker strip under the tread. Butyl tube. 270 gm.

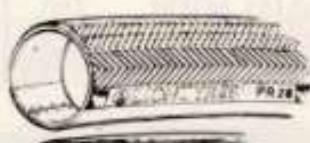


GTR 27L Mixed  
Each 2A **LN T2630** **£7-10**

GTR 27L Ribbed  
Each 2A **LN T2535** **£7-10**

#### PR 26

Slightly lighter racing tyre, with mixed tread for road racing, or ribbed tread if preferred for time trialling. With the extra responsiveness of a latex tube. 260 gm.



PR 26 Mixed  
Each 2A **LN T2540** **£7-10**

PR 26 Ribbed  
Each 2A **LN T2545** **£7-10**

#### PR 24

Latex-tube light racing tubular, giving a very smooth, fast ride. Mixed or ribbed tread. 240 gm.



PR 24 Mixed  
Each 2A **LN T2550** **£6-24**

PR 24 Ribbed  
Each 2A **LN T2555** **£6-24**

#### PR 24L

As above, but with added puncture-resistant breaker strip underneath the tread. 240 gm.

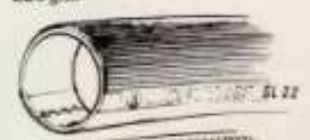


PR 24L Mixed  
Each 2A **LN T2560** **£6-62**

PR 24L Ribbed  
Each 2A **LN T2565** **£6-62**

#### SL 22

Super-light road, TT or even track tyre, with either fine mixed or ribbed tread. Latex tube. 220 gm.



SL 22 Mixed  
Each 2A **LN T2570** **£9-40**

SL 22 Ribbed  
Each 2A **LN T2575** **£9-40**

#### SL 21

A fine matt tread graces this ultra-light tubular, suitable for track or top road event. Latex tube. 210 gm.



SL 21 Mixed  
Each 2A **LN T2580** **£9-67**

MILREMO



#### Sportivo

The finest value in "tubs" made today. Tough black tread with fine centre ribs and file pattern non-slip side walls. The perfect and ever-popular all-purpose tubular. 310 gm.



Sportivo  
Each 2A **MO T3000** **£7-54**

#### Cadetti

Similar in design to Sportivo but weighs less. The ideal tubular for the beginner or for general purpose. 260 gm.



Cadetti  
Each 2A **MO T3005** **£6-55**

#### Mondiale

Unbeatable for value. Not to be compared with similarly priced fully vulcanised tyres. Fine ribbed tread. 290 gm.



Mondiale  
Each 2A **MO T3015** **£7-03**

#### Specialissimo

Extra fast road tyre with multi-ribbed black tread. 300 gm.



Specialissimo  
Each 2A **MO T3025** **£8-25**

#### Nuovo Leggerissimo

Tough black tread with fine centre ribs and file pattern, non-slip side walls. Good cotton road racing tyre. 260 gm.



Nuovo Leggerissimo  
Each 2A **MO T3030** **£9-72**

### Normal Cross

A special sturdy tub for the cyclo-cross enthusiast, rough file sides, raised V-cross section, 370 gm.



Normal Cross  
Each 2A **MO T3035** £10-59

### Nylon Butyl

The resistance of nylon gives a new dimension to lightweight racing tubulars. The fine-woven carcass will stay lively and responsive, and will not deteriorate because of exposure to adverse weather. With a butyl tube, cotton base tape and a mixed tread, this is a superb choice for fast road work. 230 gm.



Nylon Butyl  
Each 2A **MO T3041** £9-88

### Nylon Latex

As the Nylon Butyl, but with a natural latex rubber tube, saving weight and adding to puncture resistance. One of the lightest road tyres available. 200 gm.



Nylon Latex  
Each 2A **MO T3044** £12-54

### Juniors

501 - 20"  
Each 2A **MO T3201** £7-19

501 - 22"  
Each 2A **MO T3202** £7-45

501 - 24"  
Each 2A **MO T3203** £7-64

501 - 26"  
Each 2A **MO T3204** £8-03

**NEW**

**SUP'AIR LATEX**



### Sup'air Latex 240

An all-round racing tubular with the advantage of a latex tube - the same one supplied for top Italian tubulars. It has a 22mm section and fine multi-herringbone tread. Because of the latex tube, it "rides" much faster than its weight. 240 gm.



### Sup'air Latex 240

Each **SLXT 2A** £16-44

### Sup'air Latex 220

An incredible racing tubular, once again with a responsive latex inner tube. The tread has a fine mixed pattern, a centre file with chevron surrounds. Section is 22mm. Ideal for fast time trials, criteriums or special road races where you want the best from a tyre. 220 gm.



Sup'air Latex 220  
Each **SLXT 2A** £25-21

**VITTORIA**



### Mondiale

A general purpose tyre, semi-avulcanised with a rubberised base tape. The mixed tread and slim section makes it lively enough for road races and time trials at all distances. 290 gm.



200 Mondiale  
Each 2A **VA T4000** £7-03

### Leone

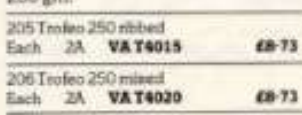
As the Mondiale, but slightly heavier. Good for training and club events. 330 gm.



201 Leone  
Each 2A **VA T4011** £7-69

### Trofeo 250

A similar tread to the Mondiale, but a lighter pocket. This is a great all-round tyre for training and racing which performs well on rough or wet surfaces. Also available in a fine ribbed tread. 260 gm.



205 Trofeo 250 ribbed  
Each 2A **VA T4015** £8-73

206 Trofeo 250 mixed  
Each 2A **VA T4020** £8-73

### Special Pro

A high quality racing tyre equally suitable for fast criteriums, special road races or time trials. Its 21.5mm section carcass is of high resistant special cotton yarn, enclosing a tube of butylised latex, which combines the advantages of both materials. The tread is a cunning mixture of rib, file and herringbone, giving excellent grip and low rolling resistance. 220 gm.



