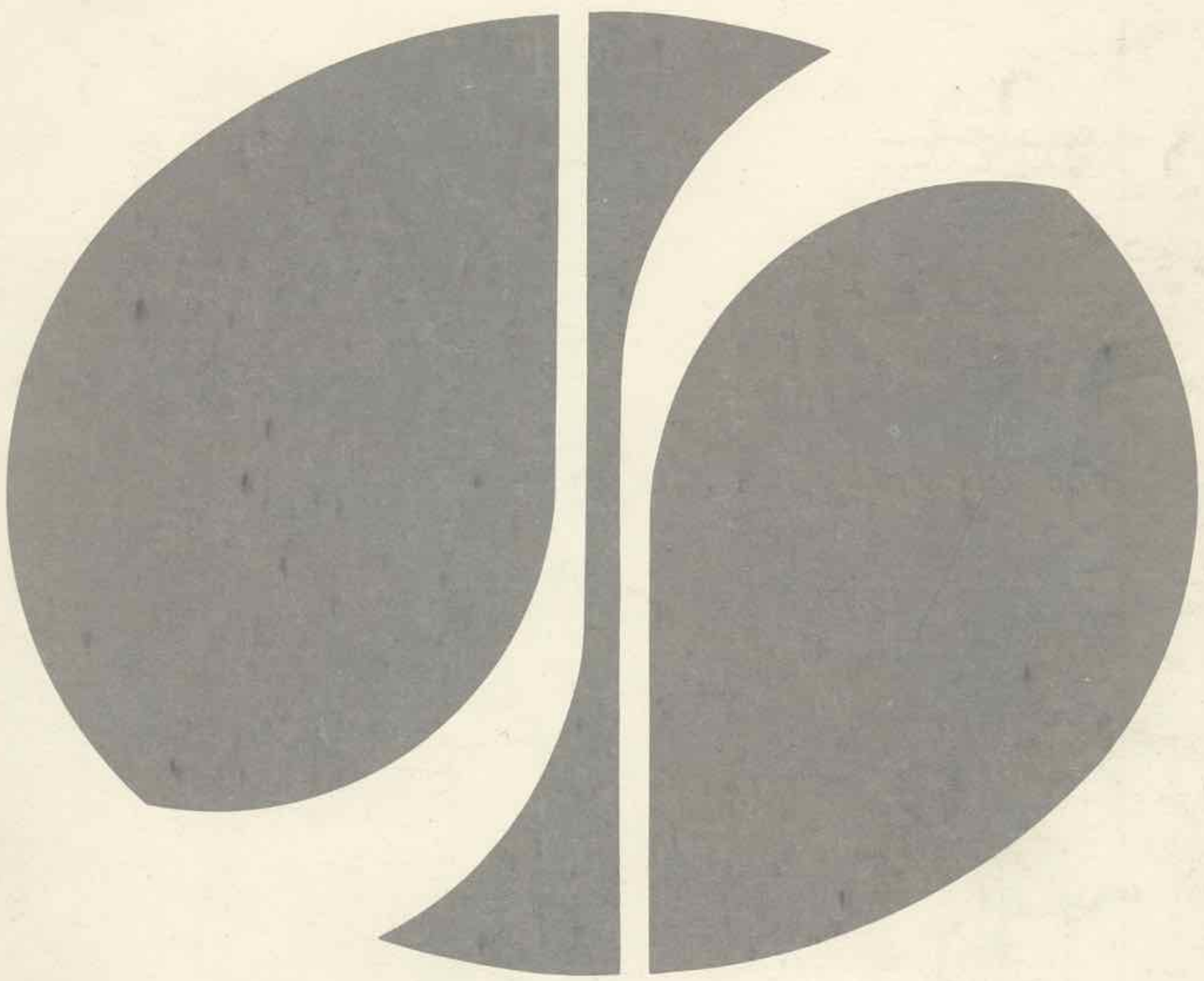
'74
SHIMANO
BICYCLE PARTS



SHIMANO

SHIMANO

SHIMANO AMERICAN CORPORATION
1133 Avenue of the Americas, New York,
N.Y. 10036 U.S.A. Tel. 212-586-2350

