

Edition
No. 59



SUNTOUR CATALOG

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



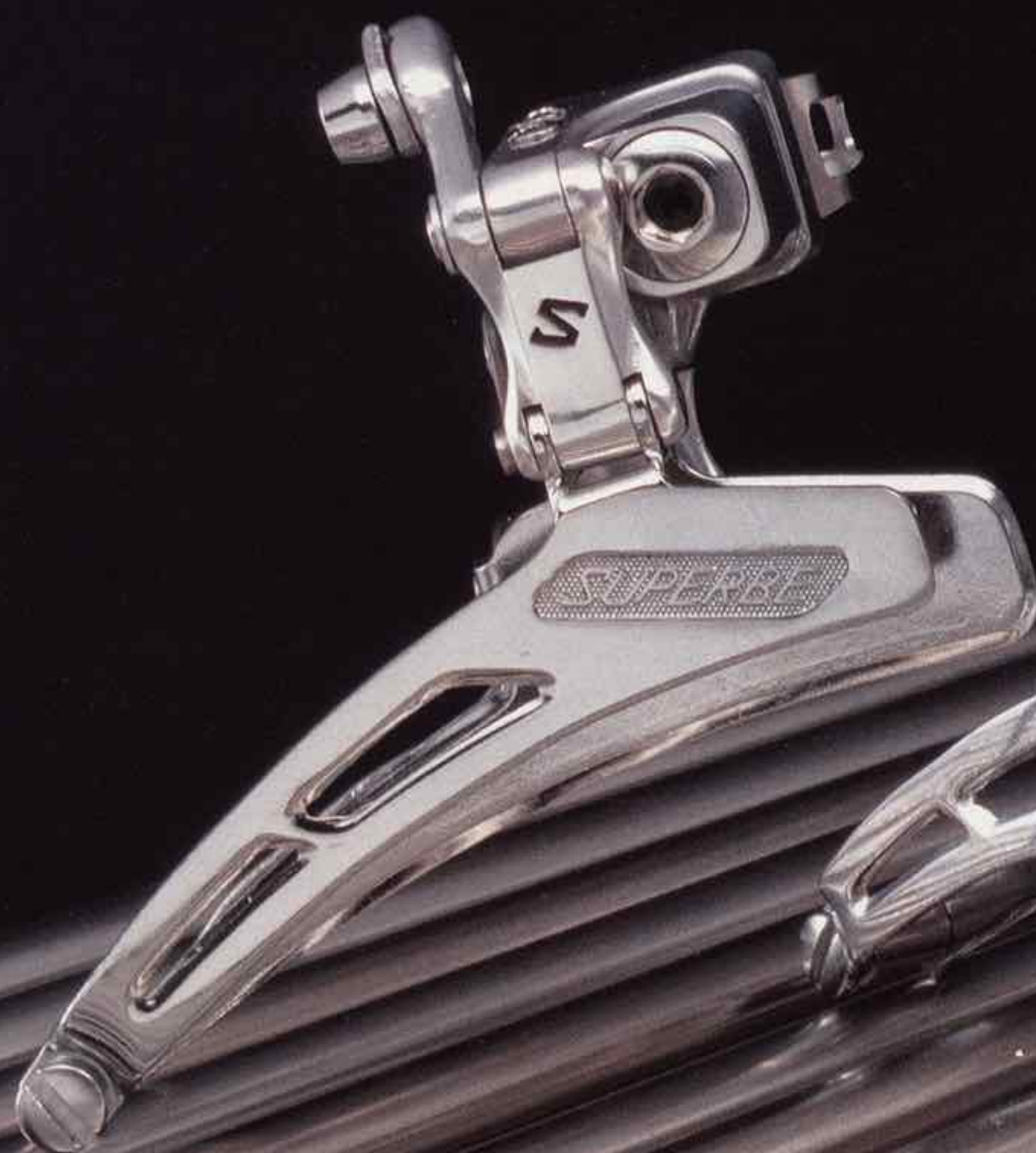
The bike is a tool ... a means to an end. And as with all his tools, man is constantly experimenting to make it perform better. But the fact remains that the bike is a tool, the purpose of which is to extend the range and speed you can travel under your own power.

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 Aero-

dynamics 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.



MICROLITE & AERODYNAMICS



MCS

MICRO LITE & AERODYNAMICS

SUPERBE PRO

CYCLONE MARK-II

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.)



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.)



FRONT DERAILLEUR

Model: FD-2300

Specifications

Material: Light alloy (Body)

Steel (Chain guide) with heat treatment and chromium plating

Stainless steel (Clamp band)

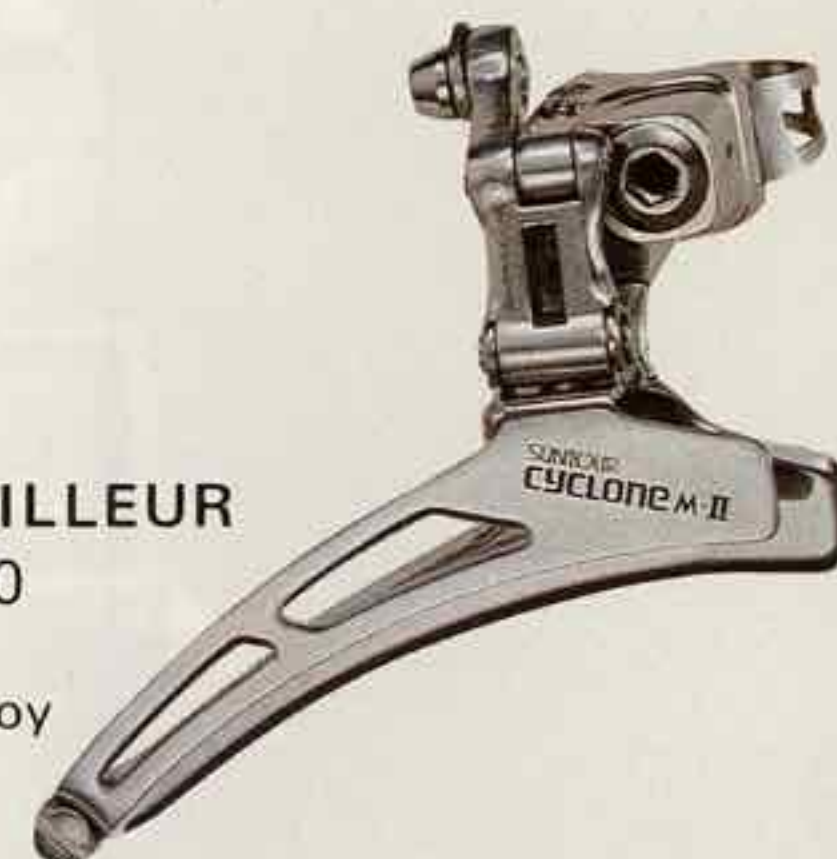
Gear capacity: 18T

Mechanism: Parallelogram, Low normal, Endless clamp, Bare cable system

Clamp 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-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.



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-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

arx

ar



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 aerodynamic 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.

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

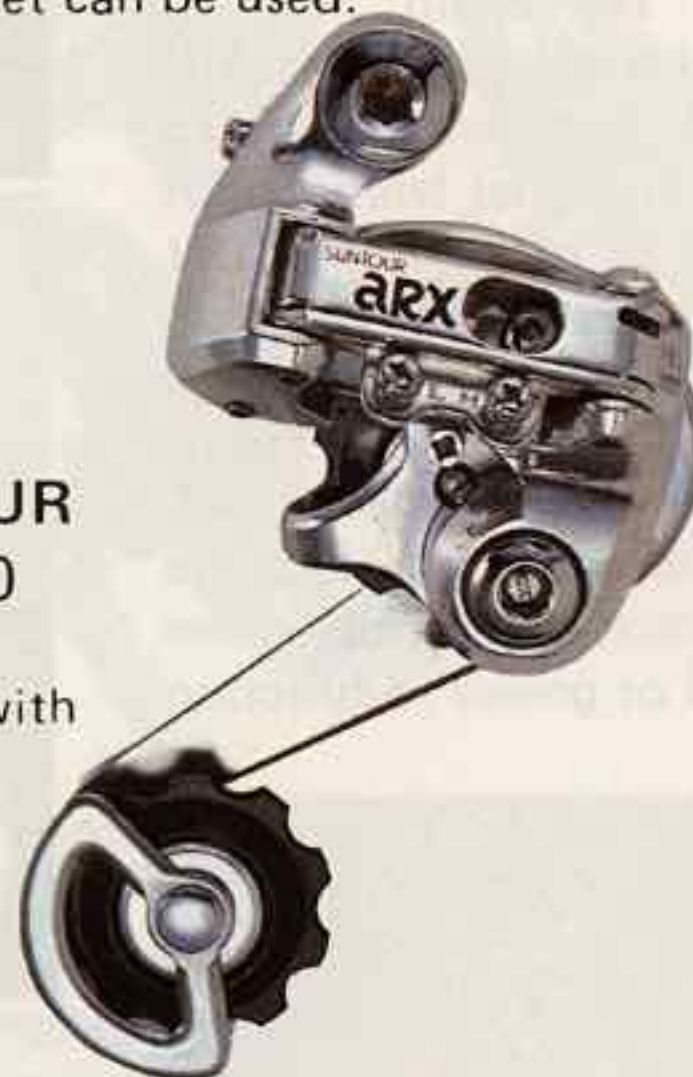
Rear: Largest sprocket 34T

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: 3.3 ozs. (93 gms.)