207X Special Pro  
Each 2A **VA T4022** £14-08

### Giro del Mondo

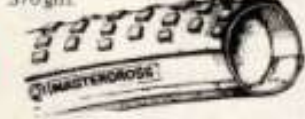
Made with the same polyester-type fibre as the Mastercross, this tyre lives up to its name. It will wear and wear. Mixed tread. 260 gm.



Each 2A **VA T4038** £13-23

### Mastercross

Made for the toughest conditions, cyclo-cross or even rough riding, the synthetic fibre carcass is topped with a heavily studded tread. Rig-tested to 40,000 kilometres. 370 gm.



803 Mastercross  
Each 2A **VA T4087** £14-64

### Corsa CM

Light tubular. Resilient and hard wearing for use in all types of racing with ribbed tread. Normally to be used on the front wheel. Inflate at 7-8Atm (100-120 psi). Silk (Seta) 230 gm. Cotton 240 gm.



02 Vittoria Corsa CM  
Each 2A **VA T7020** £20-02

06 Vittoria Corsa Seta CM  
Each 2A **VA T7050** £23-20

### Corsa CX

Light tubular again. A very resilient and robust model for use in all types of competition. With its special mixed tread it offers a low rolling resistance and yet perfect adherence even on wet roads. Inflate at 7-8 Atm (100-120 psi). Cotton 240 gm. Silk (Seta) 230 gm.



03 Vittoria Corsa CX  
Each 2A **VA T7025** £21-15

09 Vittoria Corsa Seta CX  
Each 2A **VA T7055** £23-93

### Corsa CG

Light tubular. A lively and strong tubular which is recommended for races where maximum wear and grip are required. Mixed tread. Inflate at 7-8 Atm (100-120 psi). Cotton 240 gm. Silk (Seta) 230 gm.

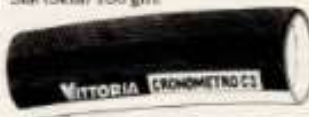


04 Vittoria Corsa CG  
Each 2A **VA T7030** £20-30

10 Vittoria Corsa Seta CG  
Each 2A **VA T7060** £23-48

### Cronometro CS

Very light tubular. A special elasticity combined with a smooth tread makes this tubular a must for the race against the clock. Slightly larger section which gives a smoother ride. Inflate at 8-9 Atm (120-135 psi). Cotton 190 gm. Silk (Seta) 180 gm.



05 Vittoria Cronometro CS  
Each 2A **VA T7035** £22-23

11 Vittoria Cronometro Seta CS  
Each 2A **VA T7065** £26-66

### Pista CS

Extremely light tubular, very resilient. May be used on all types of hard track. Its special glazed tread gives perfect adherence with the low rolling resistance required in sprinting. Inflate at 11-12 Atm (160-175 psi). Cotton 150 gm. Silk (Seta) 140 gm.



06 Vittoria Pista CS  
Each 2A **VA T7040** £21-55

12 Vittoria Pista Seta CS  
Each 2A **VA T7070** £26-08

### Special CG

The synthetic yarns used for this casing have a greatly increased tensile stress over cotton, making this tubular superb for racing over bumpy or uneven surfaces. An ideal "insurance" for the rider who is unsure of the roads that lie ahead. Mixed tread. 240 gm.



70 Special CG  
Each 2A **VA T7075** £21-55

### Special CX

Using a special waterproof synthetic yarn for the casing, this model has a tread of fine mixed surface, using a special rubber of "soft" mix, making it right for racing in the rain. 240 gm.



71 Special CX  
Each 2A **VA T7080** £21-89

# TUBULAR TYRES

## VITTORIA - continued

### Cronometro CT

Based on the Cronometro time trial tyre, this superlight model has a "glazed" tread, slightly roughened but designed for minimal rolling resistance. Just right for the extra-special event. Cotton 180 gm.



72 Cronometro CT  
Each 2A VA T7085 £22-80

### Cronometro CX

As the Cronometro CS, but in 10mm section to suit the vogue for ultra-narrow rims. Cotton 190 gm.

73 Cronometro CX  
Each 2A VA T7090 £24-10

WOLBER

WOLBER

### Strada 80

Ideal for training and club events. Mixed tread. Butyl inner tube, 25mm section. 310 gm.

Strada 80  
Each 2A WA T5003 £7-82

### Junior Butyl

Strong, fast tubular, ideal for training, and popular with young riders. Mixed tread. Butyl inner tube, 25mm section. 335 gm.



Junior Butyl  
Each 2A WR T5005 £8-35

### Route Reinforce

An extra strong standard tubular for winter conditions. File tread. Butyl inner tube, 26mm section. 365 gm.



Route Reinforce  
Each 2A WR T5020 £9-04

### Corsa 80

Good all-round tyre for all types of racing on the road. Mixed tread. Butyl inner tube, 24mm section. 265 gm.

Corsa 80  
Each 2A WR T5025 £8-87

### International

Light casing of Egyptian cotton, 24 strands per cm. Excellent performance for all applications: Touring, training, racing. Mixed tread. Butyl inner tube, 24mm section. 260 gm.



International  
Each 2A WR T5030 £9-47

### Cross PD

Large diamond tread, 26mm section. Butyl tube. 360 gm.

Cross P.D.  
Each 2A WR T5040 £9-27

### Cross Super

Special anti-skid "knobbly" tread for good adhesion in muddy conditions. Butyl inner tube, 25-5mm section. 360 gm.



Cross Super  
Each 2A WR T5045 £9-18

### Special Course

Light casing of Egyptian cotton, 24 strands per cm. Tough, light, high-performance tubular, suitable for all applications. Mixed tread. Butyl inner tube, 24mm section. 280 gm.



Special Course  
Each 2A WR T5050 £10-55

### Leader 80

Lightweight all-purpose tyre with mixed tread and Egyptian cotton casing (24 threads per cm). Butyl inner tube, 24mm section. 260 gm.