SHIMANO (EUROPA) GmbH.
4, Düsseldorf, Hüttenstrasse 5,
West Germany, Tel. 12541 & 12542

SHIMANO INDUSTRIAL CO., LTD.
3-77, Oimatsucho, Sakai, Osaka, Japan
Tel. 0722-45-0333

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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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SHIMANO

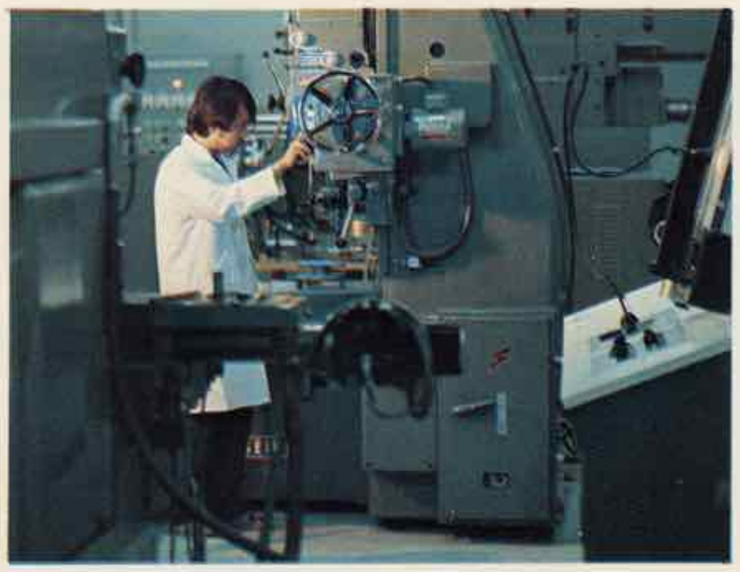


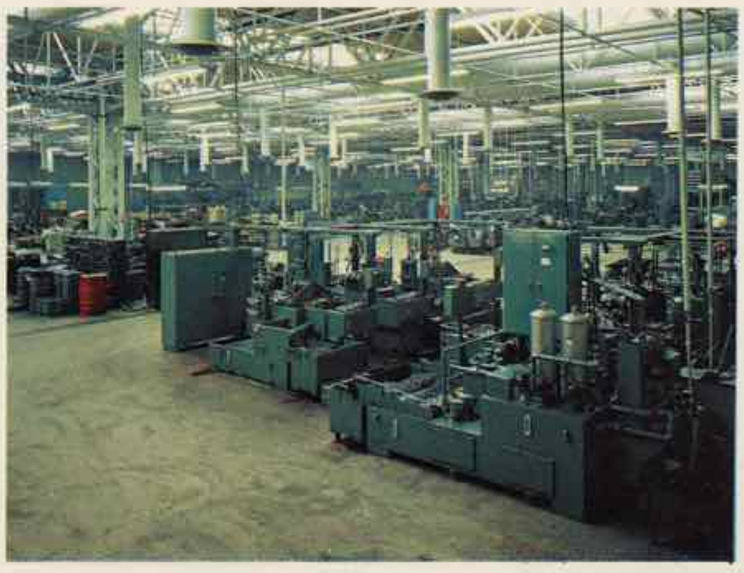
QUALITY SHIMANO

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

SHIMANO DURA-ACE
MADE IN JAPAN

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 micra-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.

