Edition
No. 59

SUNTOUR

SUNTOUR CATALOG

We make bicycle parts as though we're coming along for the ride.



The bike is a tool ... a means to an end. And as with all his tools, man is constantly experimenting to make it perform better. But the fact remains that the bike is a tool, the purpose of which is to extend the range and speed you can travel under your own power.

Experienced bicyclists know that weight and air resistance are their greatest enemies. Low weight has always been a characteristic of SUNTOUR components. And now, the lessons of contemporary aerodynamics are being incorporated with physics and human engineering into a new technology which SUNTOUR calls Microlite Aerodynamics.

This is not theoretical, laboratory aerodynamics. Concepts which are not founded on the actual way you use your bicycle are meaningless. Instead, Microlite Aerodynamics recognizes that you and your bike are an ergonomic system; and that the mechanical components which support this system must work in complete harmony with the realities of the human component's needs and behavior.

"Micro" means compact. "Lite" means low in weight. And "Aerodynamics," to SUNTOUR, means the practical application of aerodynamics to the way you use your bike. Microlite Aerodynamics: another step toward the functional perfection of bicycle components. Components, conceived to meet practical needs, not to produce abstract results. SUNTOUR knows that the ultimate test of practical components is how you, the rider, judge them. We've developed Microlite bicycle components. You judge their true worth.



MICRO LITE & AERO DYNA



ICS

MICRO LITE & AERO DYNAMICS

SUPERBE PRO



FRONT DERAILLEUR
Model: FD-2000
Specifications

Material: Light alloy (Body)
Steel (Chain guide) with heat treatment and chromium plating
Stainless steel (Clamp band)
Gear capacity: 14T
Mechanism: Parallelogram, Low normal, Endless clamp, Bare cable system
Clamp diameter: 1-1/8" (28.6 mm) for round tube
35 mm x 21 mm for aerodynamic tube
Weight: 2.9 ozs. (82 gms.)



FRONT DERAILLEUR
Model: FD-2050
Specifications

Material: Light alloy (Body)
Steel (Chain guide) with heat treatment and chromium plating
Gear capacity: 14T
Mechanism: Parallelogram, Low normal, Bare cable system
Mounting method: Braze on
Weight: 3.2 ozs. (92 gms.) with brazed-on adapter.

CYCLONE MARK-II



REAR DERAILLEUR
Model: RD-3500
Specifications
Material: Light alloy
(Body and cage)
Total gear capacity: 28T
Rear: Largest sprocket 26T
Front: 15T with 26T rear sprocket.
Mechanism: Slant parallelogram, Top normal, Easy cable setting, Straight wire mechanism
Stroke: 1-1/4" (31 mm)
Weight: 5.6 ozs. (160 gms.)



REAR DERAILLEUR
Model: RD-3700
Specifications
Material: Light alloy
(Body and cage)
Total gear capacity: 34T
Rear: Largest sprocket 34T or less
Front: 13T with 34T rear sprocket.
Mechanism: Slant parallelogram, Top normal, Easy cable setting, Straight wire mechanism, Quick cage
Stroke: 1-1/4" (31 mm)
Weight: 6.0 ozs. (170 gms.)



FRONT DERAILLEUR
Model: FD-2300
Specifications
Material: Light alloy
(Body)
Steel (Chain guide) with heat treatment and chromium plating
Stainless steel (Clamp band)
Gear capacity: 18T
Mechanism: Parallelogram, Low normal, Endless clamp, Bare cable system
Calmp diameter: 1-1/8" (28.6 mm) for round tube
35 mm x 21 mm for aerodynamic tube
Weight: 3.3 ozs. (94 gms.)



FRONT DERAILLEUR
Model: FD-2350
Specifications
Material: Light alloy
(Body)
Steel (Chain guide) with heat treatment and chromium plating
Gear capacity: 18T
Mechanism: Parallelogram, Low normal, Bare cable system
Mounting method: Braze on
Weight: 3.7 ozs. (104 gms.) with brazed-on adapter.



FRONT DERAILLEUR
Model: FD-2400
Specifications
Material: Forged light alloy (Body) with anodized finish, steel (Chain guide) with heat treatment and chromium plating.
Gear capacity: 18T or less
Mechanism: Parallelogram, low normal
Detachable cable casing stop
Clamp diameter: 1-1/8" (28.6")
Weight: 98 gms. with cable stop
95 gms. without cable stop

NEW PRODUCTS

TOP-MOUNT



TOP-MOUNT SHIFT LEVER
Model: LD-2300
Specifications
Material: Light alloy (Body and lever) with buffed or barrel finish
Stainless steel (Clamp band)
Mechanism: Self adjust, Synchro shift, Top mounting, Internal travel stop
Type: Double lever, Endless clamp
Mounting position: Down tube
Clamp diameter: 1-1/8" (28.6 mm) for round tube
35 mm x 21 mm for aero-dynamic tube
Weight: 2.4 ozs. (69 gms.)
Other: Different sets available for Top Normal or Low Normal front derailleurs.



TOP-MOUNT SHIFT LEVER
Model: LD-2350
Specifications
Material: Light alloy (Body and lever) with buffed or barrel finish.
Mechanism: Self adjust, Synchronized shifting, Top mounting, Internal travel stop
Type: Double lever
Mounting method: Braze on
Mounting position: Down tube
Weight: 2.3 ozs. (66 gms.) with brazed-on adapter. brazed-on.
Other: Different sets available for Top Normal or Low Normal front derailleurs.

ARX



REAR DERAILLEUR
Model NO: RD-4300
Specifications
Material: Light alloy with barrel finish (Body)
Steel with lusterless chromium plating (Cage)
Total gear capacity: 28T
Rear: Largest sprocket 26T
Front: 15T with 26T rear sprocket.
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal
Easy cable setting
Weight: 7.3 ozs. (206 gms.)
Other: Mounting bracket can be used.



REAR DERAILLEUR
Model NO: RD-4500
Specifications
Material: Light alloy with barrel finish (Body)
Steel with lusterless chromium plating (Cage)
Total gear capacity: 34T
Rear: Largest sprocket 34T
Front: 14T with 34T rear sprocket.
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal
Easy cable setting
Weight: 9.9 ozs. (280 gms.)
Other: Mounting bracket can be used.

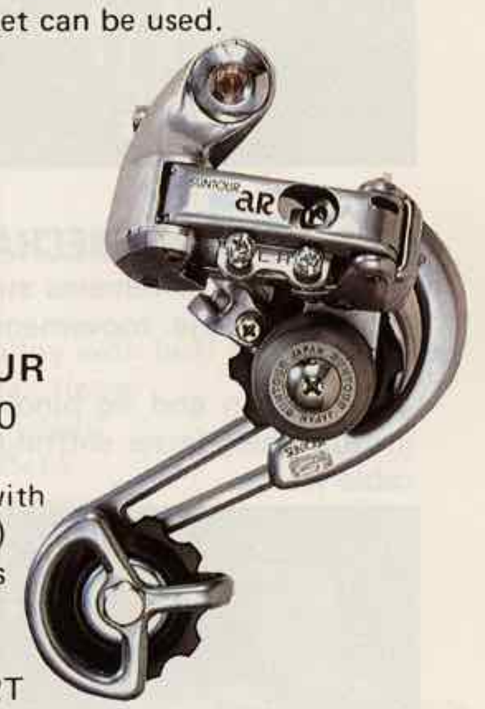


FRONT DERAILLEUR
Model NO: FD-2600
Specifications
Material: Light alloy with Alumite finish, Barrel finish
(Body, Shifter)
Gear capacity: 18T
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.3ozs. (93 gms.)

AR



REAR DERAILLEUR
Model NO: RD-4200
Specifications
Material: Light alloy with barrel finish (Body)
Steel with lusterless chromium plating (Shifter, Cage)
Total gear capacity: 28T
Rear: Largest sprocket 26T
Front: 16T with 26T rear sprocket.
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal
Easy cable setting
Weight: 9.9 ozs. (280 gms.)
Other: Mounting bracket can be used.



REAR DERAILLEUR
Model NO: RD-4400
Specifications
Material: Light alloy with barrel finish (Body)
Steel with lusterless chromium plating (Shifter, Cage)
Total gear capacity: 32T
Rear: Largest sprocket 34T
Front: 12T with 34T rear sprocket.
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal, Quick cage
Easy cable setting.
Weight: 10.7 ozs. (303 gms.)
Other: Mounting bracket can be used.

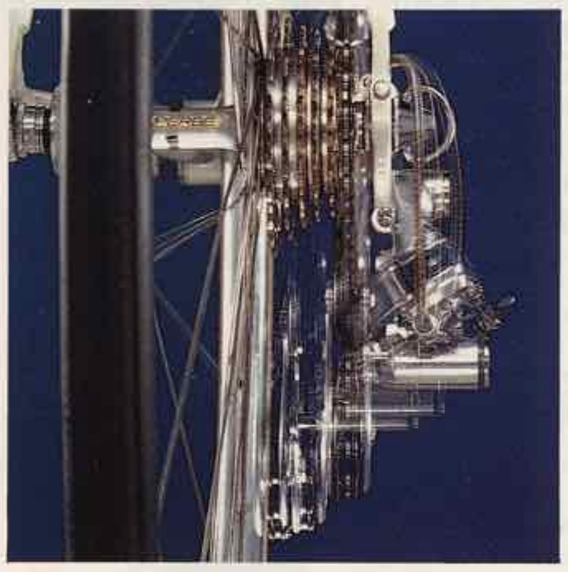


FRONT DERAILLEUR
Model NO: FD-2500
Specifications
Material: Light alloy with barrel finish (Body)
Steel with lusterless chromium plating (Shifter, Cage)
Gear capacity: 18T
Mechanism: Parallelogram, Low normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.9 ozs. (112 gms.)

Special Features

SLANT PARALLELOGRAM MECHANISM

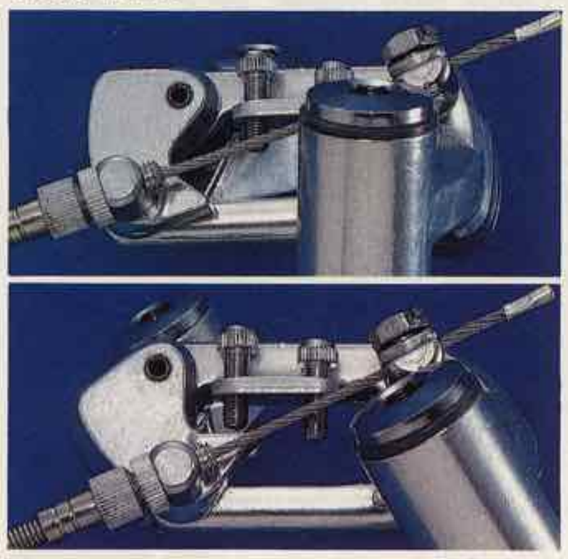
The unique patented slant parallelogram mechanism enables the pulleys to shift diagonally at the same angle as the sprocket during gear change. Uniform clearance is retained between the pulleys and the sprockets, assuring more stable driving and easier shifting. SUNTOUR derailleurs are matched in speed and smoothness.



NON-BENDING MECHANISM

The inner cable remains straight regardless of the movement of the shifter body.

Less friction and no binding result in smoother, faster shifting and less cable wear.



ADJUSTABLE SPRING TENSION

The tension of the spring which takes up chain slack can be easily adjusted by removing the derailleur cage and repositioning its spring tension axle in relation to the spring tab. SUNTOUR derailleur springs are designed to provide the most stable tension and strength for the amount of space used.



STAINLESS STEEL PIVOT PINS

Stainless Steel is used for the derailleur pivot pins because it is non-corroding and non-distorting and can be polished to a low friction surface finish. SUNTOUR precision-polishes the stainless steel pivot pins to 1/100 mm tolerance to eliminate any play in the parallelogram system.



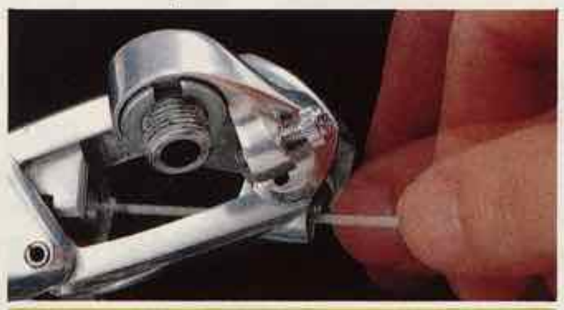
DERAILLEUR PULLEY

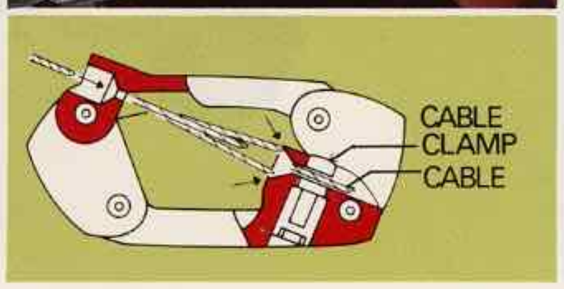
The pulley is that part of the derailleur which works the hardest. It must tension the chain; keep it aligned with the rear sprocket; shift it to another sprocket; and keep spinning with minimal friction loss while working in oil and grit. SUNTOUR pulleys are made of delrin resin, a smooth, light, tough material which is self-lubricating and resists abrasion. They ride on special self-lubricated metal bushings which are covered with dust seals. The system requires no oil or grease to function efficiently.



EASY CABLE THREADING

Conventional rear derailleurs require you to first thread the cable through the cable stop, then thread it through the clamping mechanism. The MicroLite design reshapes the cable clamp so that the same motion which pushes the cable through the stop correctly threads it into the cable clamp.





