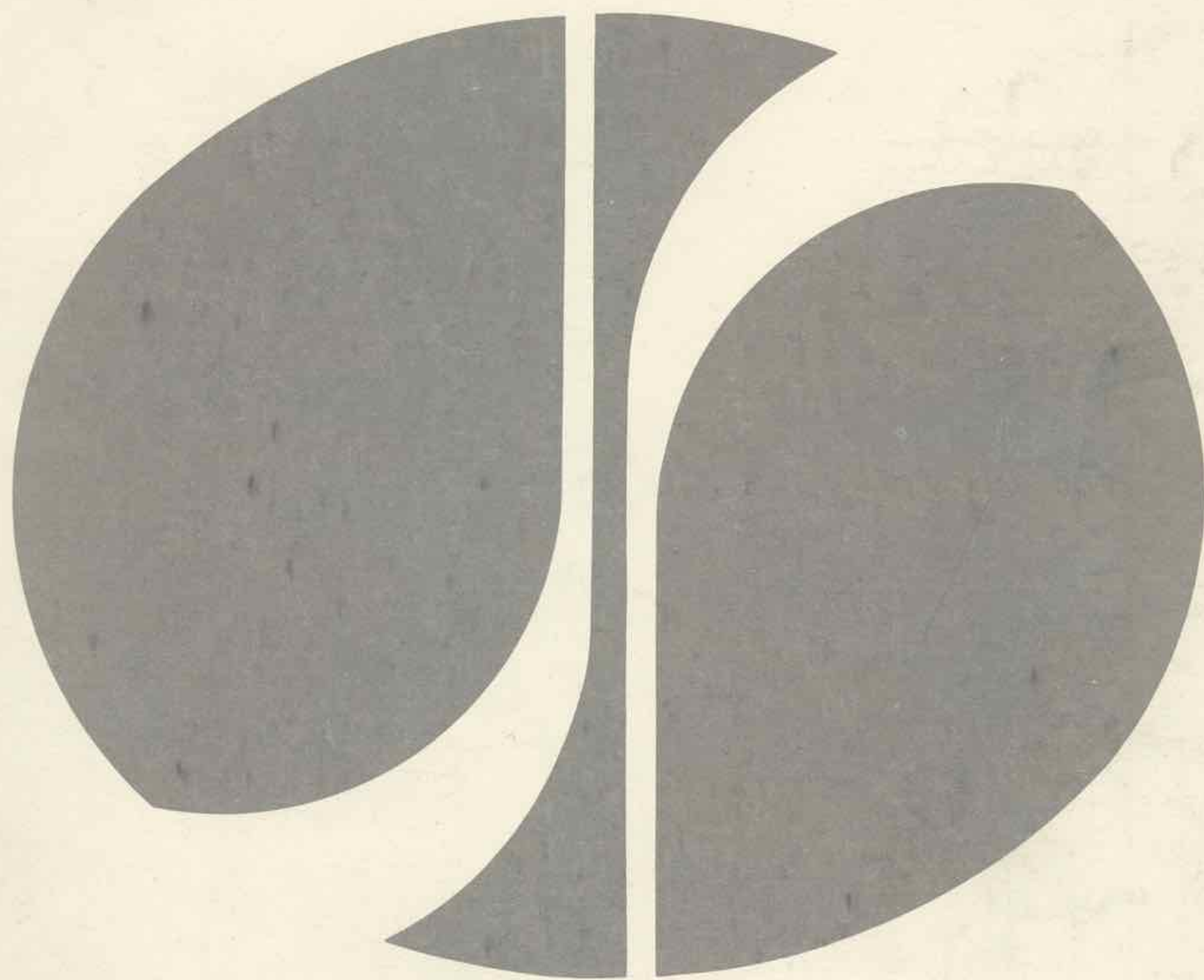


**'74**  
**SHIMANO**  
**BICYCLE PARTS**



**SHIMANO**



**SHIMANO**

**SHIMANO AMERICAN CORPORATION**

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**SHIMANO INDUSTRIAL CO., LTD.**

3-77, Oimatsucho, Sakai, Osaka, Japan  
Tel. 0722-45-0333

Shimano...for half a century  
 Enthusiastic devotion...to bicycles and their parts...  
 Much could be said...  
 But more than mere words...

The products...  
 Speak for themselves...  
 Their "feel"...superb performance...  
 And durability...and gleaming beauty...

A certainty you'll find...  
 Shimano products tell so much...  
 If you...like us...  
 Have that same devoted enthusiasm for bicycles...



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# QUALITY SHIMANO

The word "Quality" in connection with Shimano has a variety of meanings.

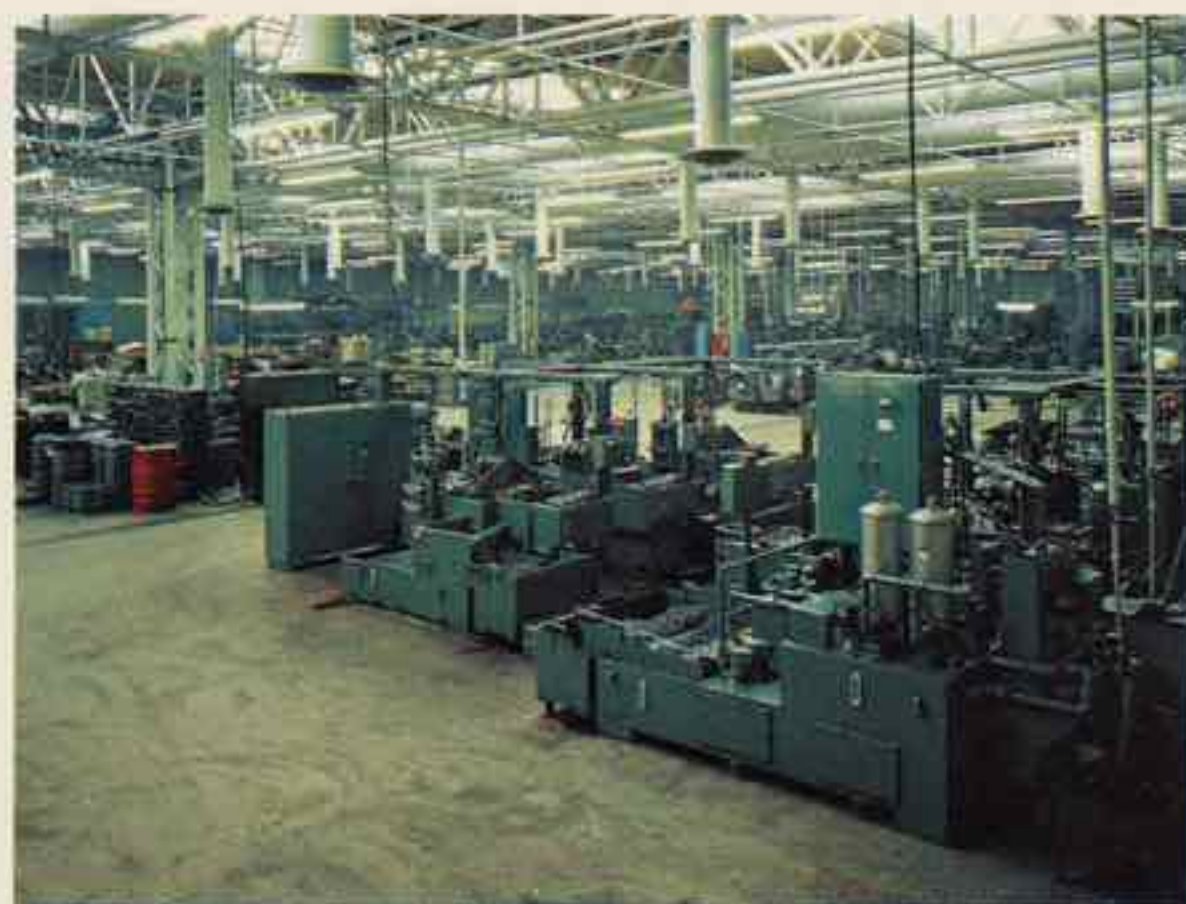
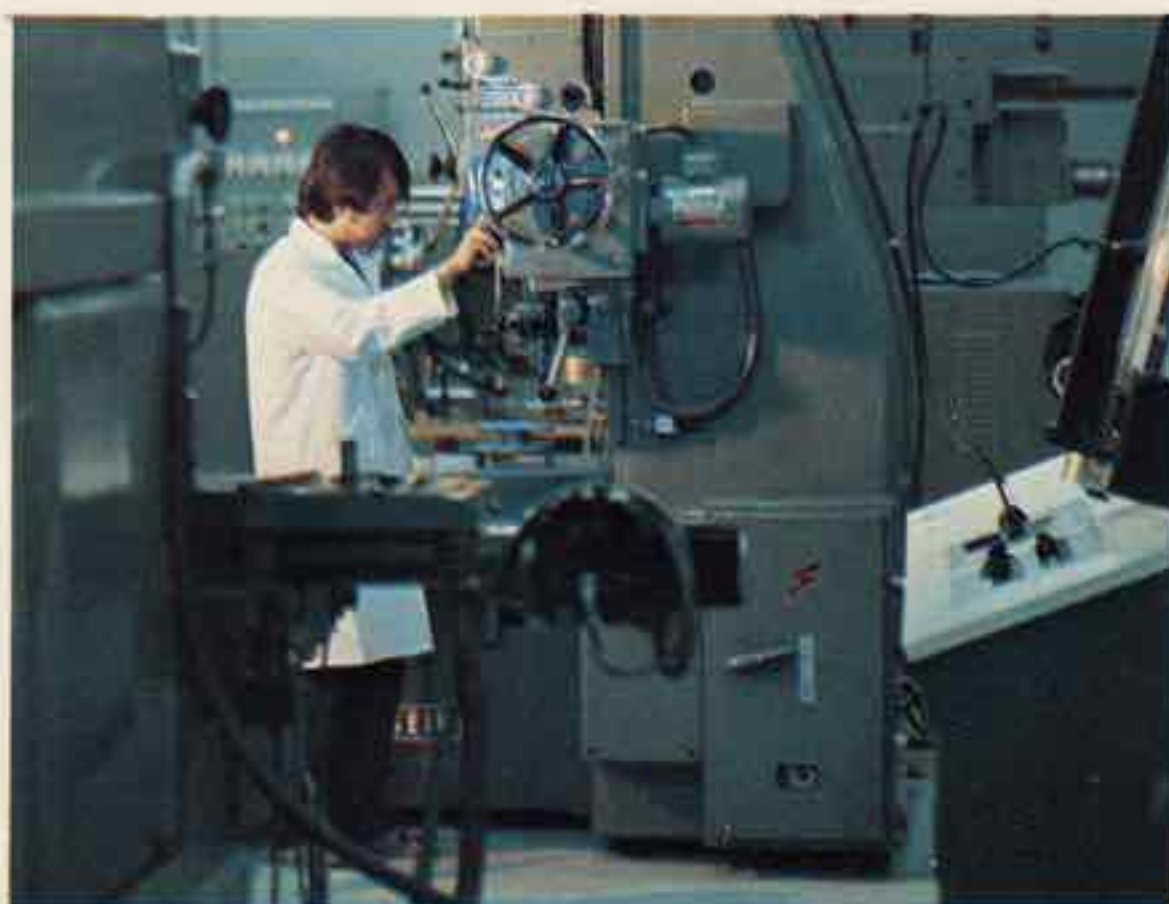
First, of course, is the quality which is inherent in the products themselves...their ever-improved performance and durability, their lightness, their precision, their jewel appearance which bespeaks their quality...All of this quality is found in each Shimano product.

At Shimano...the largest manufacturer of bicycle parts in the world...every single part, even the very tiniest, is produced by the cold forging process. This process assures unusual strength.

Moreover, the reputation and distribution facilities developed by Shimano through many years of marketing experience throughout the world perfectly complements Shimano's

manufacturing strength and expertise. "Quality" and "Strength," however, do not refer simply to manufacturing on a large scale. A deeper, and perhaps even more essential meaning, is the quality and collective strength of the 1,200 employees of Shimano...their devotion and their technical craftsmanship. This is the quality of Shimano in its deepest meaning.

Shimano employees have a feeling for bicycles which might almost be described as a passion. Each man and woman of Shimano brings this devoted care to his labors in the knowledge that the hard-earned respect of Shimano from users around the world depends very directly upon them. This, then, is the core...the not-so-secret ingredient of Shimano quality.



# SHIMANO DUR



The bicycle means different things to different people. It depends upon the depth of their involvement with it. Some find their life work with it. Others find it a healthy and thoroughly enjoyable hobby. The DURA-ACE series of bicycle components from Shimano is a selection of the very best to be found anywhere. Produced with extra infinite care even for Shimano, the DURA-ACE line meets the severest requirements of even the most demanding cyclist...those for which only the best is good enough...for whom any less may mean disaster...such as racers and the most dedicated riding enthusiasts to whom cycling is virtually the center of their life. Every component of the DURA-ACE series includes the very latest improvement, and is made of a special lightweight micro-alloy by Shimano's own special forging process...making them light and durable, and with a finish comparable to that usually given only to fine jewelry. DURA-ACE means...to those who know and demand quality in bicycle components...the very highest in non-compromising value.

# A-ACE SERIES

The peak of quality expectation



# SHIMANO Rear Derailleurs



**Model D-501**

**CRANE**

**SPECIFICATIONS**

Capacity: 28 teeth

Weight: 7.9 oz. (225 g)

Material: Light Alloy

Type: Servo Panta Mechanism

With Adaptor: Model D-500

**SHIMANO**

**CRANE**



**Model D-511**

**CRANE GS**

**SPECIFICATIONS**

Capacity: 34 teeth

Weight: 9.5 oz. (270 g)

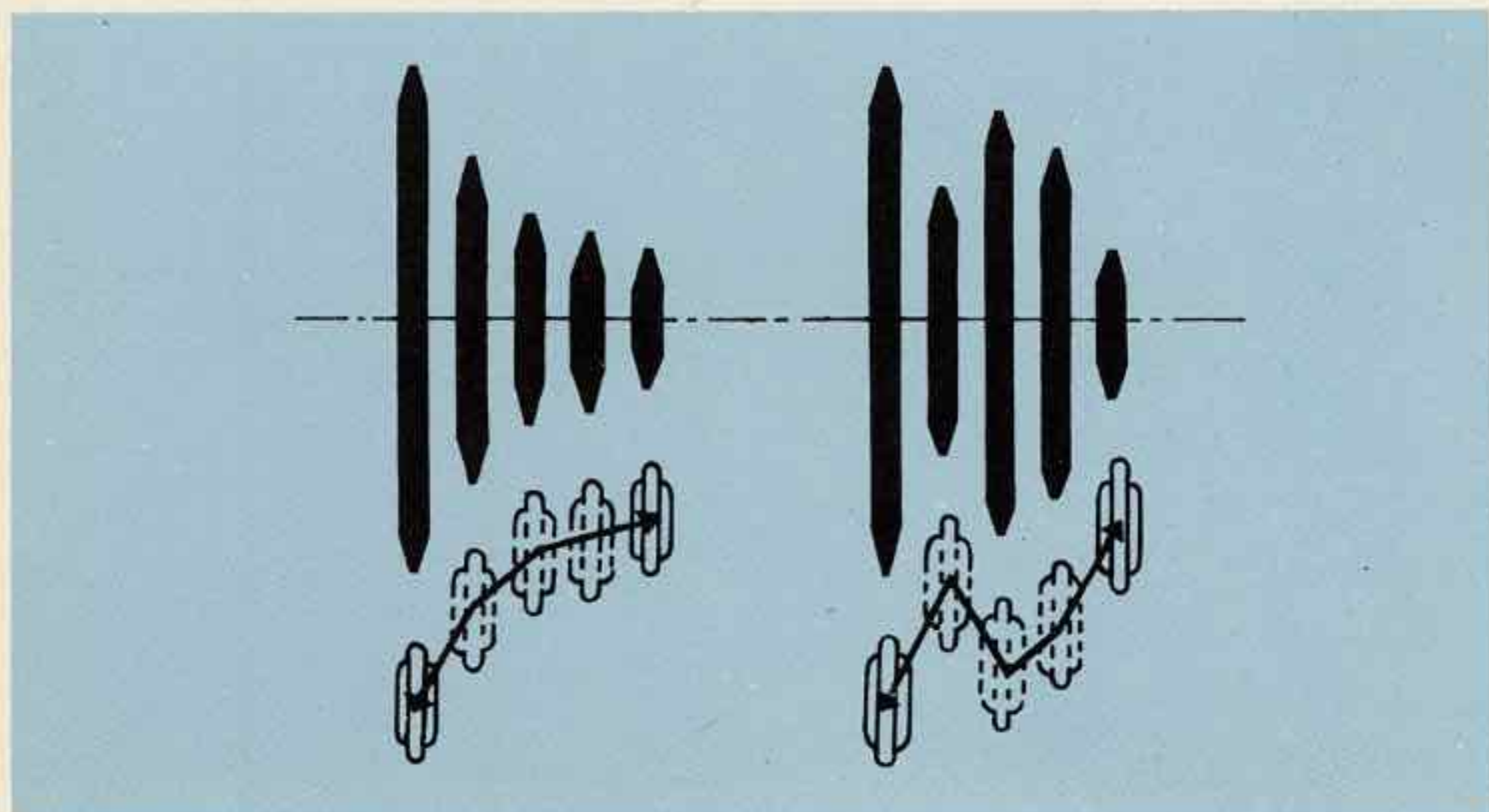
Material: Light Alloy

Type: Servo Panta Mechanism (Long Cage Plate)

With Adaptor: Model D-510

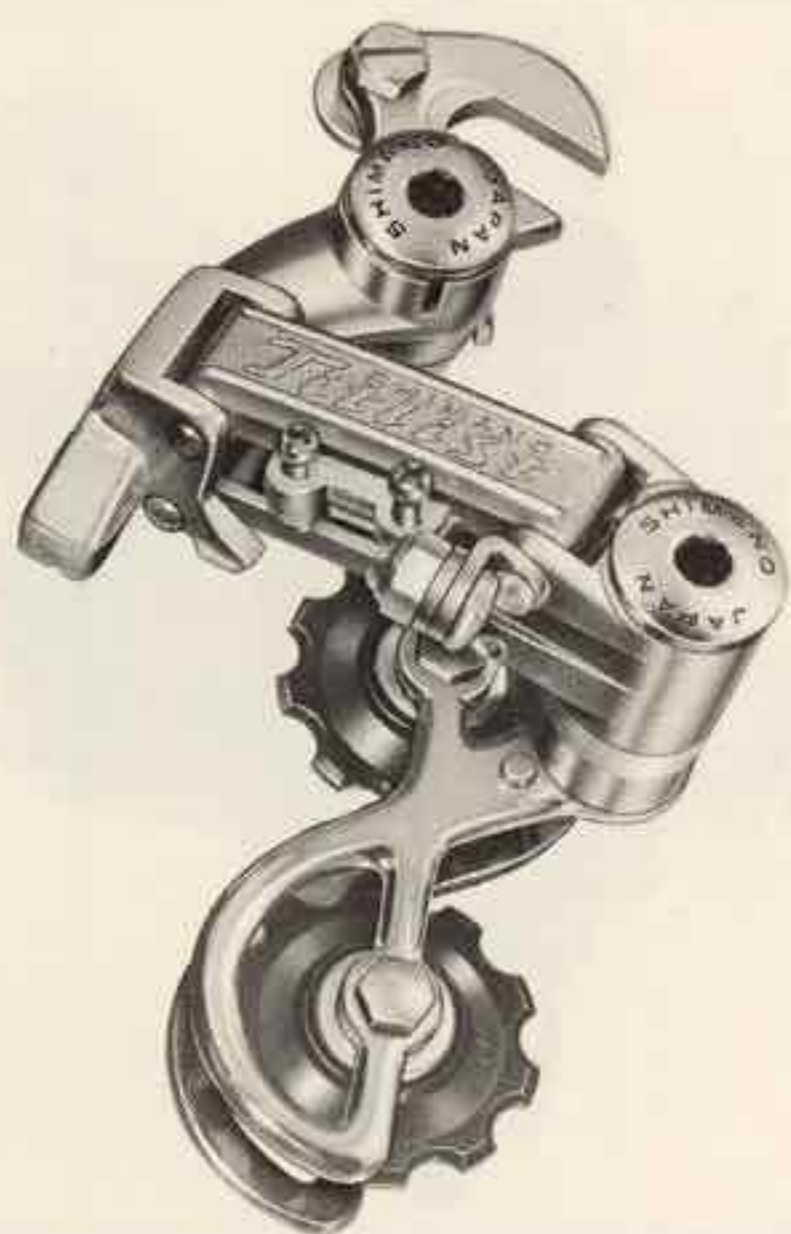
**SHIMANO**

**CRANE GS**



**Servo Panta Mechanism**

With the servo pantograph system, no matter how the teeth are assembled, or even if the front double gear is used, the distance between the sprocket teeth and the guide pulley is always practically the same. The special double oscillation movement of the guide pulley leads the chain, so lever operation is light and gear changes are smooth. The cable saver is included on the Lark and Eagle models.



Model D-600

**Titlist**

**SPECIFICATIONS**

Capacity: 28 teeth

Weight: 9.9 oz. (280 g)

Material: Light Alloy (Body), Steel (Cage Plate)

Type: Servo Pan Mechanism

Without Adaptor: Model D-601



Model D-700

**Journey**

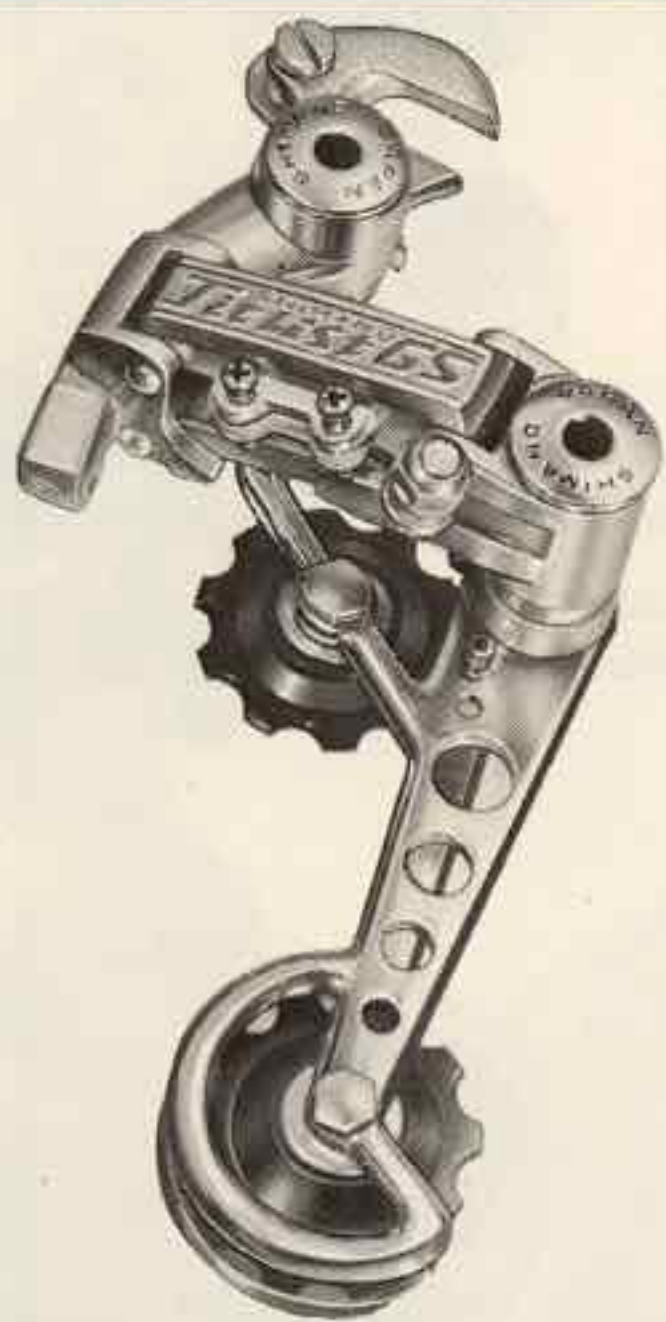
**SPECIFICATIONS**

Capacity: 28 teeth

Weight: 10.6 oz. (300 g)

Material: The Adaptor Member and  
Cage Plate Member are Light Alloy,  
but all Others are Steel.

Without Adaptor: Model D-701



Model D-610

**Titlist GS**

**SPECIFICATIONS**

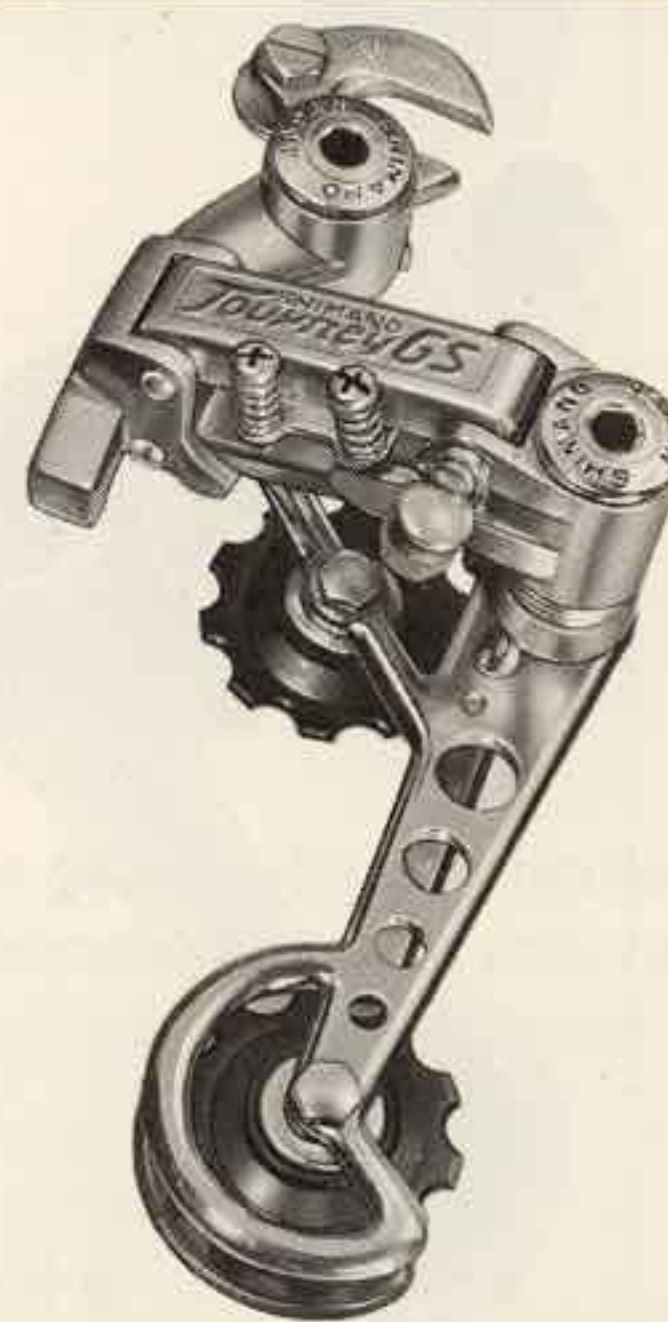
Capacity: 34 teeth

Weight: 10.9 oz. (310 g)

Material: Light Alloy (Body), Steel (Cage Plate)

Type: Servo Pan Mechanism

Without Adaptor: Model D-611



Model D-710

**Journey GS**

**SPECIFICATIONS**

Capacity: 34 teeth

Weight: 11.6 oz. (330 g)

Material: The Adaptor Member and  
Cage Plate Member are of Light Alloy,  
but all Others are Steel.