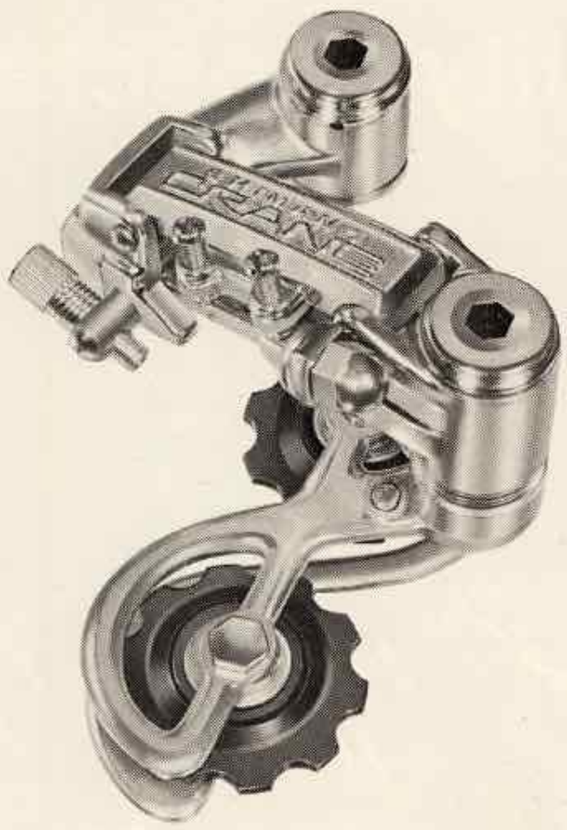
DURA-ACE means...to those who know and demand quality in bicycle components...the very highest in non-compromising value.