Leader 80  
Each 2A WR T5055 £9-77

### Cross 28

Studded tread for greasy surfaces, for cyclo-cross and rough riding. Butyl inner tube, 28mm section. 400 gm.

Cross 28  
Each 2A WR T5057 £10-31

### Neo-Pro

Mixing some of the techniques of vulcanizing with the hand-made processes gives an item with performance and lightness of better tubulars at a reasonable price. Ideal for racing, training and touring. Mixed tread. Butyl inner tube, 22mm section. 260 gm.



Neo-Pro  
Each 2A WR T5060 £10-08

### Pro 84

Similar to the Neo-Pro but with a lighter casing. Butyl inner tube, 22mm section. 230 gm.

Pro-84  
Each 2A WR T5061 £12-57

### Invulnerable 84

The latest in puncture-resistance, thanks to a flexible stainless steel strip under the tread band, which gives a performance in bad conditions far better than the weight suggests. Mixed tread, 22mm section. 290 gm.

Invulnerable 84  
Each 2A WR T5066 £12-45

### Criterion

Narrow, lively lightweight ribbed tread, 22mm section. 240 gm.

Criterion  
Each 2A WR T5062 £17-55

## Performance

These tubulars have proven their worth in the Tour de France and other demanding events. File tread with centre rib. Latex inner tube, casing of fine Egyptian cotton (37 threads per cm). 23.5mm section. 215 gm.



Performance  
Each 2A WR T5065 £20-62

## Competition

Based on the Performance, this model has been designed for worse conditions. 215 gm.



Competition  
Each 2A WR T5070 £20-11

## Piste

A high-quality tubular for track events. Casing in Egyptian cotton, 37 threads per cm. Matt tread. Latex inner tube, 23.5mm section. 185 gm.



Piste  
Each 2A WR T5075 £20-91

## Record 18 Piste

Narrow-section (18mm) tubular for track events, especially sprints and record attempts. For use with narrow sprint rims. 160 gm.

Record 18 Piste  
Each 2A WR T5076 £24-11

## Record 18 Route

As above, but with a mixed road tread. For the most crucial of road events. 180 gm.

Record 18 Route  
Each 2A WR T5077 £24-11

## Recommended Uses

**TABLE OF RECOMMENDATIONS FOR TUBULAR TYRES**


Make and Model	Weight		Track Events			Time Trials				Road Racing					
	Grams	Tread	Wood	Concrete	Grass	25-50 miles	50-100 miles	12 hours	24 hours	Club events	Training	Cyclo cross	Kermesse	Criterium	Road Race
<b>FONTANA</b>															
Forte	300	MX								X	X				
Squadra	260	MX				X	X						X	X	X
Record	220	H	X	X		X	X								
<b>LION</b>															
GT 30	300	MX								X	X				
GT 30	300	R								X	X				
T 36	360	MX										X			
GTR 28	280	MX								X	X			X	
GTR 28	280	R								X	X				
GTR 27L	270	MX						X	X	X	X			X	X
GTR 27L	270	R						X	X	X	X				
FR 26	260	MX						X	X				X	X	
FR 26	260	R						X	X	X					
FR 24	240	MX				X	X						X	X	
FR 24	240	R				X	X								
FR 24L	240	MX				X	X	X	X				X	X	X
FR 24L	240	R				X	X	X	X						
SL 22	220	MX	X	X		X	X						X	X	
SL 22	220	R	X	X		X	X								
SL 21	210	MT	X	X		X	X								
<b>MILREMO</b>															
Sportivo	310	MX								X	X				
Cadeti	260	MX								X	X				
Mondiale	290	R				X	X	X							
Specialismo	300	R					X	X		X					
Nuovo Leggerissimo	260	MX				X	X						X	X	
Normal Cross	370	C			X							X			
Nylon Butyl	230	MX					X	X		X			X	X	X
Nylon Latex	200	MX			X	X	X						X	X	X
<b>VITTORIA</b>															
Mondiale	290	MX				X	X	X		X	X			X	
Leone	330	MX									X				
Giro del Mondo 306X	260	MX						X	X				X	X	X
Mastercross	370	C			X							X			
Trofeo 205	260	MX				X	X	X	X		X		X	X	X
Trofeo 206	260	R				X	X	X	X		X				
Juniors 501-20	210	MX				X	X								
Juniors 501-22	230	MX				X	X						X	X	
Juniors 501-24	250	MX				X	X	X						X	X
Juniors 501-26	270	MX					X	X	X		X				
<b>VITTORIA NUOVA LINEA</b>															
Corsa CM	240	R				X	X								
Corsa CX	240	MX				X	X						X	X	
Corsa CG	240	MX				X	X	X	X				X	X	X
Cronometro CS	190	S				X	X								
Pista CS	150	S	X	X											
Corsa Seta CM	230	R				X	X	X							
Corsa Seta CX	230	MX											X	X	
Corsa Seta CG	230	MX											X	X	



# TUBULAR TYRES

**Ron  
KITCHING**

## DATA

### TUBULARS—continued

Cronometro Seta CS	180	MX		X	X	X														
Special CG	240	MX			X	X	X	X								X	X	X		
Special CX	240	MX			X	X	X									X	X	X		
Cronometro CT	180	G		X	X	X														
Cronometro CX	170	G		X	X	X														
Pista Seta CS	140	S		X																
<b>WOLBER</b>																				
Strada 80	310	MX													X	X				
Junior Butyl	335	MX														X				
Corsa 80	265	MX								X	X	X					X	X		
International	290	MX								X	X	X	X							
Criterion	240	R			X	X											X	X		
Cross	360	F		X													X			
Cross Super	360	C		X													X			
Leader 80	255	MX								X	X	X								
Special Course	280	MX								X	X	X	X							X
Cross 2B	400	C		X													X			
Neo Pro	260	MX			X	X											X	X	X	
Invulnerable	280	MX				X	X	X	X										X	X
Pro-84	230	MX			X	X											X	X	X	
Performance	215	F			X	X											X	X		
Competition	215	MX			X	X											X	X		
Piste	185	MT	X	X																
Record 18 Piste	160	MT	X	X																
Record 18 Route	180	MX			X	X											X			
Route Reinforce	365	F															X			
<b>SUP AIR LATEX</b>																				
Sup'air Latex 240	240	MX			X	X	X										X	X	X	
Sup'air Latex 220	220	MX			X	X											X	X		

**TREAD KEY:** F—File MT—Matt MX—Mixed R—Ribbed S—Smooth C—Cross G—Glazed H—Honeycomb  
X—Indicates that the tyre is suitable for the type of event shown above. Sizes not shown are Standard 27".