Without Adaptor: Model D-711

# SHIMANO Rear Derailleurs



Model D-350

**EAGLE**

**SPECIFICATIONS**

Capacity: 34 teeth

Weight: 12.3 oz. (350 g)

Material: Steel

With Cable Saver and Derailleur Guard.



Model D-360

**EAGLE SPO**

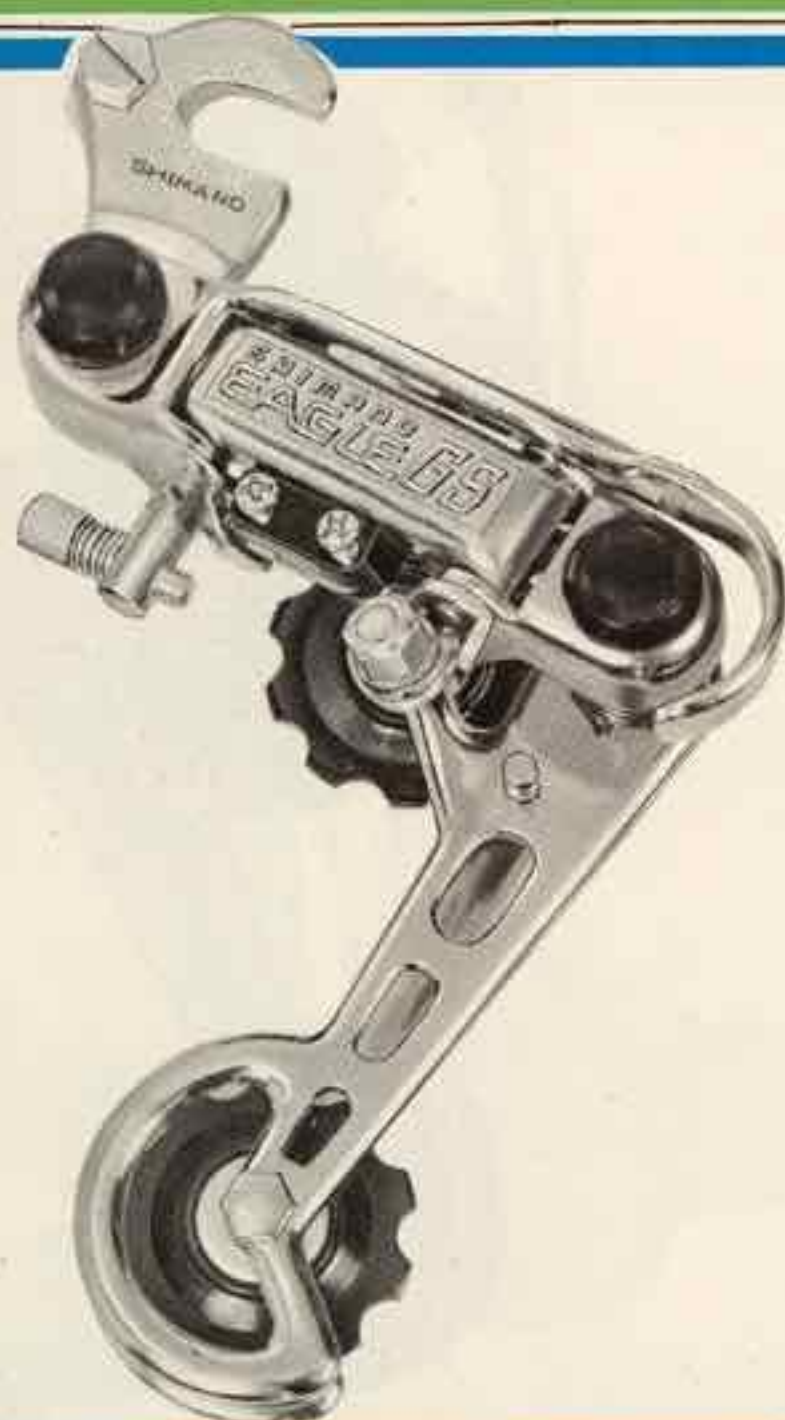
**SPECIFICATIONS**

Capacity: 34 teeth

Weight: 12.3 oz. (350 g)

Material: Steel

With Cable Saver and Derailleur Guard.



Model D-370

**EAGLE GS**

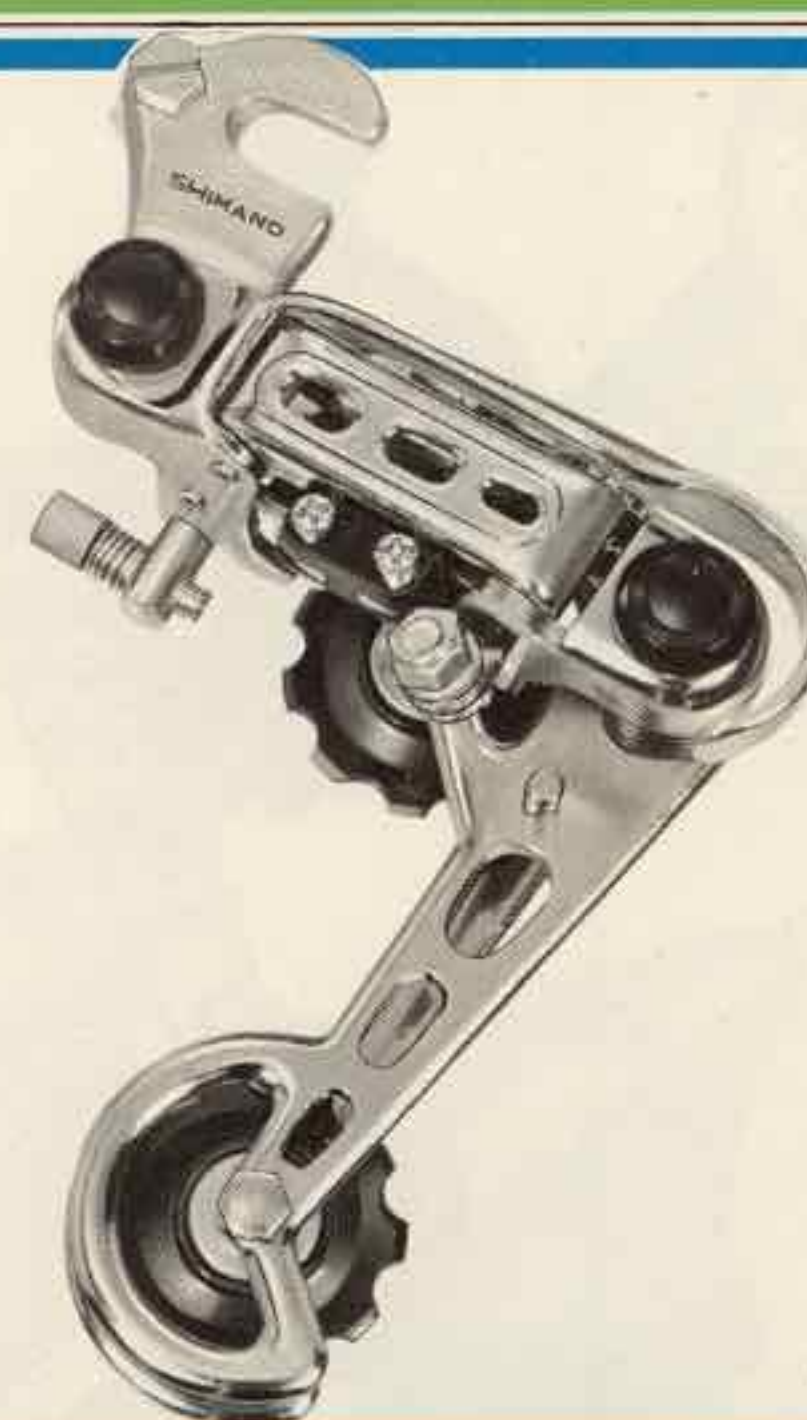
**SPECIFICATIONS**

Capacity: 38 teeth

Weight: 13.4 oz. (380 g)

Material: Steel

With Cable Saver and Derailleur Guard.



Model D-380

**EAGLE GPO**

**SPECIFICATIONS**

Capacity: 38 teeth

Weight: 13.4 oz. (380 g)

Material: steel

With Cable Saver and Derailleur Guard.



Model D-210  
**LARK SS**

**SPECIFICATIONS**

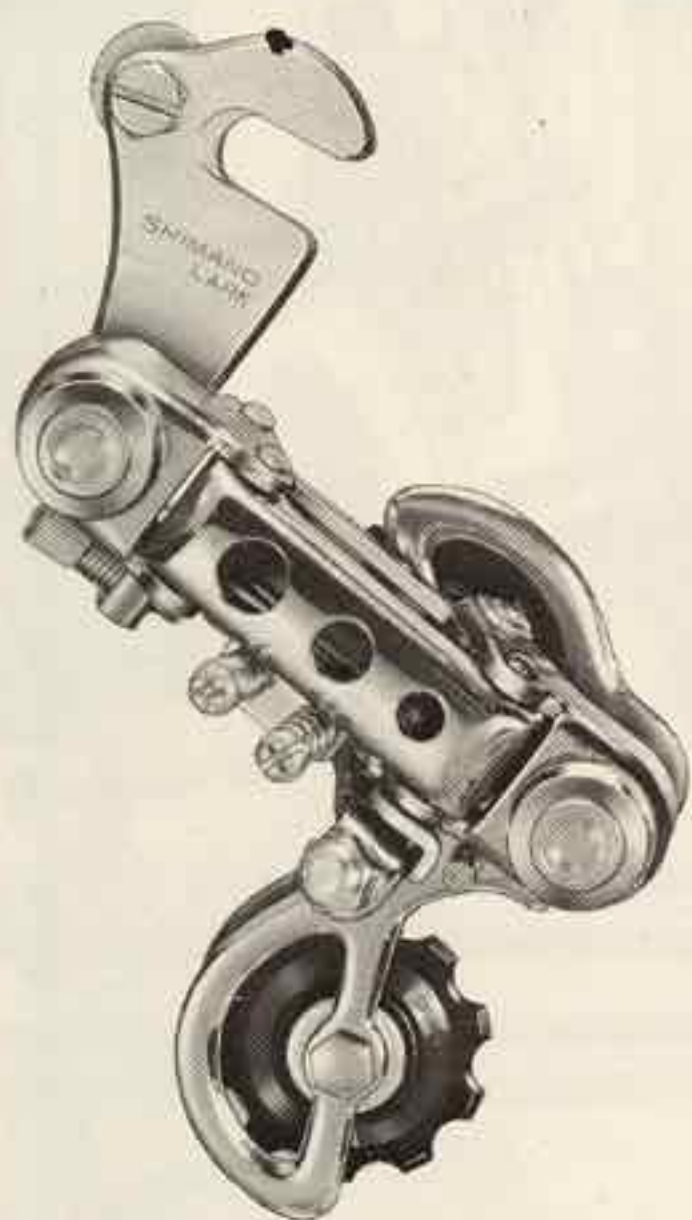
Capacity: 34 teeth  
Weight: 11.3 oz. (320 g)  
Material: Steel  
With Cable Saver.



Model D-160  
**SKYLARK**

**SPECIFICATIONS**

Capacity: 34 teeth  
Weight: 11.3 oz. (320 g)  
Material: Steel



Model D-220  
**LARK SPO**

**SPECIFICATIONS**

Capacity: 34 teeth  
Weight: 10.9 oz. (310 g)  
Material: Steel  
With Cable Saver.



Model D-280  
**LARK-W**

**SPECIFICATIONS**

Capacity: 34 teeth  
Weight: 12.7 oz. (360 g)  
Material: Steel  
With Special Twist Grip Control Lever.

# SHIMANO Front Derailleur



SHIMANO  
DURA-ACE  
MADE IN JAPAN

Model E-404

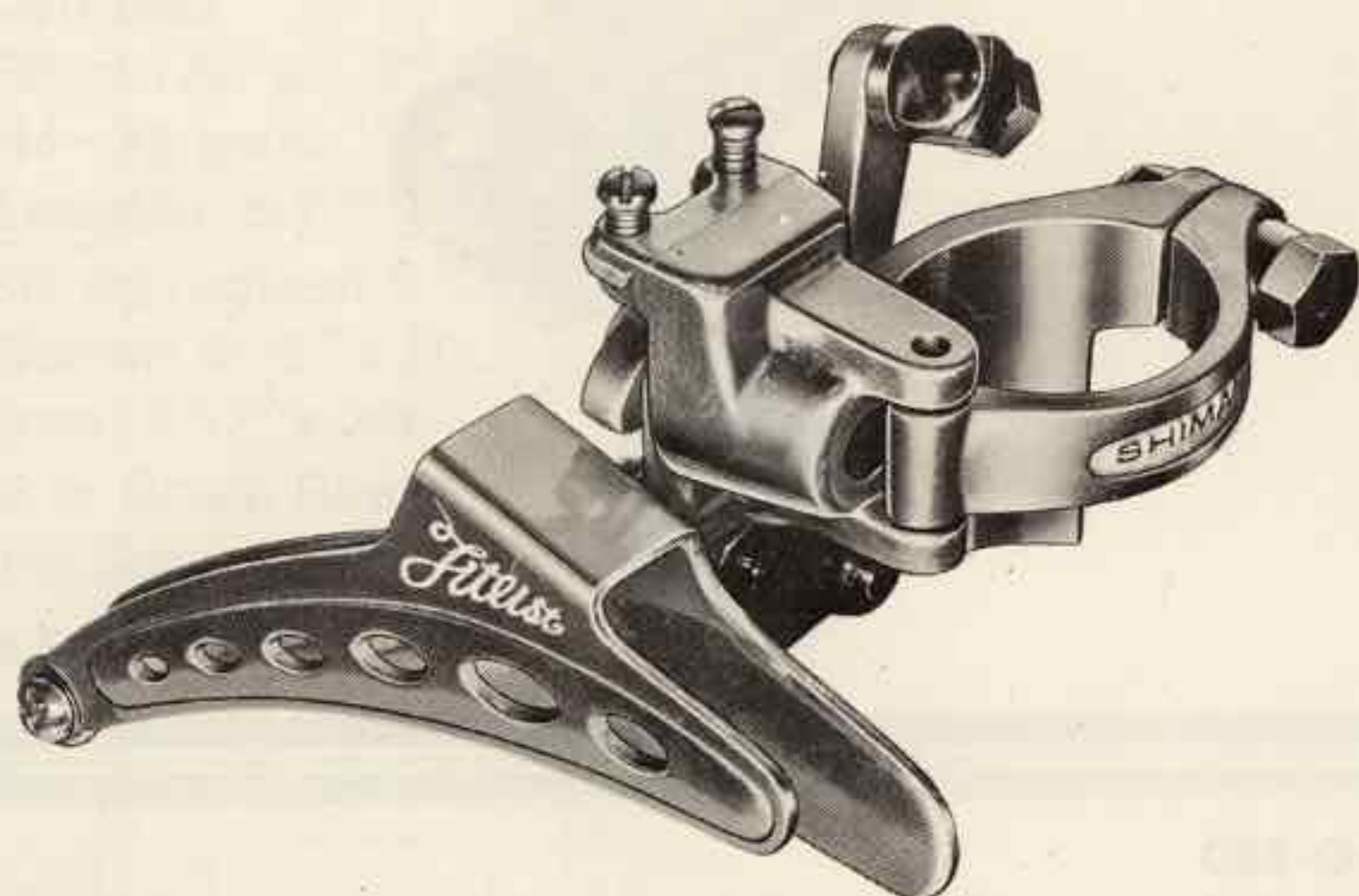
**DURA-ACE**

## SPECIFICATIONS

Weight: 3.7 oz. (105 g)

Material: Light Alloy (Body), Steel (Chain Guide)

Type: Lower Inlet Type



Model E-304

**Titlist**

## SPECIFICATIONS

Weight: 4.9 oz. (140 g)

Material: Light Alloy (Body), Steel (Chain Guide)

Type: Lower Inlet Type.

Model E-101/E-102/E-103/E-104

## THUNDER BIRD

### SPECIFICATIONS

Type: Upper Inlet Type 1" (Model E-101)  
Upper Inlet Type 1-1/8" (Model E-103)  
Lower Inlet Type 1" (Model E-102)  
Lower Inlet Type 1-1/8" (Model E-104)  
Weight: 6.7 oz. (190 g)  
Material: Steel

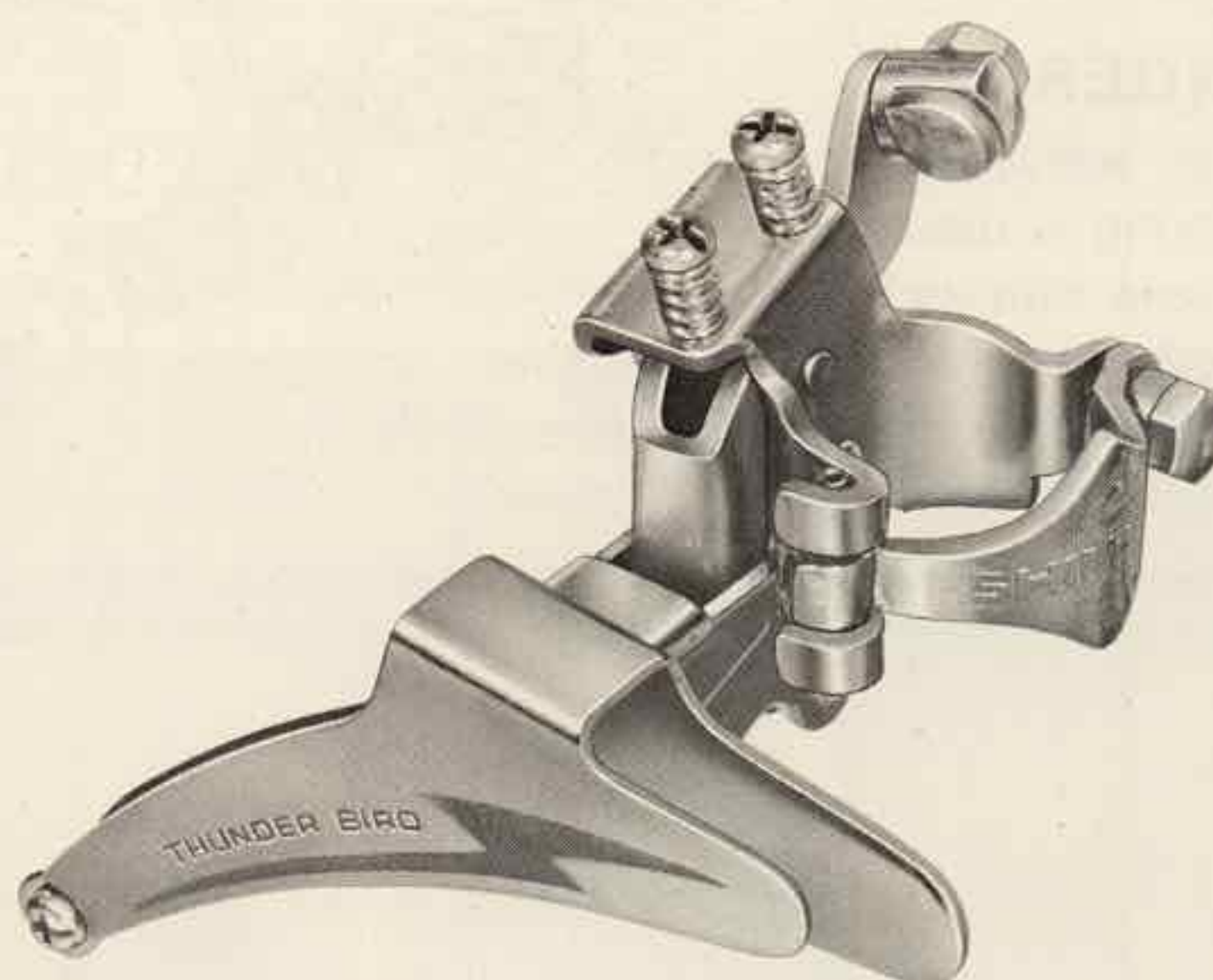


Model E-111/E-112/E-113/E-114

## THUNDER BIRD G.P.O.

### SPECIFICATIONS

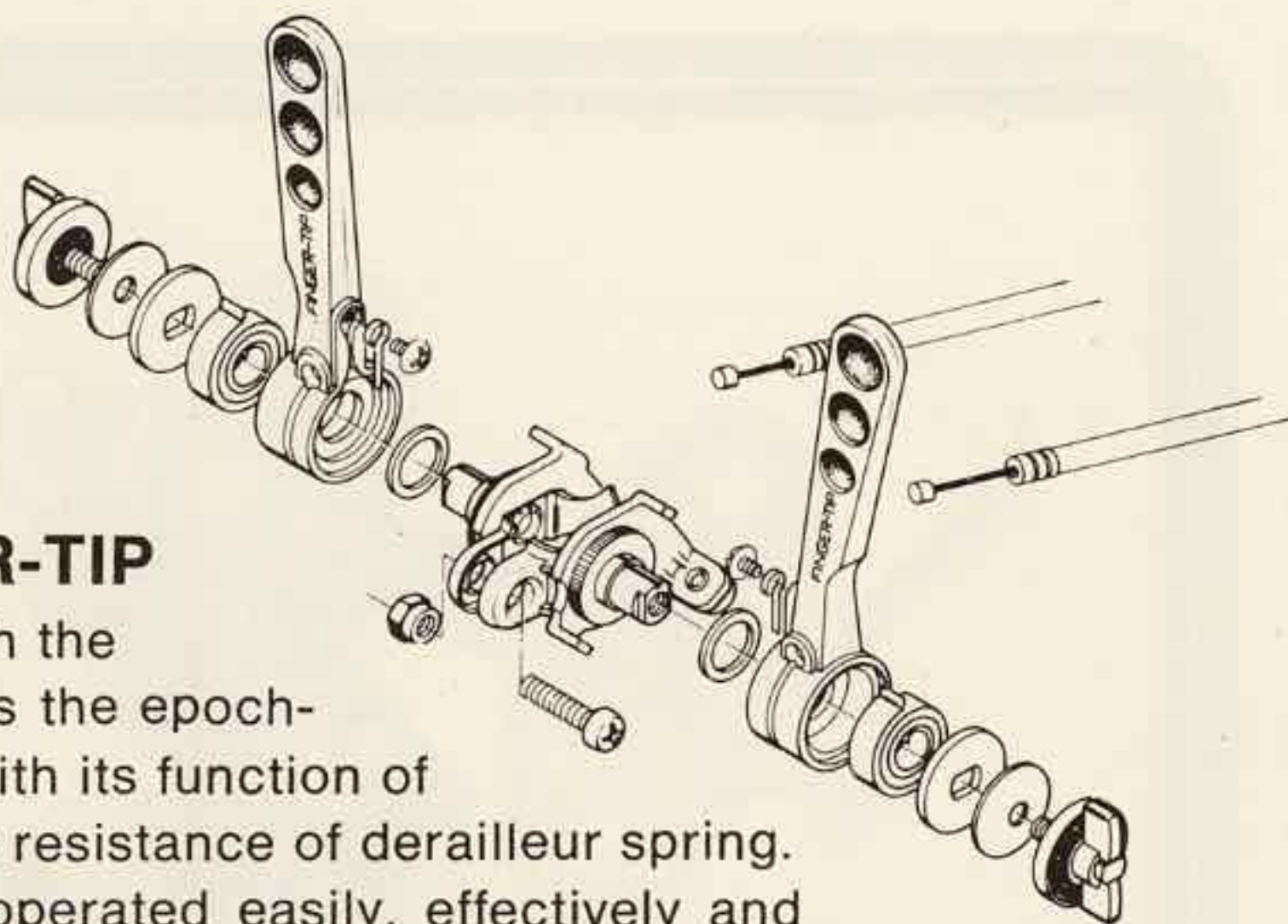
Type: Upper Inlet Type 1" (Model E-111)  
Upper Inlet Type 1-1/8" (Model E-113)  
Lower Inlet Type 1" (Model E-112)  
Lower Inlet Type 1-1/8" (Model E-114)  
Weight: 6.5 oz. (185 g)  
Material: Steel



# SHIMANO Shifting Levers for Derailleur

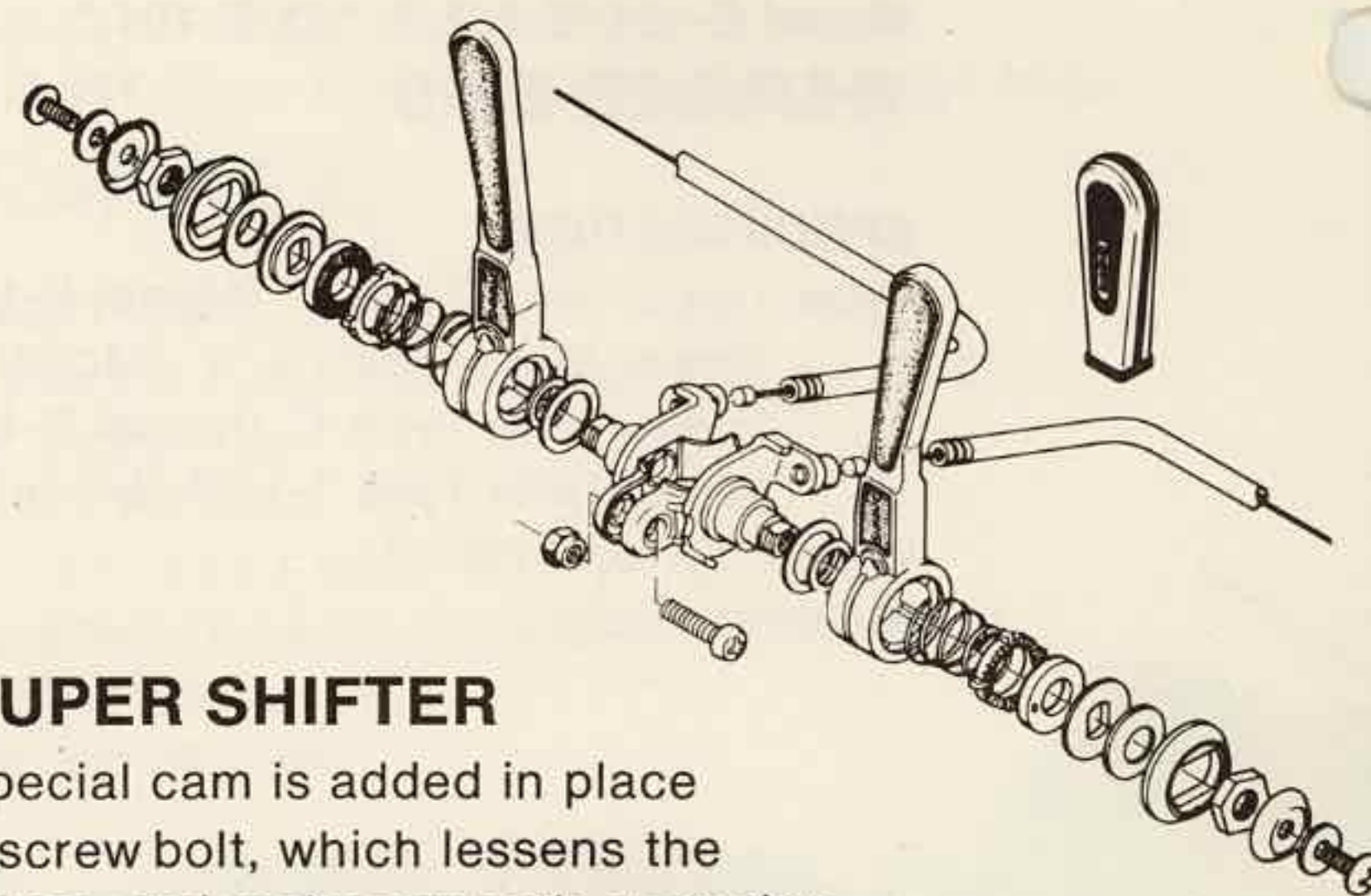
## FINGER-TIP

The lever with the spiral spring is the epoch-making one with its function of setting off the resistance of derailleur spring. The lever is operated easily, effectively and swiftly with the absorption of a delicate slack of inner cable.