A-ACE SERIES

The peak of quality expectation



SHIMANO Rear Derailleurs

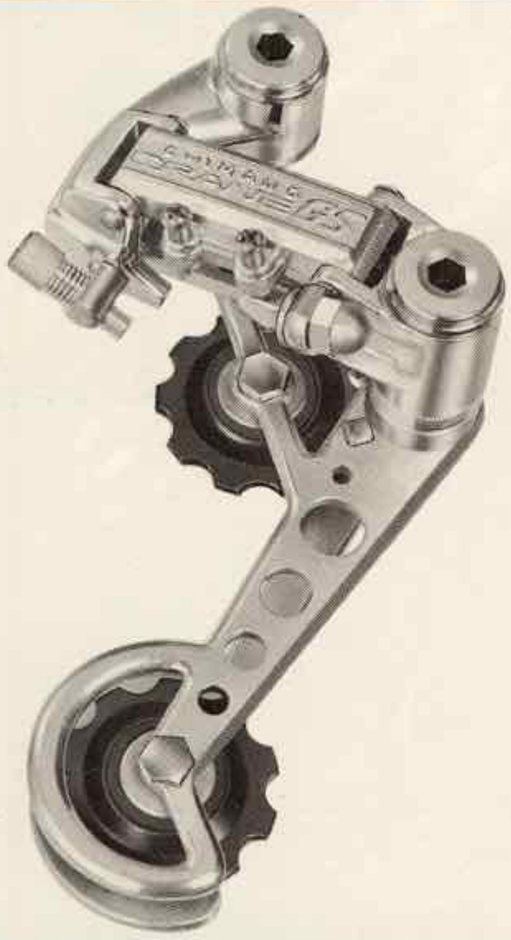


Model D-501

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

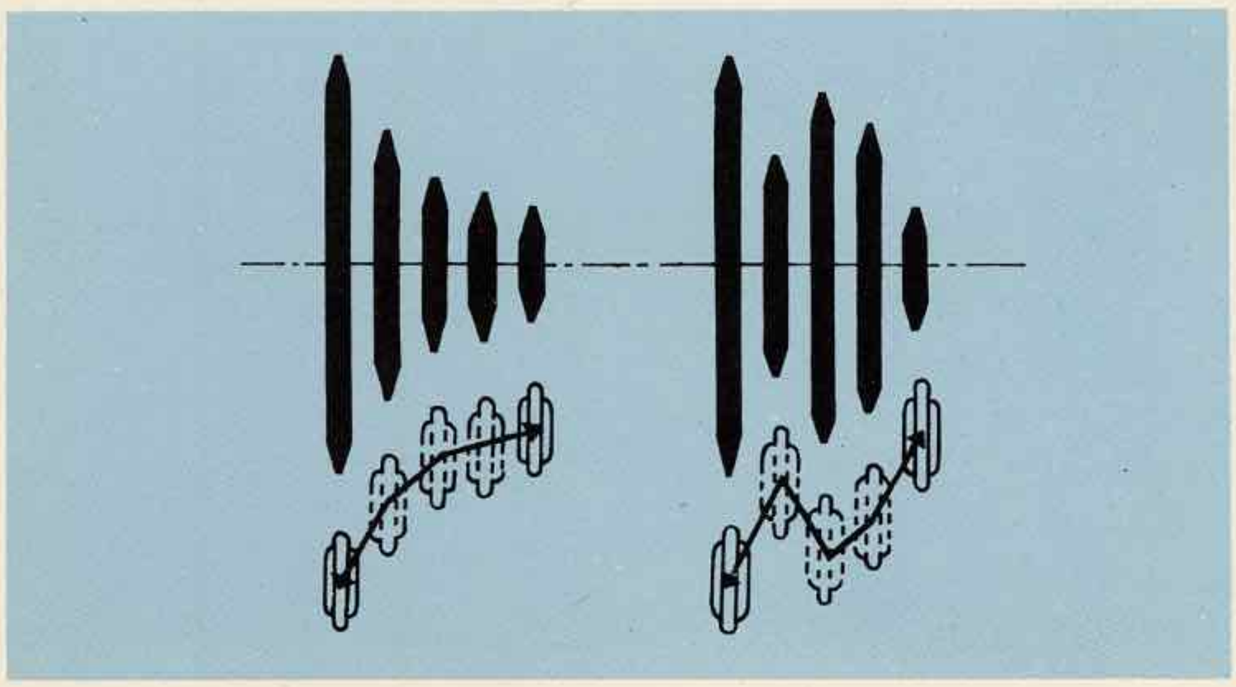


Model D-511

CRANE GS

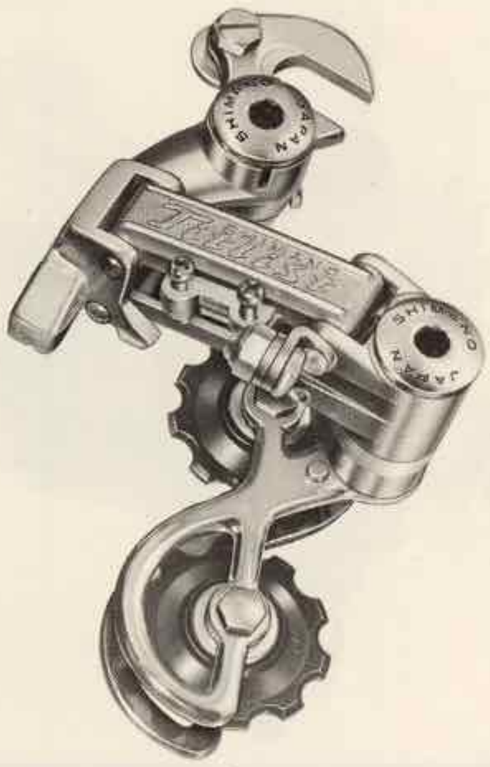
SPECIFICATIONS
Capacity: 34 teeth
Weight: 9.5 oz. (270 g)
Material: Light Alloy
Type: Servo Panta Mechanism (Long Cage Plate)
With Adaptor: Model D-510