## A MESSAGE TO NEW DEALERS

*If you are reading this catalogue for the first time, and do not have an account with us yet, please contact our Sales Manager for details.*

*We supply any bona fide cycle shop on credit terms (subject to satisfactory references). Many of our goods are also available through local factors.*

*You can place orders by telephone, by post or through our area representatives.*

*All but the smallest orders are carriage-paid.*

*Experts on our staff will advise on all equipment needs and problems and we are pleased to see dealers at any time if they wish to visit our premises.*

*Dealers new to the trade usually welcome our advice on stocking-up, always a difficult period in the life of a new business.*

# Ron KITCHING EVERYTHING CYCLING SUNDRIES

Apart from the actual components of the bicycle, and the clothing which the enthusiast cyclist chooses to wear, there are many other items available which can make the equipment-conscious cyclist happy.

There are the many and varied books on cycling, personal experiences and advice, for the beginner and for the specialist.

There are the items which help to keep bicycles in the best of condition — wall racks, cycle covers and transporting bags, covers for tubular tyres or even complete wheels. Roof racks help to solve the travel problems of the cyclist who wants to race or tour far afield, and needs to take a car part of the way. It is no longer good enough just to strap your treasured machine hopefully to an ordinary roof rack, especially since custom-designed racks offer such a choice of fixings and fittings.

Cyclists need bags to carry their many chattels, from the simple musette which is slung over a shoulder, to the full-blooded team bag which carries the needs for a whole day's racing and more.

Sunglasses for sportsmen, massage cream for tired legs, handy stands to keep the machine upright for display, even magnifiers for the map-studying would-be traveller — where will it all end?



BEHR



## Spectacle mirror

In modern traffic conditions, the ability to "see behind" without turning the head must be advantageous and the Behr mirror, which clips to all types of spectacles, does give an adequate view of vehicles approaching from behind. The 25mm diameter mirror will not shatter, and the metal fittings are of nickel-plated brass.



Spectacle mirror  
Each 7X **BEHR 51070** £3-16

BOOKS

## Agonistic Cycling

Written in English by Italian specialist Agostino Massagrada, this hard-covered book has been adopted by the UCI as its instruction manual for technical courses. In its 173 illustrated pages are details on the bicycle itself, on nutrition, athletics, physiology, and the techniques of training to a high level. This is a book from which all racing cyclists can benefit.



A. Massagrada  
Agonistic Cycling  
Each 7X **ACG 5303** £12-72

## The Young Cyclist's Handbook

This hard-backed volume contains plenty to look at as well as to read. It's a mine of basic, yet vital advice for the new cyclist, young and old — despite the title. It is profusely illustrated, frequently in colour, and covers the history of the bicycle, choosing a machine, riding technique, and getting the best out of the pastime and sport. The author is Ken Evans, former Editor of "Cycling" magazine.



Ken Evans  
The Young Cyclist's Handbook  
Each 7X **KS 5315** £3-50

## L'Année du Cyclisme

Pierre Chany's annual hardback review of a year's cycle racing, with major Continental classics and the Tour de France holding pride of place. Detailed results are also given. Hundreds of photographs, many in colour, tell a story every cyclist can understand, even though the text is in French.



Pierre Chany  
L'Année du Cyclisme  
Each 7X **PCY 5320** £19-99

## Ron Kitching 'Cyclist's Log'

Now there is a way to store the facts and memories of a lifetime's cycling. For racing man, tourist or leisure rider, a handsome record book which you will treasure in the years to come. Chart your mileage, trace your equipment expenditure, list your favourite touring overnights and tea-places, record the progress of your personal best times, road and track performances, note down how you feel now — so that you can remember in the future. An ingenious way of logging the cycling life of any kind of rider, to be filled in every day, every week — or just when you feel like it. 224 pp, case-bound, with gold-blocked hard cover.



Ron Kitching  
Cyclist's Log  
Each 7X **RT 5323** 10U £3-00\*

## The Complete Cycle Sport Guide

An unequalled guide to training for racing cyclists, by West Germany's official team doctor Peter Konopka. Particularly noted for its advice on compiling training programmes. 162 pages, many illustrations.



Peter Konopka  
The Complete Cycle Sport Guide  
Each 7X **PKA 5325** £6-95

## Sutherland's Bicycle Mechanics Handbook

Welcomed by those who have been guided through the maze of bicycles and equipment now available by the two previous volumes.

The number of sections has been increased to 16 and the expanded index has 470 entries ranging from 'Adjustable wrench' by way of 'Chainwheel interchangeability' to 'Wire gauge sizes'. Perhaps the largest of the new sections, 28 pages on single-speed coaster brakes, will be of limited utility to British repairers but 27 pages on three and five-speed hubs (seven types of Sturmey-Archer) all with clear 'exploded' drawings and detailed instructions cannot fail to instruct. The same minute attention is given to every component, there are 189 entries under 27-inch wheels in the 30 pages on spokes, rims and tyres. There is a full explanation of those mysterious markings which have recently appeared on tyre walls and new entries in the spoke chart for radial spoke lengths. There are 430 listed details applying to more than 30 headsets. Hints and tips abound, from how to remove the last sprocket on an all-threaded freewheel to 11 reasons why a head set binds. There is a six-language glossary of part names and an incidental short course in English-American. The physical make-up of the book is as impressive as its contents. The printing and the layout are perfect. Page size is 11 inches by 8½ inches in heavy art paper. Card dividers with plasticated tabs separate the sections, all held in a strong, plastic-backed easily-opened ring binder that amply overlaps the pages.