MICROLITE & AERODYNAMICS SHAPE

Every sub-component has been rethought and reshaped to provide the most compact, most light and most smooth form possible. The component becomes a truly integrated unit. Additional advantages are greater safety due to fewer protrusions and sharp edges; and a more attractive appearance.

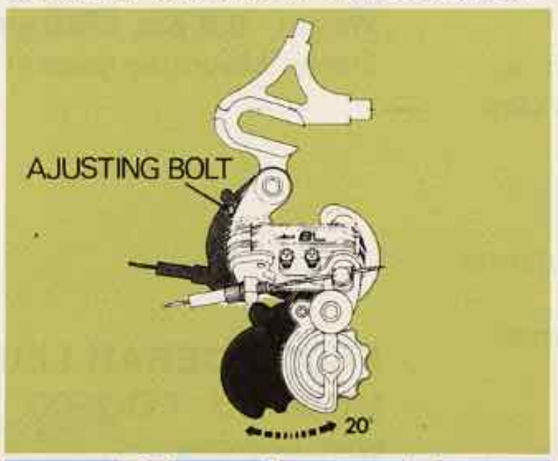






ANGLE ADJUSTING BOLT

The angle adjusting bolt ensures the perfect installation of the derailleur onto any type of rear frame dropout, regardless of the angle of the dropout. Adjustable by 20 degrees.





QUICK CAGE

This feature permits removing the chain from the derailleur cage without taking apart the chain or the cage. When removing the rear wheel from the bicycle (for repairing the tire, tube or rear hub), simply shift the derailleur to top position (smallest sprocket), then remove the chain from the derailleur cage. The rear wheel then can be taken off easily without interference from the chain.



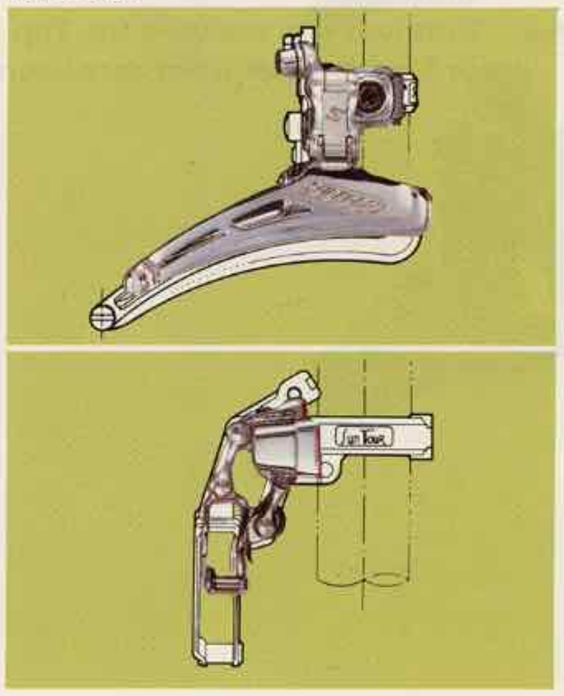
SWINGCAGE

This variation on SUNTOUR'S patented quick cage permits removing and installing the chain without disassembling either the chain or the derailleur cage. The unique pivoting cage plate disengages with the turn of a screw, yet provides the stiffness required of wide-range derailleurs for precise pulley alignment under extreme stress.



COMPACT DERAILLEUR CAGE

The MicroLite Aerodynamics concept is embodied in the derailleur cage, which is much smaller than conventional cages, yet has a 14T gear capacity. The cage is heat treated to withstand frequent, rough shifting.



DOUBLE ARM STAINLESS PIVOT

The double pivot arms on the derailleur cage add strength and rigidity; and the stainless steel pivot pins, machined to 1/100 mm tolerance, eliminate and friction loss in shifting.



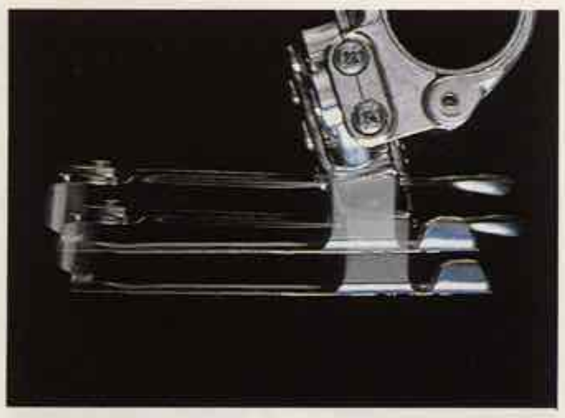
ENDLESS CLAMP MOUNTING

The "endless clamp" is a stainless steel band which is tightened evenly around the tube by a 6 mm allen bolt recessed into the derailleur body. The even clamping tension eliminates the risk of deforming thin tubing. The thin band and recessed bolt reduce frontal area to a minimum and give a clean look to the derailleur.



SLANT PARALLELOGRAM FRONT MECHANISM

The front derailleur cage moves diagonally as it moves the chain between front sprockets, which results in smoother shifting.

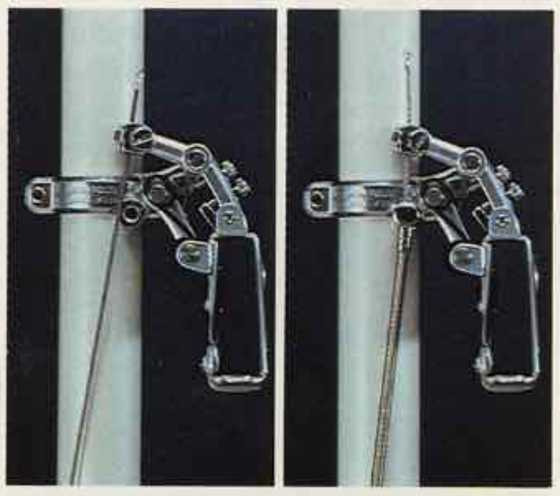


HEAT-TREATED CAGE

Heat-treating the cage makes it substantially stronger and smoother, resulting in less friction on the chain, faster shifting, and greater reliability. SUNTOUR tests show negligible wear after 10,000 consecutive shifts on our specially designed test equipment.

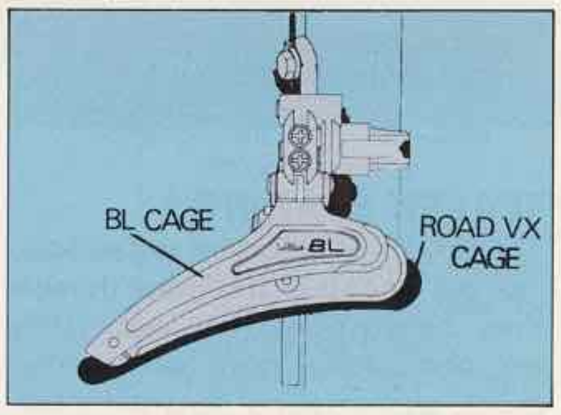
TWO-WAY CABLE SETTING

Both cable with outer housing and bare cable can be used by attaching or detaching the cable housing stopper.



SMALL CAGE/WIDE RANGE

The BL front derailleur's cage design allows a more compact cage which still can easily handle wide-range gearing.



SLIDING INSIDE CAGE PLATE

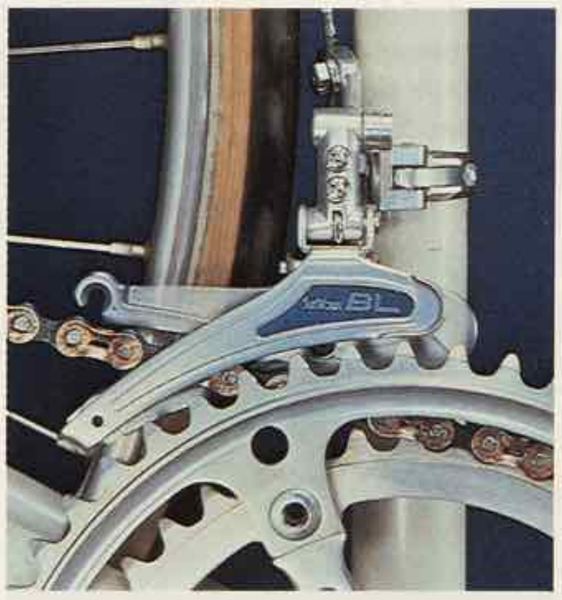
If the tooth differential between the inner and outer chainring is large, the chain tends to overshoot the inner chainring on the downshift. This can be partly corrected by using wider chainring spacing; but that increases the risk of the chain jamming between the chainrings. The AG front derailleur has a special mechanism which adjusts the width of the derailleur cage as it is shifted from the large to the small chainring, eliminating this problem. The cage, which is heat-treated to reduce friction and thereby increase shifting speed and smoothness, also features the Draw Bridge design for easy chain removal and installation.



DRAWBRIDGE SYSTEM

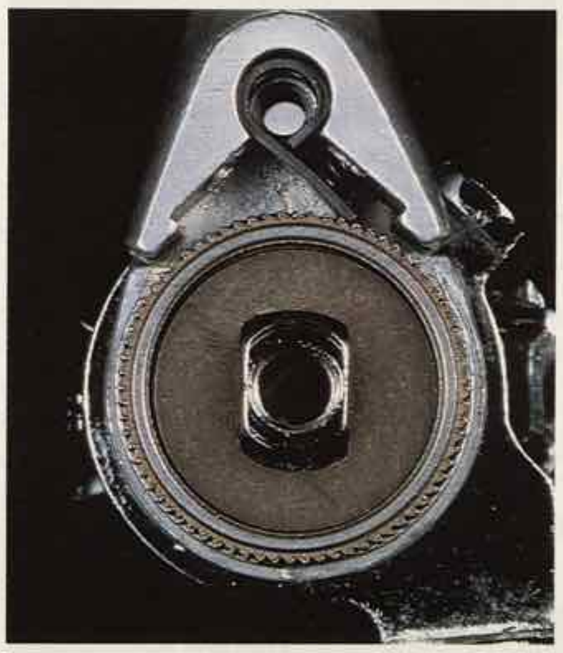
This unique idea on the front derailleur cage enables you to remove the chain from the derailleur by unscrewing one allen bolt.

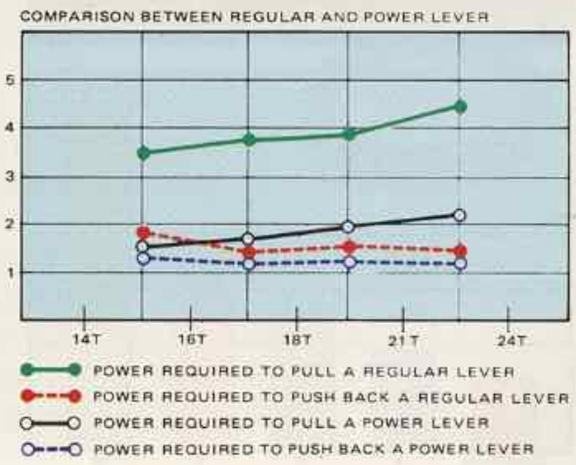
By eliminating the use of a chain roller, a small cage with large capacity is possible.



POWER SHIFTER

This unique design eliminates the lever resistance found in ordinary shift levers. Every other lever requires positive friction so that it can stay in the selected position, but the Power Shift has no frictional resistance. The small notches built into the lever provide a ratchet action. The finely calibrated ratchet helps to position the lever more precisely on shifts to a lower gear and resists the pull of the derailleur spring. The derailleur spring helps move the lever when shifting to a higher gear. This results in well-balanced operation for both upshifts and downshifts.





ENDLESS CLAMP MOUNTING

The levers are attached to the downtube with a stainless steel "endless band" which is tightened with a single 6 mm allen bolt recessed into the body between the two levers. The entire unit is lighter, more compact, and uses the shape of the downtube to help reduce aerodynamic drag.



INTERNAL TRAVEL STOPS

The tab which limits lever travel on conventional shift levers has been redesigned to work internally, thereby eliminating yet another protrusion. Lever movement is a full 140 degrees, which provides reliable operation for five, six or seven speed freewheels.



ONE-HAND LEVER ACTION

Human Engineering plays an important part in SunTour design. The MicroLite Shift levers were designed so that two-step shifting (changing both the front and rear derailleur to select the appropriate gear ratio) can be done simultaneously and with one hand. The result is quicker gear changes with greater safety, as the rider's other hand need never leave the handlebars.



SYNCHRO-SHIFT MECHANISM

When the chain is shifted from the smallest to the largest sprochet at the rear, it tends to angle in such a way that it hits the inside of the front derailleur cage. With conventional levers, the front lever must be adjusted to center the cage over the chain. The Synchro-Shift mechanism makes that adjustment automatically and perfectly as the lever controlling the rear derailleur is moved.



When the rear derailleur is shifted in a conventional system, efficient gear changing requires a slight "overshift," followed by an immediate compensating return movement of the lever. SunTour's Synchro-Shift makes that adjustment automatically, eliminating the need for skilled derailleur handling techniques.



ONE-KEY MAINTENANCE

All assembly, disassembly and adjustment on the MicroLite shift levers can be done with a single 5 mm allen key.



INTEGRAL WIRE GUIDE

The MicroLite levers incorporate a tunnel wire guide as part of the lever itself, eliminating the traditional separate tab which keeps a slack cable in the take-up groove.



CLICK LEVER

The SUNTOUR click lever has a shifting position device built into the control lever. Gears are defined by a clicking sound, and pre-selection is possible. A position indicator shows which gear the lever is in, making the system easy for inexperienced riders to use. There is a cable tensioning system in the rear derailleur of the click system which automatically compensates for cable streching. Serrated cable adjusting bolts provide easy adjustment.