SHIMANO
CRANE GS



Servo Panta Mechanism

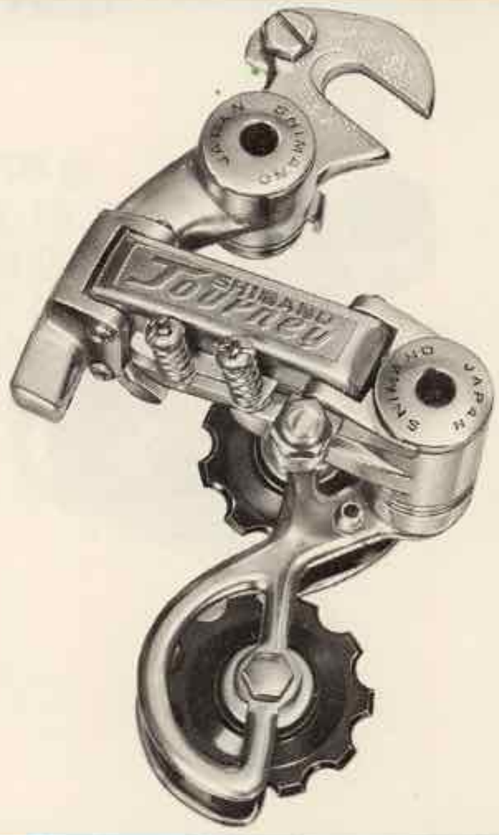
With the servo pantograph system, no matter how the teeth are assembled, or even if the front double gear is used, the distance between the sprocket teeth and the guide pulley is always practically the same. The special double oscillation movement of the guide pulley leads the chain, so lever operation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



Model D-600

Titlist

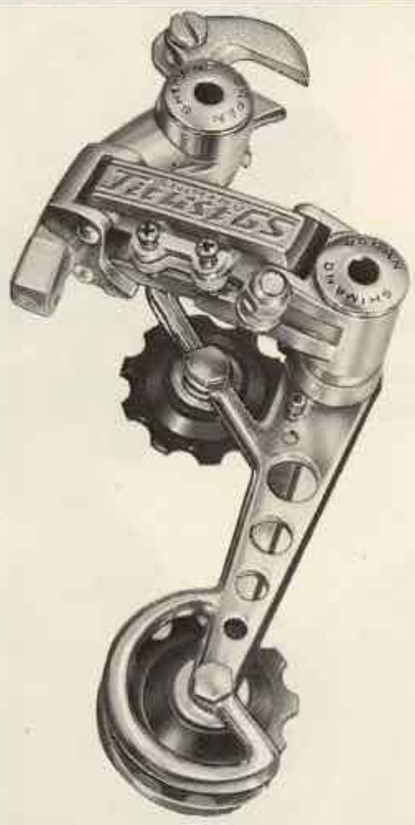
SPECIFICATIONS
Capacity: 28 teeth
Weight: 9.9 oz. (280 g)
Material: Light Alloy (Body), Steel (Cage Plate)
Type: Servo Panta Mechanism
Without Adaptor: Model D-601



Model D-700

Journey

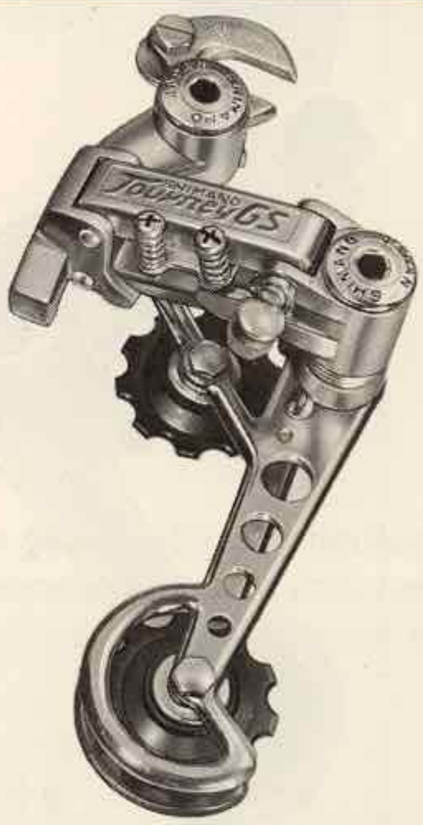
SPECIFICATIONS
Capacity: 28 teeth
Weight: 10.6 oz. (300 g)
Material: The Adaptor Member and Cage Plate Member are Light Alloy, but all Others are Steel.
Without Adaptor: Model D-701



Model D-610

Titlist GS

SPECIFICATIONS
Capacity: 34 teeth
Weight: 10.9 oz. (310 g)
Material: Light Alloy (Body), Steel (Cage Plate)
Type: Servo Panta Mechanism
Without Adaptor: Model D-611