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

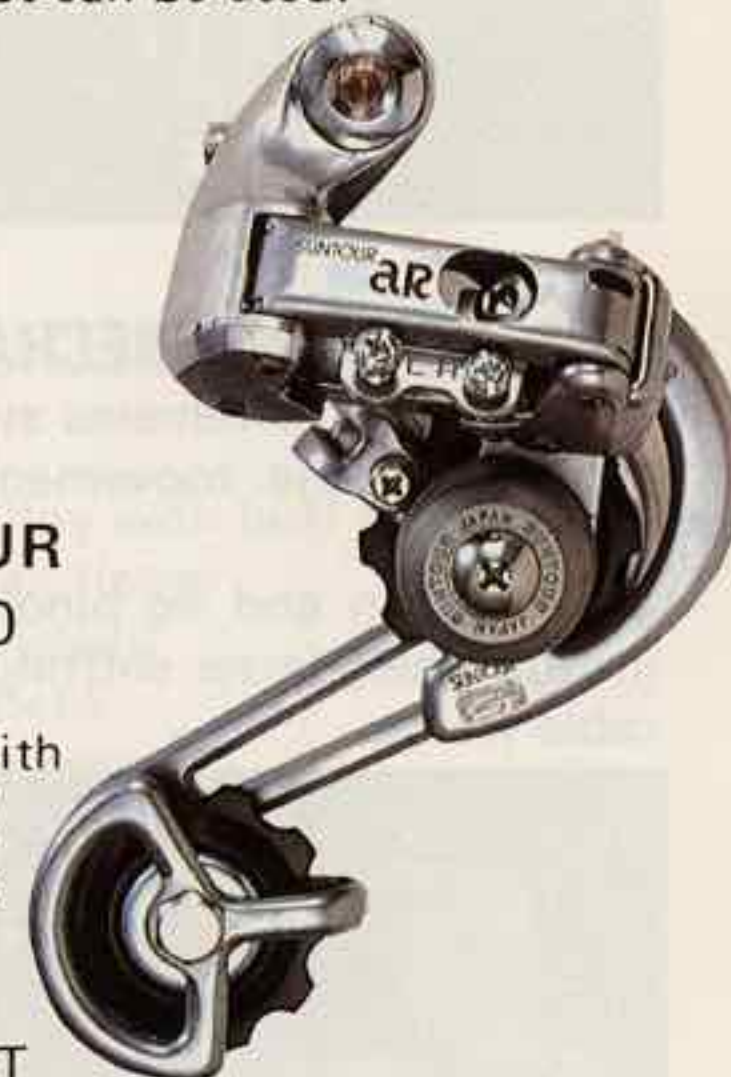
Rear: Largest sprocket 34T

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

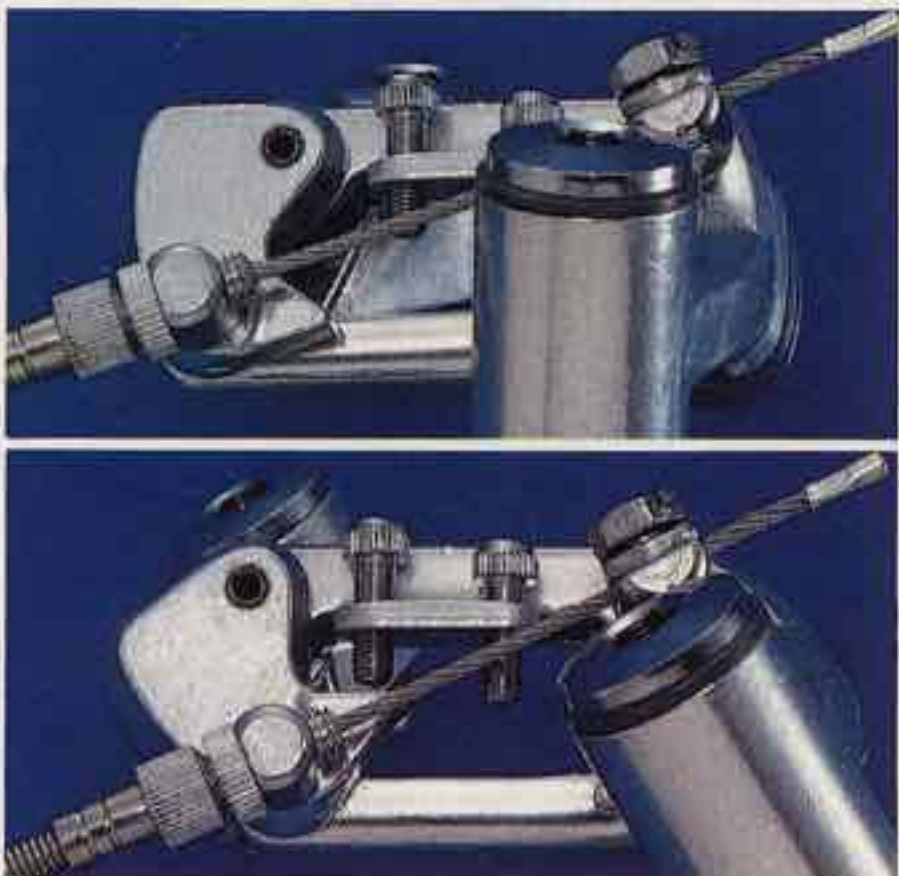
The unique patented slant parallelogram mechanism enables the pulleys to shift diagonally at the same angle as the sprocket during gear change. Uniform clearance is retained between the pulleys and the sprockets, assuring more stable driving and easier shifting. SUNTOUR derailleur are matched in speed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



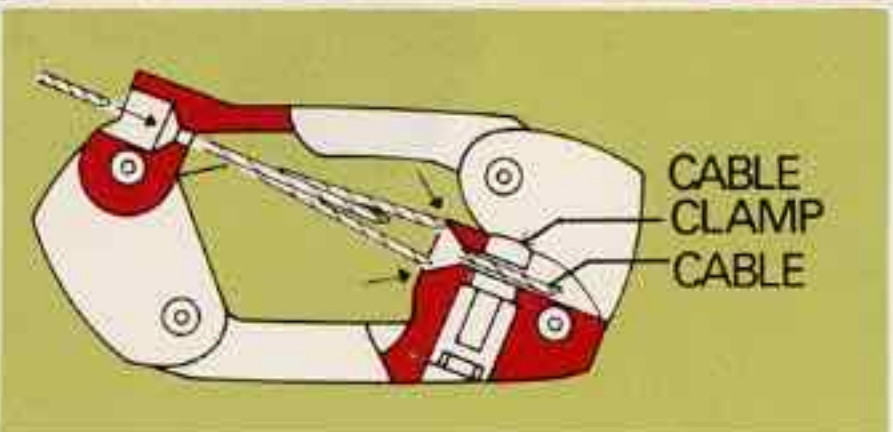
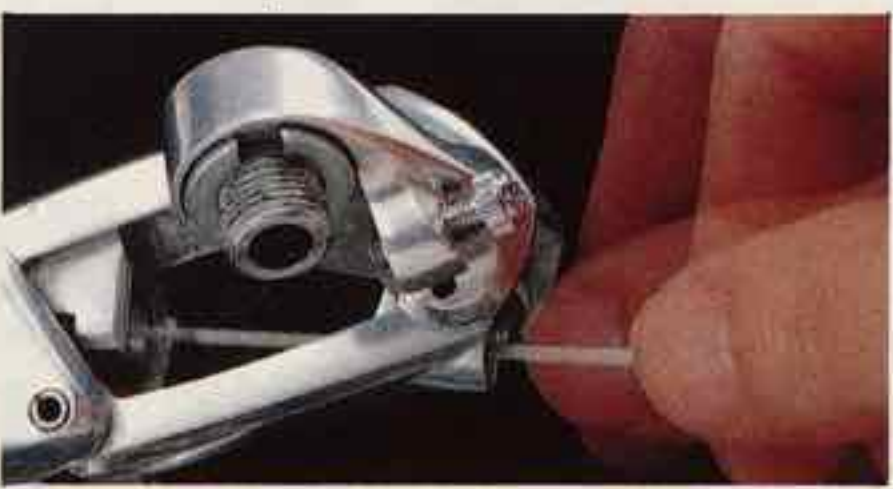
DERAILLEUR PULLEY

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.



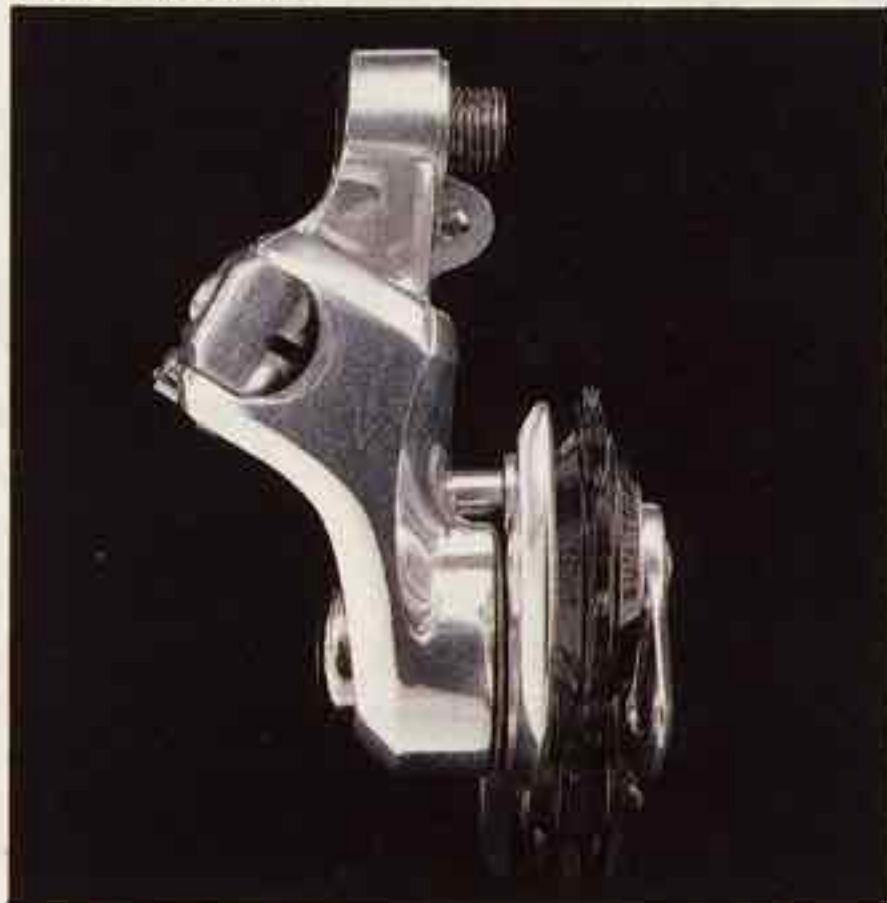
EASY CABLE THREADING

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.