FREE STOPPER QUICK RELEASE

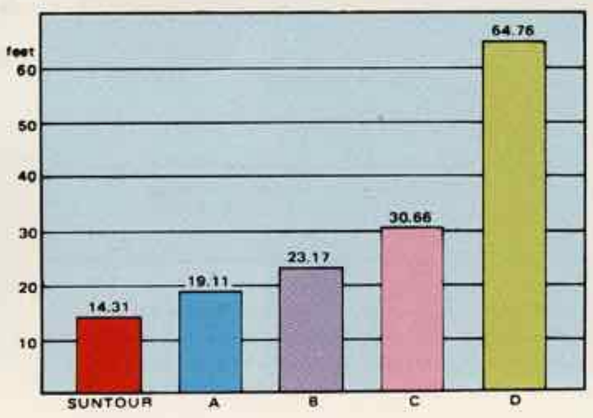
Using the quick release of the caliper brake, the brake arms can be positioned at any distance from the wheel rim, which provides minute adjustment of brakes. Stainless steel is used in major parts, which eliminates any problems of rusting.



BRAKE SHOE

The Superbe brake shoes are specially designed to produce not only maximum wet and dry stopping power, but also to provide precise speed control in high-speed riding. Highly rated by Bicycling Magazine as well as other testers.





INTERCHANGEABLE PEDAL CAGES

The pedal cages are attached to the bodies by allen head bolts. The cage can be replaced quickly whenever necessary, by just unscrewing the allen head bolts with a 2.5 mm allen key and mounting the new cages. The same body can be used for track type of road type pedals.



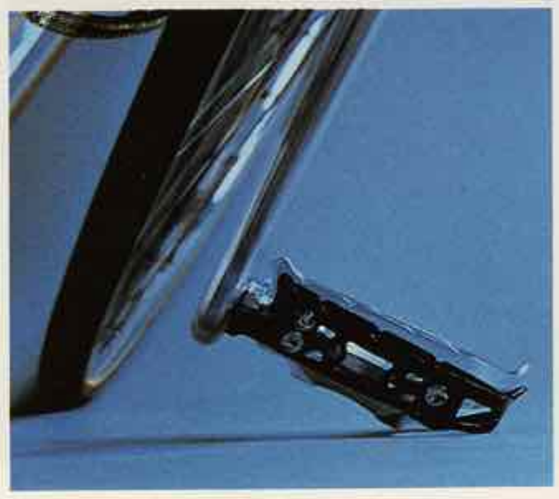
SEALED BEARING

The tiny, high precision sealed bearings are smoother and more durable than conventional bearings. They are completely dust- and waterproof, guaranteeing consistent performance.



GROUND CLEARANCE

By cutting off the front outside of the pedal cage, the ground clearance angle has been increased from 26 degrees to 31 degrees, which enables cornering at higher speed.

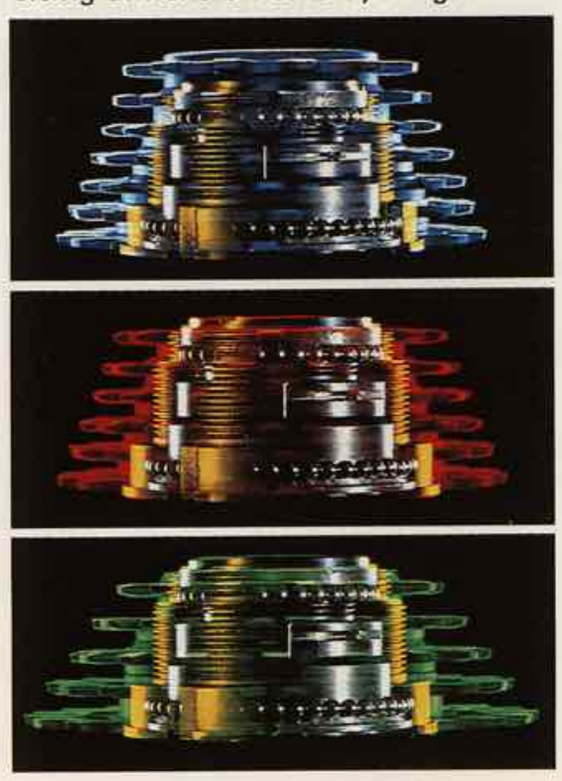


NEW WINNER MULTIPLE FREEWHEELS

SUNTOUR New Winner is a revolutionary multiple freewheel which lets you build a 5, 6 or 7 speed gear combination on the same freewheel body.

This 5, 6 or 7 speed gear combination capability is possible because of the new body's simple yet precise patented design, the first in the world to have achieved this feature. Another unique feature is the Double Adjusting Nut construction, also found only on SUNTOUR'S New Winner Freewheel, giving precise, easy adjustment for smooth and accurate freewheel performance, just like hubs and pedals.

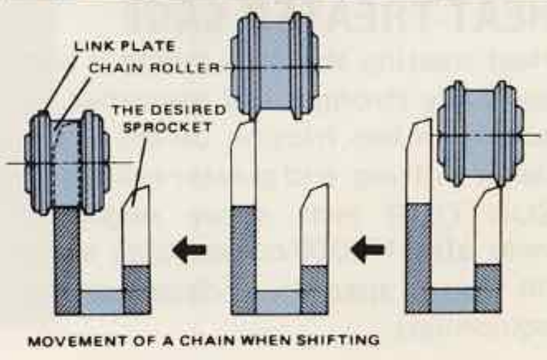
This design allows quick and easy adjustment by a simple tightening or loosening of the unique nut construction. These features make the New Winner not only the first in the world with this advanced technology, but also the ultimate freewheel in precision, smoothness and simplicity! The New Winner Freewheel adds another exciting dimension to bicycling.



SLANT CUT TEETH

The tips of the sprockets' teeth are beveled, which helps accurate shifting.





MOVEMENT OF A CHAIN WHEN SHIFTING

THE ULTRA-6 CHAIN

This 1/2" x 3/32" lightweight chain for use with the NEW WINNER ULTRA SIZE FREEWHEEL has the following exclusive features: Thinner link plates and shorter chain pins reduce the weight of the chain, and the narrower width allows it to meet the clearance specifications between the sprockets of the New Winner Freewheel. Other dimensions are the same as standard chains, so the Ultra-6 can be used with all freewheels.

The chamfered inner surface of the link plates helps the chain slide more efficiently and quickly on and off the sprocket teeth, resulting in fast, accurate shifting with no slippage between gears.

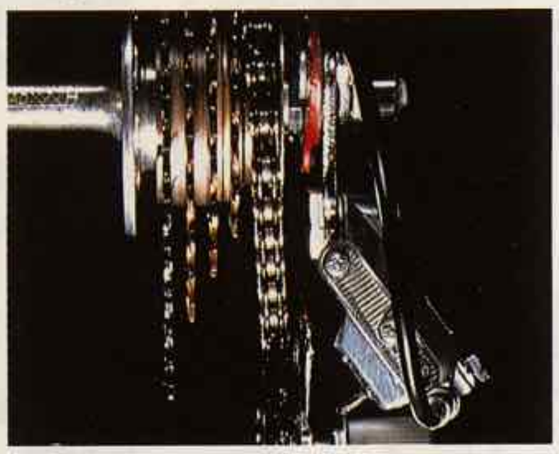
A special hardened finish provides smoother changing.

This lightweight, thinner Ultra-6 chain will provide more durability than the regular chains in use today.



FREEWHEEL END PLATE

The Suntour Perfect Freewheel features an integral end plate which prevents the chain from overshooting high gear and jamming between the freewheel and the frame dropout. The risk of damage in the event of a misadjusted derailleur is minimized.



"ZIGZAG" TOOTH FREEWHEEL

For more efficient gear changing needed for a wide ratio freewheel, the teeth are tipped rather sharply and literally "zigzaged" like saw blades, to precisely fit each link plate of the chain as it is alternately connected externally and internally. These patented cogs enable you to change even from top to low and low to top quickly and smoothly.



DUAL QUICK RELEASE

Conventional quick release wheels tend to drop out of the frame if the quick release lever is opened. Suntour's Dual Quick Release has a double lock safety mechanism which keeps the wheel locked in place even if the lever is accidentally opened. Handling is as fast and simple as conventional quick releases:

1) As with conventional quick releases, the lever operates a cam on the skewer, tightening the hub onto the frame dropouts. When the lever is closed all the way, there is a "click" which signifies that the hub is locked into place.

2) Even if the lever is opened 140 degrees, the wheel will remain locked in place.

3) When the lever is opened more than 140 degrees, the lock mechanism releases with a "click" sound.



PRECISION BEARING SURFACE

The performance and durability of a free-wheel and other components depend on manufacturing care. Suntour takes an extra step by precision-grinding all bearing surfaces both before and after heat-treating, to insure a hard, absolutely true surface.





GEAR CAPACITY TABLE

FIT / FORK ENDS	GEAR CAPACITY: FORK ENDS AND BRACKETS — FORK ENDS SPB (27.5 m/m) BRACKET NORMAL (26 m/m)		FORK ENDS GT, GS. (29 m/m)		BRACKETS GT (33 m/m) FORK ENDS GTW.(33m/m) SD.(32 m/m)		BRACKETS
SUPERBE PRO	C:20T F:10T R:10T	L:23T	C:24T F:11T R:13T	L:26T	C:27T F:13T R:14T	L:28T	———
SUPERBE	C:20T F:10T R:10T	L:23T	C:24T F:11T R:13T	L:26T	C:27T F:13T R:14T	L:28T	———
CYCLONE	C:24T F:14T R:10T	L:24T	C:24T F:14T R:10T	L:24T	C:26T F:12T R:14T	L:28T	———
CYCLONE GT	C:36T F:18T R:18T	L:32T	C:36T F:18T R:18T	L:32T	C:36T F:16T R:20T	L:34T	———
CYCLONE M-II	C:28T F:15T R:13T	L:26T	C:28T R:13T F:15T	L:26T	C:28T F:11T R:17T	L:30T	———
CYCLONE M-II GT	C:34T F:13T R:21T	L:34T	C:34T F:13T R:21T	L:34T	C:34T F:13T R:21T	L:34T	———
BL	C:25T F:15T R:10T	L:24T	C:26T F:16T R:10T	L:24T	C:27T F:13T R:14T	L:28T	———
BL-S	C:30T F:18T R:12T	L:26T	C:30T F:16T R:14T	L:28T	C:30T F:14T R:16T	L:30T	———
BL-GT	C:36T F:16T R:20T	L:34T	C:34T F:14T R:20	L:34T	C:36T F:16T R:20T	L:34T	———
ARX	C:28T F:15T R:13T	L:26T	C:28T R:13T F:15T	L:26T	C:28T F:11T R:17T	L:30T	———
ARX-GT	C:32T F:12T R:20T	L:34T	C:32T R:12T F:20T	L:34T	C:32T F:12T R:20T	L:34T	———
Vx	C:24T F:12T R:12T	L:26T	C:24T F:10T R:14T	L:28T	C:24T F: 8T R:16T	L:30T	———
Vx-S	C:28T F:16T R:12T	L:26T	C:30T F:16T R:14T	L:28T	C:32T F:16T R:16T	L:30T	———
Vx-GT	C:34T F:14T R:20T	L:34T	C:36T F:16T R:20T	L:34T	C:36T F:16T R:20T	L:34T	———
VGT	C:34T F:18T R:16T	L:30T	C:34T F:14T R:20T	L:34T	C:38T F:18T R:20T	L:34T	———
AR	C:28T F:16T R:12T	L:26T	C:28T F:14T R:14T	L:28T	C:28T F:12T R:16T	L:30T	———
AR-GT	C:32T F:12T R:20T	L:34T	C:32T F:12T R:20T	L:34T	C:32T F:12T R:20T	L:34T	———
AG	C:37T F:17T R:20T	L:34T	C:38T F:18T R:20T	L:34T	C:40T F:16T R:24T	L:38T	———
SEVEN	C:26T F:14T R:12T	L:26T	C:28T F:16T R:12T	L:26T	C:28T F:12T R:16T	L:30T	———
SEVEN GT	C:32T F:12T R:20T	L:34T	C:32T F:12T F:20T	L:34T	C:32T F:12T R:20T	L:34T	———
VOLANTE	C:25T F:13T R:12T	L:26T	C:27T F:13T R:14T	L:28T	C:29T F:13T R:16T	L:30T	———
HONOR	———				Non step. 34.5 m/m	C:28T F:12T R:16T L:30T	With step. 34 m/m C:30T F:14T R:16T L:30T
GT	———				Non step. 34.5 m/m	C:36T F:16T R:20T L:34T	With step. 34 m/m C:36T F:16T R:20T L:34T
MIGHTY CLICK	———				26 mm	C:16T R:16T L:30T	———
MIGHTY CLICK GT	———				26 mm	C:34T F:14T R:20T L:34T	———
IC	———				26 mm	C:16T R:16T L:30T	———

L: Maximum Low Sprocket Teeth C: Total Gear Capacity F: Front Gear Difference with Largest Rear Sprocket
R: Rear Gear Difference



SUPERBE PRO

ROAD GROUP



REAR DERAILLEUR
Model: RD-3100

Specifications
Material: Forged light alloy (Body, bolt) with anodized finish. Resin (Pulley, Bushing)
Total gear capacity: 20T
Rear: Largest sprocket 23T
Front: 10T with 23T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal
Weight: 6.0 ozs. (169 gms.)