## SUPER SHIFTER

The special cam is added in place of the screw bolt, which lessens the resistance and makes smooth operation.



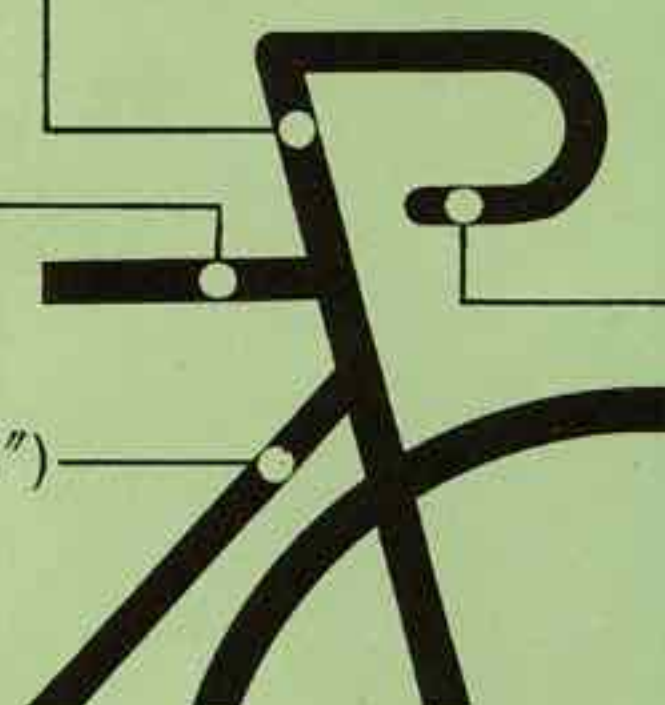
SHIMANO  
DURA-ACE  
MADE IN JAPAN

Handle Stem (7/8") (0.833")

Top Tube (1")

Down Tube (1-1/8")

Handle Bar-End



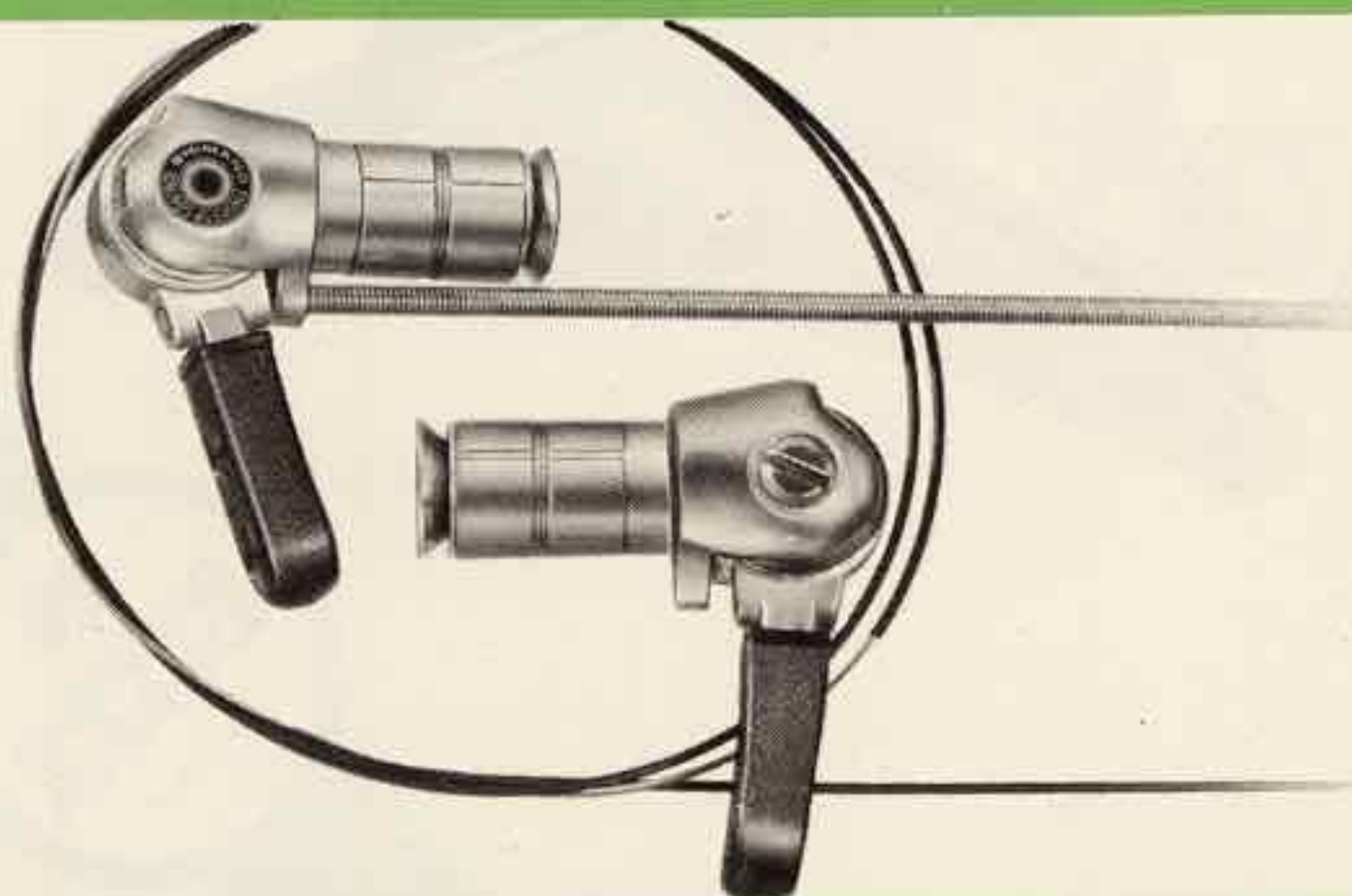
Model L-284

## DURA-ACE SHIFTING LEVER SPECIFICATIONS

Weight: 2.65 oz. (75 g)

Material: Light Alloy

Use: 10-Speed



Model L-600

## BAR-END CONTROL

### SPECIFICATIONS

Weight: 2.8 oz. (80 g)

Material: Light Alloy

Use: 10-speed

Attachment Position: Bar-End

SHIMANO

BAR-END CONTROL



### Models L-221/L-222/L-223/L-224/L-225/L-226/L-227/L-228 **ALMI LEVER**

#### SPECIFICATIONS

Material: Light Alloy

Type:

| Model | Lever Clamp Diameter | Use      |
|-------|----------------------|----------|
| L-222 | 1"                   | 10-speed |
| L-224 | 1-1/8"               |          |
| L-226 | 7/8"                 |          |
| L-228 | 0, 833"              |          |
| L-221 | 1"                   | 5-speed  |
| L-223 | 1-1/8"               |          |
| L-225 | 7/8"                 |          |
| L-227 | 0, 833"              |          |



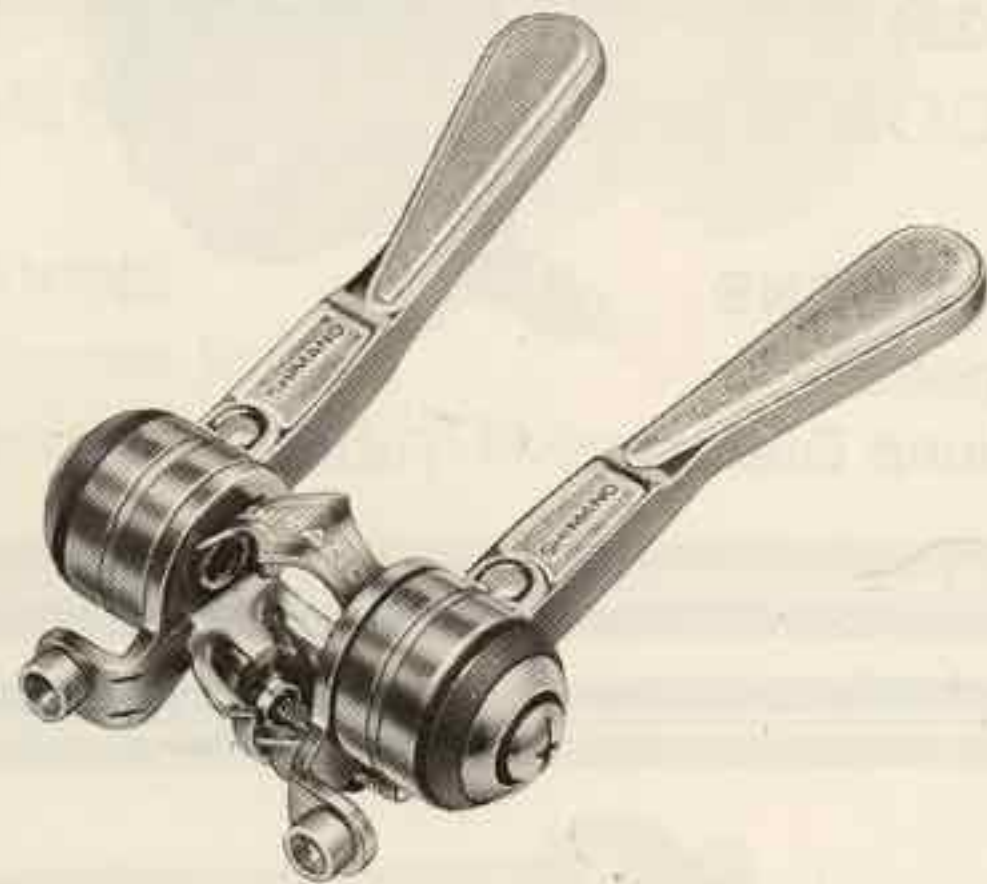
### Models L-261/L-262/L-263/L-264/L-265/L-266/L-267/L-268 **FINGER-TIP**

#### SPECIFICATIONS

Material: Light Alloy

Type:

| Model | Lever Clamp Diameter | Use      |
|-------|----------------------|----------|
| L-262 | 1"                   | 10-speed |
| L-264 | 1-1/8"               |          |
| L-266 | 7/8"                 |          |
| L-268 | 0, 833"              |          |
| L-261 | 1"                   | 5-speed  |
| L-263 | 1-1/8"               |          |
| L-265 | 7/8"                 |          |
| L-267 | 0, 833"              |          |



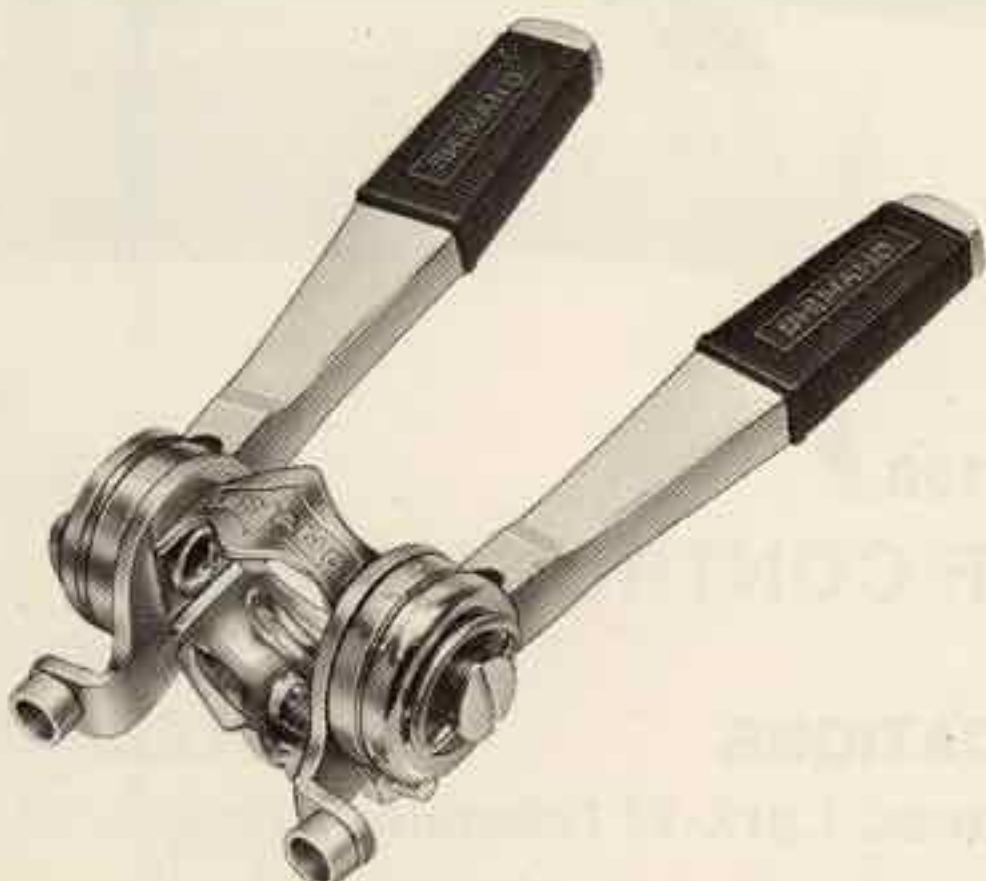
### Models L-253/L-254/L-255/L-256/L-257/L-258 **SUPER SHIFTER**

#### SPECIFICATIONS

Material: Light Alloy

Type:

| Model | Lever Clamp Diameter | Use      |
|-------|----------------------|----------|
| L-254 | 1-1/8"               | 10-speed |
| L-256 | 7/8"                 |          |
| L-258 | 0, 833"              |          |
| L-253 | 1-1/8"               | 5-speed  |
| L-255 | 7/8"                 |          |
| L-257 | 0, 833"              |          |



### Models L-271/L-272/L-273/L-274/L-275/L-276/L-277 **FLAT LEVER**

#### SPECIFICATIONS

Material: Steel

Type:

| Model | Lever Clamp Diameter | Use      |
|-------|----------------------|----------|
| L-272 | 1"                   | 10-speed |
| L-274 | 1-1/8"               |          |
| L-276 | 7/8"                 |          |
| L-278 | 0, 833"              |          |
| L-271 | 1"                   | 5-speed  |
| L-273 | 1-1/8"               |          |
| L-275 | 7/8"                 |          |
| L-277 | 0, 833"              |          |

# SHIMANO Shifting Levers for Derailleur



Models L-535/L-536/L-537/L-538

## SHORT STEM-DX

### SPECIFICATIONS

Type:

| Model | Lever Clamp Diameter | Use      |
|-------|----------------------|----------|
| L-536 | 7/8"                 | 10-speed |
| L-538 | 0, 833"              |          |
| L-535 | 7/8"                 | 5-speed  |
| L-537 | 0, 833"              |          |



Model L-311

## CLICK-STICK

### SPECIFICATIONS

Use: 5-Speed

Lever Clamp Diameter: 1" Tube



Model L-321

## SEMI-CONSOLE

### SPECIFICATIONS

Use: 5-Speed

Lever Clamp Diameter: 1" Tube



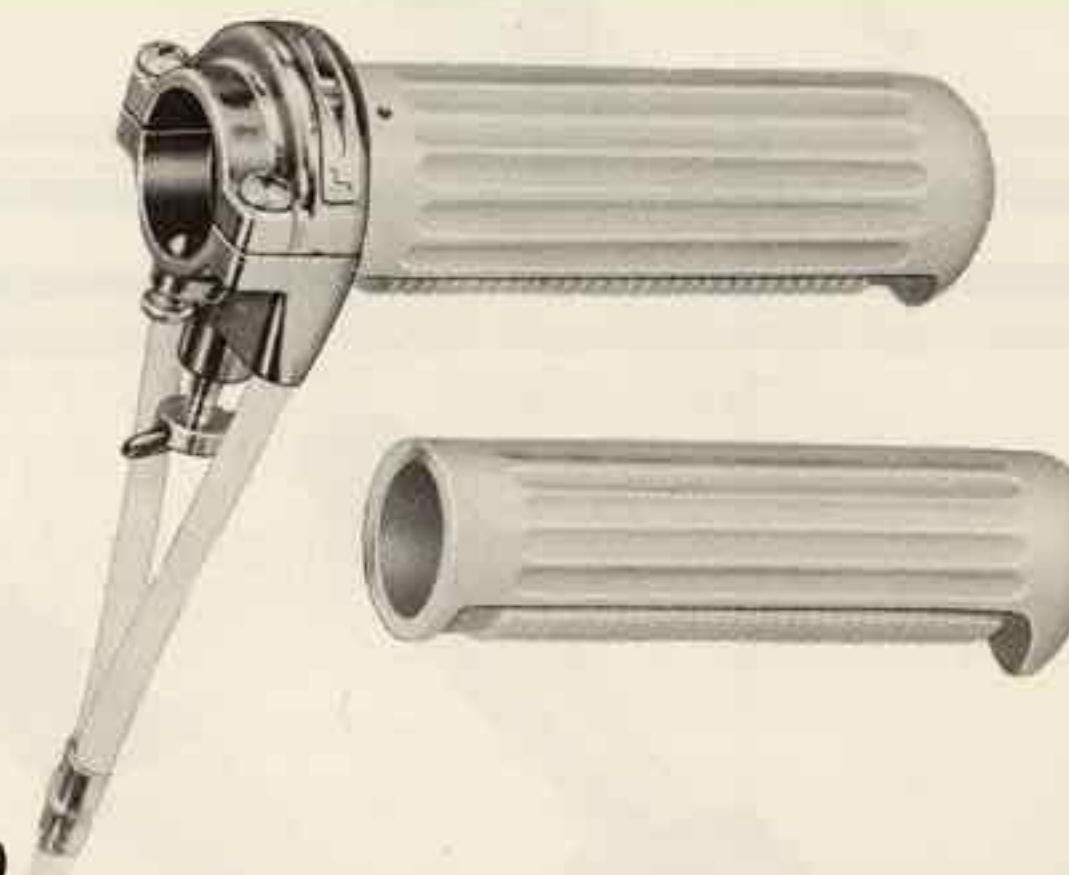
Model L-345

## CL-LEVER

### SPECIFICATIONS

Use: 5-Speed

Lever Clamp Diameter: 7/8" & 0.833" Tube



Model L-120

## W-GRIP CONTROL LEVER

### SPECIFICATIONS

Use: 5-Speed Lark-W Derailleur Only

# SHIMANO Levers for Three Speed Hub



**Model L-150**

## TRIGGER LEVER

### SPECIFICATIONS

Use: Three Speed Hub

Attachment Position: Handle Bar



**Model L-361**

## CLICK-STICK

### SPECIFICATIONS

Use: Three Speed Hub

Lever Clamp Diameter: 1" Tube



**Model L-371**

## SEMI-CONSOLE

### SPECIFICATIONS

Use: Three Speed Hub

Lever Clamp Diameter: 1" Tube



**Models L-461/L-472**

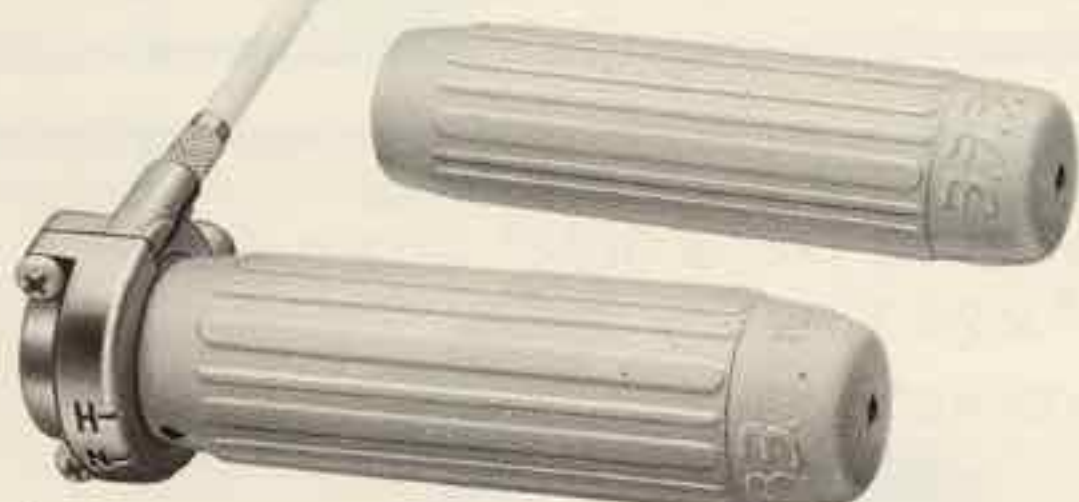
## CONSOLE LEVER

### SPECIFICATIONS

Use: Three Speed Hub

Type:

| Type | Model | Attachment Position | Use                 |
|------|-------|---------------------|---------------------|
| GS   | L-461 | 1" Top tube         | For Three Speed Hub |
| GT   | L-472 | Twin tube           |                     |



**Model L-110**

## TWIST GRIP CONTROL

### SPECIFICATIONS

Use: Three Speed Hub

Attachment Position: Bar-end





## MULTIPLE FREEWHEELS **DURA-ACE**

### SPECIFICATIONS

Standard Sprocket: 1/2" x 3/32" Chain (2mm)

Thread: 1.37" x 24 T.P.I.

Standard Sprocket Combinations:

|         |                         |
|---------|-------------------------|
| 5-speed | 13, 15, 17, 19, 21T     |
|         | 14, 16, 18, 20, 22T     |
|         | 15, 17, 19, 21, 24T     |
| 6-speed | 13, 14, 15, 16, 17, 18T |
|         | 13, 15, 17, 19, 21, 23T |



### SPECIFICATIONS

Standard Sprocket: 1/2" x 3/32" Chain (2mm)

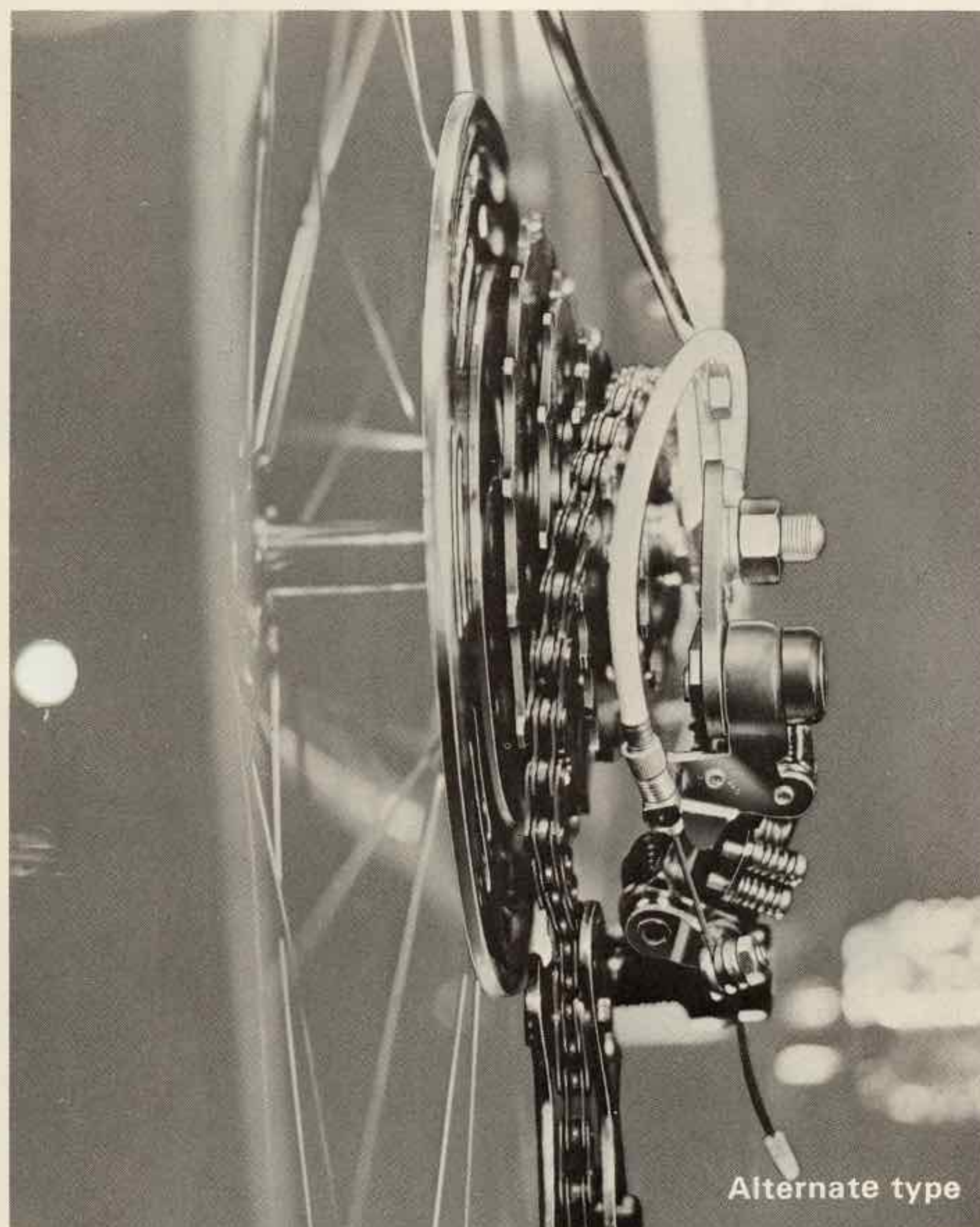
Thread: 1.37" x 24 T.P.I.