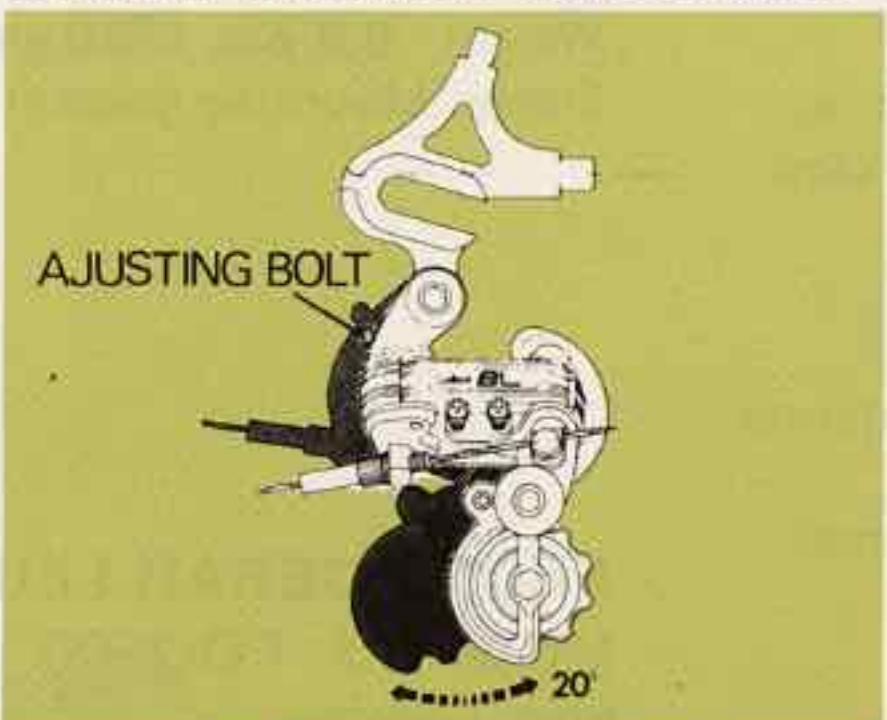
MICROLITE & AERODYNAMICS SHAPE

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.



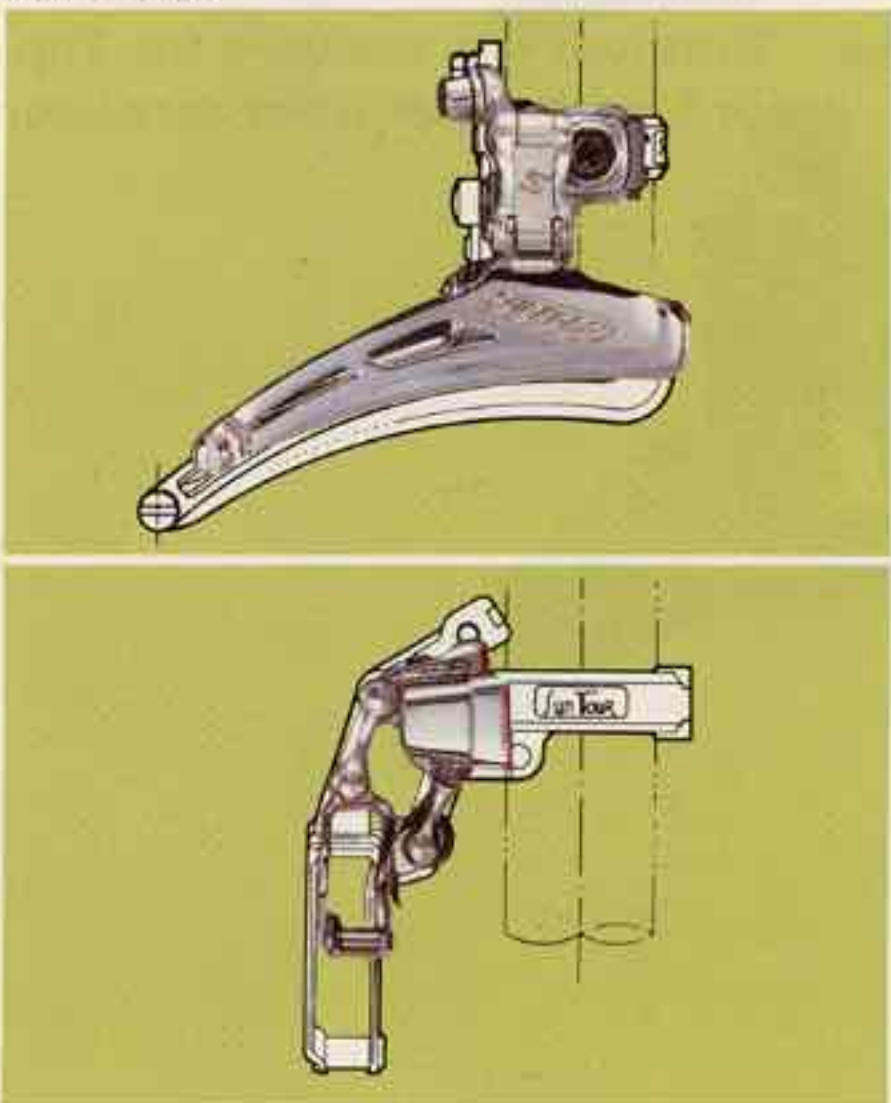
SWINGCAGE

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.



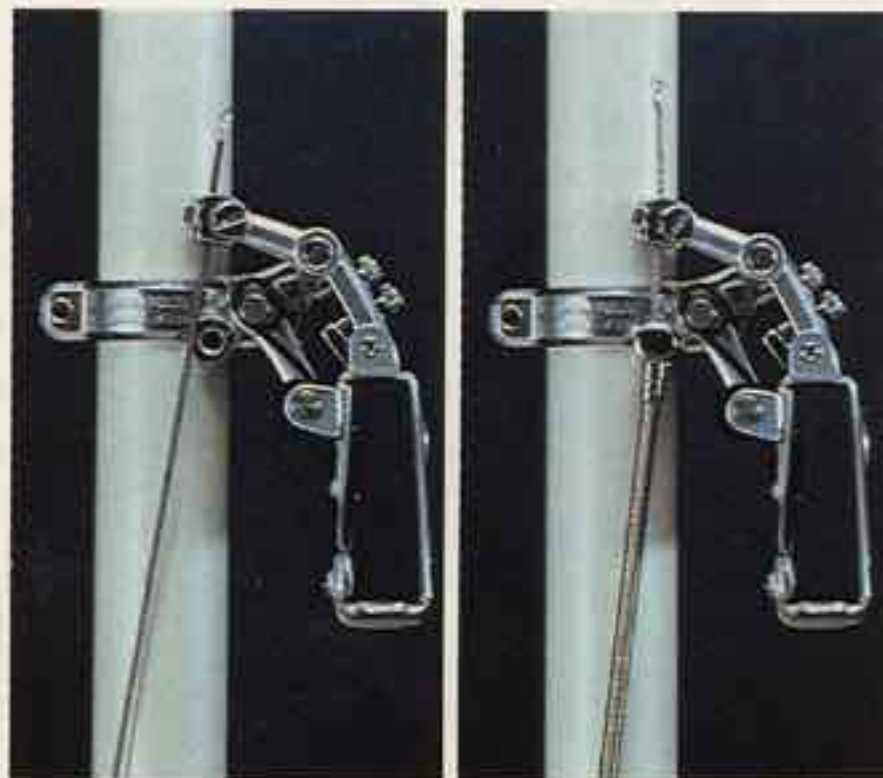
DOUBLE ARM STAINLESS PIVOT

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.



TWO-WAY CABLE SETTING

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



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.



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.



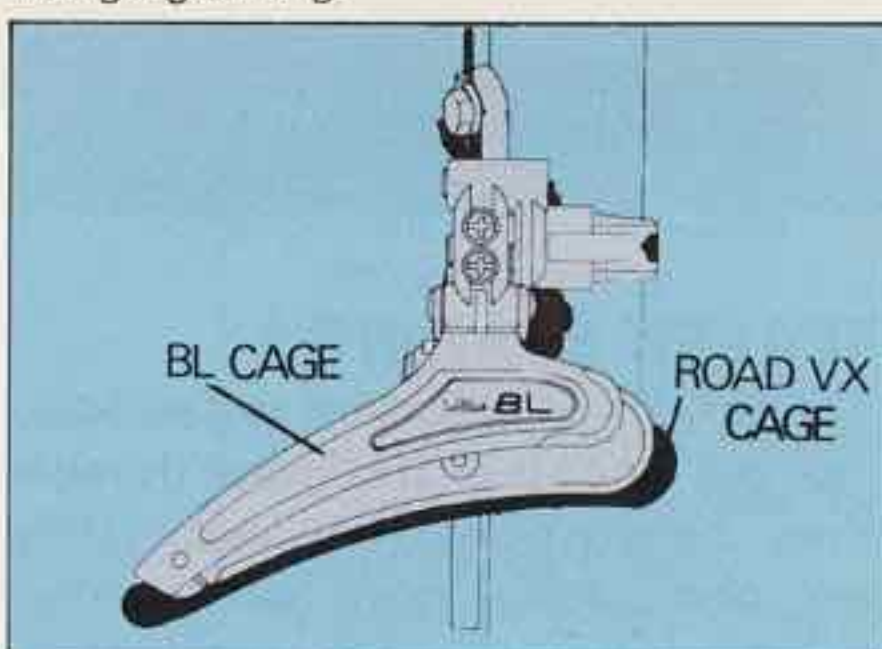
ENDLESS CLAMP MOUNTING

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.



SMALL CAGE/WIDE RANGE

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



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.



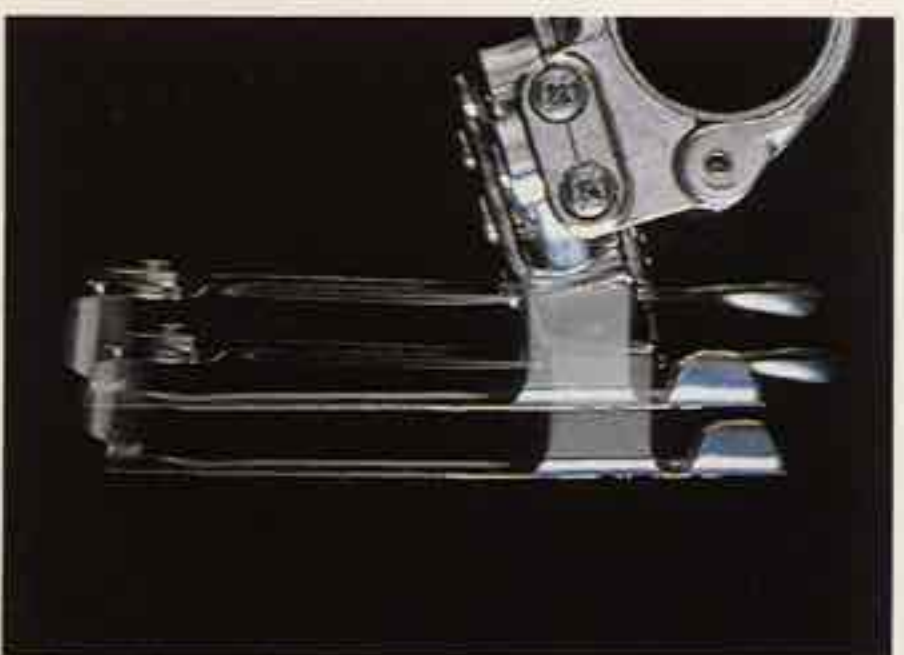
INTERNAL TRAVEL STOPS

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.