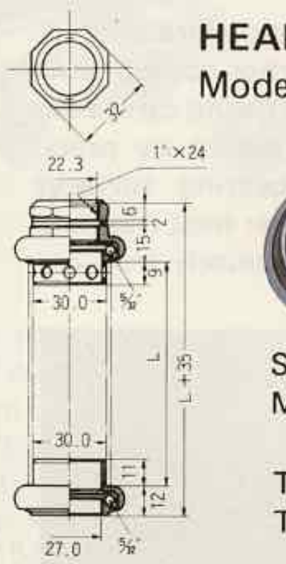
FRONT DERAILLEUR Model: FD-2000

Specifications
Material: Light alloy (Body)
Steel (Chain guide) with heat treatment and chromium plating
Stainless steel (Clamp band)
Gear capacity: 14T
Mechanism: Parallelogram, Low normal, Endless clamp,
Clamp diameter: 1-1/8" (28.6 mm) for round tube
35 mm x 21 mm for aerodynamic tube
Weight: 2.9 ozs. (82 gms.)



FRONT DERAILLEUR
Model: FD-2050

Specifications
Material: Light alloy (Body) Steel (Chain guide) with heat treatment and chromium plating
Gear capacity: 14T
Mechanism: Parallelogram, Low normal
Mounting method: Braze on
Weight: 3.2 ozs. (92 gms.) with brazed-on adapter.



HEAD SET
Model: HS-150

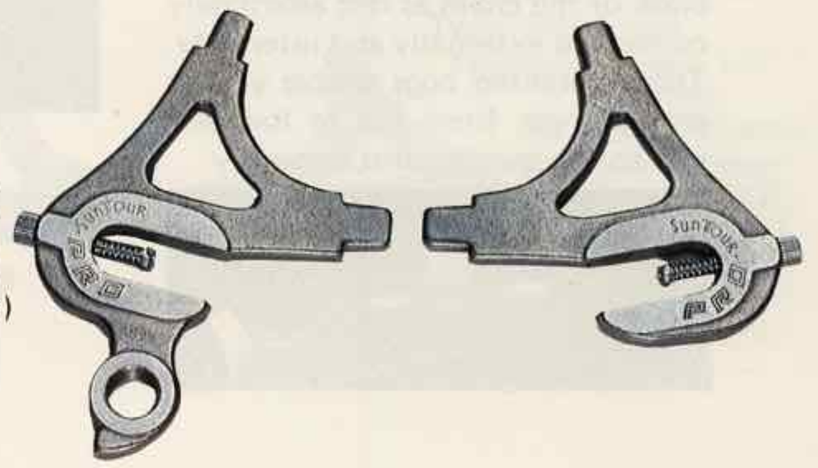


Specifications
Material: Forged light alloy with anodized finish, Ground Cr-Mo ball race for precision
Type: Road & Track type
Thread: 1" x 24T (English)
25 x 1.0 (French)
Steel ball diameter: 5/32"
Weight: 3.3 ozs. (94 gms.)



FORK ENDS
Model: EF-160

Specifications
Material: Forged steel
Type: Road type
Thickness: Front 1/4" (6 mm)
Rear 9/32" (7 mm)
Hub axle diameter:
Front 11/32" (9 mm)
Rear 13/32" (10 mm)
Weight: 185 gms. including adjusting screw and bolt.



TRACK GROUP



CALIPER BRAKES

Model: CB-3000 (CB-3100+CB-3200)
CB-3100

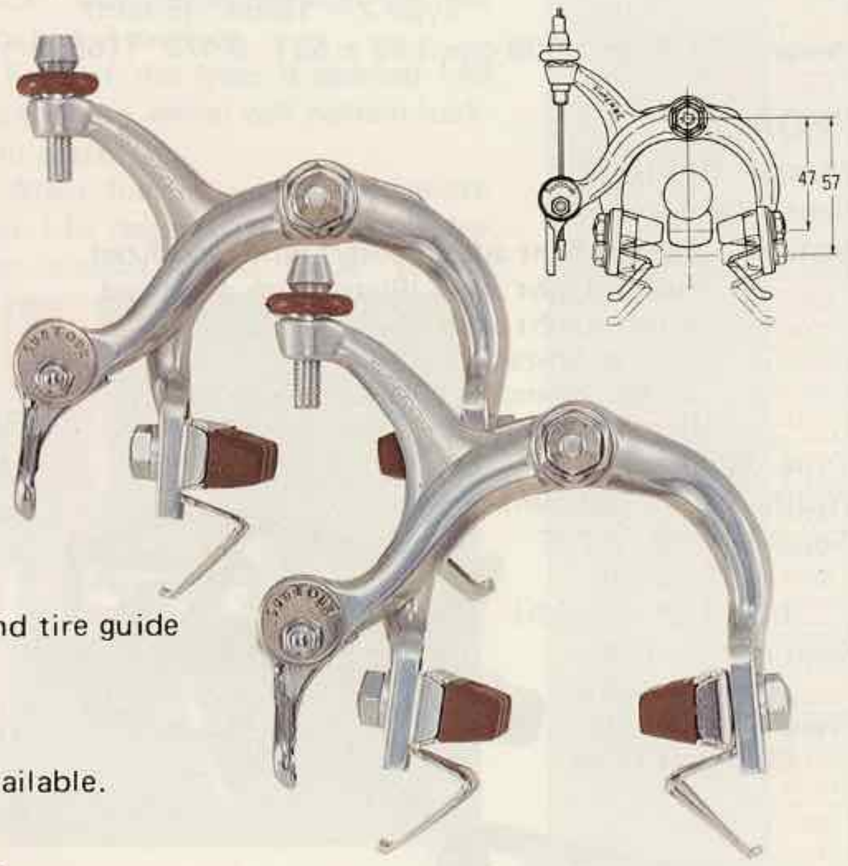
Specifications
Material: Forged light alloy
Type: Side pull with free stopper quick release and tire guide
Size: Small
Shoe stroke: 1/64" (10 mm) (40—50 mm)
Weight: 11.6 ozs. (330 gms.) Pair
Other: Lock nut with allen key hole (5 mm) is available.



BRAKE LEVER

Model: CB-3200

Specifications
Material: Light alloy die-cast (Bracket)
Light alloy (Lever) with anodized finish.
Type: Hooded lever with rubber cover
Clamp diameter: 15/16" (23.8 mm) (24.0 mm)
Weight: 7.7 ozs. (219 gms.) Pair with cable and cable clips



CALIPER BRAKES

Model: CB-4000 (CB-4100+CB-3200)
CB-4100

Specifications
Material: Forged light alloy
Type: Side pull with free stopper quick release and tire guide
Size: Normal
Shoe stroke: 1/64" (10 mm) (47 — 57 mm)
Weight: 12.2 ozs. (346 gms.) Pair
Other: Lock nut with allen key hole (5 mm) is available.



PEDALS

Model: PL-2000

Specifications
Material: Forged light alloy (Body) with anodized finish.
Light alloy (Plate) with anodized finish.
Cr-Mo (Spindle) with allen key hole (6 mm).
Sealed bearing.
Type: Track type/Detachable plate
Width: 2-3/8" (60 mm)
Thread: 9/16" x 20T (English)
14 x 1.25 (French)
Weight: 9.8 ozs. (278 gms.) Pair
Other: Interchangeable with Quill type plate





PEDALS

Model: PL-4000

Specifications
Material: Forged light alloy (Body) with anodized finish. Light alloy (Plate) with anodized finish.
Cr-Mo (Spindle) with allen key hole (6 mm). Sealed bearing
Type: Road type/Detachable plate
Width: 2-3/8" (60 mm)
Thread: 9/16" x 20T (English), 14 x 1.25 (French)
Weight: 10.6 ozs. (300 gms.) Pair
Other: Interchangeable with Track type plate



HUBS Model: RH-3100

Specifications
CUSTOM MADE
Material: Forged light alloy with buff finish
Ground ball race for precision
Type: Solid Large flange
Thread: 1.37" x 24T (English) 34.8 x 1.0 (French)
Lock nut to lock nut dimension: Front 3-15/16" (100 mm), Rear 4-3/4" (120 mm)
Spoke drilling: 24H, 28H, 32H, 36H
Steel ball diameter: Front 3/16", Rear 1/4"
Weight: 20 ozs. (572 gms.) Pair
Fork end clearance: Front 11/32" (9 mm), Rear 13/32" (10 mm)



RACING SPROCKET

Model: HC-100

Specifications

Sprocket	Weight
12T	0.9 ozs. (26 gms.)
13T	1.1 ozs. (32 gms.)
14T	1.4 ozs. (41 gms.)
15T	1.7 ozs. (49 gms.)
16T	2.0 ozs. (57 gms.)
17T	2.4 ozs. (68 gms.)

Use: Track hub only
Material: Cr-Mo steel
Chain: 1/2" x 1/8", 1/2" x 3/32" (Special)
Thread: 1.37" x 24T (English)
Surface finish: Ground

SUPERBE

ROAD GROUP



REAR DERAILLEUR
Model: RD-2100
Specifications
Material: Forged light alloy (Body) with anodized finish. Resin (Pulley, Bushing).
Total gear capacity: 20T
Rear: Largest sprocket 23T
Front: 10T with 23T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal
Weight: 6.8 ozs. (194 gms.)



FRONT DERAILLEUR
Model: FD-1500
Specifications
Material: Forged light alloy (Body) with anodized finish, Steel (Chain guide) with chromium plating. Outer cable casing is detachable.
Gear capacity: 18T or less
Mechanism: Parallelogram, Low normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.5 ozs. (100 gms.) with cable stop
3.4 ozs. (97 gms.) without stop



SHIFT LEVER
Model: LD-2000
Specifications
Material: Forged light alloy (Lever) with anodized finish. Stainless steel (Clamp & bolt) Electrically polished finish.
Type: Universal type Double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 2.8 ozs. (78 gms.) with lever cap

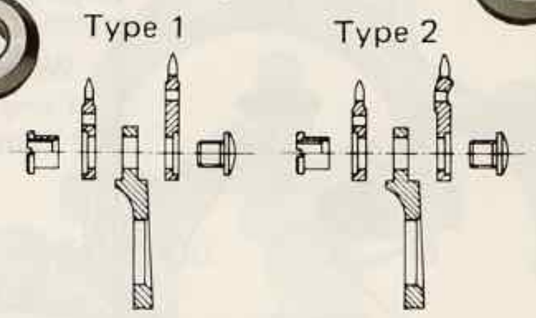


SHIFT LEVER
Model: LD-2050
Specifications
Material: Forged light alloy (Lever) with anodized finish.
Stainless steel (Braze-on hardware), Electrically polished finish
Type: Universal type/Double lever
Mounting method: Braze on
Mounting position: Down tube
Weight: 2.3 ozs. (64 gms.) with lever cap
Other: Tube diameter 1-1/8" (28.6 mm)



CHAINWHEEL
Model: CW-1000
Specifications
Material: Forged light alloy with anodized finish. Steel (Dust cap) with chromium plating
Type: Cotterless/Road type
Chain: 1/2" x 3/32"
Available sprockets:
For inner 42, 43, 44, 45, 46, 47T
For outer 47, 48, 49, 50, 51, 52, 53, 54T
Crank arm length: 6-1/2" (165 mm) 6-19/32" (167.5 mm) 6-11/16" (170 mm) 6-51/64" (172.5 mm) 6-57/64" (175 mm)
Thread: 9/16" x 20T (English) 14 x 1.25 (French)
Thickness of chainwheel: Type 1 – 5/32" (4 mm) Type 2 – 13/64" (5 mm)
Weight: 21.5 ozs. (609 gms.) 42 x 52T, 6-1/2" (165 mm)

Teething Profile



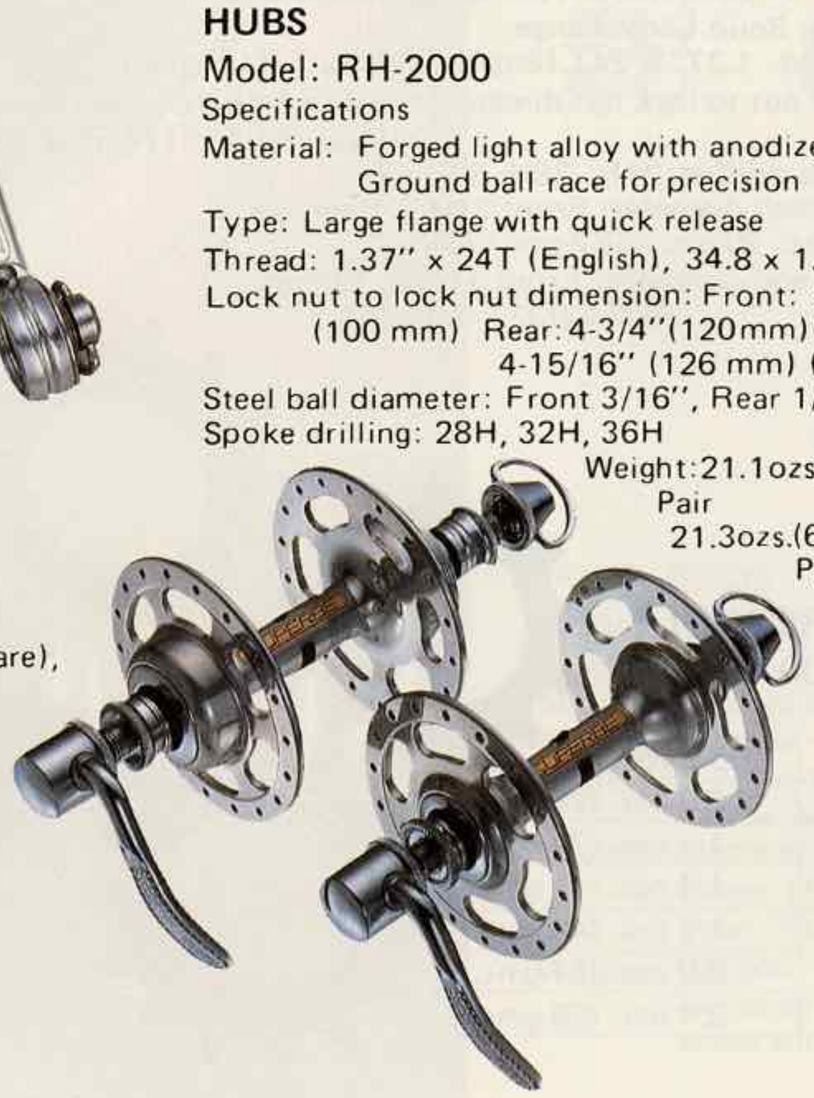


PEDALS
Model: PL-1000
Specifications
Material: Forged light alloy (Body) with anodized finish. Light alloy (Plate) with anodized finish. Light alloy die-cast (Dust cap) with anodized finish.
Cr-Mo (Spindle) with allen key head (6 mm) Ground ball race for precision.
Type: Quill type
Width: 2-3/8" (60 mm)
Thread: 9/16" x 20T (English) 14 x 1.25 (French)
Steel ball diameter: 5/32"
Weight: 12.5 ozs. (353 gms.) Pair