Standard Sprocket Combinations:

|         |                             |
|---------|-----------------------------|
| 5-speed | 15, 17, 19, 21, 24T.        |
|         | 14, 17, 20, 24, 28T.        |
|         | 14, 17, 22, 27, 32T.        |
|         | 14, 17, 21, 26A, 32AT.      |
|         | 14, 17, 21, 26A, 32AT. (LT) |
|         | 14, 17, 22, 28, 34T.        |
|         | 14, 17, 22, 28A, 34AT.      |
|         | 14, 17, 22, 28A, 34AT. (LT) |

(LT): with Seal and Top Protector  
A: Alternate Teeth Sprocket

A new wide range of freewheels has just been introduced by Shimano. This rear gear cluster has a broad range of gears, for examples, starting with 14, and going on up to 17-22-28 and 34 teeth gears. They are available in Regular Type; with Top Protector; with Seal and Alternate Teeth Type. They can easily be removed from the hub with a special tool. The spline system makes it possible to change the sprockets. Every other tooth in the two ultra-low (big) gears have been removed. This makes it easier to shift up into these low gears because the chain does not "hang up".

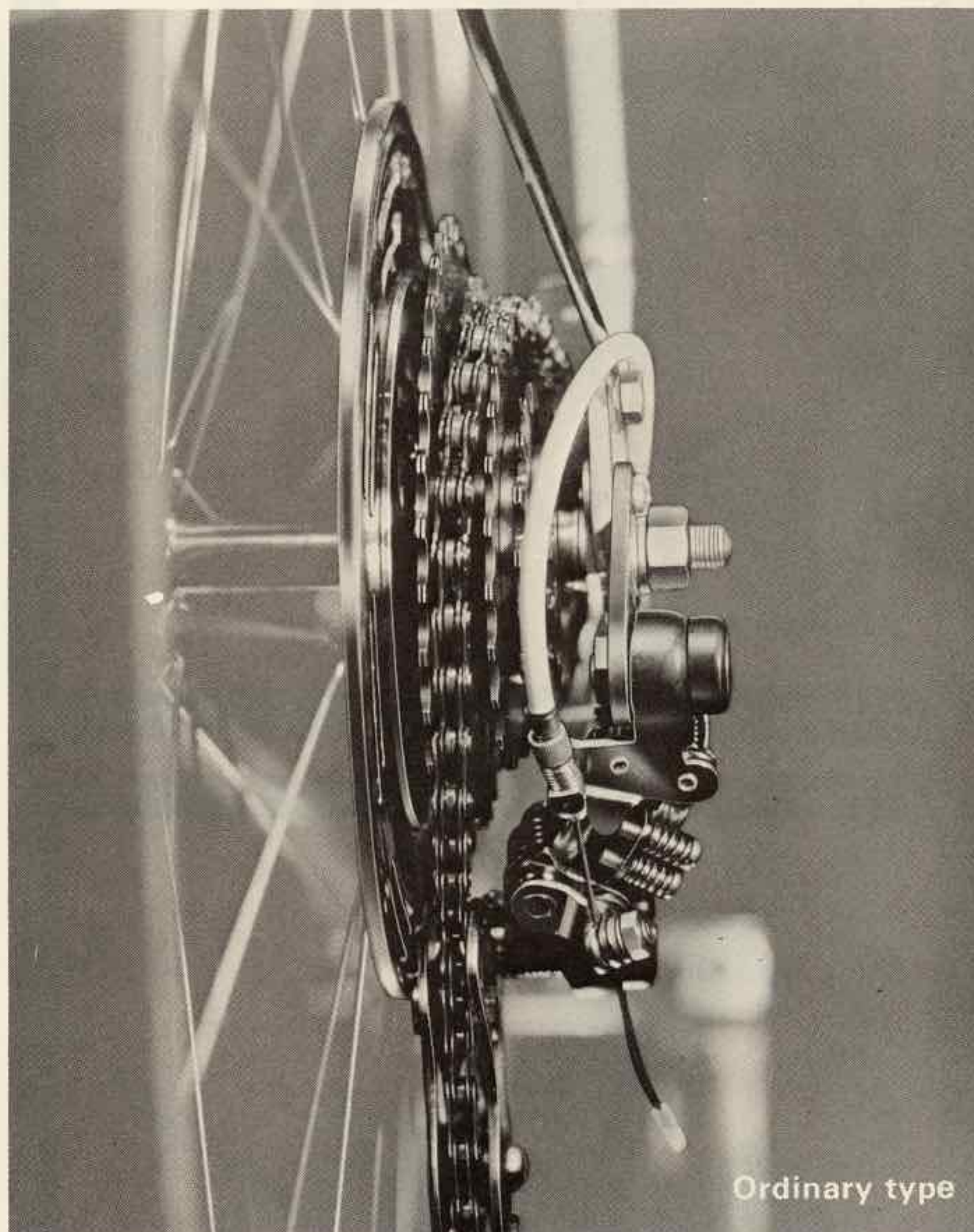


## 5-Speed Multiple Freewheel

| Model No. | Types                                  |
|-----------|----------------------------------------|
| F 200     | 1/2" x 3/32" 15, 17, 19, 21, 24 teeth  |
| F 300     | 1/2" x 3/32" 14, 17, 20, 24, 28 teeth  |
| F 400     | 1/2" x 3/32" 14, 17, 22, 27, 32 teeth  |
| F 410     | 1/2" x 3/32" 14, 17, 21, 26A 32A teeth |
| F 412*    | 1/2" x 3/32" 14, 17, 21, 26A 32A teeth |
| F 500     | 1/2" x 3/32" 14, 17, 22, 28, 34 teeth  |
| F 510     | 1/2" x 3/32" 14, 17, 22, 28A 34A teeth |
| F 512     | 1/2" x 3/32" 14, 17, 22, 28A 34A teeth |

\*: With Seal and Top Protector A: Alternate Gear

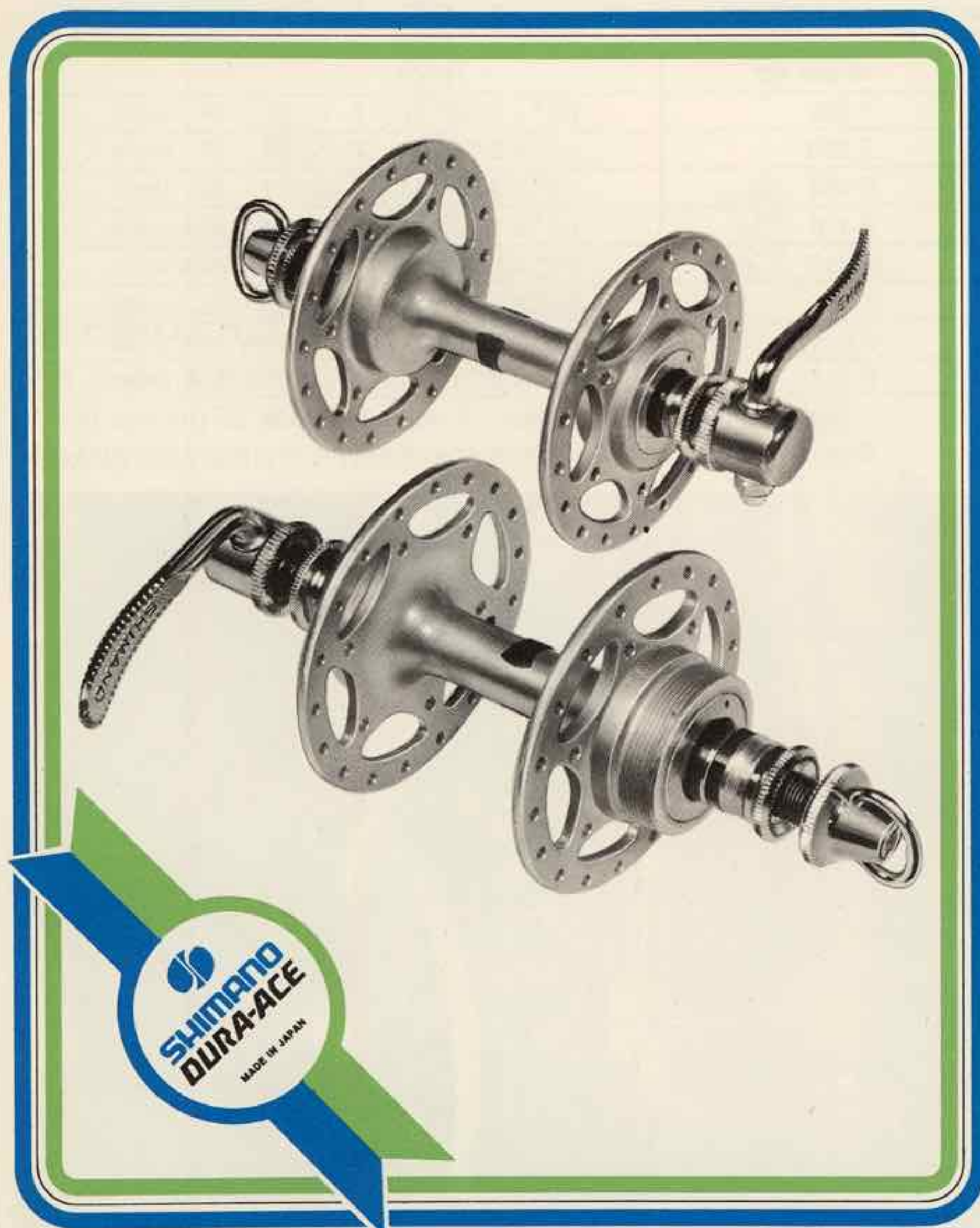
Due to lack of space, the above specifications represent samples only.



## SINGLE FREEWHEEL

| Model No. | Types                  |
|-----------|------------------------|
| F 916     | 1/2" x 1/8" x 16 teeth |
| F 918     | 1/2" x 1/8" x 18 teeth |
| F 919     | 1/2" x 1/8" x 19 teeth |
| F 920     | 1/2" x 1/8" x 20 teeth |
| F 922     | 1/2" x 1/8" x 22 teeth |
| F 924     | 1/2" x 1/8" x 24 teeth |

# SHIMANO Light Alloy Hubs



**Models H-731 (Front)**

**H-831 (Rear For 5-speed): Large Flange Hubs**

**DURA-ACE**

## SPECIFICATIONS

Weight: Front 9.2 oz. (260 g), Rear 12.7 oz. (360 g)

Material: Light Alloy

Type: Quick Release

Thread: 1.37" x 24 T.P.I.

Over Lock Nut Dimensions: Front 3.94" (100mm),

Rear 4.72" (120mm)

Spoke Holes: 36 x 36H.



**Models HS-731 (Front)**

**HS-831 (Rear For 5-speed): Small Flange Hubs**

**DURA-ACE**

## SPECIFICATIONS

Weight: Front 7.8 oz. (220 g), Rear 10.2 oz. (290 g)

Material: Light Alloy

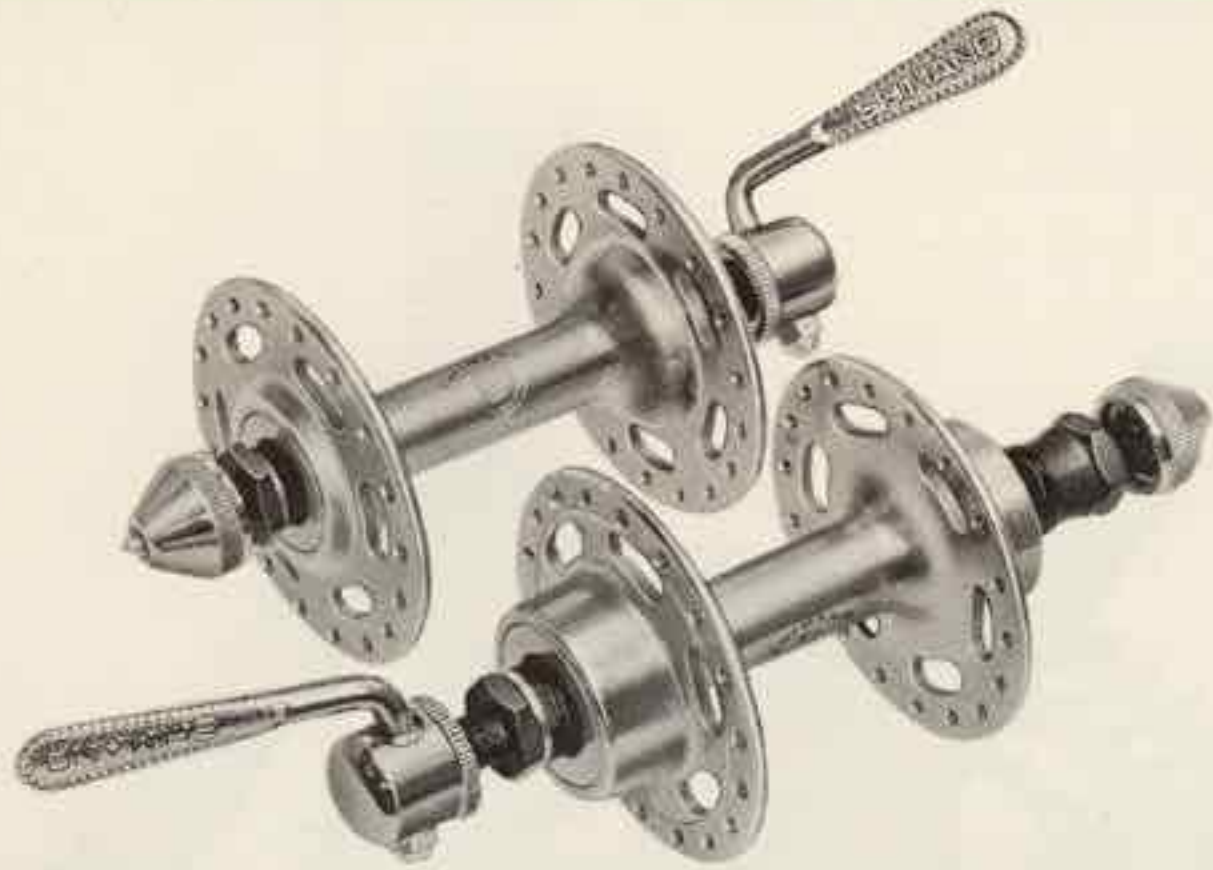
Type: Quick Release

Thread: 1.37" x 24 T.P.I.

Over Lock Nut Dimensions: Front 3.94" (100mm),

Rear 4.72" (120mm)

Spoke Holes: 36 x 36H.



**Models H-710 (Front)/H-810 (Rear For 5-speed)**

### **LARGE FLANGE HUB WITH QUICK RELEASE**

#### **SPECIFICATIONS**

Weight: Front 9.5 oz. (270 g), Rear 12.7 oz. (360 g)

Material: Light Alloy

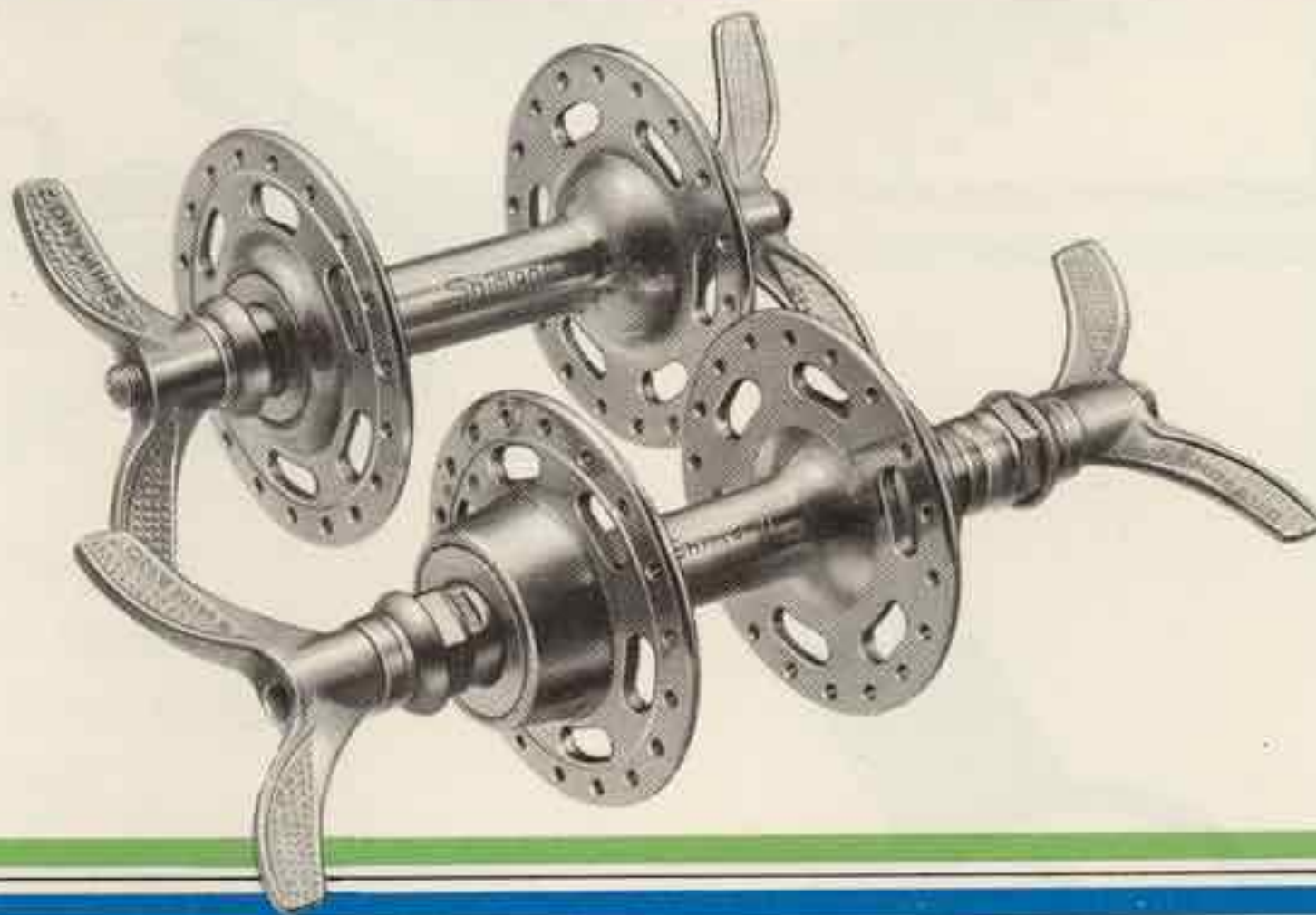
Type: Quick Release

Thread: 1.37" x 24 T.P.I.

Over Lock Nut Dimensions:

Front 3.78" (96mm), Rear 4.88" (124mm)

Spoke Holes: 36 x 36H.



**Models H-720 (Front)/H-820 (Rear For 5-speed)**

### **LARGE FLANGE HUB WITH WING NUT**

#### **SPECIFICATIONS**

Weight: Front 8.2 oz. (230 g), Rear 12.3 oz. (350 g)

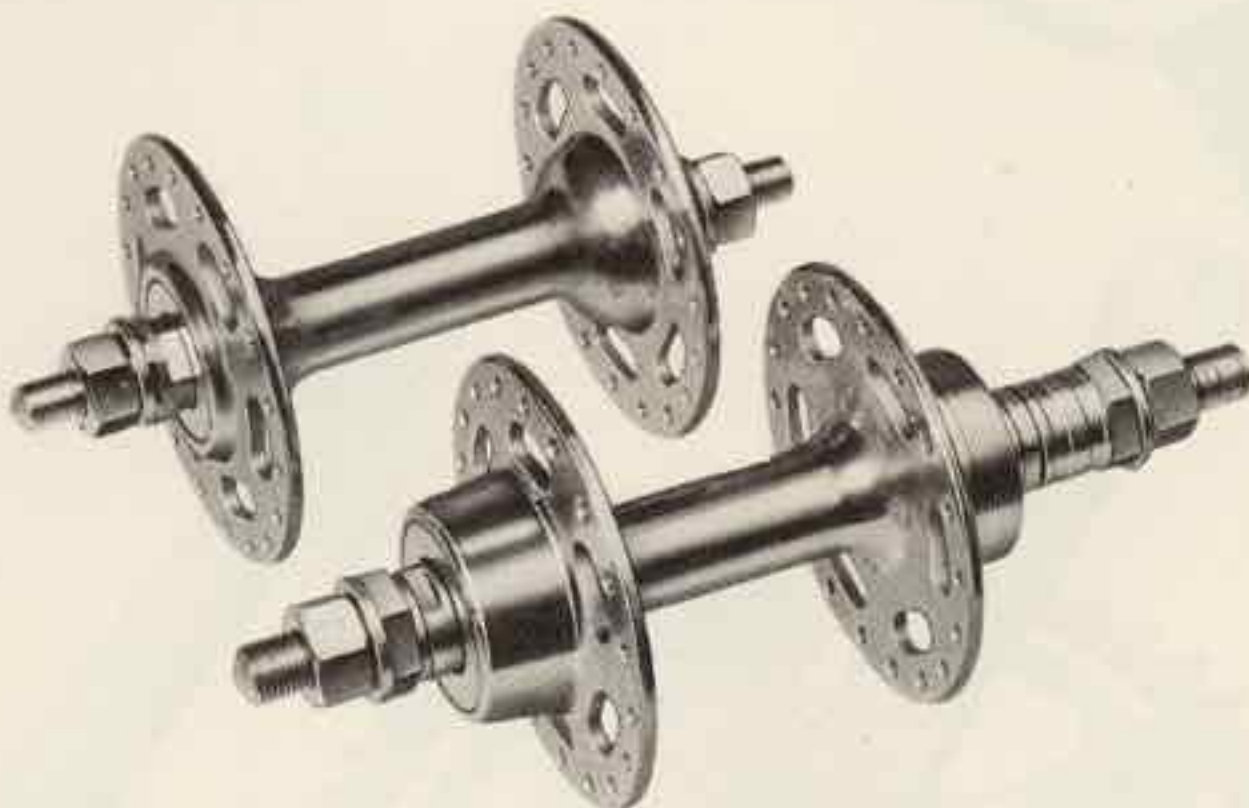
Material: Light Alloy

Type: Solid Axle Type with Wing Nut

Over Lock Nut Dimensions:

Front 3.78" (96mm), Rear 4.88" (124mm)

Spoke Holes: 36 x 36H.



**Models H-700 (Front)/H-800 (Rear For 5-speed)**

### **LARGE FLANGE HUB**

#### **SPECIFICATIONS**

Weight: Front 7.4 oz. (210 g), Rear 11.6 oz. (330 g)

Material: Light Alloy

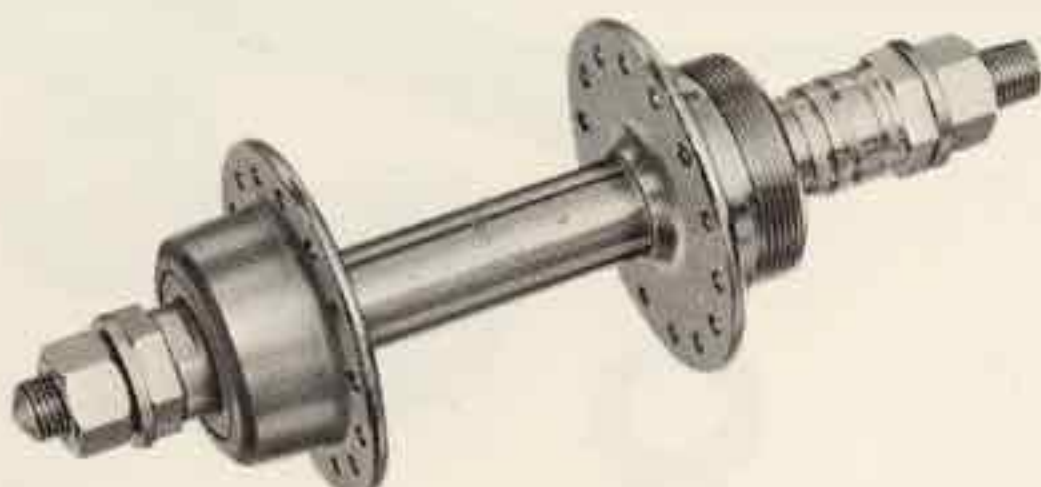
Type: Solid Axle Type with Hub Nut

Thread: 1.37" x 24 T.P.I.

Over Lock Nut Dimensions:

Front 3.78" (96mm), Rear 4.88" (124mm)

Spoke Holes: 36 x 36H.



**Model H-400**

### **STEEL REAR HUB**

#### **SPECIFICATIONS**

Weight: 15.9 oz. (450 g)

Material: Steel

Type: Solid Axle with Hub Nut

Thread: 1.37" x 24 T.P.I.

Over Lock Nut Dimensions: 4.48" (124 mm)

Spoke Holes: 28H. and 36H.

## FRONT CHAINWHEEL FOR ROAD **DURA-ACE**

### SPECIFICATIONS

Material: Light Alloy

Type: Cotterless

Chain Ring: 1/2" x 3/32" Chain(2mm)

Teeth: Inner Chain Ring 39~48 teeth

Outer Chain Ring 48~55 teeth

Crank Lengths: 6-1/2"(165mm), 6-3/4"(170mm)

Available by request 6-13/16"(172.5mm), 6-7/8"(175mm)

Crank Screw: 9/16" x 20t.

Cup Screw: 1.37" x 24t.