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.

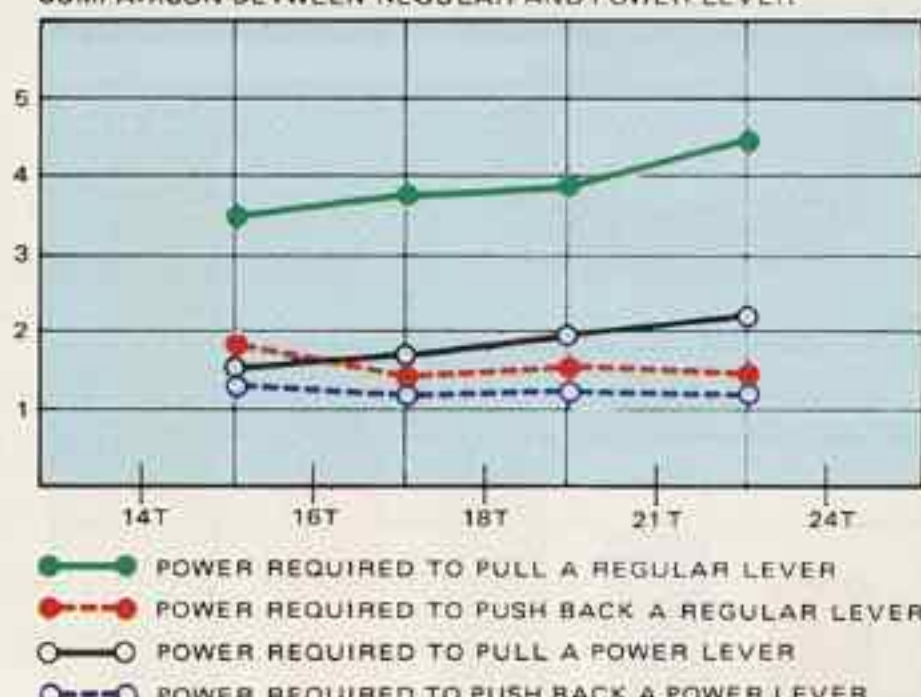


ONE-HAND LEVER ACTION

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.



COMPARISON BETWEEN REGULAR AND POWER LEVER



SYNCHRO-SHIFT MECHANISM

When the chain is shifted from the smallest to the largest sprocket 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 "over-shift," 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 stretching. Serrated cable adjusting bolts provide easy adjustment.



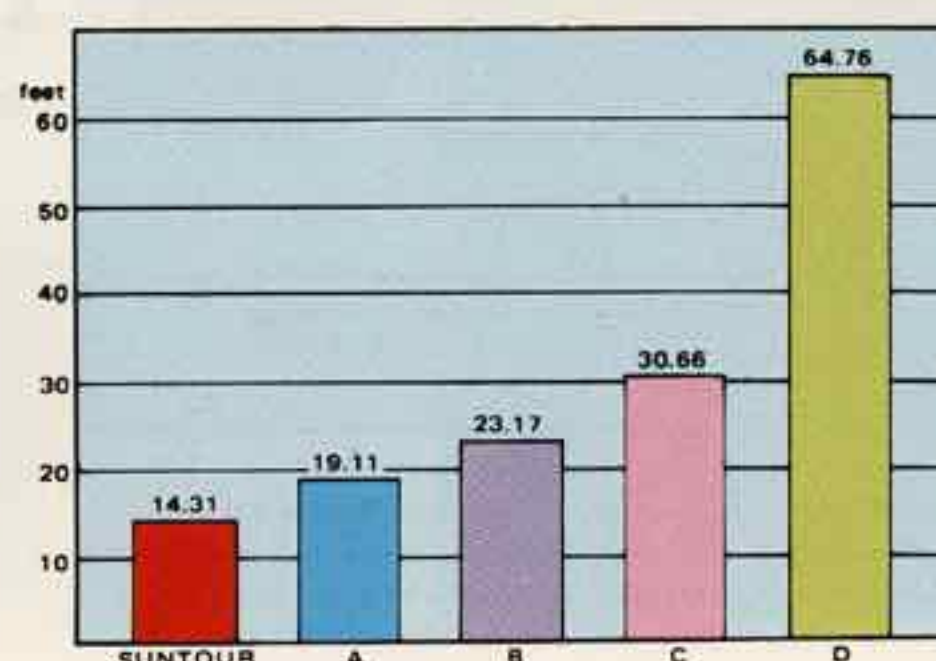
FREE STOPPER QUICK RELEASE

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 water-proof, 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.

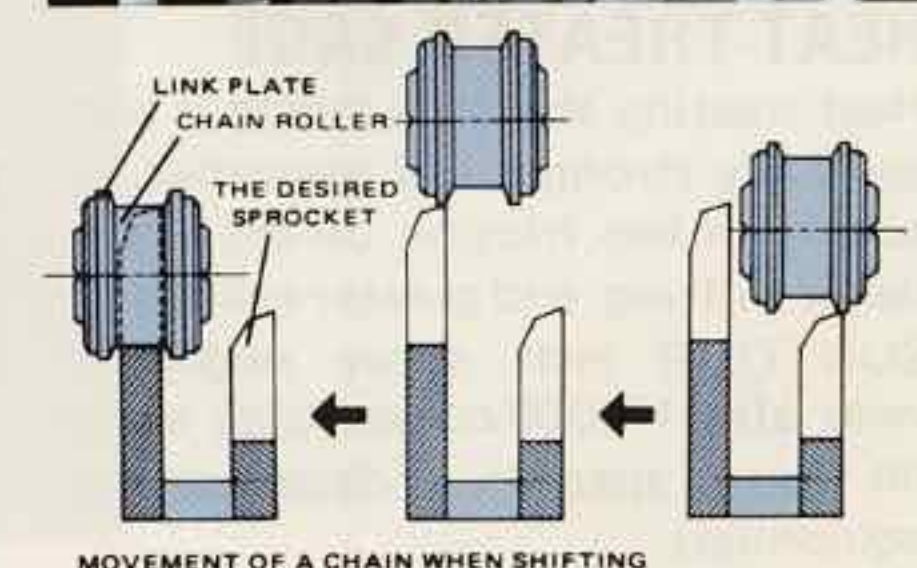
This 5, 6 or 7 speed gear combination capability is possible because of the new body's simple yet precise patented design, the first in the world to have achieved this feature. Another unique feature is the Double Adjusting Nut construction, also found only on SUNTOUR'S New Winner Freewheel, giving precise,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



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 slip-page between gears.

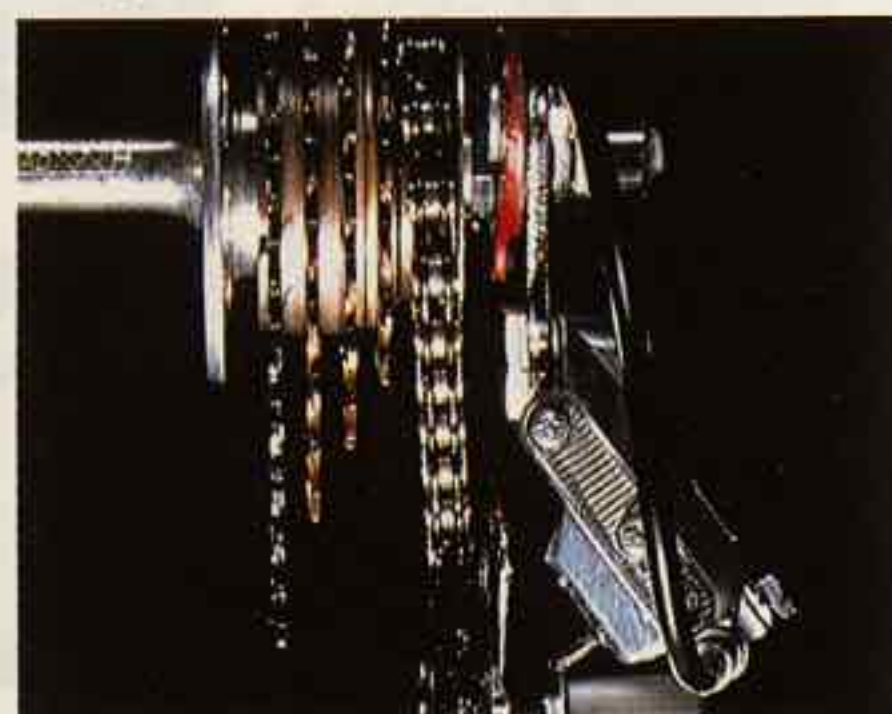
A special hardened finish provides smoother changing.