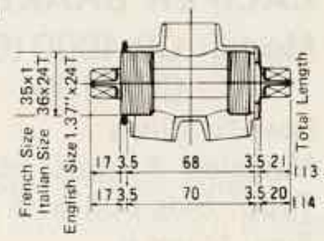


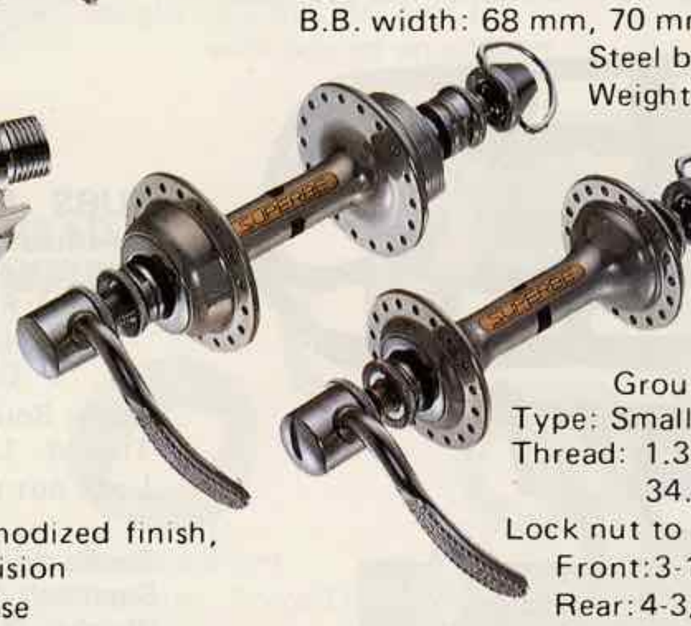
HUBS
Model: RH-2000
Specifications
Material: Forged light alloy with anodized finish, Ground ball race for precision
Type: Large flange with quick release
Thread: 1.37" x 24T (English), 34.8 x 1.0 (French)
Lock nut to lock nut dimension: Front: 3-15/16" (100 mm) Rear: 4-3/4" (120mm) (5,6-speed) 4-15/16" (126 mm) (6, 7-speed)
Steel ball diameter: Front 3/16", Rear 1/4"
Spoke drilling: 28H, 32H, 36H
Weight: 21.1ozs.(599gms.) Pair
21.3ozs.(604gms.) Pair with lever cap





BOTTOM BRACKET SET
Model: BB-100
Specifications
Material: Nicket chrome steel (Spindle)
Cr-Mo (Bolt)
Chrome (Steel ball)
Ground ball race for precision
Thread of cups: 1.37" x 24T (English), 35 x 1.0 (French), 36 x 24T (Italian)
B.B. width: 68 mm, 70 mm
Steel ball diameter: 1/4"
Weight: 10.6 ozs. (301 gms.)





HUBS
Model: RH-1000
Specifications
Material: Forged light alloy with anodized finish.
Ground ball race for precision
Type: Small flange with quick release
Thread: 1.37" x 24T (English) 34.8 x 1.0 (French)
Lock nut to lock nut dimension: Front: 3-15/16" (100 mm) Rear: 4-3/4" (120 mm) (5, 6-speed) 4-15/16" (126mm) (6,7-speed)
Steel ball diameter: Front 3/16", Rear 1/4"
Spoke drilling: 28H, 32H, 36H
Weight: 19.3 ozs.(548 gms.) Pair(100 mm–120 mm) 19.5 ozs.(553 gms.) Pair(100 mm–126 mm)



FORK ENDS
Model: EF-150
Specifications
Material: Forged steel
Type: Road type
Thickness: Front 1/4" (6 mm) Rear 9/32" (7 mm)
Hub axle diameter: Front 11/32" (9 mm) Rear 13/32" (10 mm)
Weight: 7.9 ozs. (223 gms.)

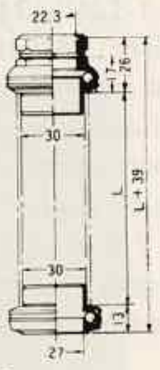
TRACK GROUP



STEM
Model: RS-1000
Specifications
Material: Forged light alloy
Extension: 3-11/32" (85 mm)
3-15/16" (100 mm)
4-11/32" (110 mm)
4-3/4" (120 mm)
Diameter: 1" (25.4 mm)
Weight: 9.3ozs.(265gms.) 85mm,
9.9ozs.(282gms.) 100mm
Other: Groove on clamp head



HEAD SET
Model: HS-100
Specifications
Material: Steel (Body) with chromium plating
light alloy (Acorn nut) with anodized finish.
Chrome steel (Ball)
Ground ball race for precision
Type: Road type
Thread: 1" x 24T (English)
25 x 1.0 (French)
Other: Italian size
Steel ball diameter: 3/16"
Weight: 6.1 ozs. (172 gms.)





HUBS
Model: RH-4000
Specifications
Material: Forged light alloy with buff finish
Ground ball race for precision
Type: Small flange
Thread: 1.37" x 24T (English), 34.8 x 1.0 (French)
Lock nut to lock nut dimension:
Front: 3-15/16" (100 mm)
Rear: 4-3/4" (120 mm)
Steel ball diameter: Front 3/16", Rear 1/4"
Spoke drilling: 28H, 32H, 36H
Weight: 16.8 ozs. (475 gms.) Pair
Fork end clearance: Front 11/32" (9 mm),
Rear 13/32" (10 mm)



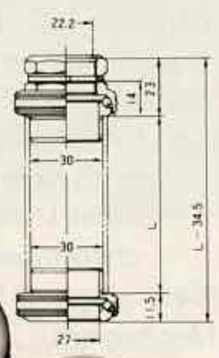
FORK ENDS
Model: EP-140
Specifications
Material: Forged steel (Front end). Steel with fine blanking process (Rear end)
Type: Track type
Thickness: Front 1/4" (6 mm)
Rear 3/16" (5 mm)
Hub axle diameter: Front 11/32" (9 mm)
Rear 13/32" (10 mm)
Weight: 7.6 ozs. (215 gms.)



PEDALS
Model: PL-3000
Specifications
Material: Forged light alloy (Body) with anodized finish. Light alloy (Plate) with anodized finish. Light alloy die-cast (Dust cap) with anodized finish. Cr-Mo (Spindle) with allen key hole (6 mm).
Ground ball race for precision
Type: Track type
Width: 2-3/8" (60 mm)
Thread: 9/16" x 20T (English), 14 x 1.25 (French)
Steel ball diameter: 5/32"
Weight: 11.8 ozs. (335 gms.) Pair







HEAD SET
Model: HS-300
Specifications
Material: Steel (Body) with chromium plating. Light alloy (Acorn nut) with anodized finish. Chrome steel (Ball)
Ground ball race for precision
Type: Track type
Thread: 1" x 24T (English), 25 x 1.0 (French)
Other: Italian size
Steel ball diameter: 5/32"
Weight: 5.1 ozs. (145 gms.)



HUBS
Model: RH-3000
Specifications
Material: Forged light alloy with buff finish
Ground ball race for precision
Type: Large flange
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Lock nut to lock nut dimension:
Front 3-15/16" (100 mm), Rear 4-3/4" (120 mm) 4-21/64" (110 mm)
Spoke drilling: 28H, 32H, 36H
Steel ball diameter: Front 3/16", Rear 1/4"
Weight: 18.5 ozs. (525 gms.) Pair
Fork end clearance: Front 11/32" (9 mm), 5/16" (8 mm), Rear 13/32" (10 mm)





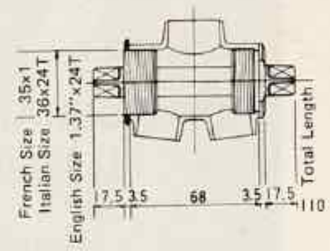


CHAINWHEEL
Model: CW-3000
Specifications
Material: Forged light alloy with anodized finish. Steel (Dust cap) with chromium plating
Type: Cotterless/Track type
Chain: 1/2" x 1/8"
Available sprockets: 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54T (3/32" sprockets can be used.)
Crank length: 6-1/2"(165 mm) 6-19/32"(167.5 mm)
6-11/16" (170 mm) 6-51/64" (172.5 mm)
6-57/64" (175 mm)
Thread: 9/16" x 20T (English), 14 x 1.25 (French)
Weight: 19.6 ozs. (556 gms.) (49T, 165 mm)

Teething Profile



BOTTOM BRACKET SET
Model: BB-300
Specifications
Material: Nickel chrome steel (Spindle), Cr-Mo (Fixing bolt), Chrome steel (Ball), Ground ball race for precision
Thread: 1.37 x 24T (English),
35 x 1.0 (French), 36 x 24T (Italian)
B.B. width: 68 mm, 70 mm
Steel ball diameter: 1/4"
Weight: 10.4 ozs. (295 gms.)





RACING SPROCKET
Model: HC-500
Specifications

Sprocket	Weight
13T	0.4 ozs. (12 gms.)

Use: Track hub only
Material: Ultra duralumin with anodized finish
Chain: 1/2" x 1/8"
Thread: 1.37" x 24T (English)



LOCK RING
Model: HC-900
Specifications

Type	Weight
For 12T	0.7 ozs. (21 gms.)
For 13T – 17T	0.5 ozs. (15 gms.)

Use: Track hub only
Material: Steel
Thread: 1.29" x 24T (English)

CYCLONE BL

REAR DERAILLEUR
Model: RD-1700



Specifications
Material: Forged light alloy with anodized finish
Total gear capacity: 24T
Rear: Largest sprocket 24T
Front: 14T with 24T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal
Weight: 6.5 ozs. (184 gms.)
Other: Mounting bracket can be used.

REAR DERAILLEUR (GT)
Model: RD-1800



Specifications
Material: Forged light alloy with anodized finish
Total gear capacity: 36T
Rear: Largest sprocket 34T
Front: 16T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Top normal Quick cage
Weight: 6.6 ozs. (188 gms.)
Other: Mounting bracket can be used.

FRONT DERAILLEUR
Model: FD-1300



Specifications
Material: Forged light alloy (Body) with anodized finish. Steel/Heat-treated (Chain guide)
Gear capacity: 18T
Mechanism: Parallelogram, Low normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.5 ozs. (98 gms.) with cable stop, 3.4 ozs. (95 gms.) without stop

SHIFT LEVER
Model: LD-1600



Specifications
Material: Forged light alloy (Lever) with anodized finish. Light alloy/Die-cast (Body), Stainless steel (Clamp band)
Type: Universal type/Double lever, Endless band clamp
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 2.1 ozs. (60 gms.)

REAR DERAILLEUR
Model: RD-3200



Specifications
Material: Light alloy body and cage
Total gear capacity: 25T
Rear: Largest sprocket 24T
Front: 15T with 24T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal, Non-bending mechanism
Weight: 7.3 ozs. (208 gms.) without mounting bracket

FRONT DERAILLEUR
Model: FD-1900



Specifications
Material: Light alloy/Die-cast (Frame), Light alloy (Outer chain guide) with heat treatment, Steel (Inner chain guide) with chromium plating
Gear capacity: 18T
Mechanism: Slant parallelogram, Draw bridge system, Low normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.9 ozs. (110 gms.)

SHIFT LEVER
Model: LD-2200



Specifications
Material: Light alloy lever handle, Steel clamp
Type: Universal type double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Inner cable length: 1200 x 700 mm
Weight: 2.4 ozs. (68 gms.) without cable

REAR DERAILLEUR (S)
Model: RD-3600



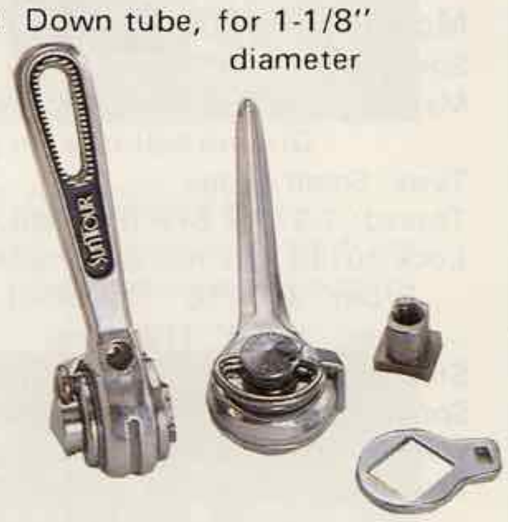
Specifications
Material: Light alloy (Body and cage)
Total gear capacity: 30T
Rear: Largest sprocket 26T
Front: 18T with 26T rear sprocket.
Mechanism: Slant parallelogram, Top normal, Quick cage, Straight wire mechanism
Stroke: 1-1/4" (31 mm)
Weight: 7.9 ozs. (225 gms.) without mounting bracket

REAR DERAILLEURS
Model: RD-3300



Specifications
Material: Light alloy body and cage
Total gear capacity: 36T
Rear: Largest sprocket 34T
Front: 16T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal, Non-bending mechanism Quick cage
Weight: 7.8 ozs. (220 gms.) without mounting bracket

SHIFT LEVER
Lever: LD-2250



Specifications
Material: Light alloy lever handle
Type: Universal type/double lever
Mounting method: Brazed on
Mounting position: Down tube, for 1-1/8" diameter
Weight: 58 gms.