Material of Chain Ring

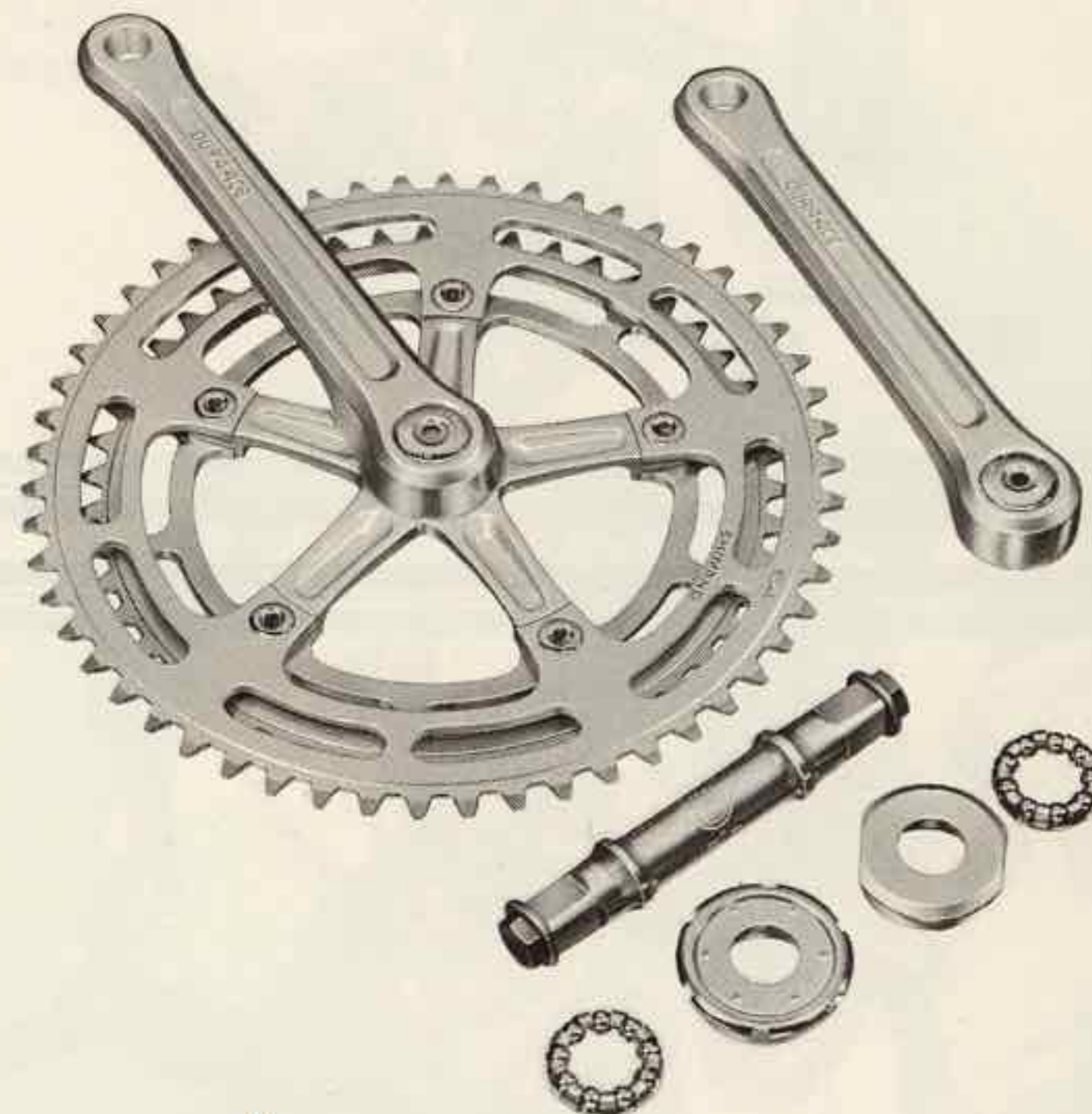
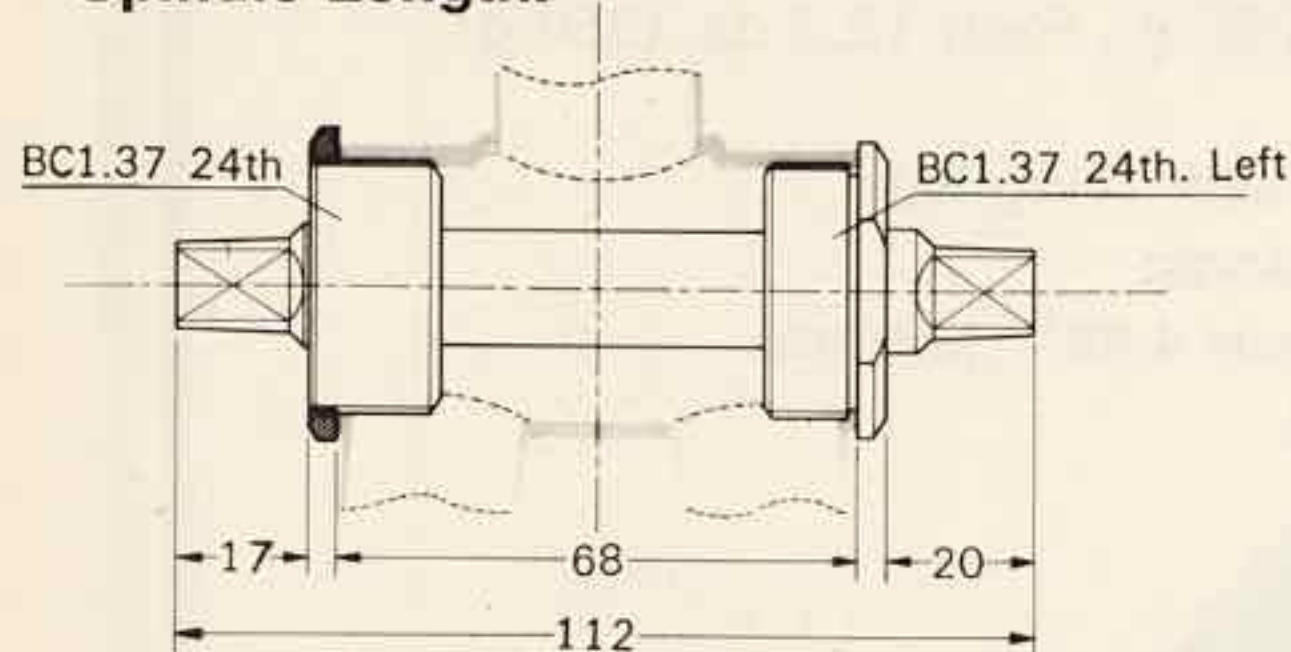
Standard: 14S Duralumin

(For Touring & Light Racing)

Option: 75S Extra Super Duralumin

(For Serious Racing)

### Spindle Length:



SHIMANO  
**DURA-ACE**  
MADE IN JAPAN

## FRONT CHAINWHEEL FOR TRACK **DURA-ACE**

### SPECIFICATIONS

Material: Light Alloy

Type: Cotterless

Chain Ring: 1/2" x 1/8" Chain

Teeth: 44~55 teeth

Crank Lengths: 6-1/2"(165mm), 6-3/4"(170mm)

Available by request 6-13/16"(172.5mm), 6-7/8"(175mm)

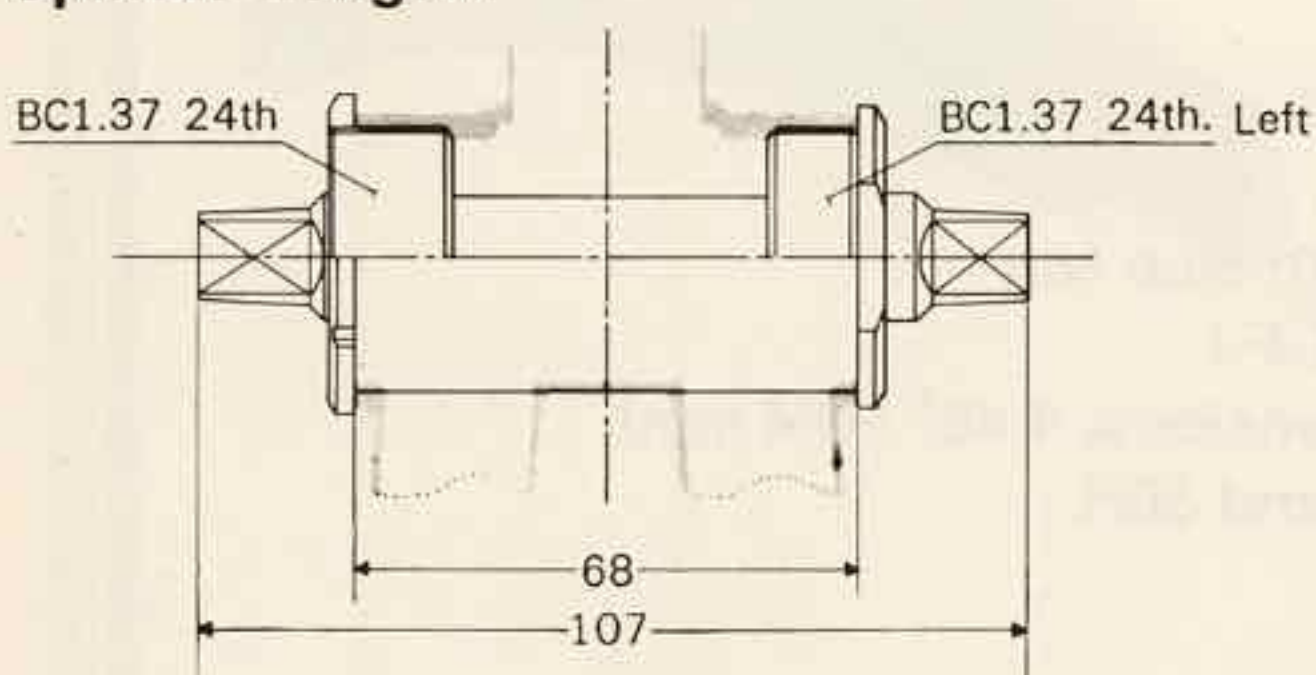
Crank Screw: 9/16" x 20t.

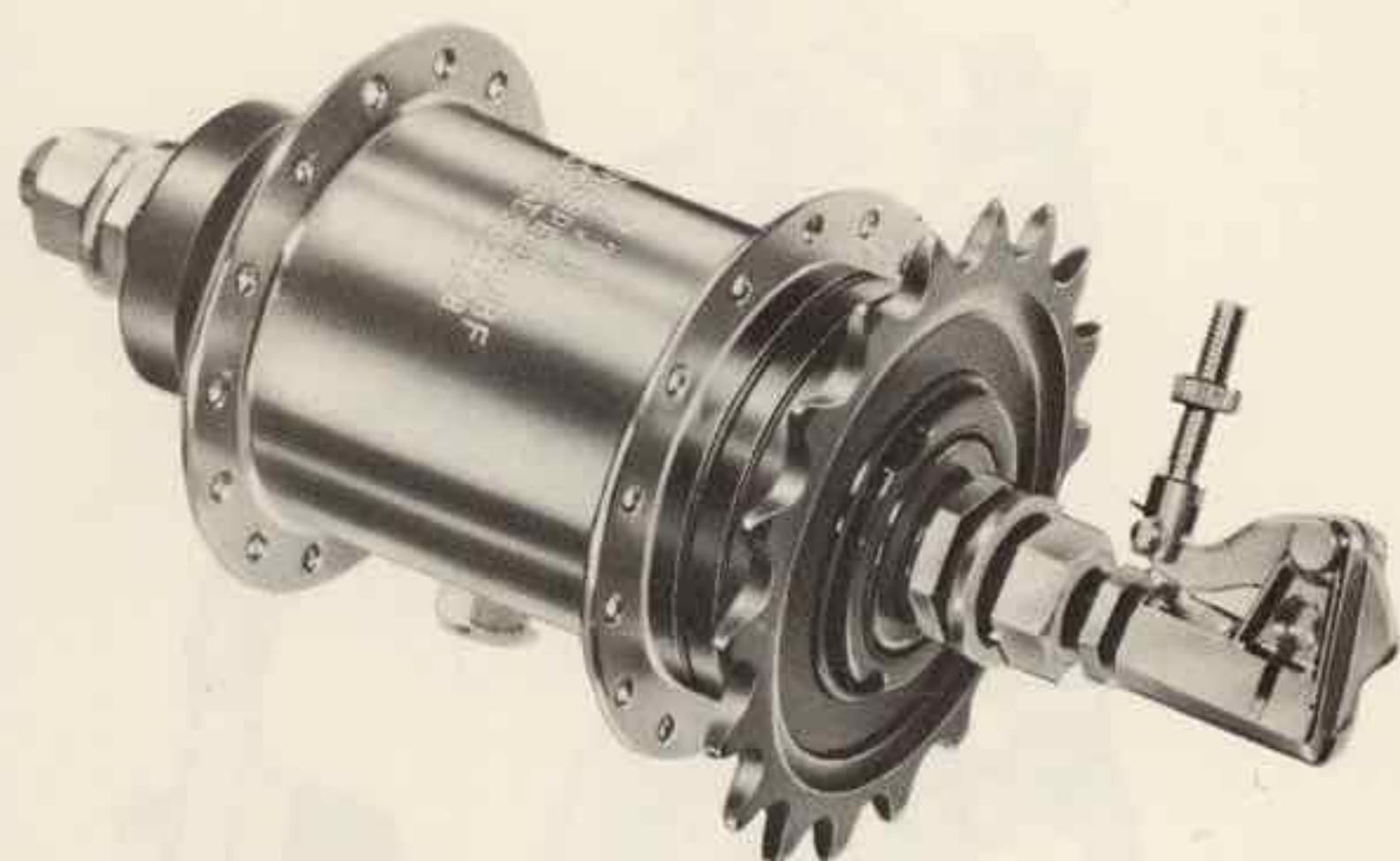
Cup Screw: 1.37" x 24t.

Material of Chain Ring:

75S Extra Super Duralumin

### Spindle Length:

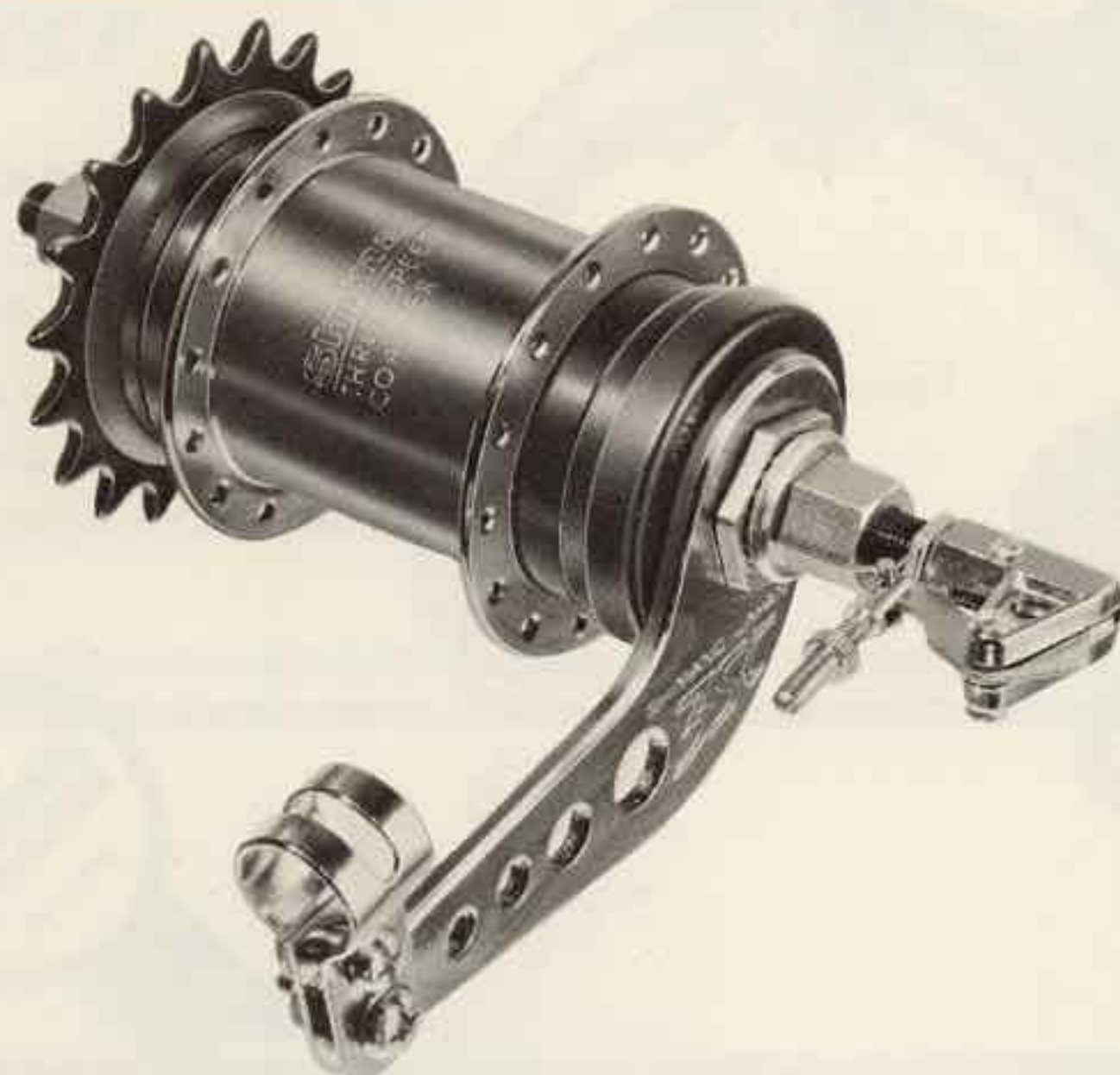




**Model T-100**  
**THREE SPEED HUB**

**SPECIFICATIONS**

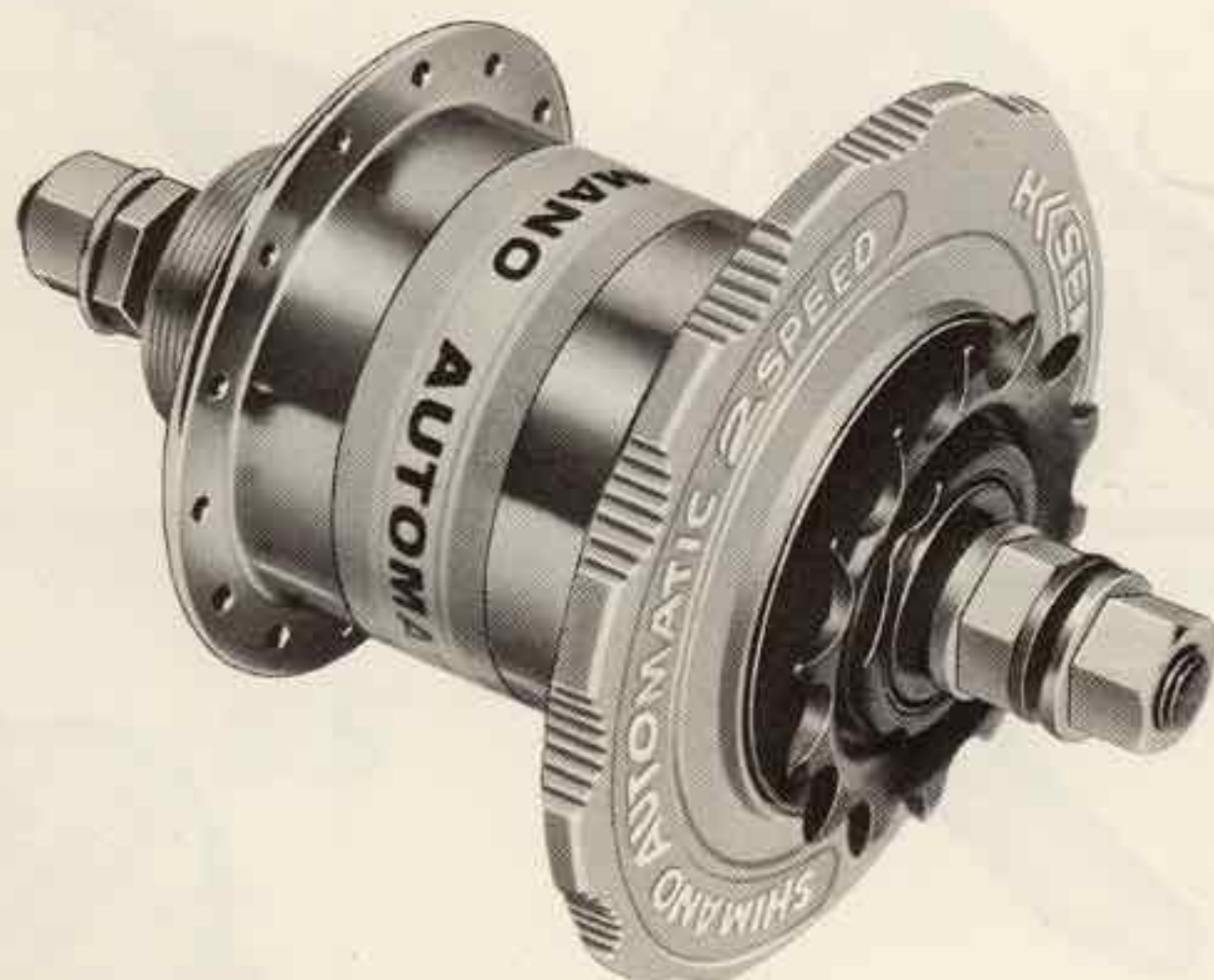
Weight: 38.8 oz. (1,100 g)  
Teeth: 14, 15, 16, 18, 19, 20  
Gear ratio: (H) 1:1.33 (N) 1:1 (L) 1:0.75  
Axle Length: 6-1/32" (153mm)  
Sprocket: 1/2" x 1/8"  
Spoke Holes: 28H., 36H.



**Model T-300**  
**THREE SPEED HUB**  
**WITH COASTER BRAKE**

**SPECIFICATIONS**

Weight: 47.6 oz. (1,350 g)  
Teeth: 18, 19, 20  
Gear Ratio: (H) 1:1.33 (N) 1:1 (L) 1:0.75  
Over Lock Nut Length: 4.37"  $\pm 1/16$ "  
Sprockets: 1/2" x 1/8"  
Spoke Holes: 28H., 36H.



**Model A-600**  
**AUTOMATIC 2-SPEED HUB**

With the "Auto-2" the gear shifts automatically from low to high and vice versa according to bicycle running speed. No shifting is required, so even a beginner can use it for easier, safer cycling.

**SPECIFICATIONS**

Weight: 49.4 oz. (1,400 g)  
Teeth: 14, 15, 16, 18, 19, 20  
Gear Ratio: (H) 1:1 (L) 1:0.75  
Axle Length: 6"  
Sprockets: 1/2" x 1/8"  
Spoke Holes: 28H., 36H.

# SHIMANO Caliper Brakes

## CALIPER BRAKE

Model B-210

**DURA-ACE**

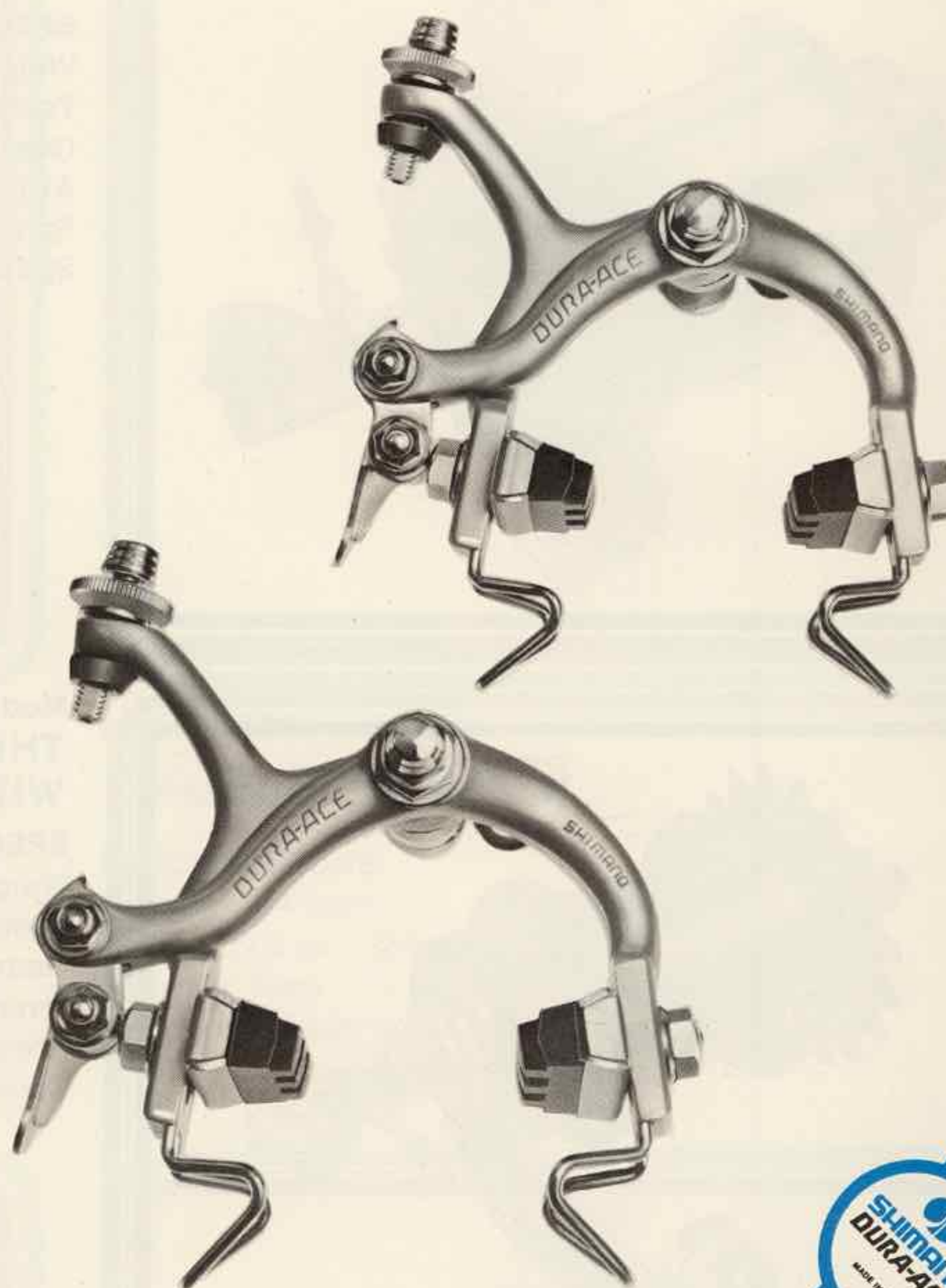
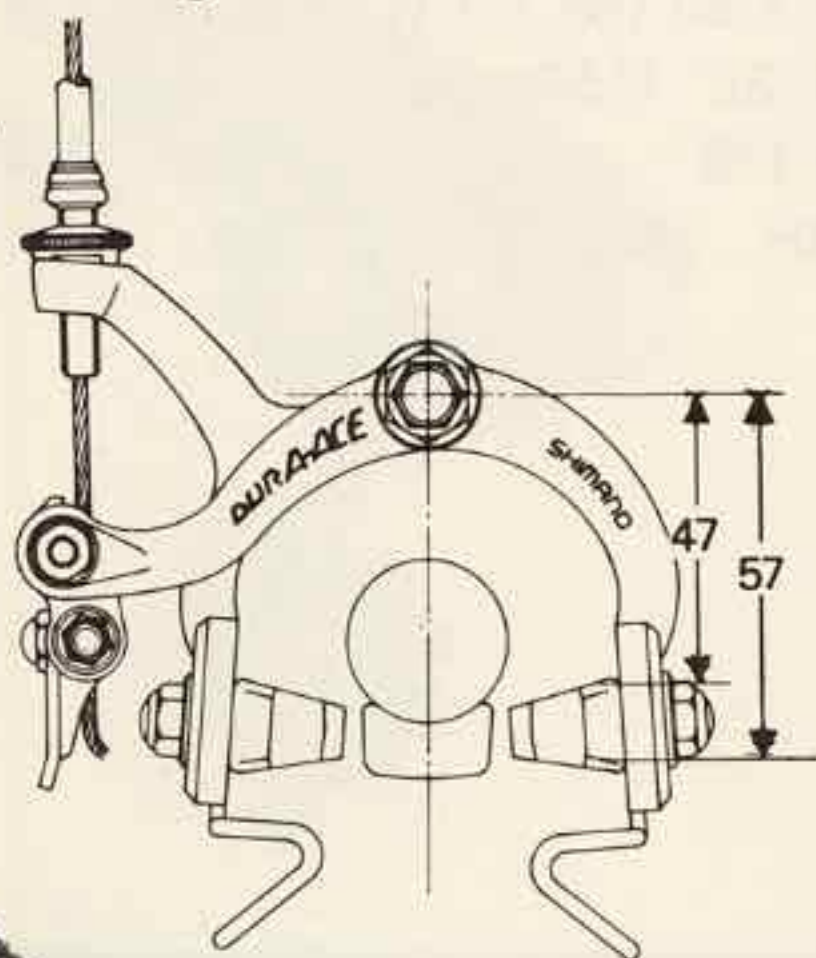
### SPECIFICATIONS