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 "zigzagged" 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	GEAR CAPACITY					
	FORK ENDS AND BRACKETS				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)			
SUPERBE PRO	C:20T F:10T R:10T	L:23T F:11T R:13T	C:24T F:11T R:13T	C:27T F:13T R:14T		
SUPERBE	C:20T F:10T R:10T	L:23T F:11T R:13T	C:24T F:11T R:13T	C:27T F:13T R:14T		
CYCLONE	C:24T F:14T R:10T	L:24T F:14T R:10T	C:24T F:14T R:10T	C:26T F:12T R:14T		
CYCLONE GT	C:36T F:18T R:18T	L:32T F:18T R:18T	C:36T F:18T R:18T	C:36T F:16T R:20T		
CYCLONE M-II	C:28T F:15T R:13T	L:26T F:13T R:15T	C:28T F:13T R:15T	C:28T F:11T R:17T		
CYCLONE M-II GT	C:34T F:13T R:21T	L:34T F:13T R:21T	C:34T F:13T R:21T	C:34T F:13T R:21T		
BL	C:25T F:15T R:10T	L:24T F:16T R:10T	C:26T F:16T R:10T	C:27T F:13T R:14T		
BL-S	C:30T F:18T R:12T	L:26T F:16T R:14T	C:30T F:16T R:14T	C:30T F:14T R:16T		
BL-GT	C:36T F:16T R:20T	L:34T F:14T R:20T	C:34T F:14T R:20T	C:36T F:16T R:20T		
ARX	C:28T F:15T R:13T	L:26T F:13T R:15T	C:28T F:13T R:15T	C:28T F:11T R:17T		
ARX-GT	C:32T F:12T R:20T	L:34T F:12T R:20T	C:32T F:12T R:20T	C:32T F:12T R:20T		
Vx	C:24T F:12T R:12T	L:26T F:10T R:14T	C:24T F:10T R:14T	C:24T F:8T R:16T		
Vx-S	C:28T F:16T R:12T	L:26T F:16T R:14T	C:30T F:16T R:14T	C:32T F:16T R:16T		
Vx-GT	C:34T F:14T R:20T	L:34T F:16T R:20T	C:36T F:16T R:20T	C:36T F:16T R:20T		
VGT	C:34T F:18T R:16T	L:30T F:14T R:20T	C:34T F:14T R:20T	C:38T F:18T R:20T		
AR	C:28T F:16T R:12T	L:26T F:14T R:14T	C:28T F:14T R:14T	C:28T F:12T R:16T		
AR-GT	C:32T F:12T R:20T	L:34T F:12T R:20T	C:32T F:12T R:20T	C:32T F:12T R:20T		
AG	C:37T F:17T R:20T	L:34T F:18T R:20T	C:38T F:18T R:20T	C:40T F:16T R:24T		
SEVEN	C:26T F:14T R:12T	L:26T F:16T R:12T	C:28T F:16T R:12T	C:28T F:12T R:16T		
SEVEN GT	C:32T F:12T R:20T	L:34T F:12T R:20T	C:32T F:12T R:20T	C:32T F:12T R:20T		
VOLANTE	C:25T F:13T R:12T	L:26T F:13T R:14T	C:27T F:13T R:14T	C:29T F:13T R:16T		
HONOR				Non step. 34.5 m/m	C:28T F:12T R:16T	With step. 34 m/m C:30T F:14T R:16T
GT				Non step. 34.5 m/m	C:36T F:16T R:20T	With step. 34 m/m C:36T F:16T R:20T
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 DERAILEUR

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 DERAILEUR 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 DERAILEUR

Model: FD-2050

Specifications

Material: Light alloy (Body) Steel (Chain guide) with heat treatment and chromium plating

Gear capacity: 14T

Mechanism: Parallelogram, Low normal

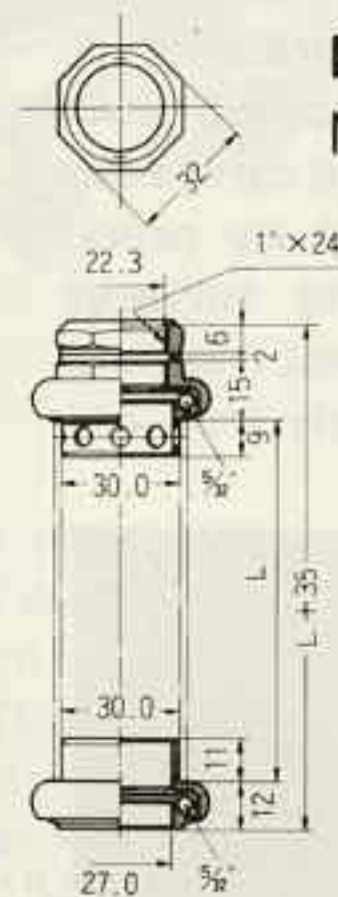
Mounting method: Braze on

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)

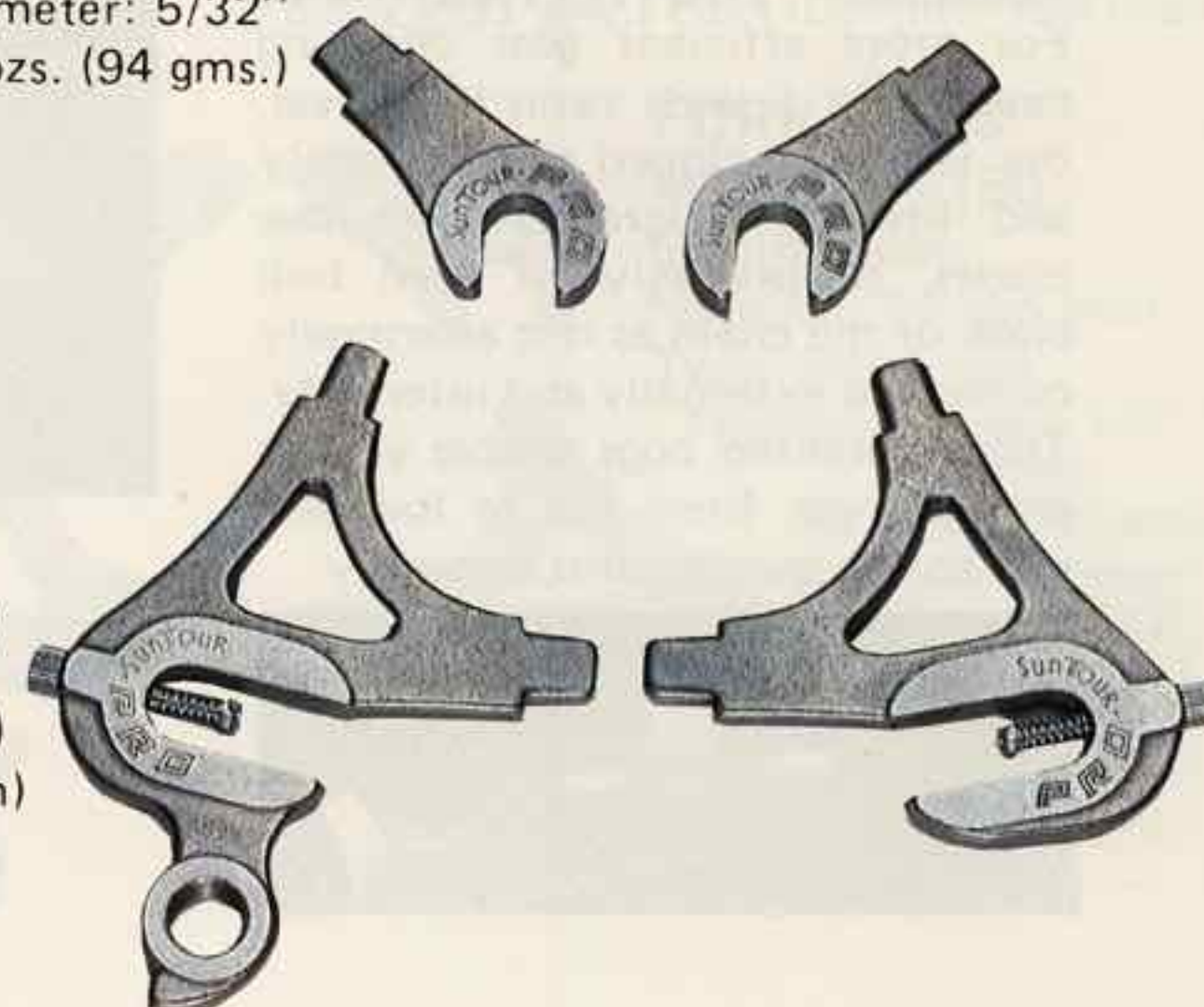
Rear 9/32" (7 mm)