Sutherland  
Bicycle Mechanics Handbook  
Each 7X **SDS 5340** £33-03

## Designing and Building Your Own Frame

Many items have been described as "the last word" but in regard to what is indicated by the title, this book is the first, the last, and everything in between! Written by an enthusiastic amateur and intended for like-minded readers, it nevertheless contains a wealth of data, information and instruction from which even the most experienced professionals can benefit. From 'Design fundamentals' to 'finishing and painting', nothing is omitted and in the 162 pages and over 170 photographs there is abiding interest even if you have no intention of doing your own thing. Actually Dick Talbot is a professional engineer, age 44, and a frequent contributor of technical articles to the cycling press of America, but this book has been written for the love of the subject,

which is what 'amateur' really implies.



Richard Talbot  
Designing & Building Your Own Frameset  
Each 7X **MGD 5310** £40-09

## Ride It! BMX

The first UK book covering BMX sport from every angle. Almost 150 pages, hard-backed, pictures on almost every page.



Ride It! BMX by Don Smith  
Each 7X **DS 5333** £4-95

## BMX

Inexpensive large-format book on BMX basics, ideal for the beginner, 63 pp, many colour illustrations.



B.M.X. by Dave Spurdens  
Each 7X **D6N 5336** £1-99

## Catalogues

Sun Tour Illustrated  
Each 7X **STR 5400** £8-80

T.A./Tevano  
Each 7X **TA 5405** £8-30

VAR (Tool) Illustrated  
Each 7X **VAR 5415** £8-80

Zeus 105 Illustrated  
Each 7X **ZS 5346** £2-96

Books and catalogues are VAT free. Except\*

CINELLI



## Bags

Rit Bag - in nylon - with zip  
Each 7X **CI 5035** 10M £15-40

## Wheel bag

A quality product for transporting and protecting expensive wheels. The bag is of tough waterproof nylon, as are the carrying straps. A 180-degree zip makes access easy.

CINELLI - continued



Wheel Bag - in nylon - with zip  
Each 7X **CI 5045** 10M **£14-63**

### Tub bag

The Cinelli tub bag has an open top end and the rear portion can be extended to allow for the easy positioning of the folded tyre. Closure is by Velcro, and a nylon strap holds it behind the saddle. In soft, simulated leather.



Tub bag in simulated leather  
Each 7X **CI 5000** 10M **£2-76**

CINELLI BICI



### Display stands

#### Minisupport

An ingenious support made of zinc-chromed steel, which cradles the bottom bracket and lifts both wheels slightly off the ground. Ideal for shop displays.



50 Minisupport  
Each 7A **CI 5621** 5M **£6-79**

#### Mono Bicsupport

A free-standing chrome-plated display support. The complete machine is supported at the crossbar by two rubber-covered hooks and an adjustable third hook stops the handlebars turning. Very stable in use, and of obvious high quality.



52 Mono  
Each 7A **CI 5624** 5M **£26-12**

#### Duo Bicsupport

As article 52, but holds two machines one above the other. An ideal choice where height is available but floor-space limited.



55 Duo - double stand  
Each 7A **CI 5627** 5M **£43-22**

#### Wall/ceiling rack

An ingenious rack which allows a machine to be suspended by the cross-bar either mounted on a wall or from the ceiling. In zinc-plated steel, with rubber-padded hooks. Fittings supplied for fixing to solid or hollow walls.

73 Wall or ceiling rack  
Each 7A **CI 5631** 5M **£8-12**

#### Frame display stand

A dynamic display of frame sets is made simple by using the Cinelli system, which presents framesets securely held without damage to their finish, at varying heights, all clamped to a stable floor mounted and easily moveable modular support base. The system is made of steel which is either chrome-plated or epoxy covered. It is adjustable to cope with uneven floors or other surfaces. When collapsed, it can be stored in a space 34" x 18" x 5 1/2". The modular frame can be extended by the further purchase of other intermediate modules and further sets of frame stands to extend the basic unit theoretically to infinity. The basic package contains everything necessary to display 6 framesets, but the basic module itself will take up to 16 framesets if really necessary. When assembled, the basic module measures 5' 11" x 2' 3" x 1' 3".



85 Frame display stand  
Each 7A **CI 5634** 5M **£102-60**

Extra support for No. 85 Stand  
Each 7A **CI 5650** **£5-90**

#### Bici-prop bike support

In blue epoxy coating with two rubber-padded hooks, this is a simple support stand which is effective in an

instant. The two rubber-clad components slot over the chainstays immediately behind the bottom bracket. When the machine is moved forward slightly, the prop stand lifts the rear wheel just off the ground for display or maintenance.



81 Bici-Prop  
Each 7A **CI 5636** 5M **£4-72**

DECMA



#### Display stand

The rear wheel of any machine slots into this stand, and the whole machine is then stable, and displays can be changed in seconds, thanks to the castors on the base of this inexpensive item.



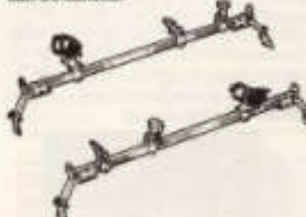
Showroom display stand on castors  
Each 7A **DA 5650** 20U **£2-53**

MINOURA



#### Luxury roof rack

The RC-2 is an aristocrat among roof racks. Using top-quality materials, it is designed to combat the ravages of British weather. The two transverse carrying bars are of light alloy, the fittings of stainless steel. The rack is supplied with fittings for two bikes held complete in the inverted position, the saddle strapped in a non-scratch cradle, the handlebar secured by two plastic-faced clamps. Separate fittings are available. Racing, flat-barred or BMX machines can be carried.



RC-2 for 2 cycles  
Each 7X **MA 51575** **£85-34**

Set of fittings for above  
Set 7X **MA 51578** **£18-00**

KINECYCLE



#### Massage cream

At last! A non-staining massage cream with a pleasant smell.