CYCLONE BLACK SERIES



ROAD Vx



REAR DERAILLEUR
Model: RD-2200
Specifications
Material: Light alloy/
Die-cast pressed (Body)
Total gear capacity: 24T
Rear: 26T
Front: 12T with 24T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram,
Straight wire mechanism,
Top normal
Weight: 7.1 ozs. (200 gms.)
Other: Mounting barcket can be used.



REAR DERAILLEUR
Model: RD-2500 (S)
Specifications
Material: Light alloy/
Die-cast pressed (Body)
Total gear capacity: 28T
Rear: Largest sprocket 26T
Front: 16T with 26T rear sprocket.
Mechanism: Slant parallelogram,
Straight wire mechanism,
Quick cage system,
Top normal
Weight: 7.4 ozs. (210 gms.)
Other: Mounting bracket can be used.



REAR DERAILLEUR
Model: RD-2400
Specifications
Material: Light alloy/
Die-cast pressed (Body)
Total gear capacity: 34T
Rear: Largest sprocket 34T
Front: 14T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram,
Straight wire mechanism,
Quick cage,
Top normal
Weight: 7.4 ozs. (210 gms.)
Other: Bracket can be used.



FRONT DERAILLEUR
Model: FD-1600
Specifications
Material: Light alloy (Body)
Steel (Chain guide) with dull finish.
Gear capacity: 15T
Mechanism: Parallelogram,
Low normal.
Clamp diameter: 1-1/8"
(28.6 mm)

Weight: 4.1 ozs. (115 gms.)
4.0 ozs. (114 gms.)



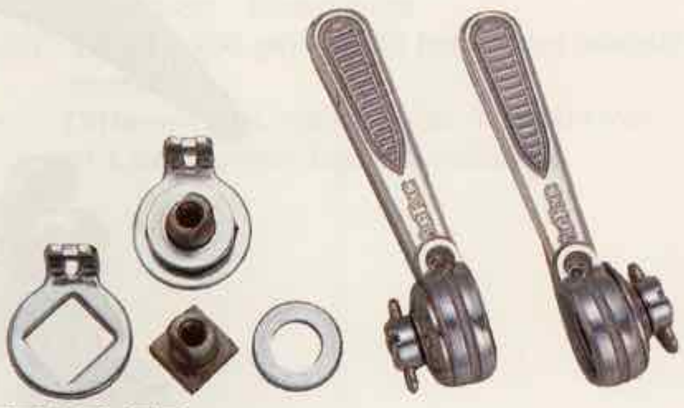
HUBS
Model: RH-2500
Specifications
Material: Forged light alloy with buff finish.
Type: Quick release/Large flange
Thread: 1.37" x 24T (English),
34.8 x 1.0 (French)
Lock nut to lock nut dimension:
Front: 3-15/16" (100 mm)
Rear: 4-3/4" (120 mm)
Spoke drilling: 36H
Weight: 22.6 ozs. (640 gms.) Pair

HUBS
Model: RH-1500
Specifications
Material: Forged light alloy with buff finish.
Type: Quick release/Small flange
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Lock nut to lock nut dimension:
Front: 3-15/16" (100 mm)
Rear: 4-3/4" (120 mm)
Spoke drilling: 36H
Weight: 21.0 ozs.
(595 gms.) Pair





SHIFT LEVER
Model: LD-1900
Specifications
Material: Light alloy (Lever)
Stainless steel (Clamp band)
Type: Universal type/Double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 2.8 ozs. (80 gms.)



SHIFT LEVER
Model: LD-1950
Specifications
Material: Light alloy (Lever)
Type: Universal type/Double lever
Mounting method: Brazed on
Use: For 1-1/8" diameter pipe
Mounting position: Down tube
Weight: 2.4 ozs. (68 gms.)



PEDALS
Model: PL-1500
Specifications
Material: Light alloy (Body), Steel (Spindle).
Type: Quill type
Width: 2-1/2" (63 mm)
Thread: 9/16" x 20T (English)
14 x 1.25 (French)
Weight: 12.7 ozs. (360 gms.) Pair

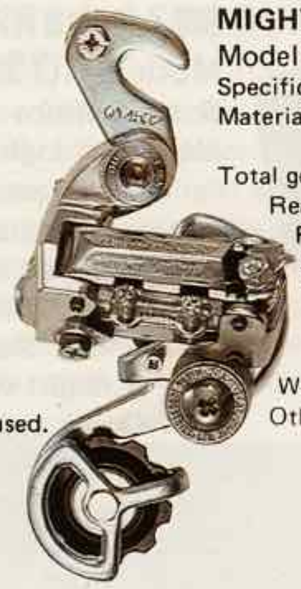
REAR DERAILLEURS



VGT
Model: RD-1500
Specifications
Material: Light alloy, Die-cast pressed
Total gear capacity: 38T
Rear: Largest sprocket 34T
Front: 18T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 9.0 ozs. (255 gms.)
Other: Mounting bracket can be used.



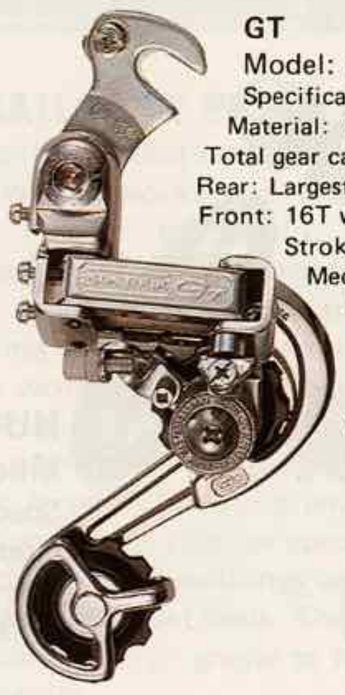
HONOR
Model: RD-1100
Specifications
Material: Steel with chromium plating
Total gear capacity: 28T
Rear: Largest sprocket 30T
Front: 12T with 30T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 14.1 ozs. (400 gms.)
Other: Mounting bracket can be used.



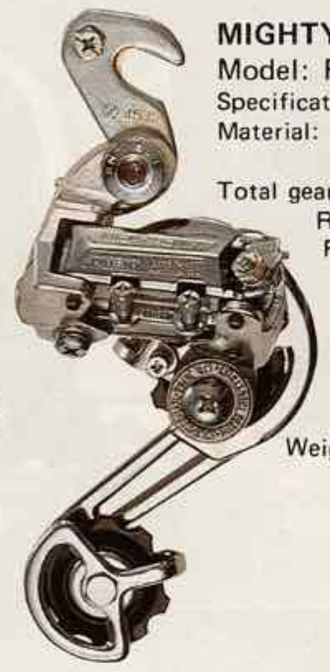
MIGHTY CLICK
Model: RD-2700
Specifications
Material: Light alloy/Die cast (Frame) Steel with chromium plating
Total gear capacity: 22T
Rear: Largest sprocket 30T
Front: 14T with 30T rear sprocket.
Stroke: 1-3/16" (30.5 mm)
Mechanism: Slant Parallelogram With wire saver, Quick cage, Top normal
Weight: 13.6 ozs. (389 gms.)
Other: If Mighty Click lever is used. this is good for 5-Speed only.



SEVEN
Model: RD-1900
Specifications
Material: Light alloy/Die-cast (Frame), Steel with chromium plating.
Total gear capacity: 30T
Rear: Largest sprocket 30T
Front: 14T with 30T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 11.0 ozs. (313 gms.)
Other: Mounting bracket can be used.



GT
Model: RD-1200
Specifications
Material: Steel with chromium plating
Total gear capacity: 36T
Rear: Largest sprocket 34T
Front: 16T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 15.5 ozs. (440 gms.)
Other: Mounting bracket can be used.



MIGHTY CLICK GT
Model: RD-2800
Specifications
Material: Light alloy/Die-cast (Frame) Steel with chromium plating
Total gear capacity: 34T
Rear: Largest sprocket 34T
Front: 14T with 34T rear sprocket.
Stroke: 1-3/16" (30.5 mm)
Mechanism: Slant parallelogram with wire saver, Quick cage, Top normal
Weight: 14.7 ozs. (419 gms.)



SEVEN GT
Model: RD-2000
Specifications
Material: Light alloy/Die-cast (Frame) Steel with chromium plating
Total gear capacity: 32T
Rear: Largest sprocket 34T
Front: 12T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 12.1 ozs. (343 gms.)
Other: Mounting bracket can be used.



VOLANTE
Model: RD-2600
Specifications
Material: Light alloy (Frame) Steel with chromium plating
Total gear capacity: 25T
Rear: Largest sprocket 26T
Front: 13T with 26T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal
Weight: 9.3 ozs. (263 gms.)
Other: Mounting bracket can be used.



AG
Model: RD-3400
Specifications
Material: Light alloy/Die-cast (Frame), Steel with chromium plating
Total gear capacity: 40T
Rear: Largest sprocket 38T
Front: 16T with 38T rear sprocket.
Stroke: 1-3/4" (41 mm)
Mechanism: Slant parallelogram, Straight wire mechanism, Quick cage, Top normal
Weight: 13.2 ozs. (375 gms.)
Other: Mounting bracket can be used.



VOLANTE-S
Model: RD-4100
Specifications
Material: Light alloy (Frame) Steel with chromium plating
Total gear capacity: 30T
Rear: Largest sprocket 28T
Front: 16T with 28T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram, Top normal
Weight: 10.7 ozs. (302 gms.)
Other: Mounting bracket can be used.

FRONT DERAILLE











URS

SHIFT LEVERS

NSL
Model: FD-1700
Specifications
Material: Light alloy/Die-cast (Frame), Light alloy (Outer chain guide) with heat treatment, Steel (Inner chain guide) with chromium plating
Gear capacity: 16T
Mechanism: Slant parallelogram, Draw bridge system, Top normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 3.9 ozs. (110 gms.)

SEVEN
Model: FD-1400
Specifications
Material: Light alloy/Die-cast (Frame), Steel (Chain guide) with chromium plating
Gear capacity: 18T
Mechanism: Parallelogram, Low normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 4.1 ozs. (115 gms.)
4.0 ozs. (113 gms.)
No cable housing needed.

AG
Model: FD-2100
Specifications
Material: Light alloy (Body)
Steel (Guard) with chromium plating
Steel (Inner chain guide) heat-treated
Gear capacity: 22T
Mechanism: Slant parallelogram, Draw bridge system, Inner plate slide
Clamp diameter: 1-1/8" (28.6 mm)
Minimum gear capacity:
More than 6T (Double gear)
More than 4T (Triple gear)
Weight: 5.5 ozs. (155 gms.)

COMPE-V
Model: FD-1100
Specifications
Material: Light alloy/Die-cast (Frame), Steel (Chain guide) with chromium plating
Gear capacity: 18T
Mechanism: Slant parallelogram, Top normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 4.7 ozs. (134 gms.)

SPIRT
Model: FD-1000
Specifications
Material: Light alloy/Die-cast (Frame), Steel (Chain guide) with chromium plating
Gear capacity: 18T
Mechanism: Slant parallelogram, Top normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 5.1 ozs. (145 gms.)

MIGHTY CLICK 10
Model: FD-1800
Specifications
Material: Light alloy/Die cast (Frame)
Steel (Chain guide) with chromium plating
Gear capacity: 18T
Mechanism: Slant parallelogram
Wire saver mechanism
Top normal
Clamp diameter: 1-1/8" (28.6 mm)
Weight: 5 ozs. (142 gms.)



PDL-M
Model: LD-1500
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Mechanism: Power lever with ratchet
Type: Double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 4.4 ozs.(125 gms.)
Other: Wing nut and brazed on type are available



PSL-M
Model: LS-1500
Specifications
Material: Light alloy (Lever), Steel (Clamp).
Mechanism: Power lever with ratchet
Type: Single lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 2.5 ozs. (72 gms.)
Other: Wing nut and brazed on type are available



UB-10
Model: LD-1100
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Type: Universal type/Double lever
Clamp diameter: 7/8"(22.2 mm)
Mounting position: Handle bar stem
Weight: 5.0 zos. (143 gms.)
Other: Wing nut type is available. With lever cap



UB-5
Model: LS-1100
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Type: Universal type Single lever
Clamp diameter: 7/8" (22.2 mm)
Mounting position: Handle bar stem
Weight: 3.9 ozs. (110 gms.)
Other: Wing nut type is available. A bell (red, black or white) can be attached. With lever cap



DLW
Model: LD-1000
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Type: Universal type/Double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 3.7 ozs. (106 gms.)
Other: Wing nut and brazed-on type are available. With lever cap



SLW
Model: LS-1000
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Type: Universal type/Single lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 2.3 ozs. (65 gms.)
Other: Wing nut and brazed-on type are available. With lever cap



BAR-CON
Model: LD-1400
Specifications
Material: Light alloy, Die-cast
Mechanism: Power lever with ratchet
Mounting position: Handle bar end
Weight: 6.2 ozs. (176 gms.) Pair
Other: 6 mm Allen key is used



PUB-10
Model: LD-1300
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Mechanism: Power lever with ratchet (for rear derailleur)
Type: Double lever
Clamp diameter: 7/8" (22.2 mm)
Mounting position: Handle bar stem
Weight: 8.0 ozs. (227 gms.)
Other: Wing nut type is available. With lever cap



PUB-5
Model: LS-1300
Specifications
Material: Light alloy (Lever), Steel (Clamp)
Mechanism: Power lever with ratchet
Type: Single lever
Clamp diameter: 7/8"(22.2 mm)
Mounting position: Handle bar stem
Weight: 5.5 ozs. (156 gms.)
Other: Wing nut type is available. A bell (red, black or whie) can be attached. With lever cap



DLC
Model: LD-2400
(Mighty click derailleur only)
Model: LD-2450
(Honor derailleur only)
Specifications
Material: Light alloy (Lever)
Steel (Clamp)
Mechanism: Click system
Type: Double lever
Clamp diameter: 1-1/8" (28.6 mm)
Mounting position: Down tube
Weight: 5.1 ozs. (146 gms.)