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

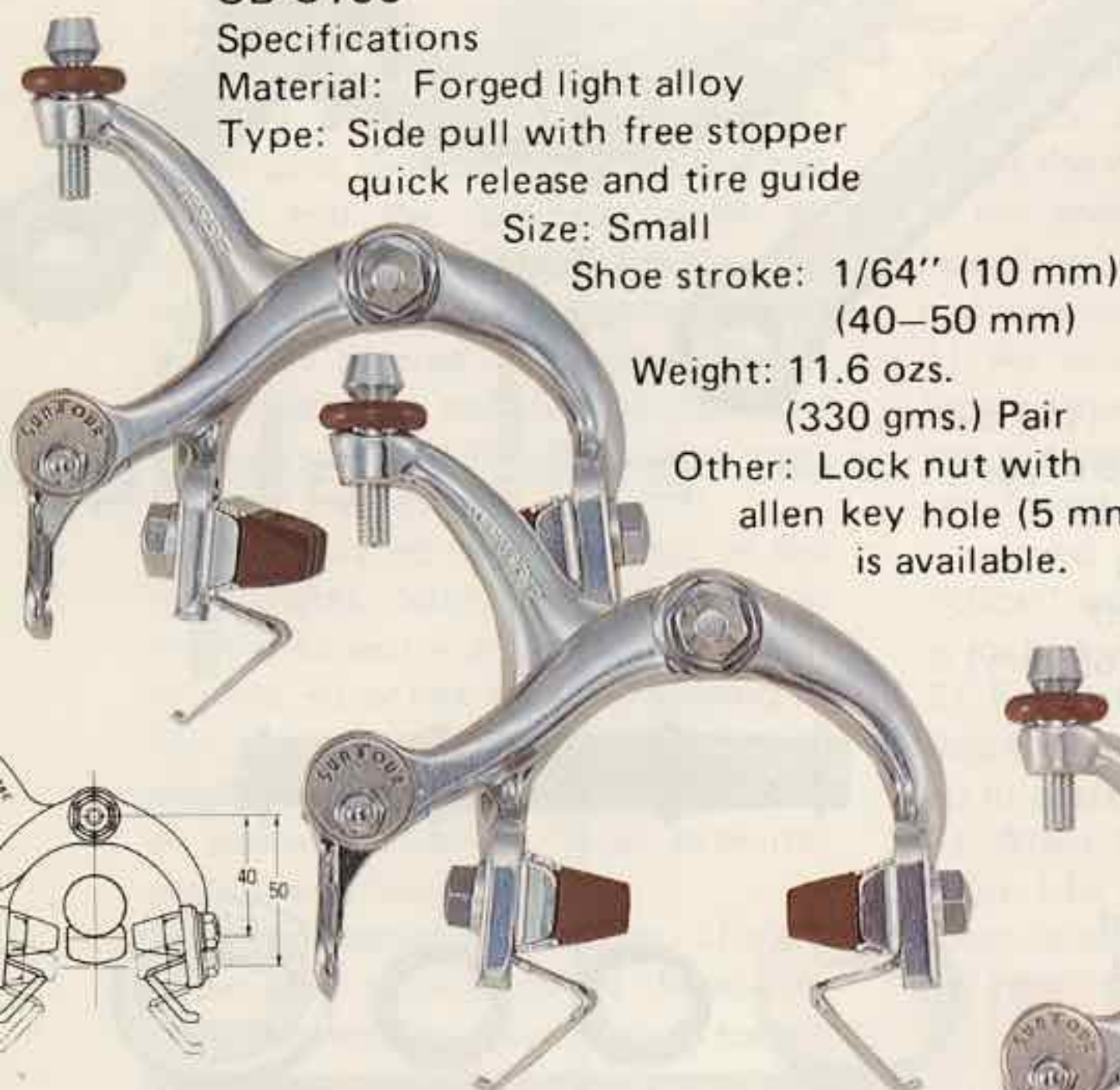
Specifications

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



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

CALIPER BRAKES

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

Specifications

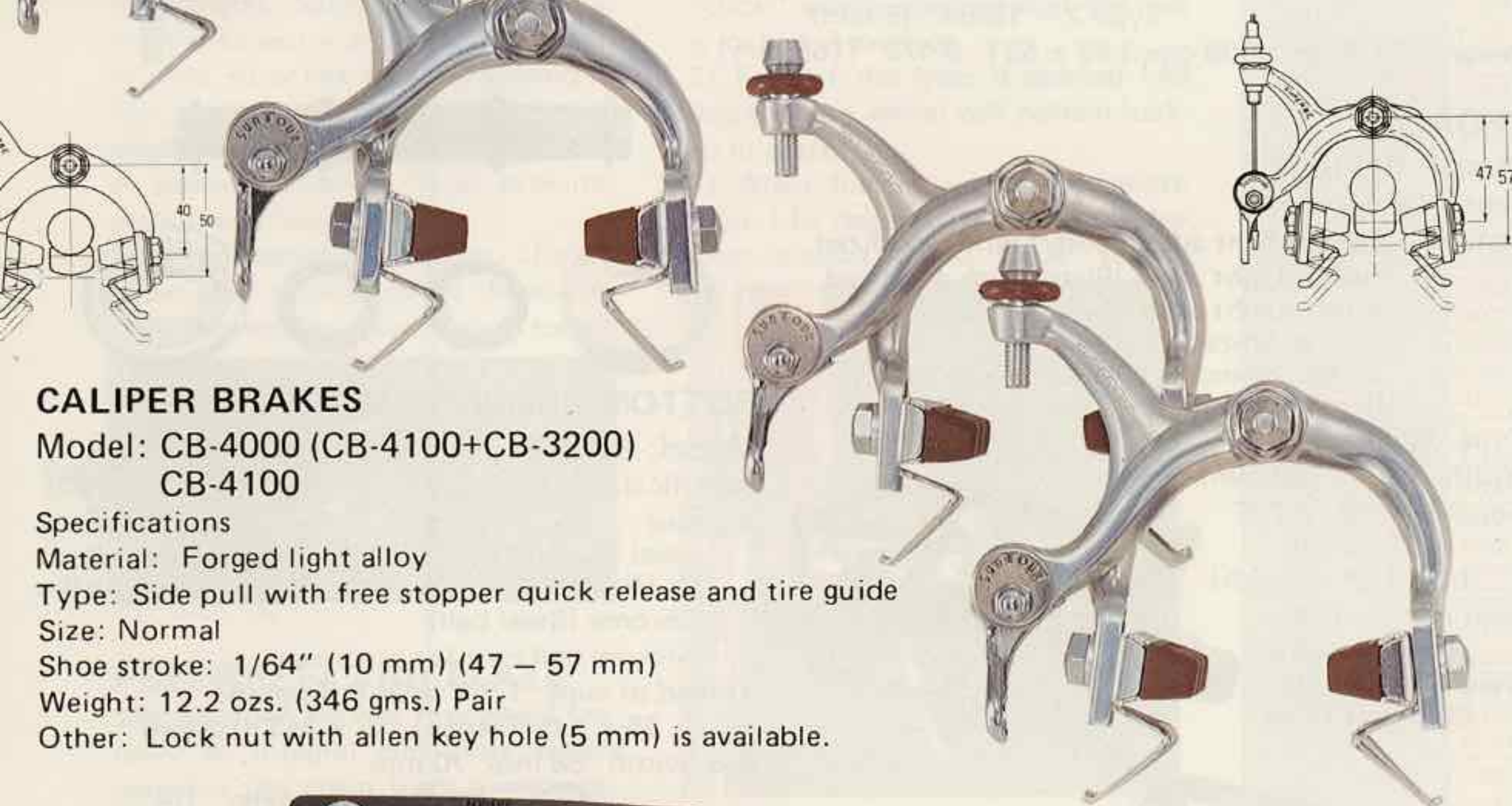
Material: Forged light alloy

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.



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)



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

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)

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" (120 mm) (5, 6-speed)

4-15/16" (126 mm) (6, 7-speed)

Steel ball diameter: Front 3/16", Rear 1/4"

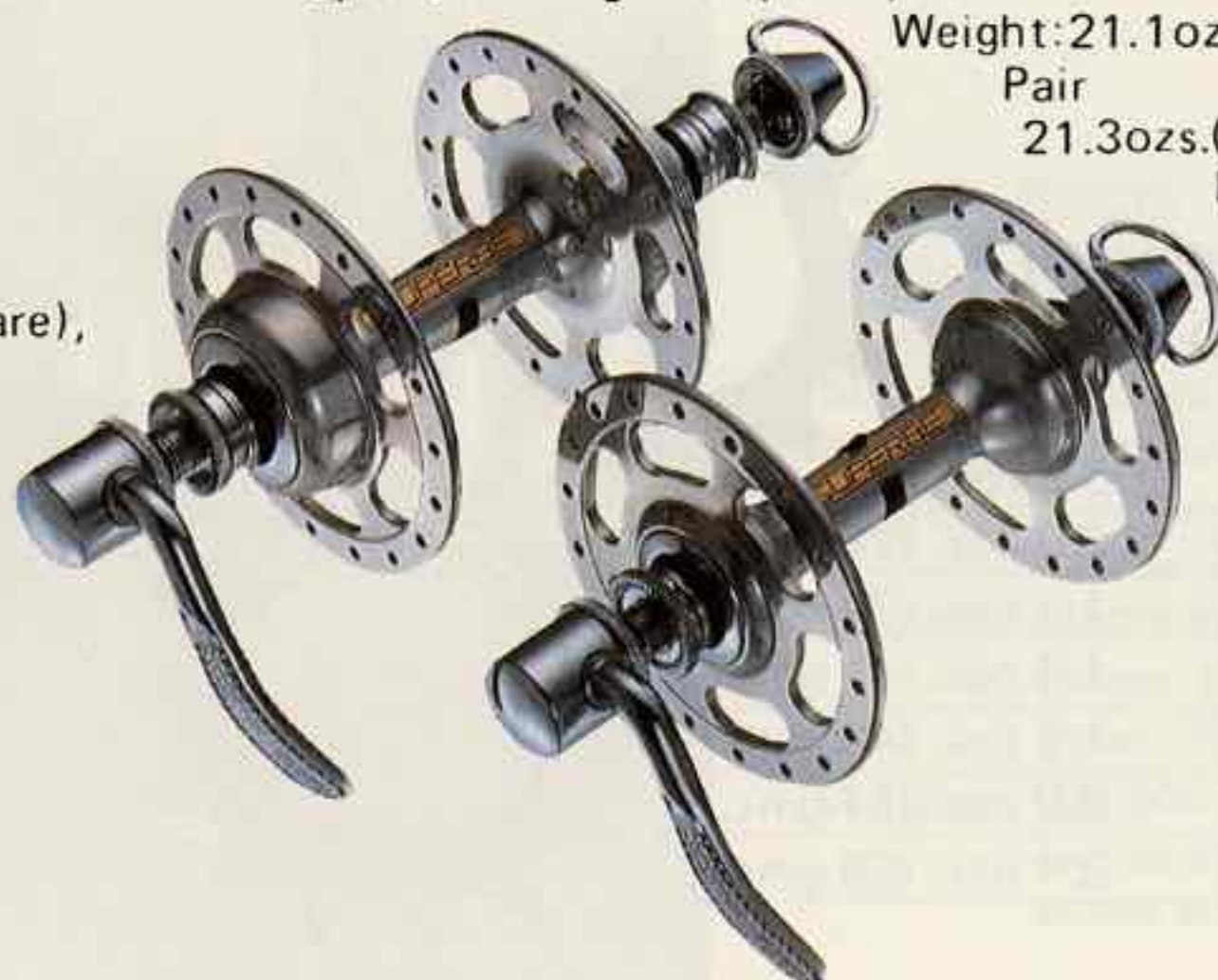
Spoke drilling: 28H, 32H, 36H

Weight: 21.1 ozs. (599 gms.)

Pair

21.3 ozs. (604 gms.)