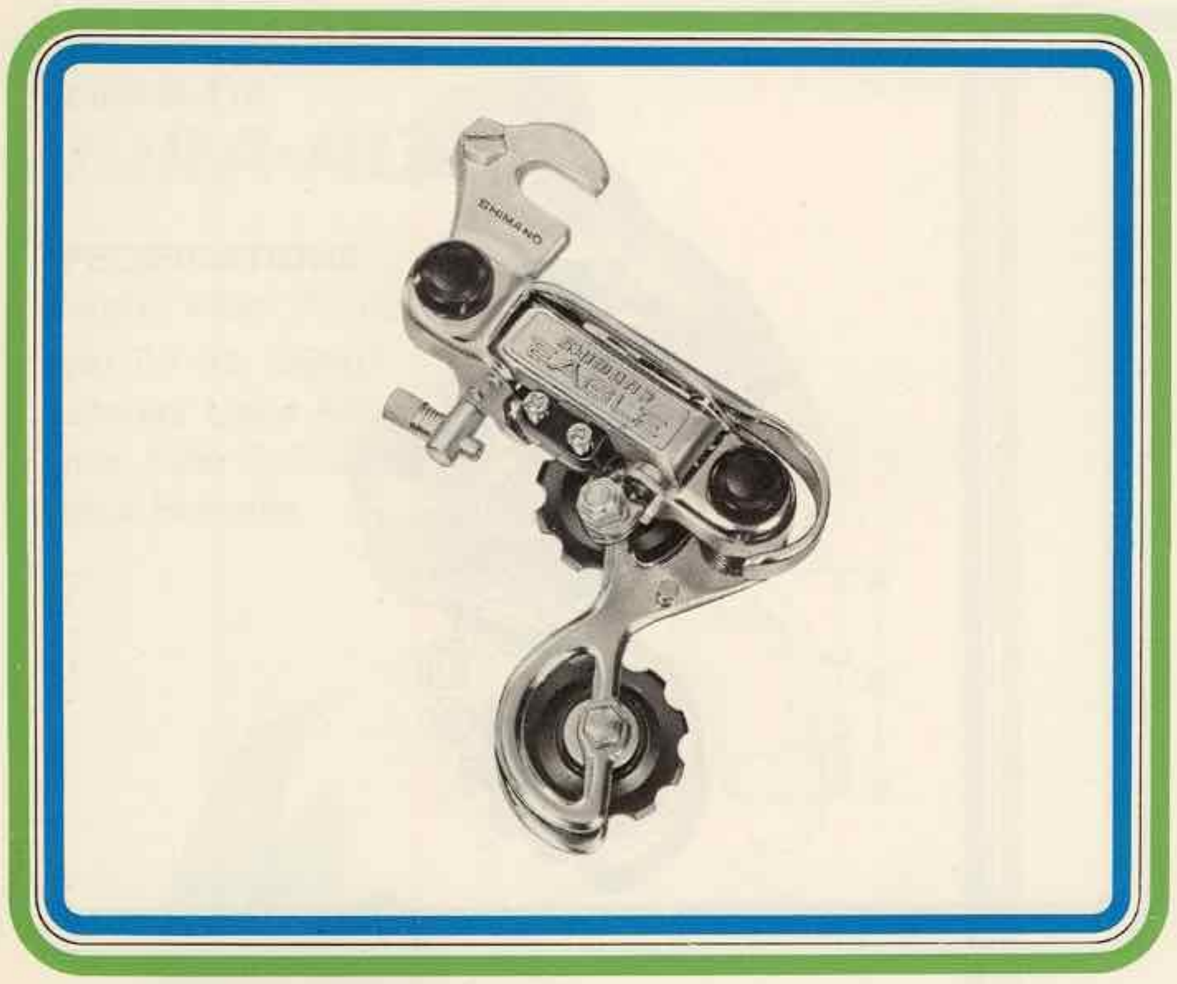


Model D-710

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