UBD-10
Model: LD-2500
(Mighty click derailleur only)
Model: LD-2550
(Honor derailleur only)
Specifications
Material: Light alloy (Lever)
Steel (Clamp)
Mechanism: Click system
Type: Double lever
Clamp diameter: 7/8" (22.2 mm)
Mounting position: Handle bar stem
Weight: 6.3 ozs. (180 gms.)



MIGHTY SHIFTER II
Model: LS-2200
Specifications
Material: Light alloy (Lever), Stainless (Clamp)
Mechanism: Power lever with ratchet
Clamp diameter: 7/8" (22.2 mm)
Mounting position: Handle bar
Weight: 3.4 ozs. (95 gms.)
Other: Wing nut type is available. With lever cap

CONSOLE LEVER (Type III)



Model: LS-3300
Specifications
Material: Plastic (Body cover, grip)
Steel (Inner body assembling parts)
Mechanism: IC system
Clamp diameter: For top tube 25.4 mm (1")
Weight: 16.5 ozs. (470 gms.)
Others: Digital indication through clear plastic window.
For exclusive use of IC rear derailleur and IC front chainwheel.

CONSOLE LEVER (Type II)



Model: LS-3200
Specifications
Material: Plastic (Body cover, grip)
Steel (Inner body assembling parts)
Mechanism: IC system
Clamp diameter: For top tube 25.4 mm (1")
Weight: 12.8 ozs. (365 gms.)
Others: Digital indication through clear plastic window.
For exclusive use of IC rear derailleur and IC front chainwheel.

MIGHTY CLICK



Model: LS-2900
Specifications
Material: Plastic (Body & Grip)
Steel (Clamp)
Mechanism: Mighty Click System
Use: For Mighty Click System derailleur only
Clamp diameter: 1" (25.4 mm)
Mounting position: Top tube
Weight: 10.9 ozs. (310 gms.)

NEW WINNER & ULTRA-6 CHAIN, FREEWHEELS, CHAIN



NEW WINNER 7-SPEED (ULTRA TYPE)
Model: NW-7000
Specifications
Chain: 1/2" x 3/32" (ULTRA-6 CHAIN)
Material: Steel (Sprockets) with silver finish,
Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 6-Speed hubs with lock nut to lock nut dimension of 5" (126 mm)
Type: Boss type
Body adjustment mechanism: Double nut



NEW WINNER 6-SPEED (ULTRA TYPE)
Model: NW-6500
Specifications
Chain: 1/2" 3/32" (ULTRA-6 CHAIN)
Material: Steel (Sprockets) with silver finish,
Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 5-Speed hubs with lock nut to lock nut dimension of 4-3/4" (120 mm)
Type: Boss type
Body adjustment mechanism: Double nut



NEW WINNER 6-SPEED
Model: NW-6000
Specifications
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with silver finish,
Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 6-Speed hubs with lock nut to lock nut dimension of 5" (126 mm)
Type: Boss type
Body adjustment mechanism: Double nut



NEW WINNER 5-SPEED
Model: NW-5000
Specifications
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with silver finish, Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 5-Speed hubs with lock nut to lock nut dimension of 4-3/4" (120mm)
Type: Boss type
Body adjustment mechanism: Double nut



PERFECT TYPE ULTRA-6
Model: US-6500 (ULTRA TYPE)
Specifications
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with silver finish, Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English),
34.8 x 1.0 (French)
Use: For 5-Speed hub with lock nut to lock nut dimension of 4-3/4" (120 mm)
Type: Boss type



ULTRA-6 CHAIN
Model: UC-6000
Specifications
Material: Steel
Surface treatment:
Roller link plate/Black finish,
Pin link plate/Silver finish
Size: 1/2" x 3/32" (ULTRA-6 SIZE)



Z CHAIN
Model: TZ-6000
Specifications
Material: Steel
Surface treatment: Roller link plate/Black finish
Pin link plate/Silver finish
Size: 1/2" x 3/32"



PRO-COMPE 5-SPEED
Model: PC-5000
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with gold finish,
Forged steel (Body),
Ground ball race for precision.
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 5-Speed hubs withllock nut to lock nut dimension of 4-3/4" (120 mm)
Type: Boss type

PERFECT 5-SPEED
Model: PT-5000
Specifications
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with brown finish,
Forged steel (Body)
Other specifications are same as Model: PC-5000





AG-5SPEED
Model: PT-3800
Specifications:
Chain: 1/2" x 3/32"
Material: Steel (Sprockets) with brown finish,
Forged steel (Body)
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Type: Boss type
Use: For AG rear derailleur
Standard model: 14 x 17 x 22 x 28 x 38T
Other: With chain guard



SINGLE FREEWHEEL
Model: FS-1500
Specifications
Chain: 1/2" x 1/8"
Material: Steel with brown finish, 1/8" Diameter steel ball
Thread: 1.37" x 24T (English)
Available sprockets: 16T through 20T, 22T, 24T
Weight: 6.5 ozs. (184 gms.) 18T



PERFECT 6-SPEED
Model: PN-6000
Specifications
Chain: 1/2" x 3/32"
"Z" Type chain
Material: Steel (Sprockets) with brown finish,
Forged steel (Body)
Thread: 1.37" x 24T (English)
34.8 x 1.0 (French)
Use: For 5-Speed hubs with lock nut to lock nut dimension of 4-7/8" (124 mm)
Type: Boss type



SINGLE FREEWHEEL
Model: MF-1000 (MINI SIZE)
Specifications
Chain: 1/2" x 1/8"
Material: Steel with brown finish, 5/32" Steel balls
Thread: M30 x P1.0 (Metric)
Hub: Mini cycle hub
Sprocket: 14, 15T
Weight: 4.4 ozs. (124 gms.) 14T



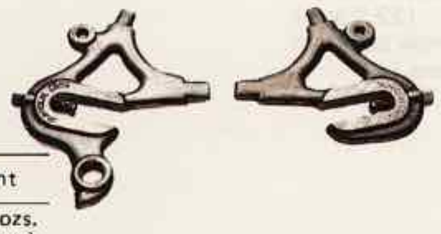
SD 3-SPEED
Model: FT-3050
Specifications
Chain: 1/2" x 1/8"
Material: Steel (sprocket) with brown finish
Forged steel (Body)
Thread: 1.37" x 24T (English)
Standard Model: 16, 19, 24

FORK ENDS



GS
Model: EF-100 Front: EF-101
Specifications Rear: EF-102
Material: Forged steel
Type: Road type

	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	3/8" (9 mm)	2-3/32 ozs. (59 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	6 ozs. (170 gms.)



GS-II
Model: EF-110 (Rear)
Specifications
Material: Forged steel
Type: Road type

	Thick-ness	Hub axle diameter	Weight
Rear	9/32" (7 mm)	13/32" (10 mm)	5-9/16 ozs. (161 gms.)



AXLE STOPPER SET
Model: LA-100
Specifications
Material: Steel with chromium plating
Use: For GT, GTW rear ends
Weight: 0.3 ozs. (8 gms.)

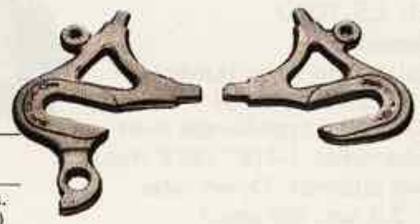
GT
Model: EP-100 Front: EP-101
Specifications Rear EP-102
Material: Semi-forged steel
Type: Road type

	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	5/16" (8 mm)	2-19/64 ozs. (65 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	5-15/16 ozs. (168 gms.)



GTW
Model: EP-110 (Rear)
Specifications
Material: Semi-forged steel
Type: Road type

	Thick-ness	Hub axle diameter	Weight
Rear	1/4" (6 mm)	13/32" (10 mm)	6-3/16 ozs. (175 gms.)



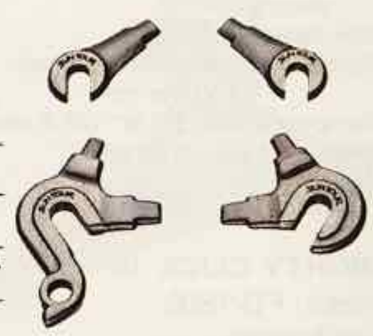
SD
Model: EP-120 Front: EP-121
Specifications Rear EP-122
Material: Semi-forged steel
Type: Straight drop out/Touring type

	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	3/8" (9 mm)	2-1/2 ozs. (71 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	4-5/16 ozs. (122 gms.)



SDB
Model: EF-120 Front: EF-121
Specifications Rear: EF-122
Material: Forged steel
Type: Straight drop out

	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	3/8" (9 mm)	1-3/4 ozs. (49 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	3-13/16 ozs. (108 gms.)



SDC
Model: EF-130 Front: EP-121
Specifications Rear: EP-131
Material: Semi-forged steel (Front)
Forged steel (Rear)
Type: Straight drop out/Touring type

	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	3/8" (9 mm)	2-1/2 ozs. (71 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	4-1/2 ozs. (127 gms.)



SDE
Model: EF-140
Specifications
Material: Forged steel
Type: Straight drop out/Touring type

	Thick-ness	Hub axle diameter	Weight
Rear	9/32" (7 mm)	13/32" (10 mm)	4-13/64 ozs. (119 gms.)



BMX RACING PARTS





1 **GEAR CRANK**
Model: CW-1600

2 **FRONT HUB (Large Flange)**
Model: MH-1500

3 **FRONT HUB (Small Flange)**
Model: MH-1000

4 **MINI STEM**
Model: MS-1000

5 **B.B. SET**
Model: BB-220

6 **B.B. SET**
Model: BB-200

7 **CHAIN RINGS**
Model: CW-2100

8 **AXLE NUT**
Model: HB-600

9 **SEAT CLAMP**
Model: MC-1000

10 **PEDAL**
Model: MP-1000

11 **CHAIN RING FIXING BOLT & NUT**

12 **POWER STEM**
Model: MS-1100

13 **SINGLE THREADED HUB (Large Flange)**
Model: HB-6100

14 **SINGLE THREADED HUB (Small Flange)**
Model: HB-6200

15 **DOUBLE FREEWHEEL**
Model: MF-3000

16 **EZ OFF FREEWHEEL**
Model: MF-2000

17 **EZ OFF FREEWHEEL**
Model: MF-1500

18 **EZ OFF FREEWHEEL REMOVER**
Model: TA-103

19 **HEAD LOCK-UP**
Model: HL-1000

20 **GEAR CRANK**
Model: CW-2000

For more of BMX information,
see other catalog available from SUNTOUR.

HUBS



HUBS
Model: RH-4100
Specifications
Material: Light alloy (Body)
Steel #S45C (Axle)
Type: Small flange
Thread: 1.37" x 24T (English)
Lock nut to lock nut dimension
Front: 3-13/16" (96 mm), 3-15/16" (100 mm)
Rear: 4-3/4" (120 mm), 4-7/8" (124 mm),
4-31/32" (126 mm)
Spoke drilling: 36H
Weight: 21.2 ozs. (601 gms.)
Pair (100 mm – 126 mm)



HUBS
Model: RH-4200
Specifications
Material: Light alloy (Body)
Steel #S45C (Axle)
Type: Small flange
Thread: 1.37" x 24T (English)
Lock nut to lock nut dimension
Front: 3-13/16" (96 mm), 3-15/16" (100 mm)
Rear: 4-3/4" (120 mm), 4-7/8" (124 mm)
Spoke drilling: 36H
Weight: 19.4 ozs. (550 gms.)
Pair (100 mm – 120 mm)



HUBS
Model: RH-4300
Specifications
Material: Light alloy (Body)
Steel #S45C (Axle)
Type: Small flange
Thread: 1.37" x 24T (English)
Lock nut to lock nut dimension
Front: 3-21/32" (93 mm)
Rear: 4-3/4" (120 mm),
4-7/8" (124 mm)
Spoke drilling: 36H
Weight: 16.5 ozs. (469 gms.)
Pair (93 mm – 120 mm)

COASTER BRAKE

Modle: CB-5000
Specifications
Material: Forged steel (Body), Steel (Axle)
Chain: 1/2" x 1/8"
Teeth: 16, 18, 19, 20T
Lock nut to lock nut dimension: 4-9/32" (109 mm)
Axle length: 6" (152 mm), 6-3/8" (162 mm)
6-11/16" (170 mm)
Spoke holes: 20H, 28H, 36H
Spoke sizes: #12, #13, #14
Axle thread: 3/8" x 24T (UNF)
Weight: 34.2 ozs. (970 gms.)



ACCESSORIES

SPOKE DISC
Model: SD-750
Specifications
Size: 7-1/2" (190 mm) for 27T – 34T low gear
Material: Steel or light alloy with anodized finish
Weight: Steel – 4.7 ozs. (132 gms.)
Light alloy – 1.7 ozs. (48 gms.)