Pair with lever cap



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" (126 mm) (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)

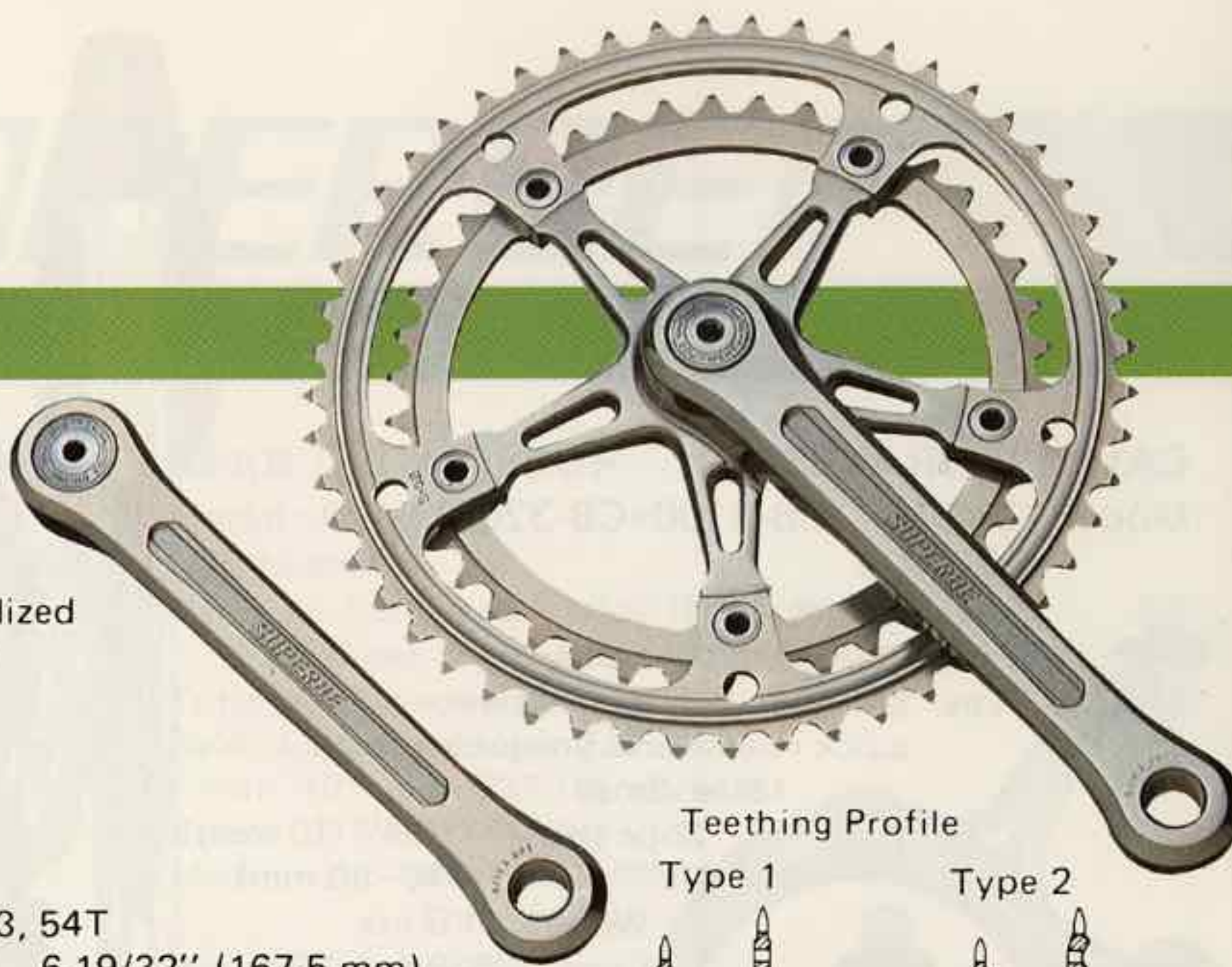
Rear 9/32" (7 mm)

Hub axle diameter:

Front 11/32" (9 mm)

Rear 13/32" (10 mm)

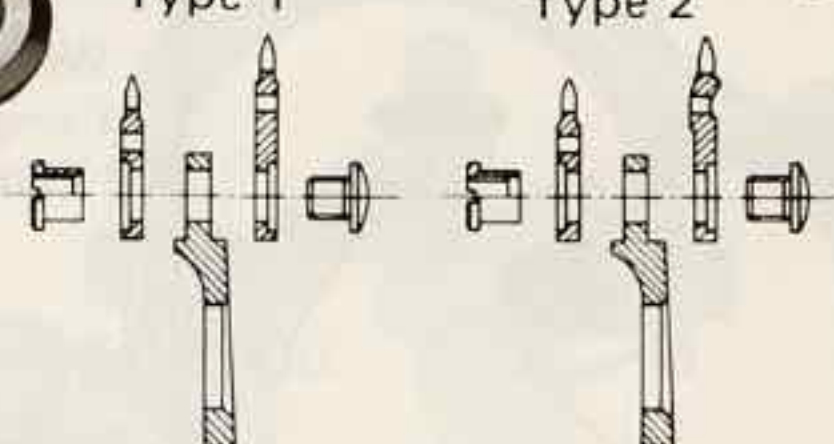
Weight: 7.9 ozs. (223 gms.)



Teething Profile

Type 1

Type 2



BOTTOM BRACKET SET

Model: BB-100

Specifications

Material: Nickel chrome steel (Spindle)

Cr-Mo (Bolt)

Chrome (Steel ball)

Ground ball race for precision

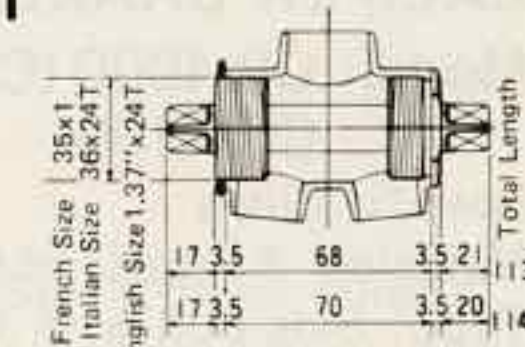
Thread of cups: 1.37" x 24T (English),

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.)



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.)

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)

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

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)

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

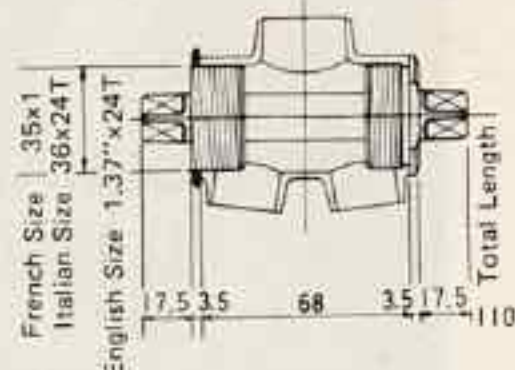
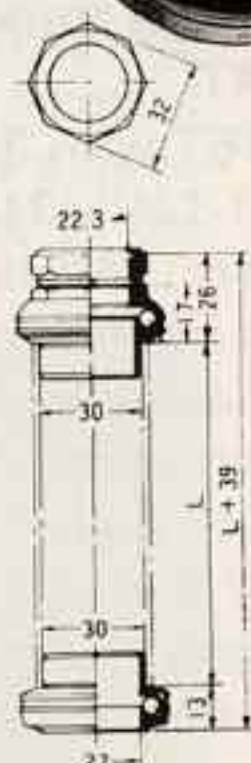
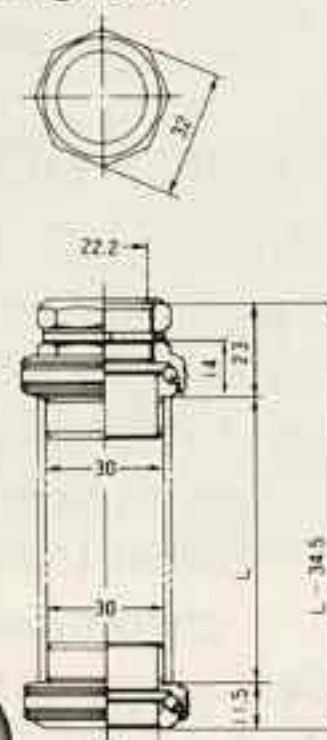
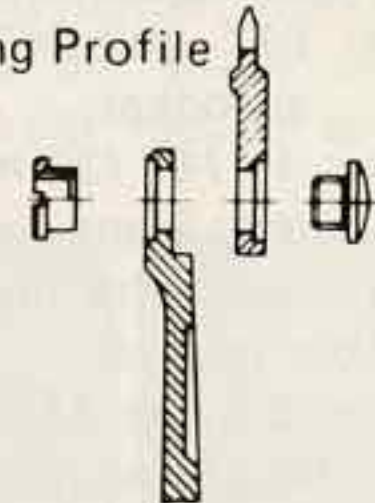
Type	Weight
For 12T	0.7 ozs. (21 gms.)
For 13T - 17T	0.5 ozs. (15 gms.)

Use: Track hub only

Material: Steel

Thread: 1.29" x 24T (English)

Teething Profile



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

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



REAR DERAILLEUR

Model: RD-3600 (S)

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 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-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.)



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-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



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.



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.)



CYCLONE BLACK SERIES



ROADVx

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 bracket 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.

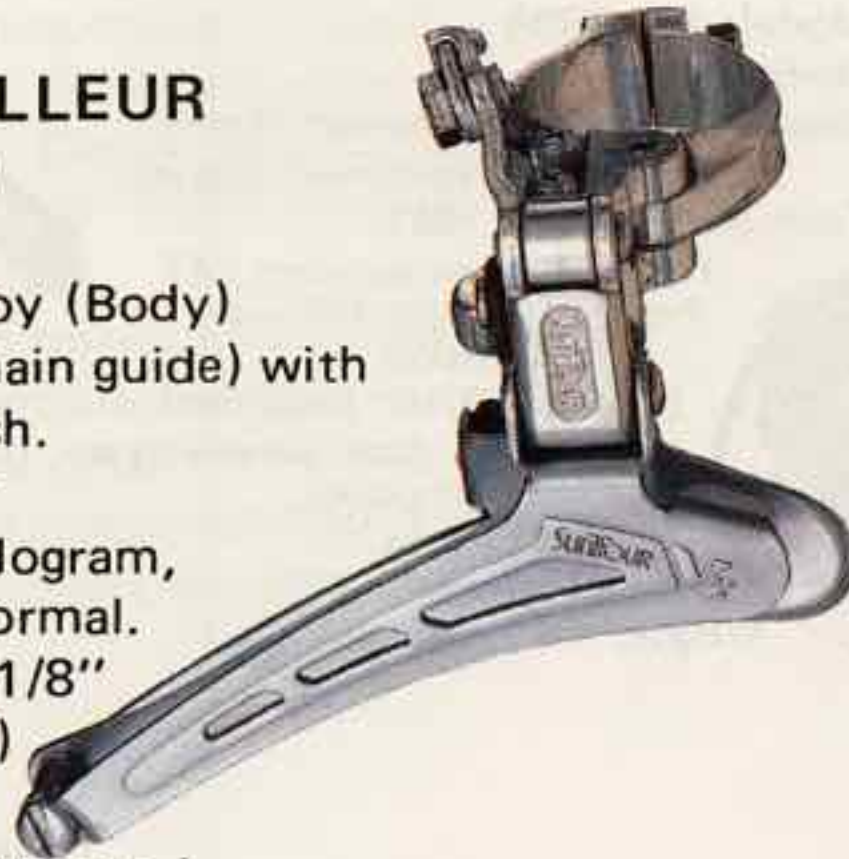
Gear capacity: 15T

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-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