Kinecycle massage cream has pine-scented turpentine as its active ingredient, emulsified with vegetable oil, and penetrates totally after a few moments.

Recommended for use before or after effort. In handy squeezable plastic container (125 cc) with self-sealing spout.



Massage cream 125 cc plastic bottle  
Each 7X **KB 51055** 20U **£1-77**

MILREMO



#### Chamois cream

An essential for every racing cyclist's holdall, this inexpensive product lubricates the chamois inserts in racing shorts and guards against saddle soreness — two valuable functions which help to maintain a vital garment and its wearer.



Chamois cream  
Each 7X **MO 51075** 10U **£1-32**

#### Map magnifier

Neat, simple and ultra light thin plastic magnifier, 95 x 32mm in protecting plastic case, for a better look at route details.



Plastic in case  
Each 7X **MO 51000** 20U **£0-16**

#### Metric conversion rule

4" dia. plastic  
Each 7X **MO 51010** 20U **£0-68**

## OPTIMA SPORTS



### Sports sunglasses

A cycling novelty — Optima sports spectacles. A Bernard Croyet creation.

The experience of a designer/sportsman at your service. Comfort, lightweight, safety, efficiency. No more watering eyes.

Protection against insects, dust, reflected light, eye troubles, dazzle, rain and bad weather. For constant wear. Adjustable nosepieces and sidepieces accommodate all face widths. Lenses in CR39 Orgalite.



Bernard Croyet  
Cycle sunglasses in case  
Pair 7X **QA 51750** £11.64

## ORTO SPORTS



### Cycle cover

A one-piece cover for a complete racing cycle, which zips to form snug protection, having only the handlebars, saddle and cranks exposed. Made of waterproof nylon.



Storage cover  
Each 7X **OS 51520** £32.66

## RON KIT



### Badge

The distinctive Ron Kit emblem is featured on this high quality sew-on woven badge, giving a blue and gold highlight to saddle bag, jacket or shorts.



Woven badge  
Each 7X **RT 5257** £0.21

## Musettes

### PVC

This larger than average musette keeps out the weather, thanks to the plasticised material, the white plastic rear-facing panel which carries the Ron Kitching emblem, and two press-stud fasteners. Of tough construction, it features two loops for extra waist fastening when required. 14" x 12".



PVC & nylon musette  
Each 7X **RT 5260** £2.62

### Cotton

This cotton musette bag has one-piece construction for strength, has two neat press-stud fasteners, and folds down into any small pocket when empty — ideal for carrying those unexpected purchases. 12" x 11".

Cotton musette  
Each 7X **RT 5261** £1.64

## Training spectacles

### Turino

Recommended for training whether intensive or occasional. The frame is in black plastic and the clear, smoked or yellow-tinted lenses are unbreakable, with a turned-back outside edge that gives full protection against insects in summer and cold winds in winter.



Turino  
Pair 7X **RT 51770** £1.48

## Gear calculator

An indispensable aid for touring as well as racing. Its size enables you to keep it handy to give instant answers to make sure you have the right gear combinations to suit conditions prior to competition. The range of chainwheels and sprockets available from Ron Kitching covers the widest possible number of gear ratio combinations. T.A. for example, offer 1 million combinations! This table covers them all, giving chainwheel sizes from 26 to 68 teeth and sprocket sizes from 11 to 38.



Gear calculator  
Each 7X **RT 51760** £0.50

## Spoke calculator

An 11" x 4 1/4" cardboard slide rule by following a few simple directions will give you the length of spokes required for most combinations of rim, hub and spoke-crossing. Rim sizes go from 14" to 28" and 700C, hub-flange diameters from 34 to 67mm and spoke crossing from one to four. There is also a hub-flange gauge and a mm/inches scale.



Spoke calculator  
Each 7X **RT 51705** £1.30

## ROTO



## Roof racks

### 9188

Versatile roof rack which allows two machines to be carried upright, with front wheels removed and in separate fork fittings. There is room for a third bicycle using an optional extra set of fittings. The rack components are steel, covered with a grey/white plastic coating for corrosion resistance and good looks.



9188.60 for 2 cycles  
Each 7A **RO 51551** £35.68

### 9190

Similar in construction to the 9188, this model takes two bicycles inverted, fixing them by two clamps at the handlebars and a trough for the saddle. Wheels need not be removed.



9190.60 for 2 cycles (carried inverted)  
Each 7A **RO 51552** £40.15

## Boot rack

### 9195

Similar to the 9190, but designed to fit to a car boot lid.

9195.00 for 2 cycles (carried inverted) (Boot fitting)  
Each 7A **RO 51565** £39.64

## Spare fittings

9188.63 for 9188 model  
Set 7A **RO 51556** £11.70

9190.63 for 9190 & 9195  
Set 7A **RO 51562** £9.25

## Wall rack

The Roto cantilever bike rack will hold a bicycle in two plastic-covered hooks one foot from any wall to which it is affixed. The arms are of 6mm round steel rod, hinged to 350mm of stout hollow box girder. Expandable plugs are supplied and these give a firm hold in any type of walling. There is provision for fitting an additional central support if necessary and the arms fold flat against the wall when not in use.



9292 in Z.P. steel  
Each 7A **RO 51630 10U** £4.57

## SUN TOUR



## Team bag

A massive and versatile bag in blue waterproof nylon. Two wide black webbing straps with alternative fixings to allow the bag to be rucksack or holdall style. Double zip to velcro-tabbed top flap. Zipped side compartment plus further open pocket.

**NEW**



Team bag in nylon  
Each 7X **STR 5054 5U** £19.18

VAR



### Display stands

Convenient, simple, compact, adaptable to all cycle models. With plastic foot, plastic pads. The ideal stand for window display, showrooms, in the house or for minor repairs. Also available with castors for increased mobility.