Weight: Front 7.1 oz. (200 g)

Rear 7.1 oz. (200g)

Material: Light Alloy

Type: Side Pull with Quick Release



SHIMANO  
DURA-ACE  
MADE IN JAPAN

## BRAKE LEVER

Model M-140

**DURA-ACE**

### SPECIFICATIONS

Weight: 5.2 oz. (150 g)/Pair

Material: Light Alloy

Type: Hooded Lever

Lever Clamp Diameter: 23.8φ



SHIMANO  
DURA-ACE  
MADE IN JAPAN

## CALIPER BRAKE

Models B-110/B-120

*Tourney*

### SPECIFICATIONS

Weight: **Model B-110**

Front 6.3oz. (180g)

Rear 6.3 oz. (180 g)

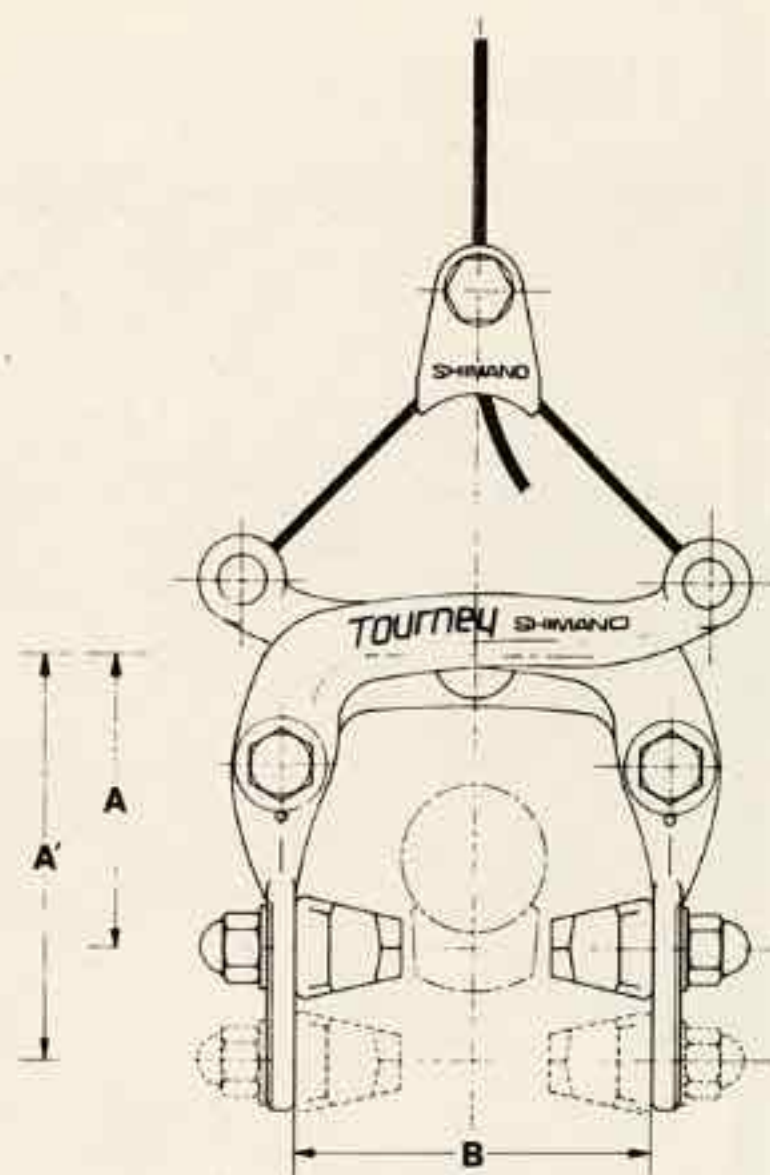
**Model B-120**

Front 6.5 oz. (185 g)

Rear 6.5oz. (185g)

Material: Light Alloy

Type: Caliper Brake Center Pull



| Type  | Model No. | A-A'                        | B             | Use |
|-------|-----------|-----------------------------|---------------|-----|
| CC-65 | B-110     | 47mm(1-7/8") - 65mm(2-1/2") | 59mm(2-5/16") | 27" |
| CC-75 | B-120     | 57mm(2-1/4") - 75mm(3")     | 65mm(2-1/2")  | 26" |

## BRAKE LEVER

Hooded Lever (22.2φ)

**Model M-110**

Hooded Lever (23.8φ)

**Model M-120**

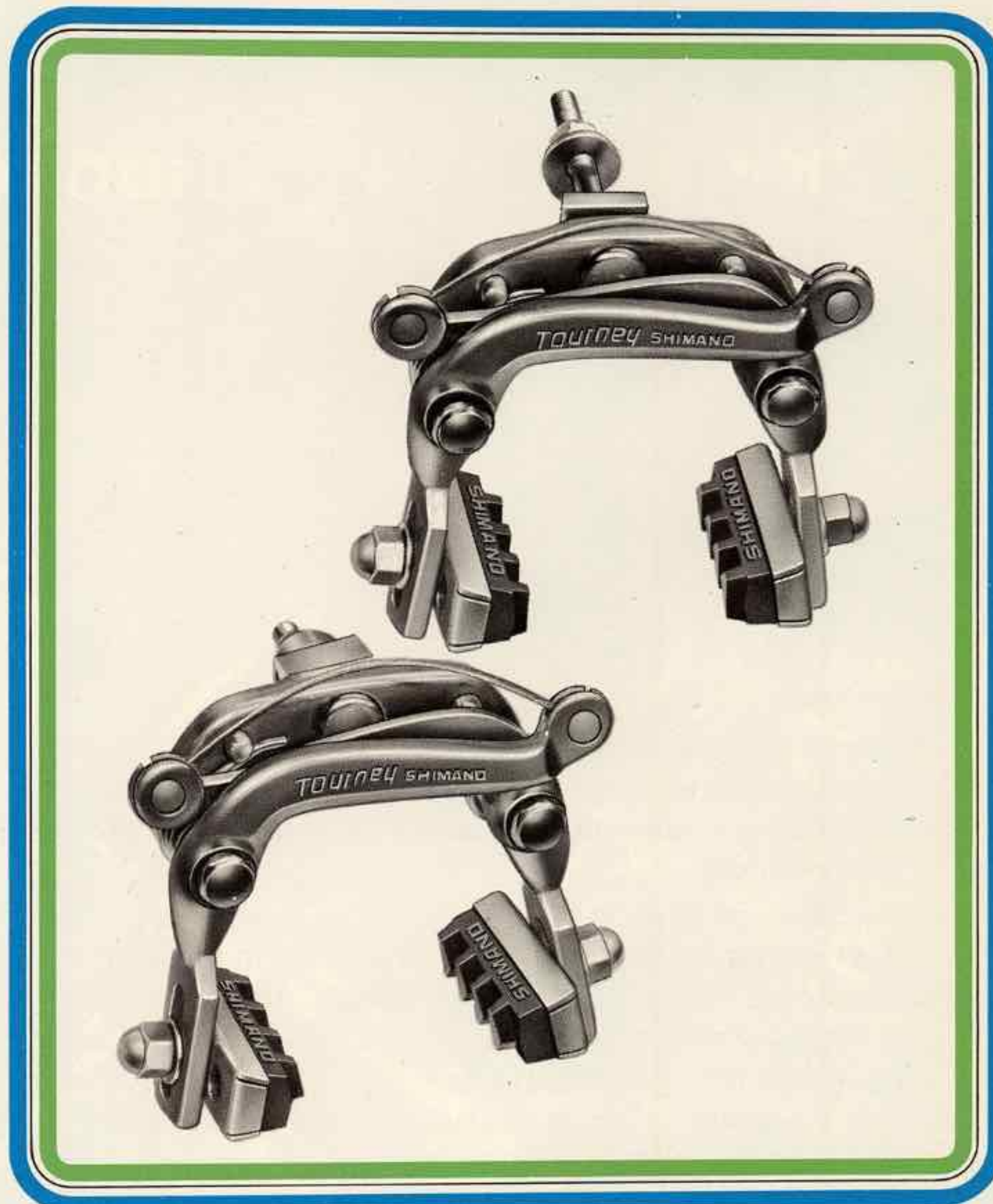
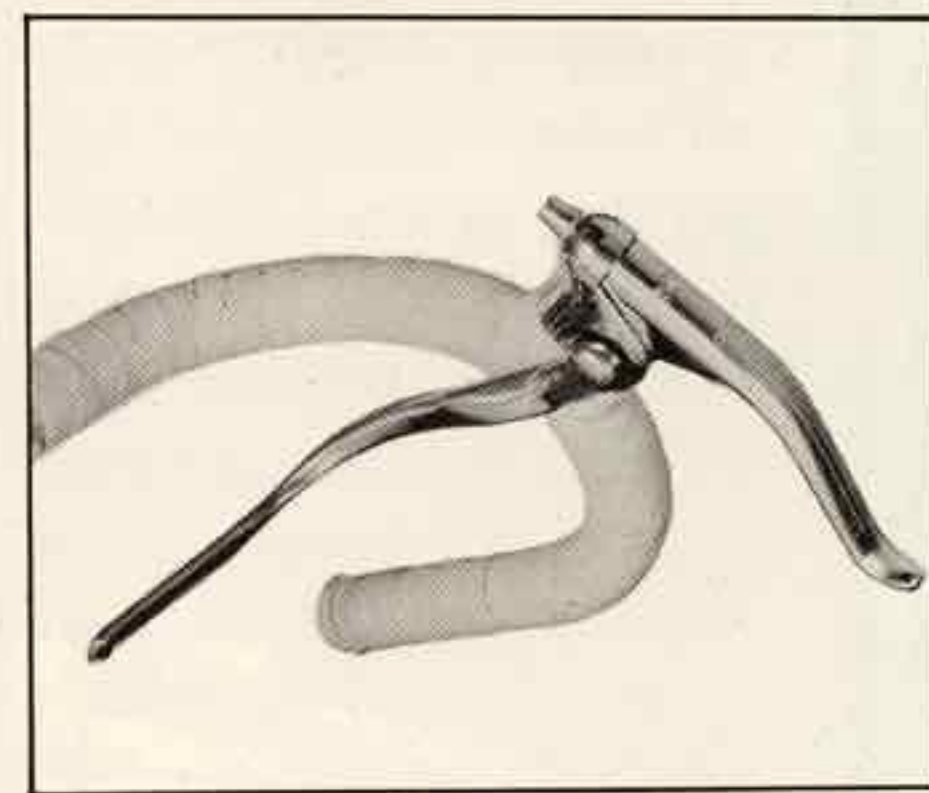


Dual Extention Lever (22.2φ)

**Model M-210**

Dual Extention Lever (23.8φ)

**Model M-220**



## CALIPER BRAKE

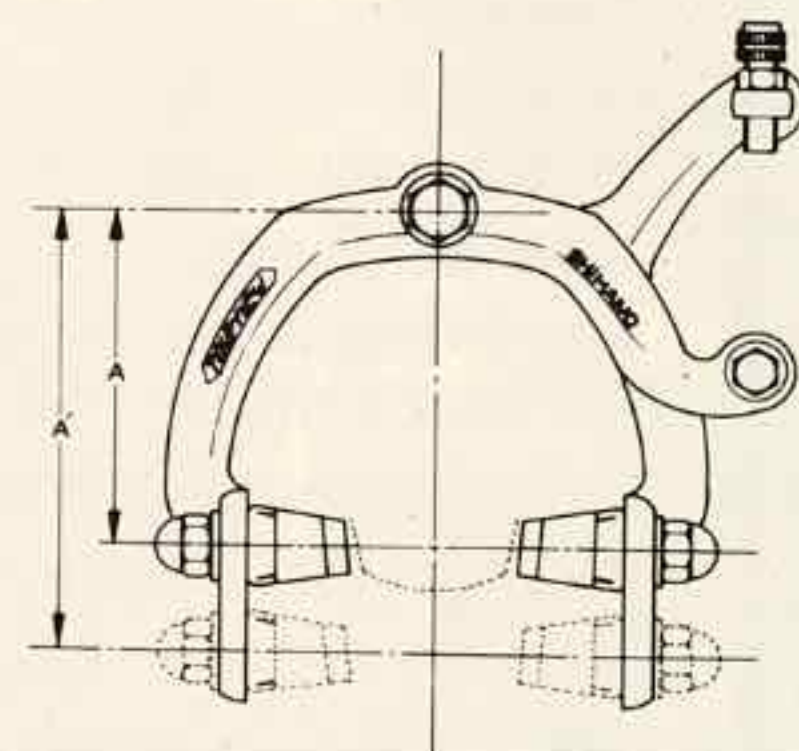
Models B-220 / B-230

*Tourney*

### SPECIFICATIONS

Material: Light Alloy

Type: Caliper Brake Side Pull

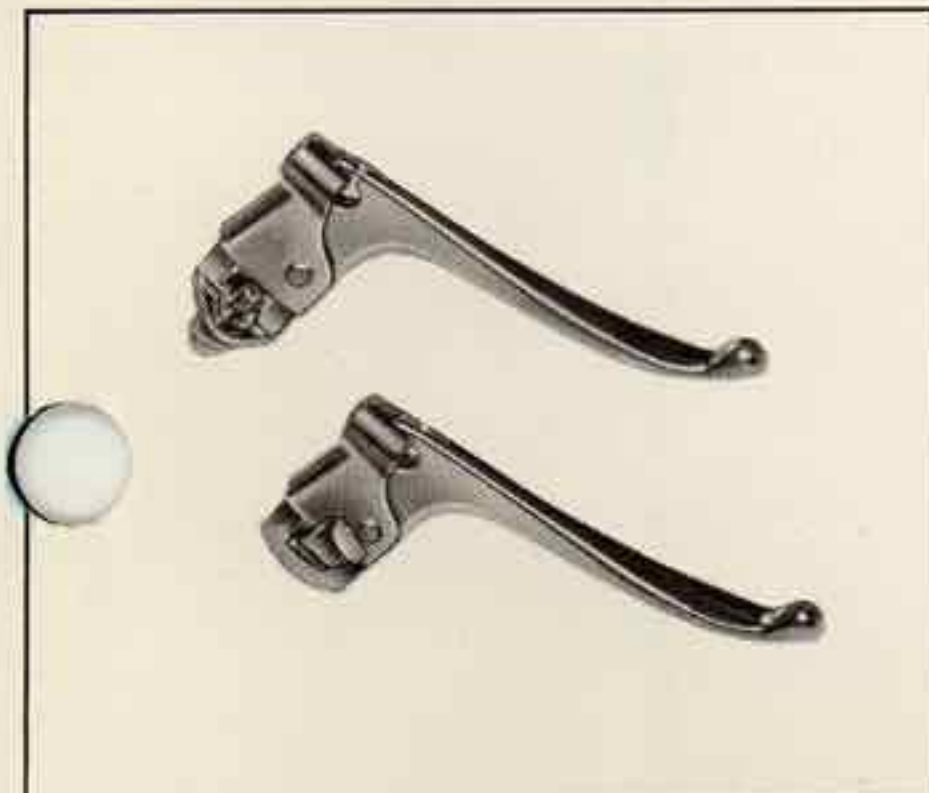


| Type  | Model No. | A-A'                    |
|-------|-----------|-------------------------|
| CS-79 | B-220     | 61mm(2.4") - 79mm(3.1") |
| CS-72 | B-230     | 54mm(2.1") - 72mm(2.8") |

## BRAKE LEVER

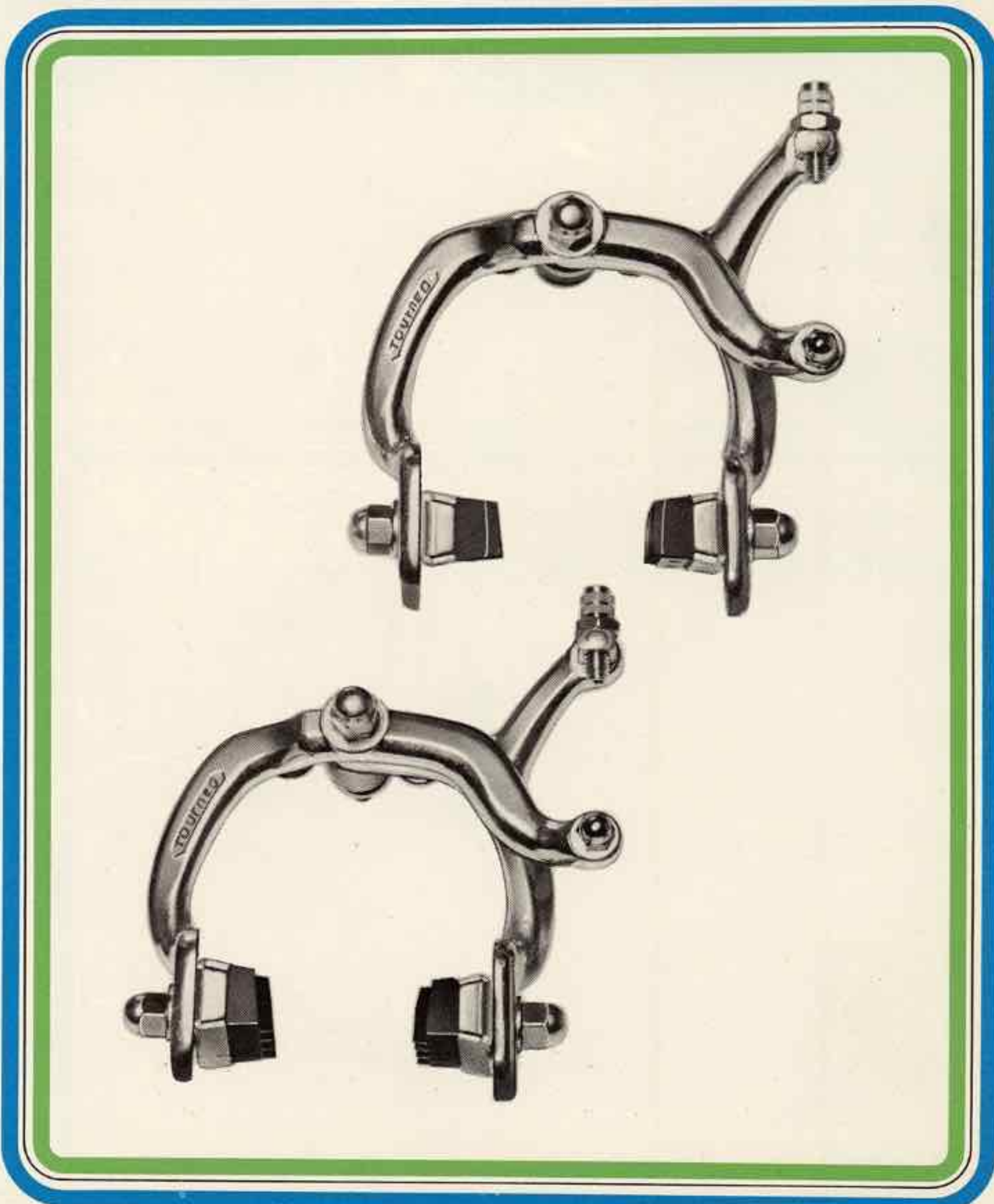
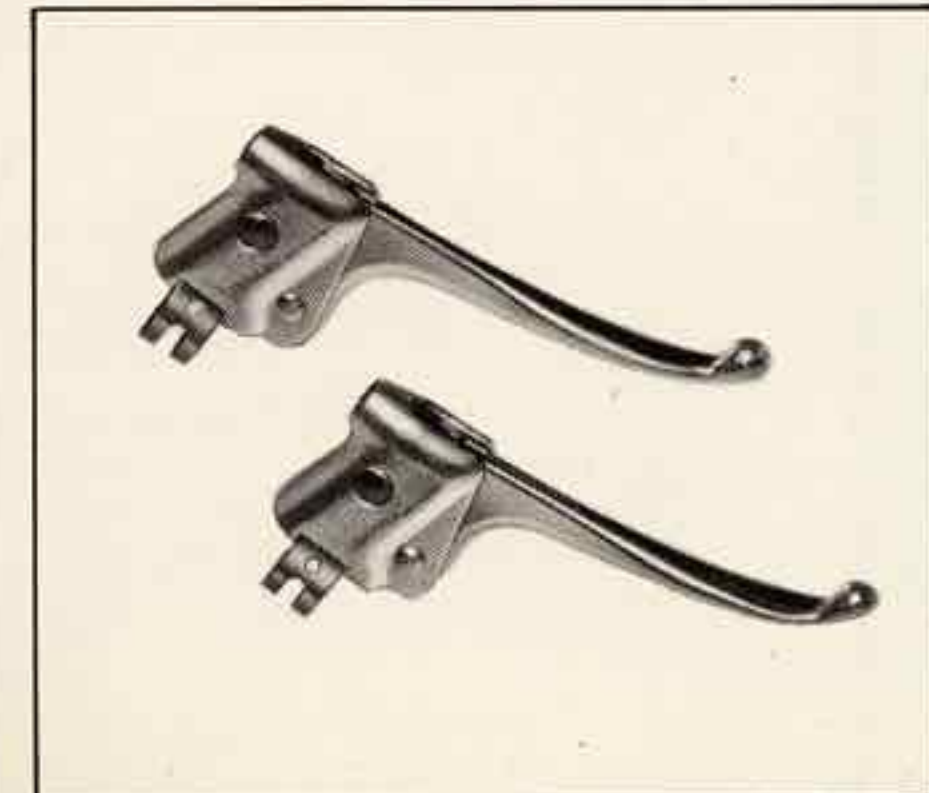
Popular Lever (22.2φ)

**Model M-410**



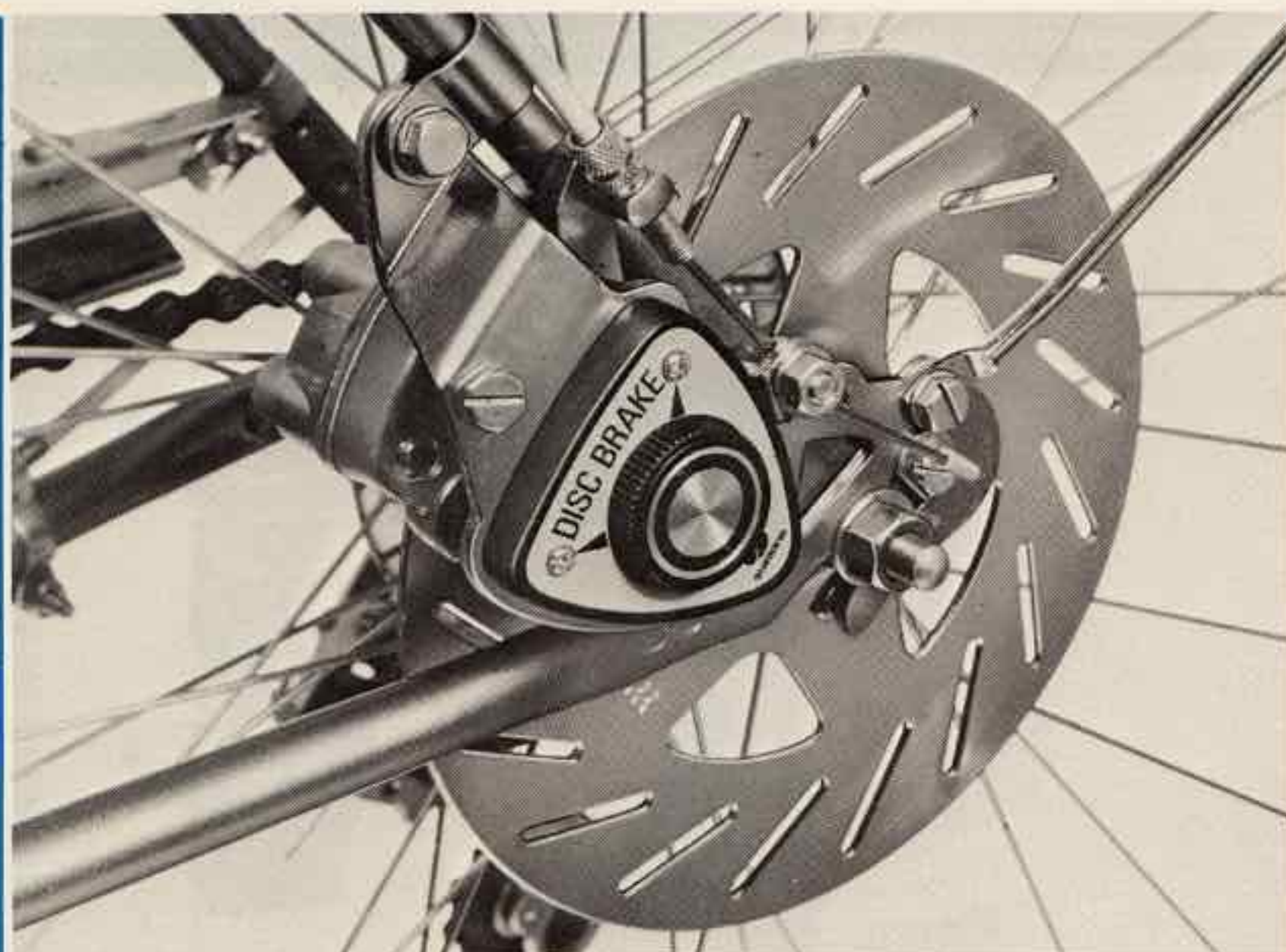
Tourist Lever (22.2φ)

**Model M-310**



# SHIMANO Coaster and Disc Brakes

## DISC BRAKE



### Features

#### \* Strong Braking Force

Free from braking shocks. The bicycle stops smoothly and surely. Superior in braking force to any other type of brake.