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

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)

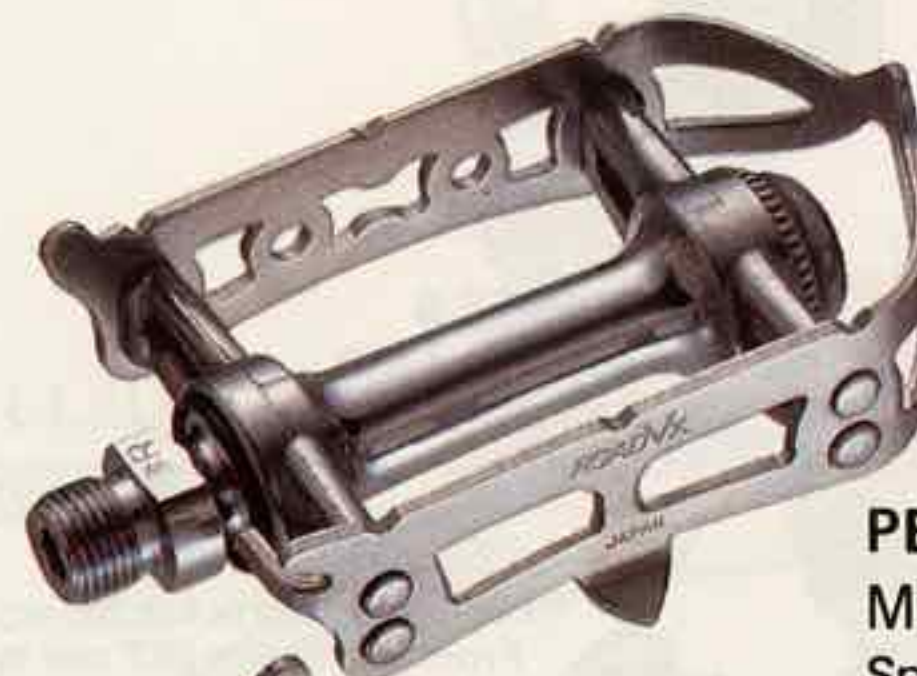
Type: Universal type/Double lever

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

FRONT DERAILLE



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.



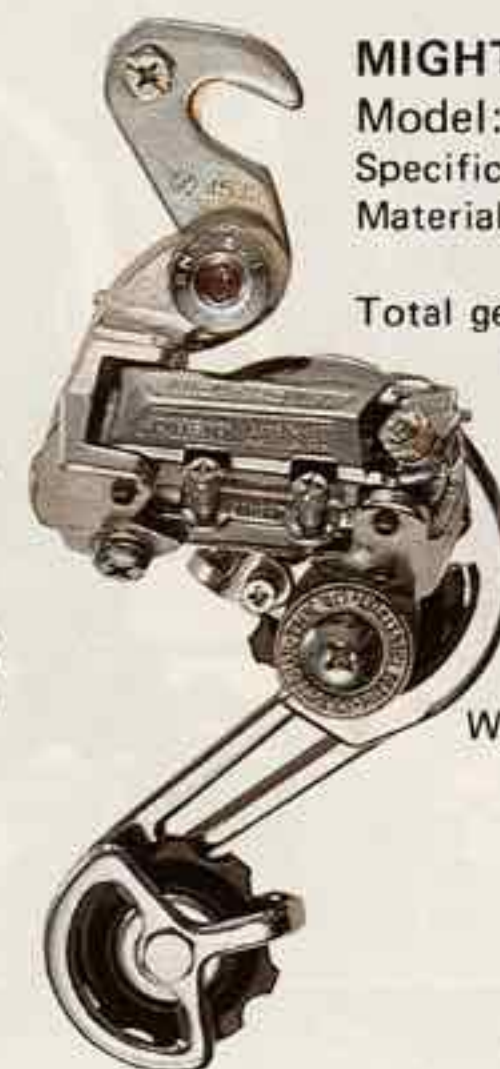
MIGHTY CLICK
Model: RD-2700
Specifications
Material: Light alloy/Die cast (Frame)
Steel with chromium plating
Total gear capacity: 22T
Rear: Largest sprocket 30T
Front: 14T with 30T rear sprocket.
Stroke: 1-3/16" (30.5 mm)
Mechanism: Slant Parallelogram
With wire saver, Quick cage,
Top normal
Weight: 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.)



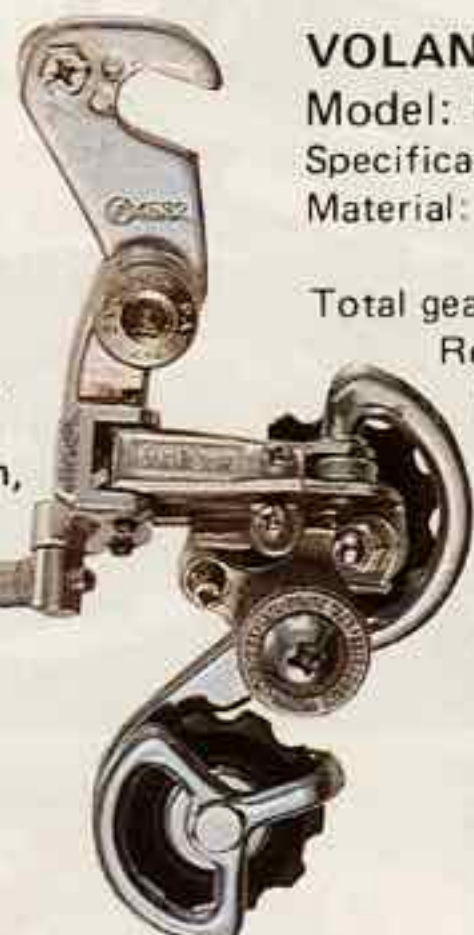
SEVEN GT
Model: RD-2000
Specifications
Material: Light alloy/Die-cast (Frame)
Steel with chromium plating
Total gear capacity: 32T
Rear: Largest sprocket 34T
Front: 12T with 34T rear sprocket.
Stroke: 1-1/4" (31 mm)
Mechanism: Slant parallelogram,
Straight wire mechanism,
Quick cage,
Top normal
Weight: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



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.)



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



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.)
 Other: 6 mm Allen key is used



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

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.



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



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

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.

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.)



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 ozs. (143 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 white) can be attached. With lever cap

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.

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.)



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



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.)

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.)

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.)



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



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 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.)



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

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" 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 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" (120 mm)
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 with lock 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



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



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



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

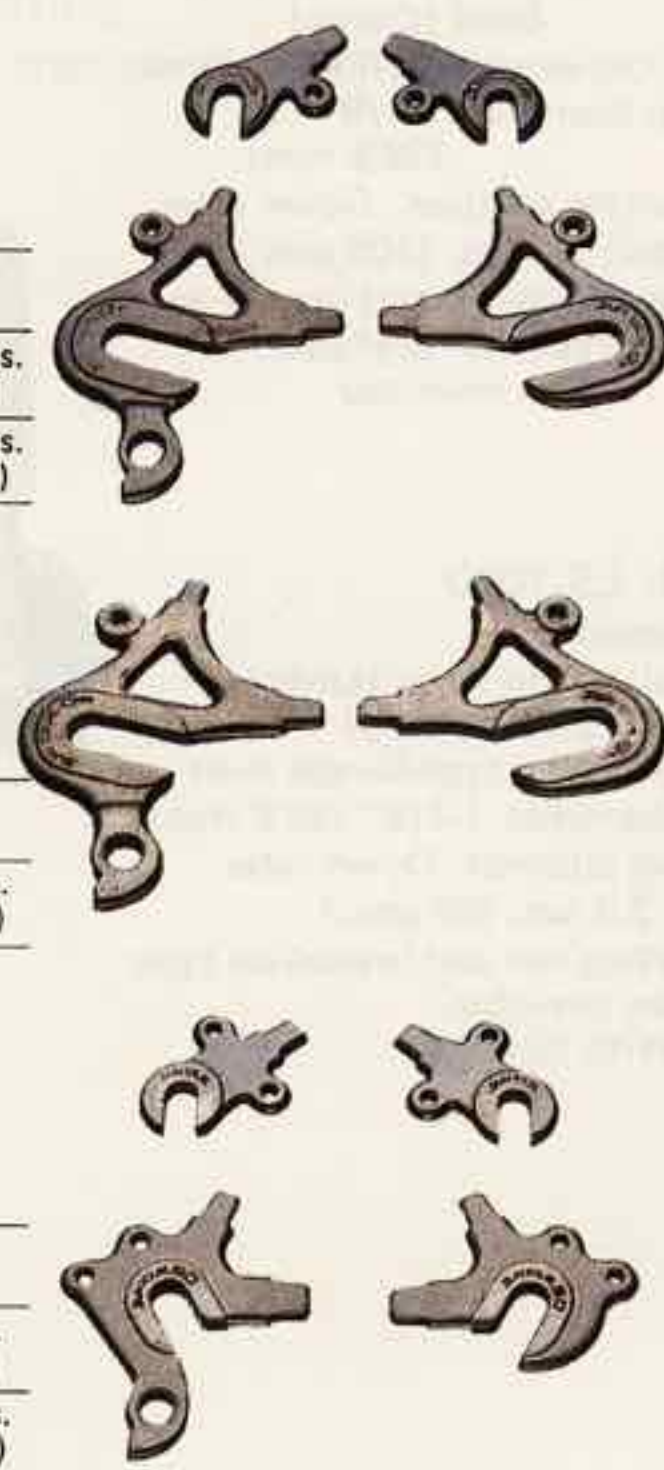
	Thick-ness	Hub axle diameter	Weight
Front	1/4" (6 mm)	3/8" (9 mm)	1-3/4 ozs. (49 gms.)
Rear	9/32" (7 mm)	13/32" (10 mm)	3-13/16 ozs. (108 gms.)

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.



SunTour, U.S.A., Inc.

10 Madison Road
Fairfield N.J. 07006 U.S.A.
Tel: (201) 575-1128
Telex: 136397
Facsm: (201) 575-4238

MAEDA INDUSTRIES, LTD.

2-1 Minamikoyo-Cho
Sakai, Osaka, Japan
Tel: 0722(38)4561
Telex: 5374-377
Facsm: (0722) 27-9300