No. 154 Cycle display stand crank fitting  
Each 7A VAR 5220 £8-71

No. 155 as above on castors  
Each 7A VAR 5225 £9-10

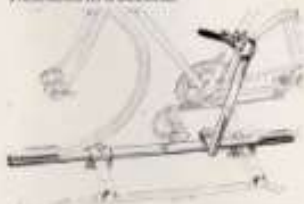
### Roof rack fittings

**333**  
Adjustable, fits to the lateral bars of almost all roof racks. Front forks and bottom bracket are attachment points, leaving wheels free from any possibility of chafing.



333 Porte-velos  
Set 7A VAR 51580 £48-41

**716 Tour de France**  
Bike carrying rack for fast action. Fits any roof rack with transverse arms. One complete machine is held upright in a shallow trough, by a quick-release clamp to the steel tube. Releases in a second.



716 Roof rack attachment  
Each 7A VAR 51565 £61-57

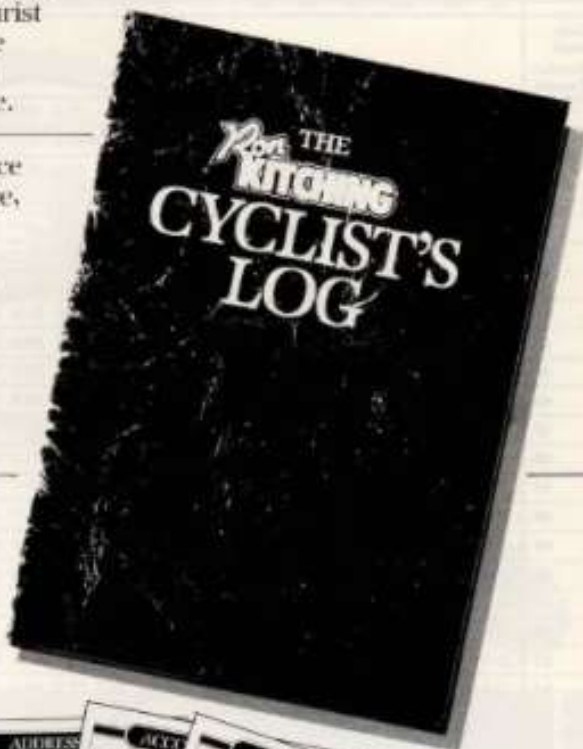
716T Quick release for above  
Each 7A VAR 51566 £30-31

## THE RON KITCHING CYCLIST'S LOG

Now there is a way to store the facts and memories of a lifetime's cycling. For racing man, tourist or leisure rider, a handsome record book which you will treasure in the years to come.

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- \* 224 pages
- \* Case-bound
- \* Hard-backed
- \* Cover gold-blocked



# Get into right gear with CYCLEPARTS INTERNATIONAL from RON KITCHING Hookstone Park, Harrogate.

## Gear Table for 27" Wheel

(Also Approximate For 700 C Size And Tubular Sprint Rims)