#### \* No Slippage Even in Rain

Rain or shine, there is almost no change in braking efficiency, thanks to a unique design. This means greater safety for cyclists.

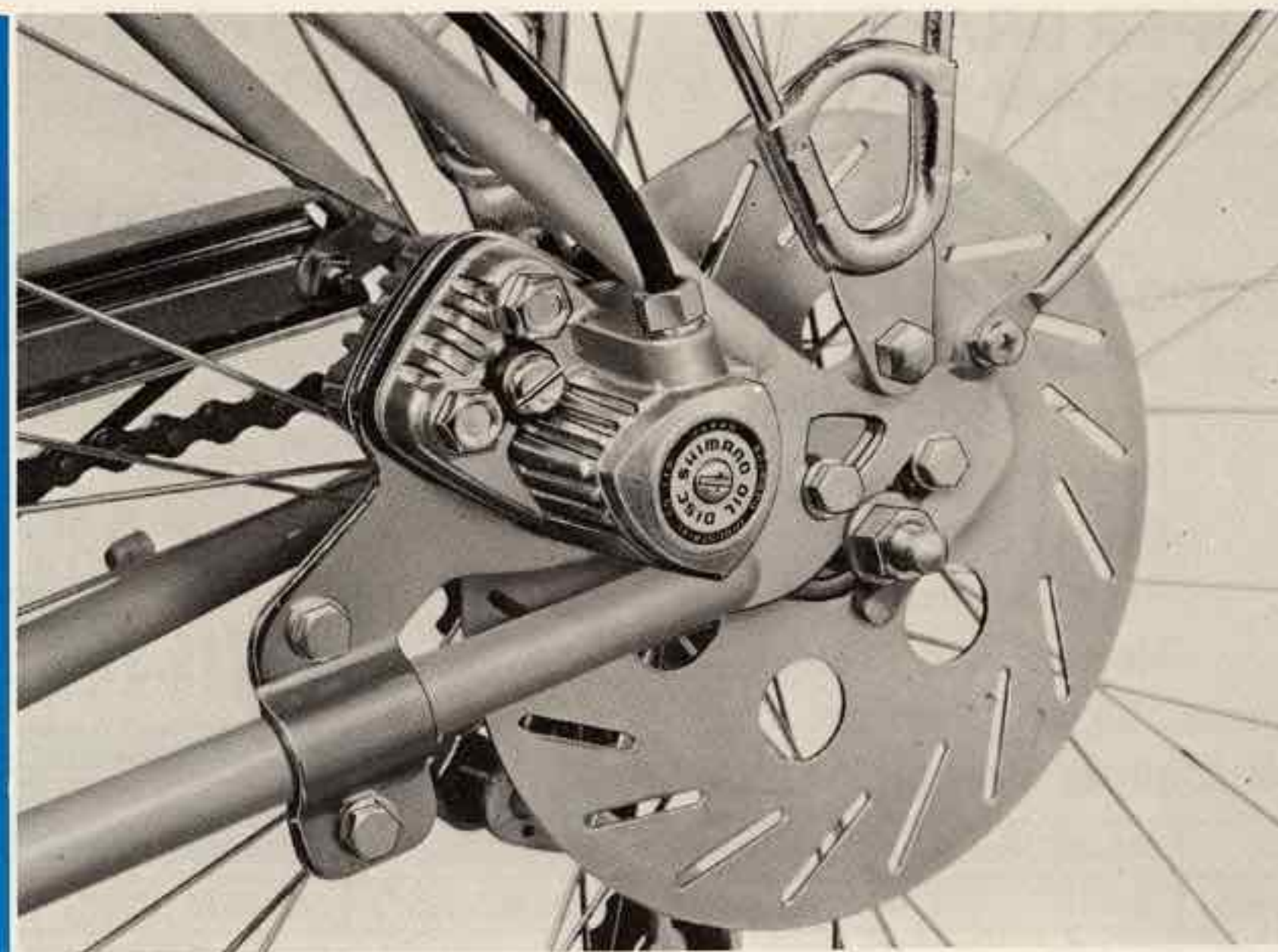
#### \* Long Pad (Friction Plate) Life

The pads are made of special material to increase wear resistance. Their service life is greatly extended.

#### \* Easy Installation and Adjustment

Marked mechanical improvements have been made and the design has been simplified for quicker and easier installation, adjustment and pad replacement.

## HYDRAULIC DISC BRAKE



### Features

#### \* Outstanding All-Weather Performance

Its performance is outstanding under all road conditions and remains consistently high, rain or shine. The brake pads clamp the brake disc securely even when soaked wet with rain water. Because the brake is applied hydraulically, there is no danger of wheel locking, causing the bicycle to skid.

#### \* No loss of transmitted braking power

The hydraulic transmission braking system is free from power loss due to cable friction or other causes.

#### \* Smooth and shockless

A powerful braking force free of the danger of locking wheels means that bicycle comes to a stop smoothly and without shock. There is danger of neither skidding nor failing in emergency stops.

#### \* Rust-proof

Made of stainless steel, the brake disc always remains completely free of rust.

#### \* High durability

The brake pads developed especially by SHIMANO for this hydraulic disc brake feature marked durability and withstand the severest punishment.

#### \* Strong, resilient nylon hose

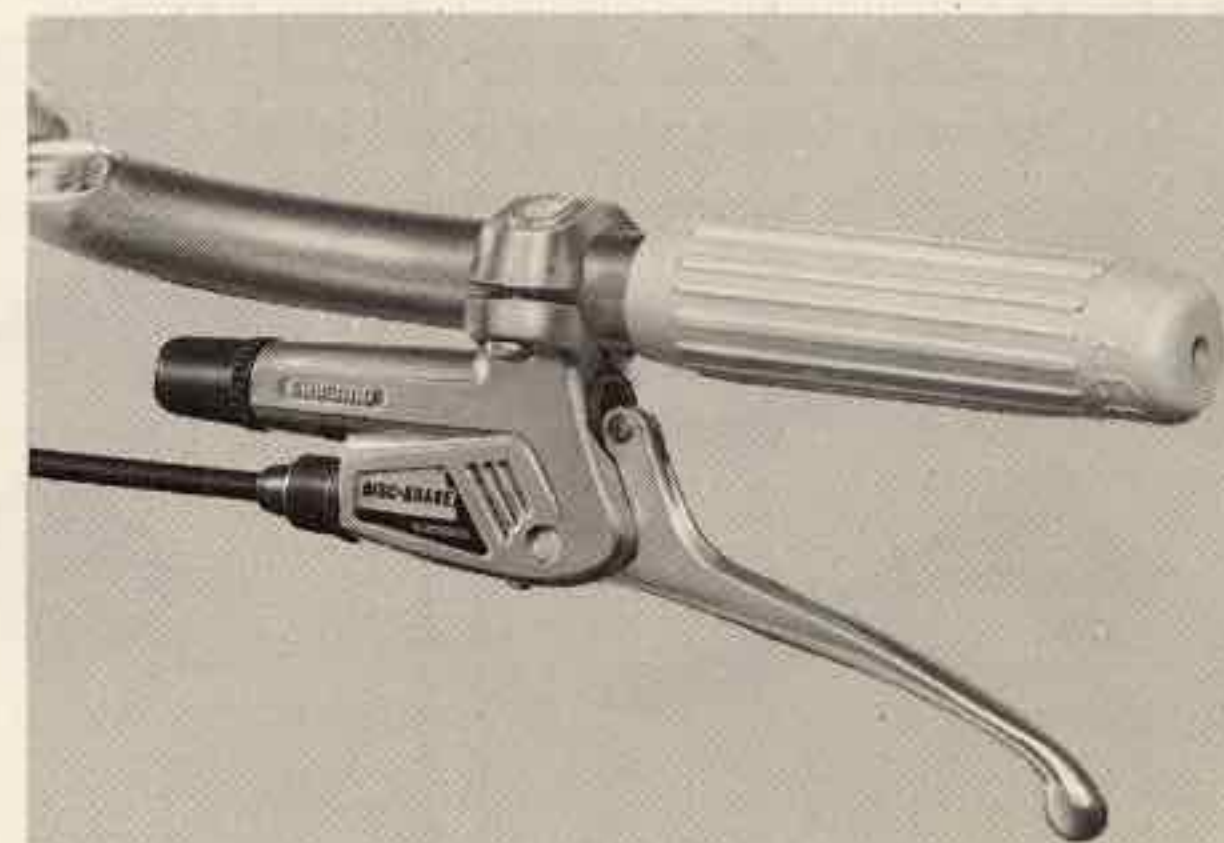
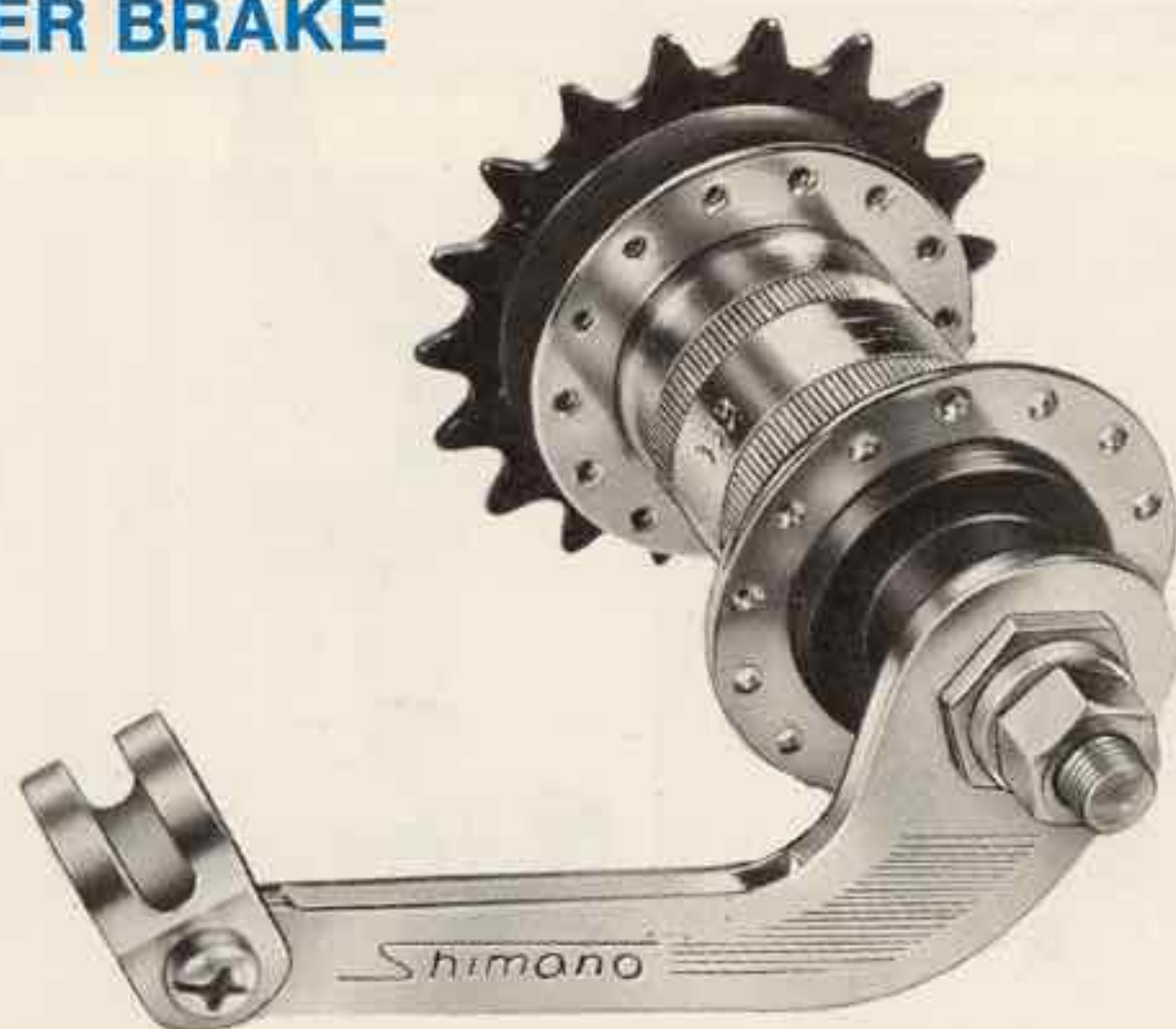
The nylon connecting hose employed in the hydraulic system is strong and resilient.

#### \* Easy maintenance and adjustment

Every part was designed with quick and easy maintenance and adjustment in mind. For instance, the pads on both sides of the disc plate are independently adjustable to maintain an proper clearance.

Model C-100

## COASTER BRAKE



# SHIMANO

## Head Parts & Fork End



### HEAD PARTS Model K-901

**DURA-ACE**

#### SPECIFICATIONS

Material: Chromium Bearing Steel  
Type: Road Type



### SHIMANO FORK ENDS

#### Model N-101

**SHIMANO-SF**

#### SPECIFICATIONS

Material: Steel  
Type: With Adjusting Bolt



### FORK ENDS Model N-102

**SHIMANO-LF**

#### SPECIFICATIONS

Material: Steel  
Type: Without Adjusting Bolt



Part No. 710 9004

Description: Axle Stopper Set (Option)



# SHIMANO

## Spoke Protectors

### Model P-100

#### SPECIFICATIONS

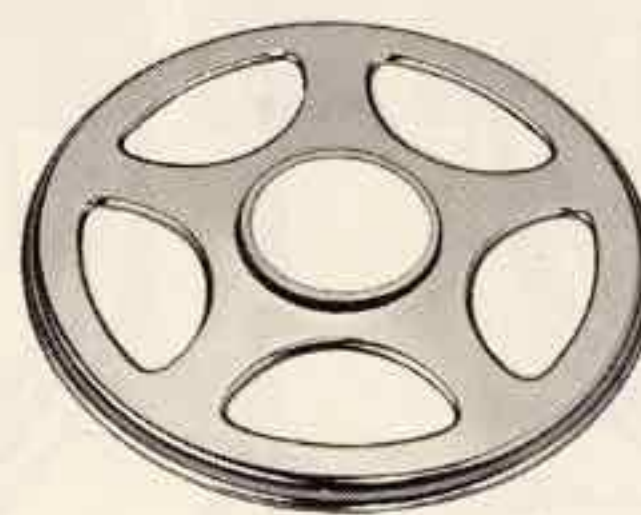
Diameter: 4-1/2" (110mm)  
Use Range: Low Gears  
Up to 24 teeth



### Model P-320

#### SPECIFICATIONS

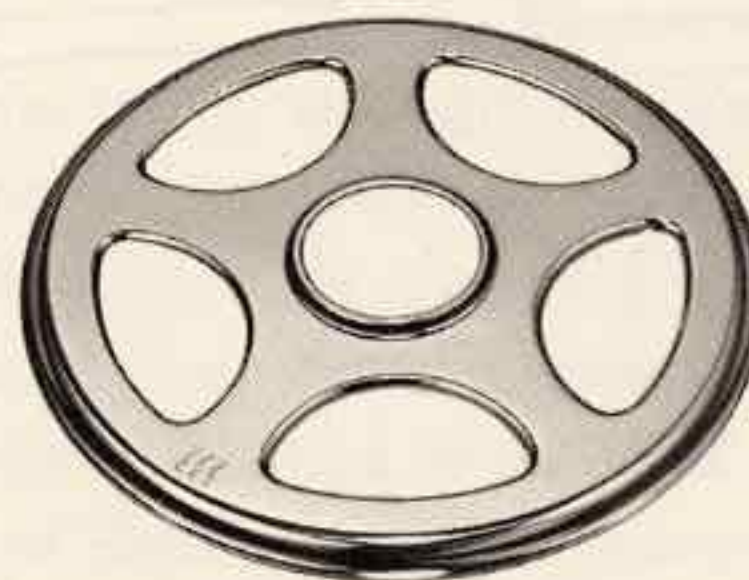
Diameter: 5" (123mm)  
Use Range: Low Gears  
Up to 28 teeth



### Model P-420

#### SPECIFICATIONS

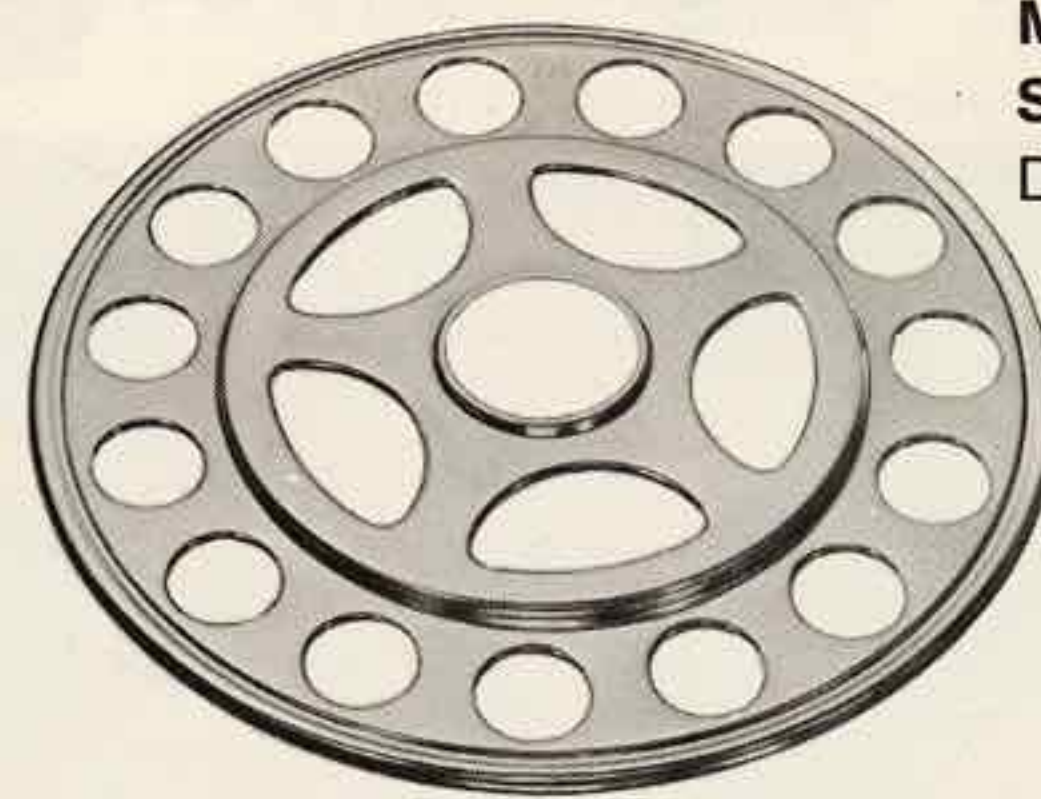
Diameter: 5-1/2" (145mm)  
Use Range: Low Gears  
Up to 32 & 34  
teeth