SPOKE DISC
Model: SD-720
Specifications
Diameter: 7-1/4" (184 mm)
Use range: Maximum 38T
Material: Steel
Weight: 3.8 ozs. (109 gms.)



SPOKE DISC
Model: SD-650
Specifications
Diameter: 6-1/2" (165 mm)
Use range: Maximum 27T
Material: Steel or light alloy with anodized finish
Weight: Steel 3.6 ozs. (103 gms.)
Light alloy 1.3 ozs. (37 gms.)



SPOKE DISC
Model: SD-600
Specifications
Diameter: 6" (150 mm)
Material: Steel
Weight: 2.4 ozs. (67 gms.)





SPOKE DISC
Model: SD-550
Specifications
Diameter: 5-1/2" (140 mm)
Use range: Maximum 30T
Material: Steel
Weight: 3.1 ozs. (89 gms.)

SPOKE DISC
Model: SD-660
Specifications
Size: 150 mm(6")
Applicable low gear 28T or less
Material: Plastic
Weight: 33 gms.



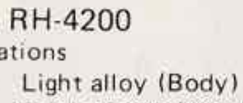
SPOKE DISC
Model: SD-450
Specifications
Diameter: 4-1/2" (120 mm)
Material: Steel
Weight: 1.6 ozs. (44 gms.)

Model: SD-440
Specifications
Diameter: 4-1/2" (120 mm)
Use: For 3-Speed freewheel
Material: Steel
Weight: 1.6 ozs. (45 gms.)

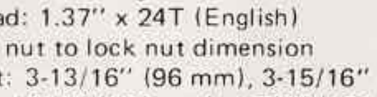


DUAL QUICK RELEASE
Model: QR-150
Specifications
Material: Steel
Position: Front hub
Mechanism: Safety lock
Lock nut to lock nut dimension:
3-13/16" (96 mm), 3-15/16" (100 mm)
Weight: 3.0 ozs. (86 gms.)

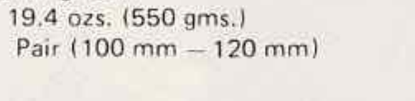
QUICK RELEASE
Model: QR-120
Specifications
Position: Seat clamp
Length: 2" (50 mm), 2-3/8" (60 mm)
Weight: 3.4 ozs. (97 gms.) 60 mm



QUICK RELEASE
Model: QR-100
Specifications
Position: Front hub
Weight: 3.4 ozs. (95 gms.)



QUICK RELEASE
Model: QR-110
Specifications
Position: Rear hub
Use: For 5-Speed hub with lock nut to lock nut dimension of 4-3/4" (120 mm)
Weight: 3.5 ozs. (98 gms.)

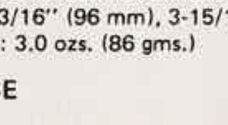


QUICK BAND
Model: QP-100
Specifications
Position: Seat tube end
Material: Cromium plating

Seat tube diameter	Weight
1-1/4" (31 mm)	4.5 ozs. (128 gms.)
1-5/16" (33 mm)	4.5 ozs. (128 gms.)



CABLE GUIDE (LEFT)
Model: WL-550
Specifications
Mateiral: Steel
Weight: 0.4 ozs. (12 gms.)

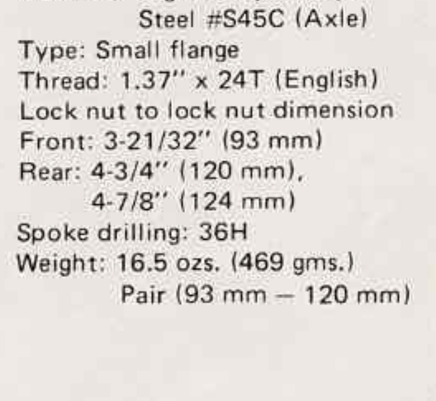


CABLE GUIDE (RIGHT)
Model: WL-500
Specifications
Material: Steel
Weight: 0.2 ozs. (6 gms.)

FRAME FITTINGS
OUTER CABLE STOP
Model: OS-500
Specifications
Material: Steel
Weight: 0.1 ozs. (3 gms.)



INNER CAP
Model: IC-900
Specifications
Mounting position:
End of inner cable
Material: Aluminum
Purpose: To prevent cable fraying



MULTI STAND
Model: MS-100
Specifications
Use: Easy handling stand for repair work and display purposes.
Material: Steel/Chromium plating plastic
Weight: 28.7 ozs. (814 gms.)



NO.	MODEL	DESCRIPTION	SIZE	MATERIAL	WEIGHT
1	OS-100	Double outer holder	1-1/8" (28.6 mm)	Steel	23/32 ozs. (20 gms.)
2	OS-110	Single outer holder	1-1/8" (28.6 mm)	Steel	5/8 ozs. (18 gms.)
3	OS-120	Single outer holder (Chain stay)	5/8" (15.9 mm)	Steel	9/32 ozs. (8 gms.)
4	OS-121	Single outer holder (With chain stay, chain guard)	5/8" (15.9 mm)	Steel	3/8 ozs. (11 gms.)
5	WL-100	Double cable guide	1-1/8" (28.6 mm)	Steel	27/32 ozs. (24 gms.)
6	WL-110	Single cable guide	1-1/8" (28.6 mm)	Steel	3/4 ozs. (21 gms.)
7	WL-120	Double cable guide (Outerless front derailleur)	1-1/8" (28.6 mm)	Steel	5/16 ozs. (37 gms.)
8	BC-101	Single outer band (With bolt)	1-1/8" (28.6 mm)	Stainless steel	1/8 ozs. (4 gms.)
9	BC-102	Double outer band (With bolt)	1" (25.4 mm)	Stainless steel	1/8 ozs. (4 gms.)
10	BC-103	Single outer band (With bolt)	1" (25.4 mm)	Stainless steel	1/8 ozs. (4 gms.)
11	BC-104	Single outer band (With bolt)	5/8" (15.9 mm)	Stainless steel	1/16 ozs. (2 gms.)
12	BC-105	Single outer band (With bolt)	1/2" (12.7 mm)	Stainless steel	1/16 ozs. (2 gms.)
13	RC-101	Single outer clip	1-1/8" (28.6 mm)	Plastic	1/16 ozs. (2 gms.)
	RC-102	Single outer clip	1" (25.4 mm)	Plastic	1/16 ozs. (2 gms.)
14	RC-103	Double outer clip	1-1/8" (28.6 mm)	Plastic	1/16 ozs. (2 gms.)
	RC-104	Double outer clip	1" (25.4 mm)	Plastic	1/16 ozs. (2 gms.)
15	RC-105	Double outer clip	1-1/8" (28.6 mm)	Plastic	1/16 ozs. (2 gms.)
	RC-106	Double outer clip	1" (25.4 mm)	Plastic	1/16 ozs. (2 gms.)
16	RC-107	Single outer clip	5/8" (15.9 mm)	Plastic	1/32 ozs. (1 gm.)
17	RC-108	Single outer clip	1/2" (12.7 mm)	Plastic	1/32 ozs. (1 gm.)
18	RC-109	Single outer band (With bolt)	1/2" (12.7 mm)	Plastic	1/8 ozs. (4 gms.)
	RC-110	Single outer band (With bolt)	5/8" (14.3 mm)	Plastic	1/8 ozs. (4 gms.)
19	RC-111	Single outer band (With bolt)	1-1/8" (28.6 mm)	Plastic	7/32 ozs. (6 gms.)
20	RC-112	Single outer band (With bolt)	1" (25.4 mm)	Plastic	7/32 ozs. (6 gms.)
21	RC-113	Double outer band	1-1/8" (28.6 mm)	Plastic	7/32 ozs. (6 gms.)

SPECIAL TOOLS

HEXAGON WRENCH KEY
Model: Weight
TA-190 (2.5 mm) 0.07 ozs. (2 gms.)
TA-140 (4 mm) 0.4 ozs. (10 gm.s)
TA-200 (5 mm) 5/8 ozs. (18 gms.)
TA-150 (6 mm) 1-1/32 ozs. (29 gms.)



FREEWHEEL & HUB VICE
Model: TA-120
Weight: 7.2 ozs. (204 gms.)



WIRE CUTTER WITH CRIMPER
Model: TA-110
Weight: 4.0 ozs. (113 gms.)



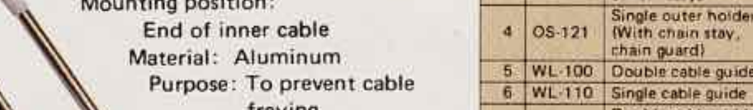
ADJUSTMENT WRENCH (NEW WINNER TYPE)
Model: TA-160
Weight: 3.9 ozs. (110 gms.)



HUB SPANNER
Model: TA-210
Weight: 2.3 ozs. (65 gms.)



SPROCKET REMOVER (CHAIN TYPE)
Model: TA-130
Weight: 12.2 ozs. (346 gms.)



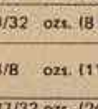
SPROCKET REMOVER (Use for ULTRA-6 Only)
Model: TA-131
Weight: 11.3 ozs. (319 gms.)



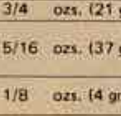
CHAIN TOOL (Use for ULTRA-6 Only)
Model: TA-170
Weight: 5.8 ozs. (165 gms.)



REMOVER
Model: TA-100
Use: Boss type multiple freewheel, Removal tool
Weight: 1.5 ozs. (42 gms.)



REMOVER
Model: TA-101
Use: Boss type multiple freewheels and single freewheels, Removal tool
Weight: 3.4 ozs. (95 gms.)



REMOVER
Model: TA-102
Use: Single freewheels, Removal tool
Weight: 3.1 ozs. (88 gms.)



REMOVER
Model: TA-103
Use: EZ OFF FREE, Removal tool
Weight: 3.7 ozs. (105 gms.)

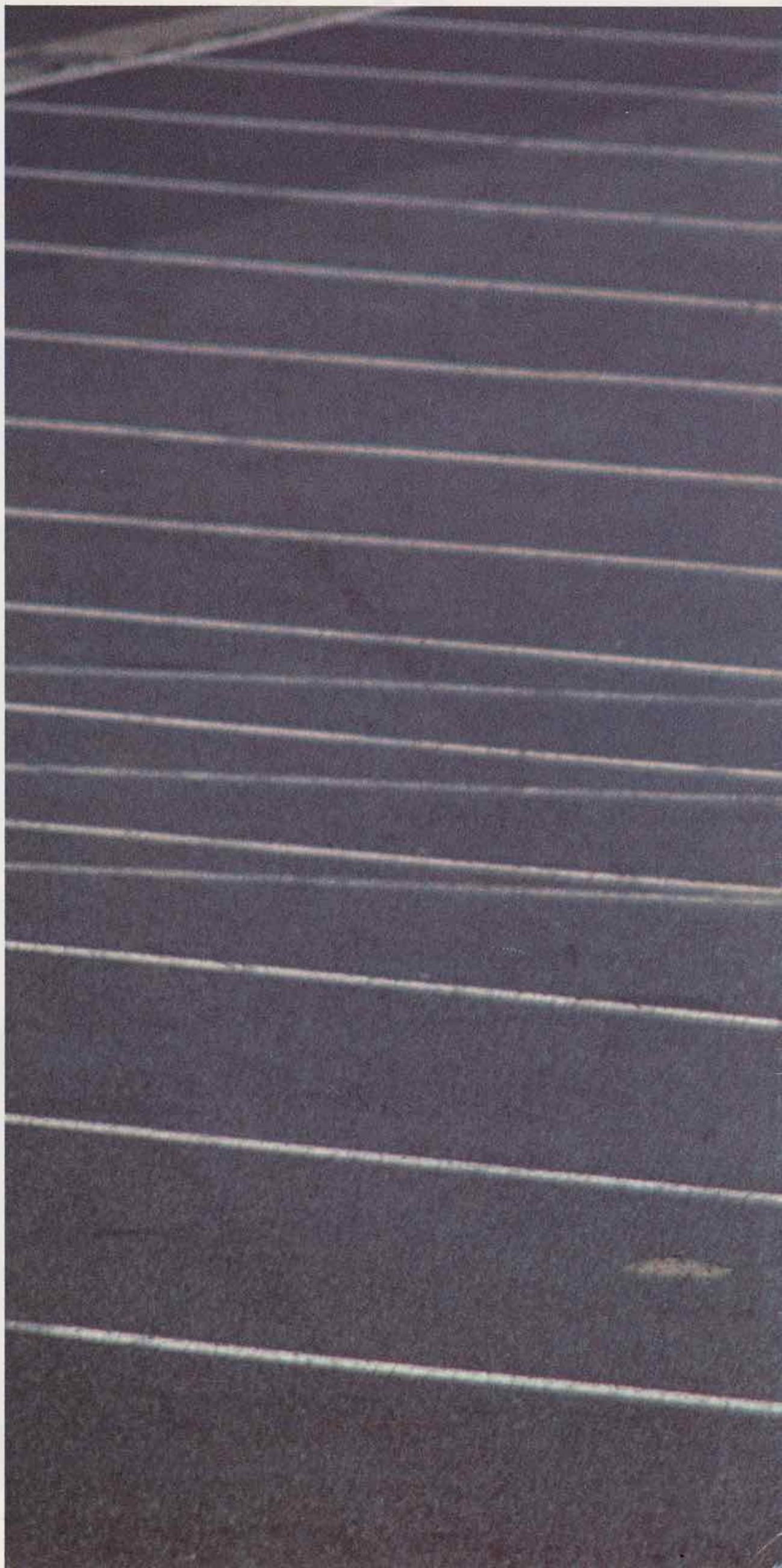


Specifications are subject to change without notice.

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