Sprocket (Number of teeth)	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	38
26	63.8	56.5	54.0	50.1	46.8	43.9	41.3	39.0	36.9	35.1	33.4	31.9	30.5	29.2	28.1	27.0	26.0	25.0	24.2	23.4	22.6	21.9	21.3	20.6	18.5
28	68.7	63.0	58.1	54.0	50.4	47.2	44.4	42.0	39.7	37.6	36.0	34.3	32.8	31.5	30.2	29.0	28.0	27.0	26.0	25.2	24.3	23.6	22.9	22.2	19.9
30	73.6	67.5	62.3	57.8	54.0	50.6	47.6	45.0	42.6	40.5	38.5	36.8	35.2	33.7	32.4	31.2	30.0	28.9	27.9	27.0	26.1	25.3	24.5	23.8	21.3
32	78.5	72.0	66.5	61.7	57.6	54.0	50.8	48.0	45.5	43.2	41.1	39.3	37.6	36.0	34.6	33.2	32.0	30.8	29.8	28.8	27.8	27.0	26.2	25.4	22.7
34	83.4	76.5	70.6	65.6	61.2	57.4	54.0	51.0	48.3	45.9	43.7	41.7	39.9	38.2	36.7	35.3	34.0	32.8	31.6	30.6	29.6	28.7	27.8	27.0	24.2
36	88.3	81.0	74.8	69.4	64.8	60.7	57.1	54.0	51.1	48.6	46.2	44.2	42.2	40.5	38.8	37.4	36.0	34.7	33.5	32.4	31.3	30.4	29.5	28.6	25.6
38	93.2	85.5	78.9	73.3	68.4	64.1	60.3	57.0	54.0	51.3	48.9	46.6	44.6	41.8	41.0	39.5	38.0	36.6	35.4	34.2	33.0	32.1	31.1	30.2	27.0
40	98.1	90.0	83.1	77.1	72.0	67.5	63.5	60.0	56.8	54.0	51.4	49.1	47.0	45.0	43.2	41.5	40.0	38.6	37.2	36.0	34.8	33.6	32.7	31.8	28.4
42	103.0	94.5	87.2	81.0	75.6	70.9	66.7	63.0	59.7	56.7	54.0	51.5	49.3	47.3	45.4	43.6	42.0	40.5	39.1	37.8	36.5	35.4	34.4	33.4	29.8
44	108.0	99.0	91.4	84.9	79.2	74.3	69.9	66.0	62.5	59.4	56.6	54.0	51.6	49.5	47.5	45.7	44.0	42.4	41.0	39.6	38.3	37.1	36.0	34.9	31.3
45	110.4	101.2	93.4	86.8	81.0	75.9	71.5	67.5	64.4	60.7	57.8	55.2	52.8	50.6	48.6	46.7	45.0	43.4	41.9	40.5	39.1	38.0	36.8	35.7	32.0
46	112.9	103.5	95.5	88.7	82.8	77.6	73.1	69.0	65.4	62.1	59.1	56.5	54.0	51.8	49.7	47.8	46.0	44.4	42.8	41.4	40.0	38.8	37.6	36.5	32.7
47	115.3	105.7	97.6	90.6	84.6	79.3	74.6	70.5	66.8	63.4	60.4	57.6	55.2	52.9	50.8	48.8	47.0	45.3	43.7	42.3	40.8	39.7	38.5	37.3	33.4
48	117.8	108.0	99.7	92.6	86.4	81.0	76.2	72.0	68.2	64.8	61.7	58.9	56.3	54.0	51.8	49.9	48.0	46.3	44.7	43.2	41.8	40.5	39.3	38.1	34.1
49	120.2	110.2	101.8	94.5	88.2	82.7	77.8	73.5	69.6	66.2	63.0	60.1	57.5	55.1	52.9	50.9	49.0	47.2	45.6	44.1	42.6	41.3	40.1	38.9	34.8
50	122.7	112.5	103.9	96.4	90.0	84.4	79.4	75.0	71.1	67.5	64.3	61.4	58.7	56.3	54.0	51.9	50.0	48.2	46.5	45.0	43.5	42.2	40.9	39.7	35.5
51	125.1	114.7	105.9	98.3	91.8	86.0	81.0	76.5	72.4	68.5	65.5	62.5	59.8	57.3	55.1	53.0	51.0	49.1	47.5	45.9	44.4	43.0	41.7	40.5	36.2
52	127.6	117.0	108.0	100.3	93.6	87.8	82.6	78.0	73.9	70.2	66.9	63.8	61.0	58.5	56.2	54.0	52.0	50.1	48.4	46.8	45.3	43.9	42.5	41.3	36.9
53	130.0	119.3	110.0	102.2	95.4	89.4	84.1	79.5	75.3	71.5	68.1	65.0	62.2	59.6	57.2	55.0	53.0	51.1	49.4	47.7	46.2	44.7	43.4	42.1	37.7
54	132.5	121.5	112.1	104.1	97.2	91.1	85.7	81.0	76.7	72.9	69.4	66.2	63.4	60.7	58.3	56.1	54.0	52.0	50.3	48.6	47.0	45.6	44.2	42.9	38.4
55	135.0	123.7	114.2	106.0	99.0	92.8	87.3	82.5	78.1	74.5	70.7	67.5	64.5	61.8	59.4	57.1	55.0	53.0	51.2	49.5	47.9	46.4	45.0	43.7	39.1
56	137.4	126.0	116.3	108.0	100.8	94.5	88.9	84.0	79.5	75.6	72.0	68.7	65.7	63.0	60.4	58.1	56.0	54.0	52.1	50.4	48.7	47.3	45.8	44.5	39.8
57	139.9	128.2	118.3	109.9	102.6	96.1	90.5	85.5	81.0	76.9	73.3	69.9	66.9	64.1	61.6	59.2	57.0	54.9	53.1	51.3	49.6	48.1	46.6	45.3	40.5
58	142.3	130.5	120.4	111.9	104.4	97.6	92.1	87.0	82.4	78.3	74.6	71.2	68.0	65.3	62.7	60.2	58.0	55.9	54.0	52.2	50.5	48.9	47.5	46.1	41.2
59	144.8	132.7	122.5	113.8	106.2	99.6	93.7	88.5	83.6	79.6	75.8	72.4	69.3	66.3	63.7	61.2	59.0	56.9	54.9	53.1	51.3	49.8	48.3	46.9	41.9
60	147.2	135.0	124.6	115.7	108.0	101.2	95.3	90.0	85.3	81.0	77.1	73.6	70.4	67.5	64.8	62.3	60.0	57.8	55.8	54.0	52.2	50.6	49.1	47.6	42.6
61	149.7	137.2	126.7	117.6	109.8	102.9	96.9	91.5	86.7	82.4	78.4	74.9	71.6	68.6	65.9	63.3	61.0	58.8	56.8	54.9	53.1	51.5	49.9	48.4	43.3
62	152.1	139.5	128.8	119.6	111.6	104.6	98.5	93.0	88.1	83.7	79.7	76.1	72.8	69.8	67.0	64.4	62.0	59.8	57.7	55.8	54.0	52.3	50.7	49.2	44.1
63	154.6	141.8	130.8	121.5	113.4	106.3	100.1	94.5	89.5	85.1	81.0	77.3	74.0	70.9	68.0	65.4	63.0	60.7	58.7	56.7	54.9	53.2	51.5	50.0	44.8
64	157.1	144.0	132.9	123.4	115.2	108.0	101.6	96.0	90.9	86.4	82.3	78.5	75.1	72.0	69.1	66.5	64.0	61.7	59.6	57.6	55.7	54.0	52.4	50.8	45.5
65	159.5	146.3	135.0	125.4	117.0	109.7	103.2	97.5	92.4	87.8	83.6	79.8	76.3	73.1	70.2	67.5	65.0	62.7	60.5	58.5	56.6	54.8	53.2	51.6	46.2
66	162.0	148.5	137.1	127.3	118.8	111.4	104.8	99.0	93.8	89.1	84.9	81.0	77.5	74.3	71.3	68.5	66.0	63.6	61.4	59.4	57.5	55.7	54.0	52.4	46.9
67	164.5	150.8	139.2	129.2	120.6	113.1	106.4	100.5	95.2	90.5	86.1	82.2	78.7	75.4	72.4	69.6	67.0	64.6	62.4	60.3	58.4	56.5	54.8	53.2	47.6
68	166.9	153.0	141.2	131.1	122.4	114.8	108.0	102.0	96.6	91.8	87.4	83.5	79.8	76.5	73.4	70.6	68.0	65.6	63.3	61.2	59.2	57.4	55.6	54.0	48.0

The gear ratio, when multiplied by 3.1416 ( $\pi$ ), is the distance in inches travelled by the driving wheel for one revolution of the pedals and is calculated as follows:—  
Wheel diameter in inches MULTIPLIED by the number of chainwheel teeth DIVIDED by the number of teeth on the rear sprocket.

**Ron**  
**KITCHING**

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Hookstone Park, Harrogate, England, HG2 7BZ.  
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