### Model P-310

#### SPECIFICATIONS

Diameter: 7-1/2" (190mm)  
Use Range: Low Gears  
Up to 28 teeth

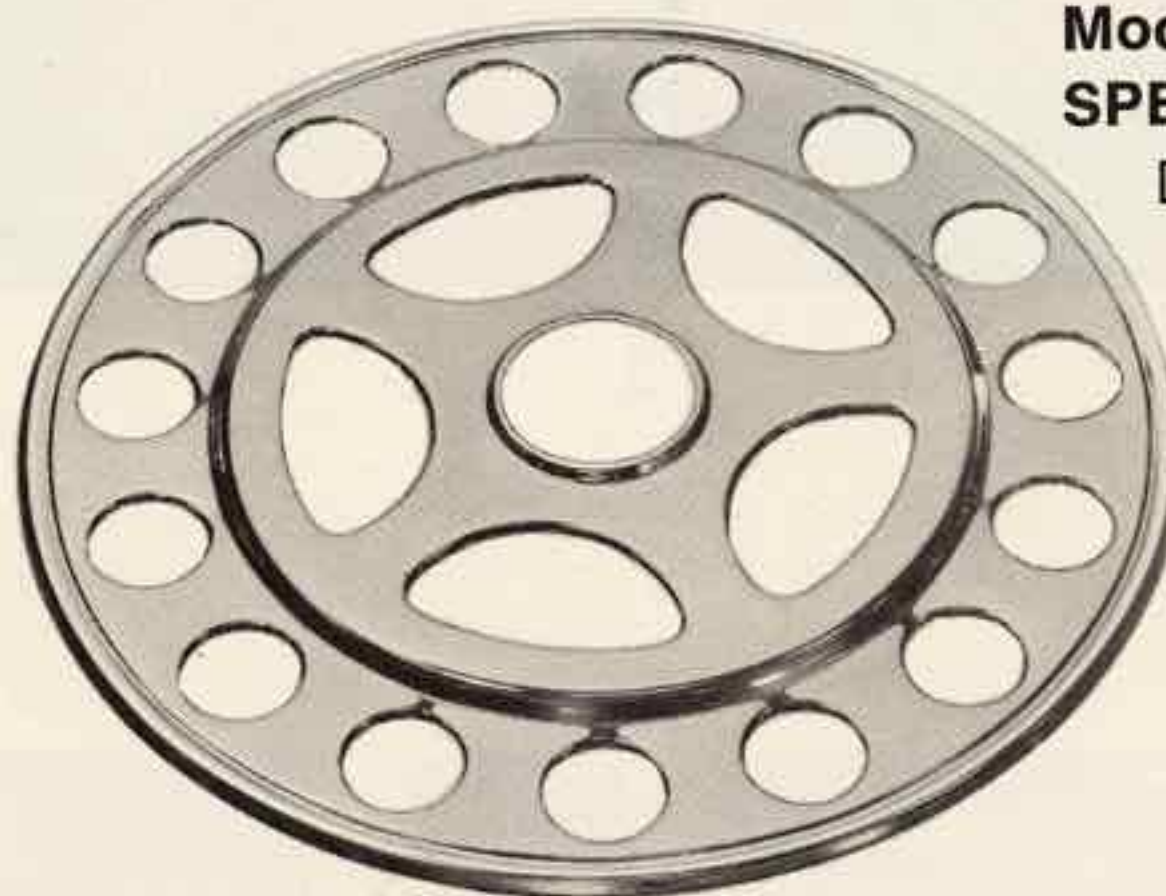


### Model P-410

#### SPECIFICATIONS

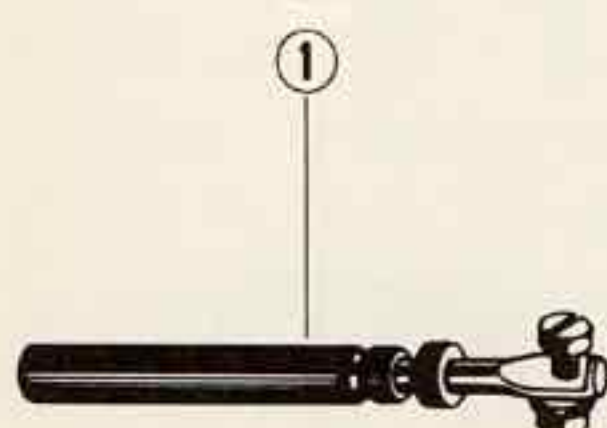
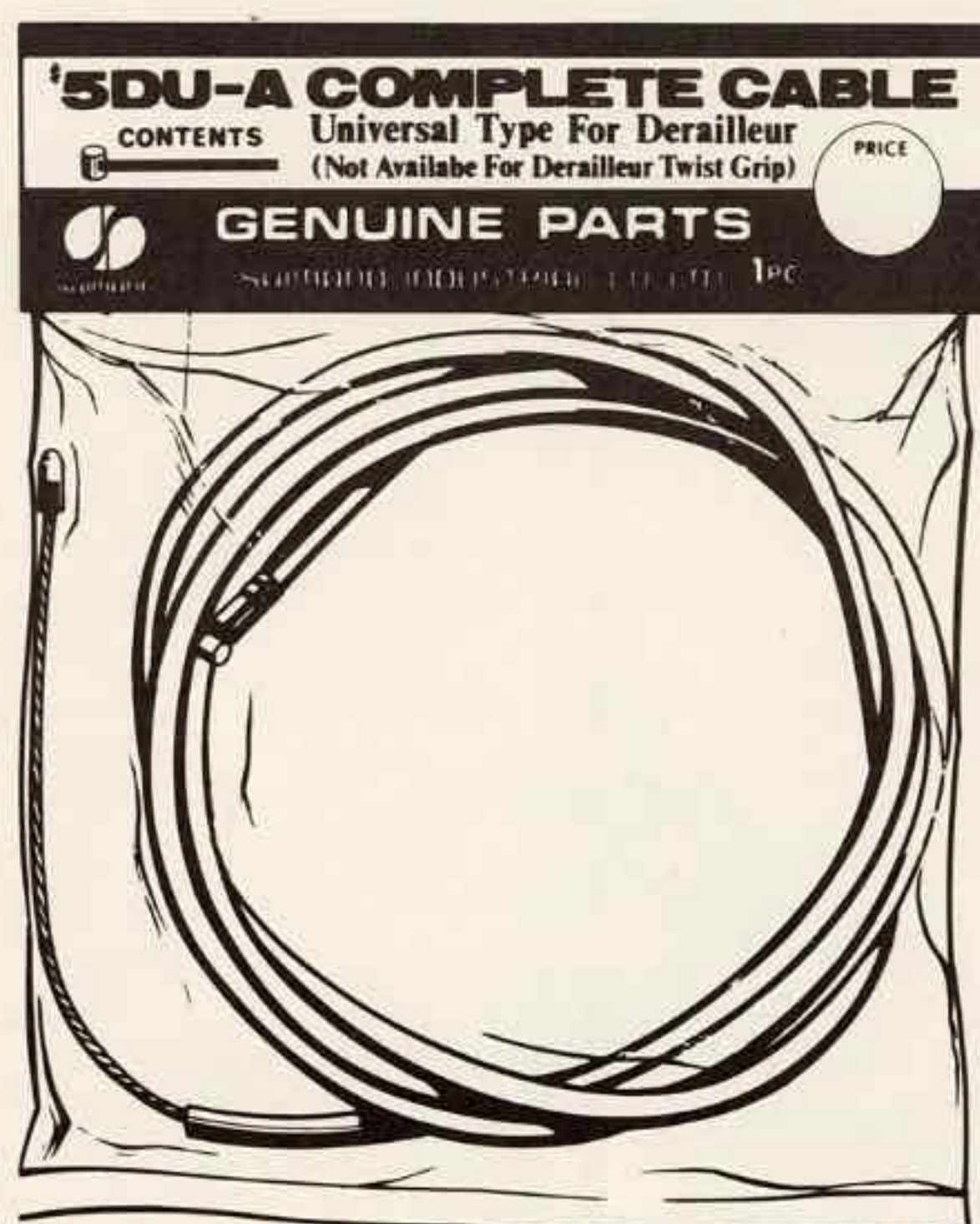
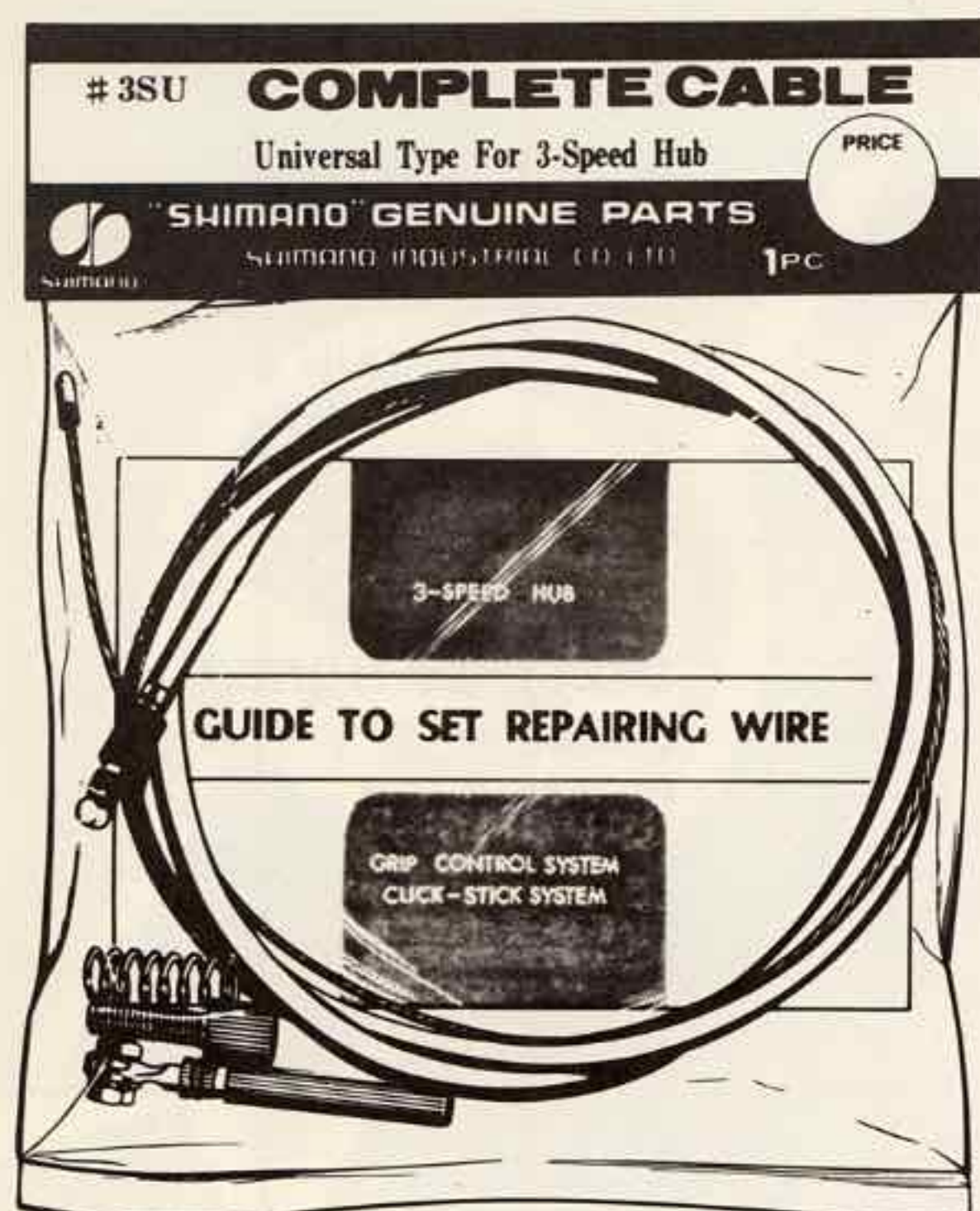
Diameter: 8-1/2" (215mm)

Use Range:  
Low Gears Up to 32  
& 34 teeth



### SPOKES & NIPPLES

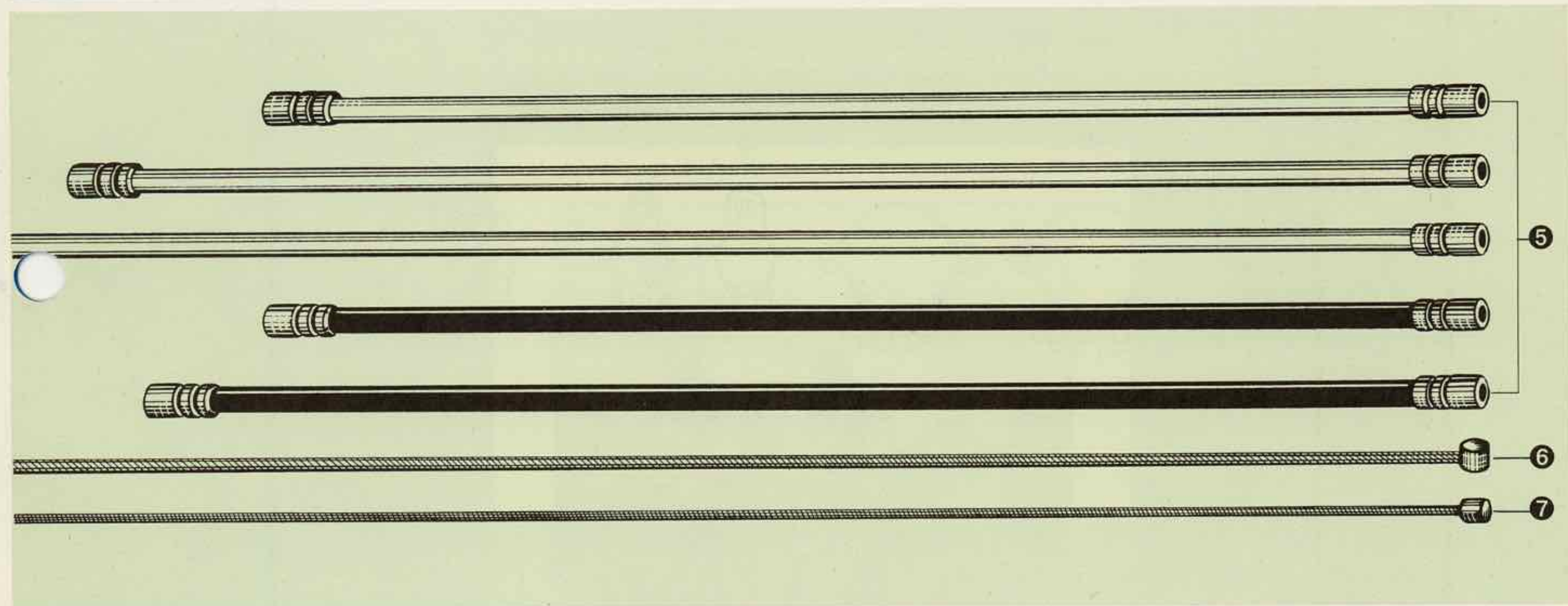
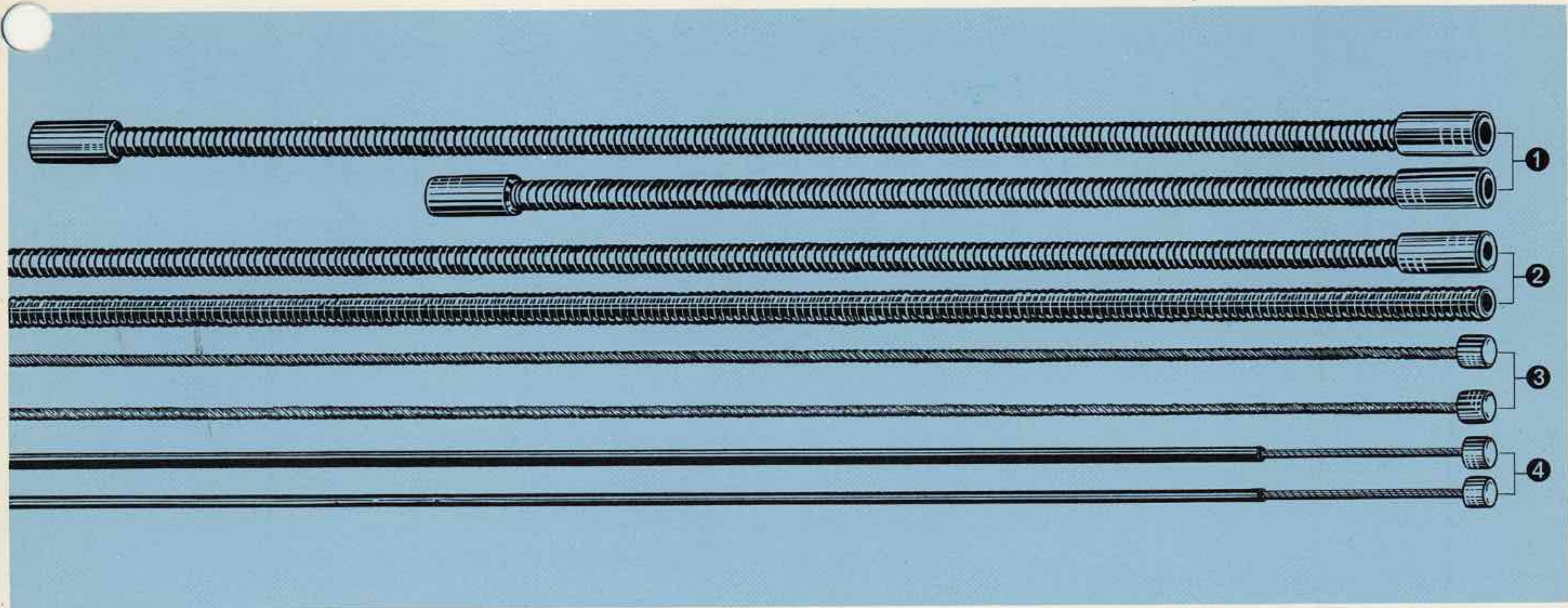




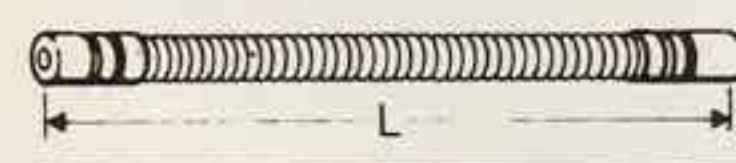
Universal joint **Model W-910**    3SU **Model W-911**    5DU-A **Model W-921**    5DU-B **Model W-922**

| ITEM NO. | MODEL NO. | PART NO. | DESCRIPTION                                                                                                                                                      | USAGE                                                           |
|----------|-----------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1        | W 910     | 643 9022 | Universal Joint                                                                                                                                                  | All Kinds of SHIMANO Three Speed Hub and Trimatic Control Lever |
| 2        | W 911     | 602 0100 | #3SU<br>3-Speed Universal Spare Cable with Universal Joint                                                                                                       |                                                                 |
| 3        | W 921     | 603 0810 | #5DU-A<br>5 and 10-Speed Universal Spare Cable.<br>Shape of Cable End  1.5φ | 5-Speed Click Stick and Console Lever                           |
| 4        | W 922     | 603 0820 | #5DU-B<br>5 and 10-Speed Universal Spare Cable.<br>Shape of Cable End  1.2φ | 5 and 10-Speed Ordinary Lever                                   |

# SHIMANO Outer Casings & Inner Cables

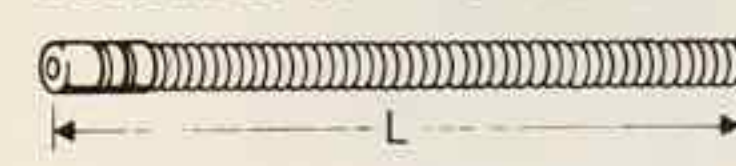


**① STAINLESS OUTER CASING with BOTH CAPS**



| Model | Length |
|-------|--------|
| W-601 | 170mm  |
| W-602 | 280mm  |

**② STAINLESS OUTER CASING with ONE CAPS**



| Model | Length |
|-------|--------|
| V-621 | 600mm  |
| W-622 | 630mm  |
| W-623 | 670mm  |

**③ INNER CABLE (1.5mmφ)**



| Model | Length  |
|-------|---------|
| W-641 | 1,180mm |
| W-642 | 670mm   |

**④ COATED INNER CABLE (1.2mmφ)**



| Model | Length  |
|-------|---------|
| W-121 | 1,800mm |
| W-122 | 1,850mm |
| W-123 | 1,900mm |
| W-124 | 1,320mm |
| W-125 | 1,360mm |
| W-126 | 1,400mm |

**⑤ OUTER CASING with BOTH CAPS**



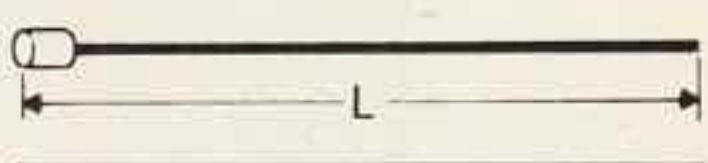
| Model | Length  |
|-------|---------|
| W-501 | 180mm   |
| W-502 | 250mm   |
| W-503 | 280mm   |
| W-504 | 360mm   |
| W-505 | 530mm   |
| W-506 | 1,030mm |
| W-507 | 1,360mm |
| W-508 | 1,550mm |

**⑥ INNER CABLE (1.5mmφ)**

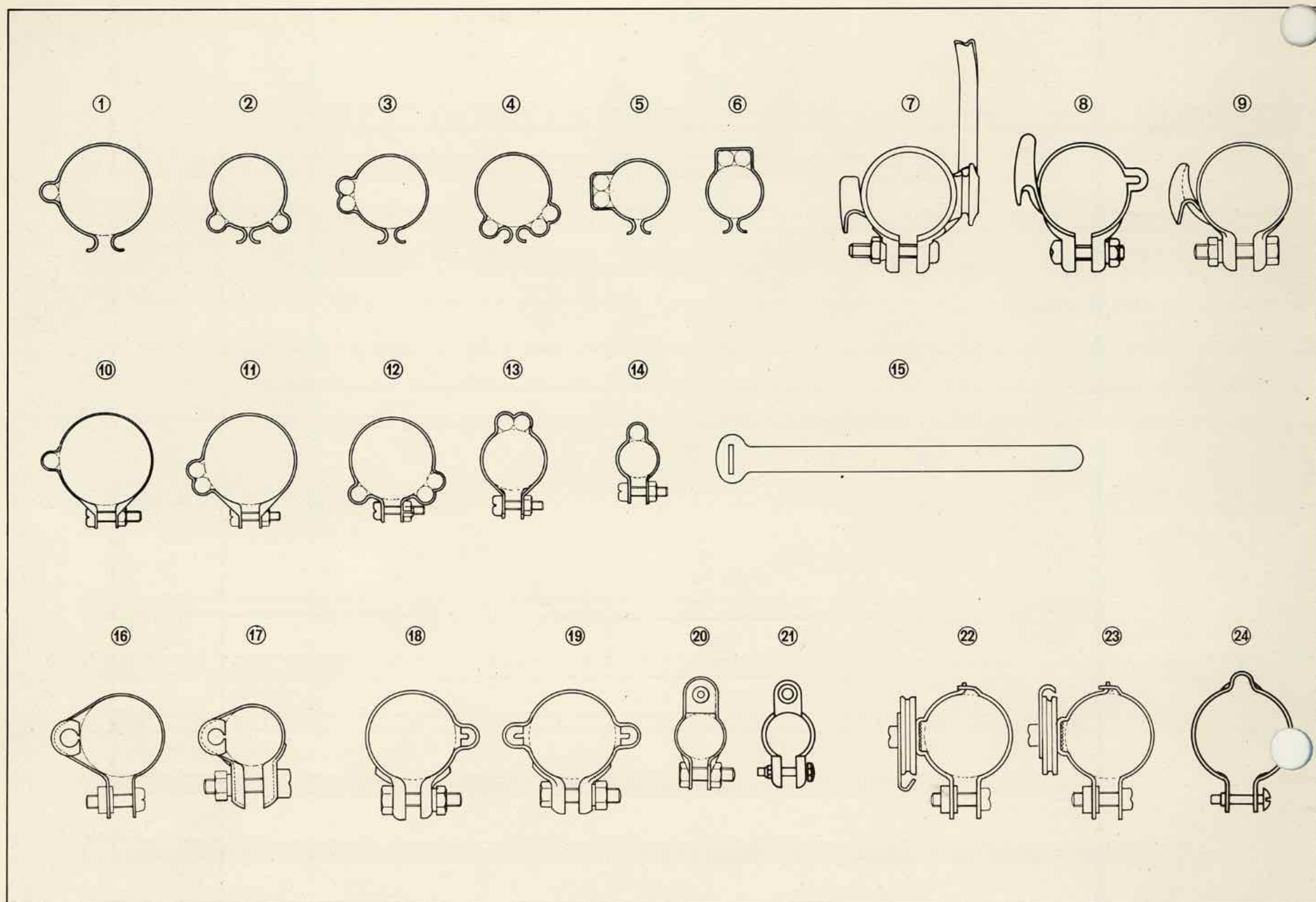


| Model | Length  |
|-------|---------|
| W-201 | 670mm   |
| W-202 | 750mm   |
| W-203 | 1,030mm |
| W-204 | 1,180mm |
| W-205 | 1,360mm |
| W-206 | 1,550mm |
| W-207 | 1,650mm |

**⑦ INNER CABLE (1.2mmφ)**



| Model | Length  |
|-------|---------|
| W-101 | 670mm   |
| W-102 | 750mm   |
| W-103 | 1,030mm |
| W-104 | 1,180mm |
| W-105 | 1,360mm |
| W-106 | 1,550mm |
| W-107 | 1,650mm |



| ITEM NO. | CODE NO. | DESCRIPTION | inch (mm)                      | ITEM NO. | CODE NO. | DESCRIPTION         | inch (mm)                      |
|----------|----------|-------------|--------------------------------|----------|----------|---------------------|--------------------------------|
| 1        | 643 1000 | Outer Clip  | A-type 1 1/8" (28.6)           | 14       | 651 9107 | Outer Band          | E-type 1/2" (12.7) M3.0 x 14   |
|          | 643 0900 | Outer Clip  | A-type 1" (25.4)               |          | 651 9108 | Outer Band          | E-type 3/16" (11.1) M3.0 x 14  |
|          | 643 2200 | Outer Clip  | A-type 7/8" (22.2)             | 15       | 611 0501 | Outer Band          | 5.9" (150)                     |
|          | 643 8000 | Outer Clip  | A-type 3/4" (19.0)             |          | 611 0500 | Outer Band          | 4.52" (115)                    |
|          | 643 0700 | Outer Clip  | A-type 5/8" (15.9)             |          | 611 0600 | Outer Band          | 3.14" (80)                     |
|          | 643 0800 | Outer Clip  | A-type 1/2" (12.7)             | 16       | 611 9005 | Stopper Band A-type | 1 1/8" (28.6) M4.5 x 15        |
| 2        | 643 0901 | Outer Clip  | B-type 1" (25.4)               |          | 611 9006 | Stopper Band A-type | 1" (25.4) M4.5 x 15            |
| 3        | 611 3500 | Outer Clip  | C-type 1" (25.4)               |          | 611 9008 | Stopper Band A-type | 7/8" (22.2) M4.5 x 15          |
| 4        | 651 0800 | Outer Clip  | D-type 1" (25.4)               |          | 611 9010 | Stopper Band C-type | 3/4" (19.0) M4.5 x 24          |
| 5        | 611 3501 | Outer Clip  | E-type 3/4" (19.0)             | 17       | 611 9011 | Stopper Band C-type | 1 1/16" (17.5) M4.4 x 24       |
| 6        | 611 3502 | Outer Clip  | F-type 1 1/16" (17.5)          |          | 643 9044 | Stopper Band C-type | 5/8" (15.9) M4.5 x 24          |
| 7        | 622 9111 | Cable Guide | A-type 1 1/8" (28.6) M4.5 x 24 |          | 643 9045 | Stopper Band C-type | 1/2" (12.7) M4.5 x 24          |
| 8        | 622 9110 | Cable Guide | B-type 1 1/8" (28.6) M4.5 x 24 | 18       | 622 9106 | Cable Stop          | A-type 1 1/8" (28.6) M4.5 x 24 |
| 9        | 622 9010 | Cable Guide | C-type 1 1/8" (28.6) M4.5 x 24 | 19       | 622 9107 | Cable Stop          | B-type 1 1/8" (28.6) M4.5 x 24 |
| 10       | 651 9101 | Outer Band  | A-type 1" (25.4) M3.0 x 14     | 20       | 622 9105 | Cable Stop          | C-type 5/8" (15.9) M4.5 x 15   |
|          | 651 9102 | Outer Band  | A-type 1 1/8" (28.6) M3.0 x 14 |          | 622 9108 | Cable Stop          | C-type 1/2" (12.7) M4.5 x 15   |
| 11       | 651 9103 | Outer Band  | B-type 1" (25.4) M3.0 x 14     | 21       | 622 9112 | Cable Stop          | A-type 5/8" (15.9) M4.5 x 15   |
|          | 651 9104 | Outer Band  | B-type 1 1/8" (28.6) M3.0 x 14 | 22       | 611 9001 | Guide Roller        | A-type 1 1/8" (28.6) M4.5 x 15 |
| 12       | 651 9100 | Outer Band  | C-type 1" (25.4) M3.0 x 14     | 23       | 611 9002 | Guide Roller        | B-type 1" (25.4) M4.5 x 15     |
| 13       | 651 9105 | Outer Band  | D-type 3/4" (19.0) M3.0 x 14   |          | 654 9011 | Guide Roller        | B-type 5/8" (15.9) M4.5 x 12   |
|          | 651 9106 | Outer Band  | D-type 5/8" (15.9) M3.0 x 14   | 24       | 831 9011 | Cable Clip          | 1" (25.4) M3 x 11              |



**Model X-301**  
Plier for Three Speed Hub snap ring removal.



**Model X-302** Spanner for cone, lock nut adjustment of Three Speed Hub; Three Speed Hub with Coaster Brake; and Coaster Brake.



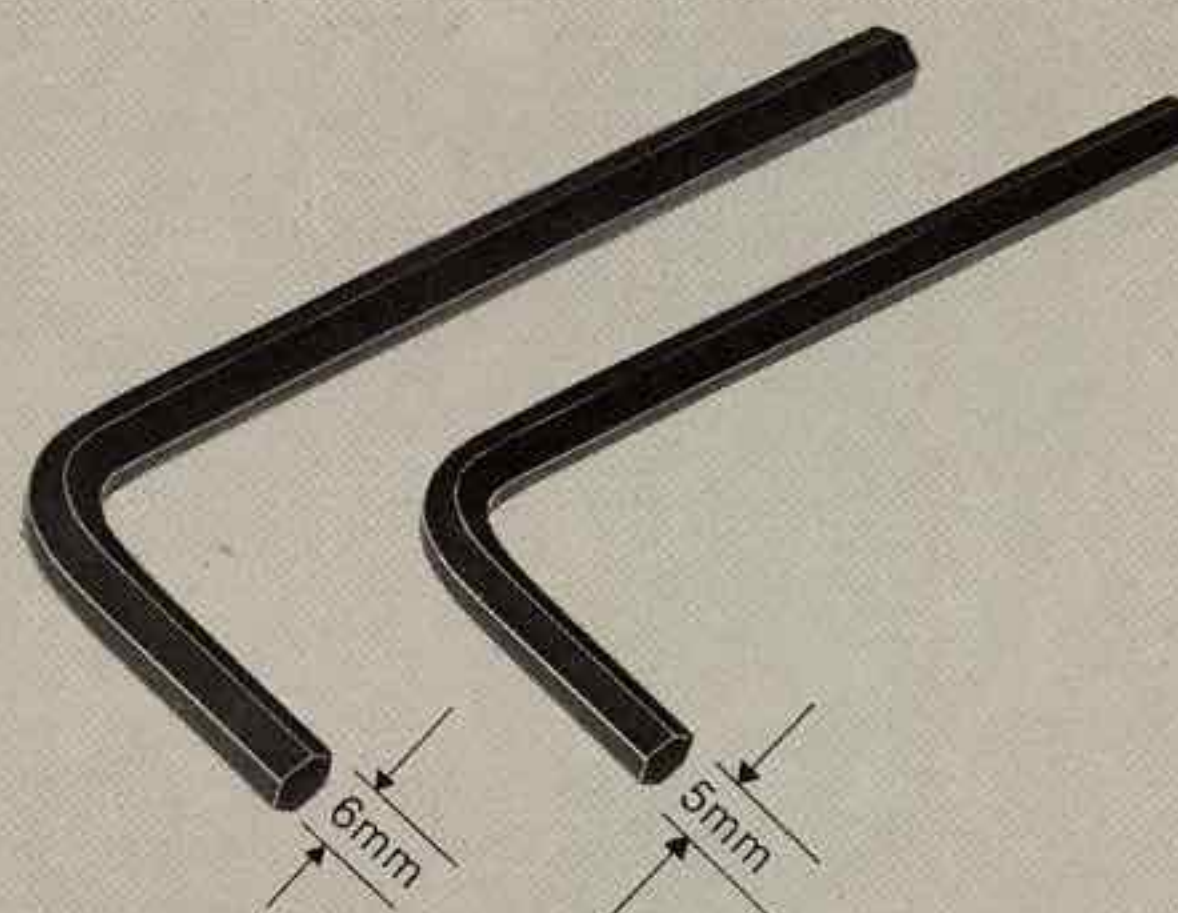
**Model X-402**  
Automatic 5-stage freewheel removal tool.



**Model X-401**  
Boss type multi-stage freewheel removal tool.



**Model X-303** Tool for removing ball cup for Three Speed Hub and Three Speed Hub with Coaster Brake.



**Model X-101 (5mm)**  
**Model X-102 (6mm)** Hexagon wrench keys.



**Model X-701**  
Cotterless crank extractor



**Model X-702**  
Chainwheel screw peg spanner

**SHIMANO INDUSTRIAL CO., LTD.**