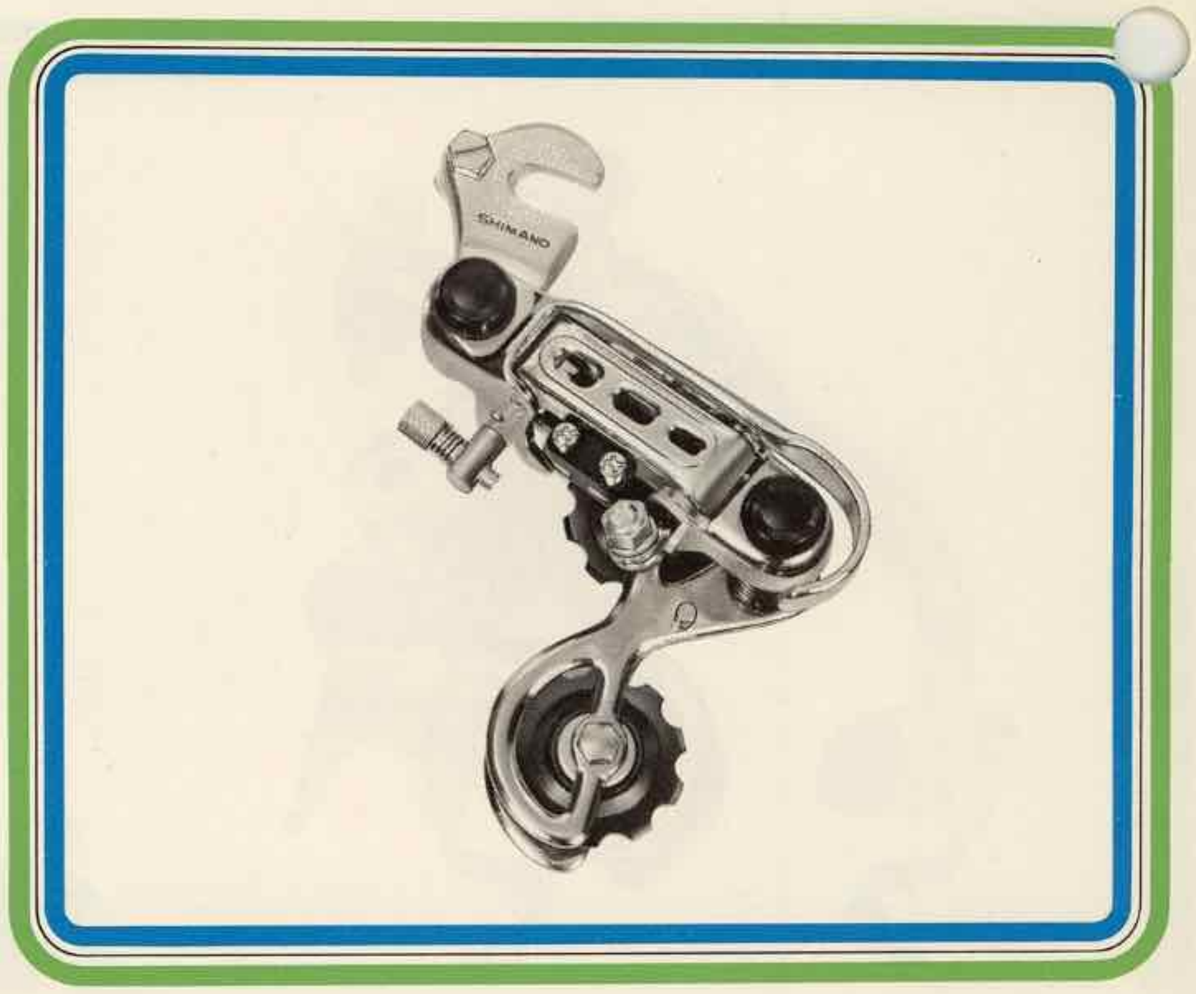
SHIMANO Rear Derailleurs



Model D-350

EAGLE

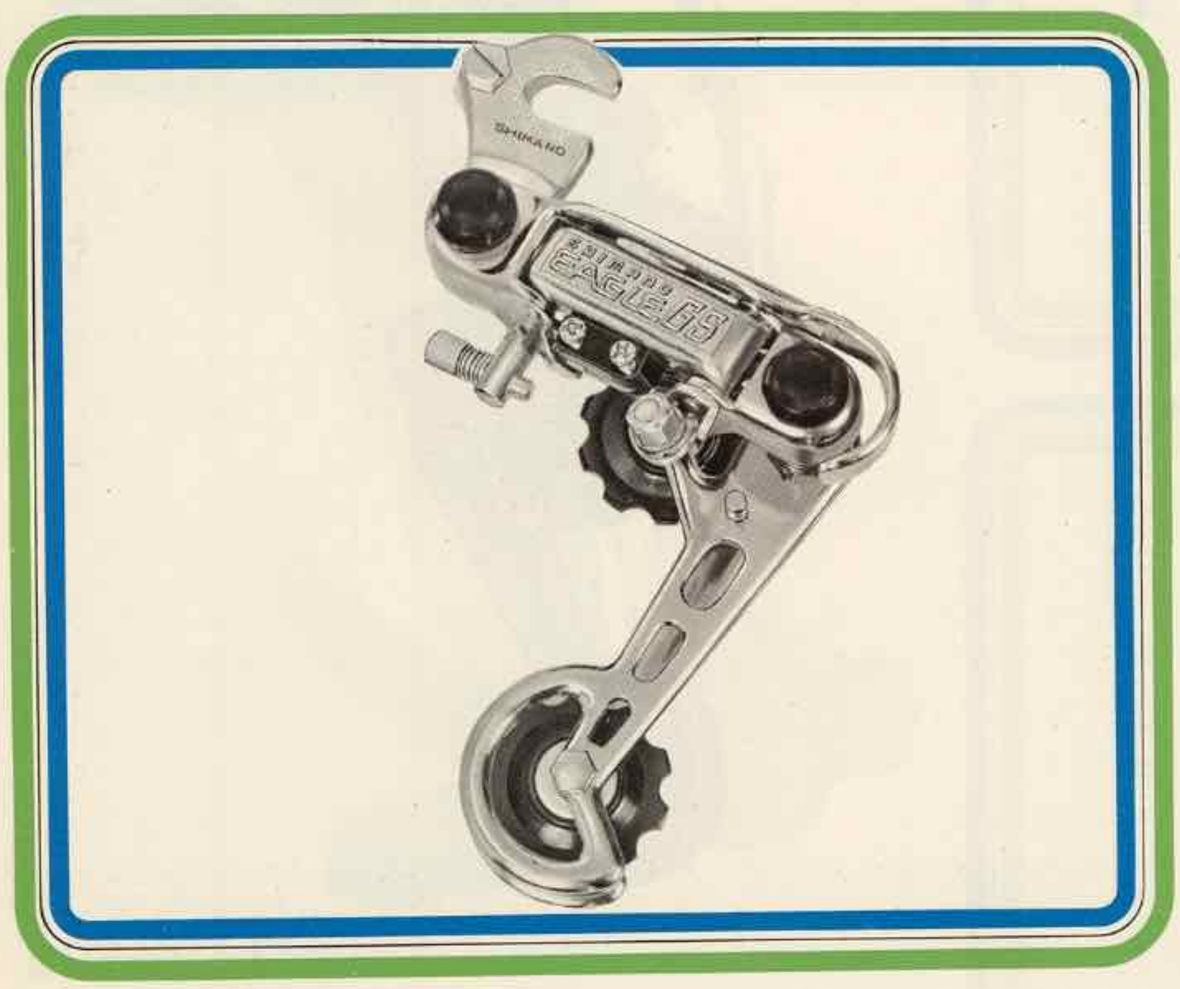
SPECIFICATIONS
Capacity: 34 teeth
Weight: 12.3 oz. (350 g)
Material: Steel
With Cable Saver and Derailleur Guard.



Model D-360

EAGLE SPO

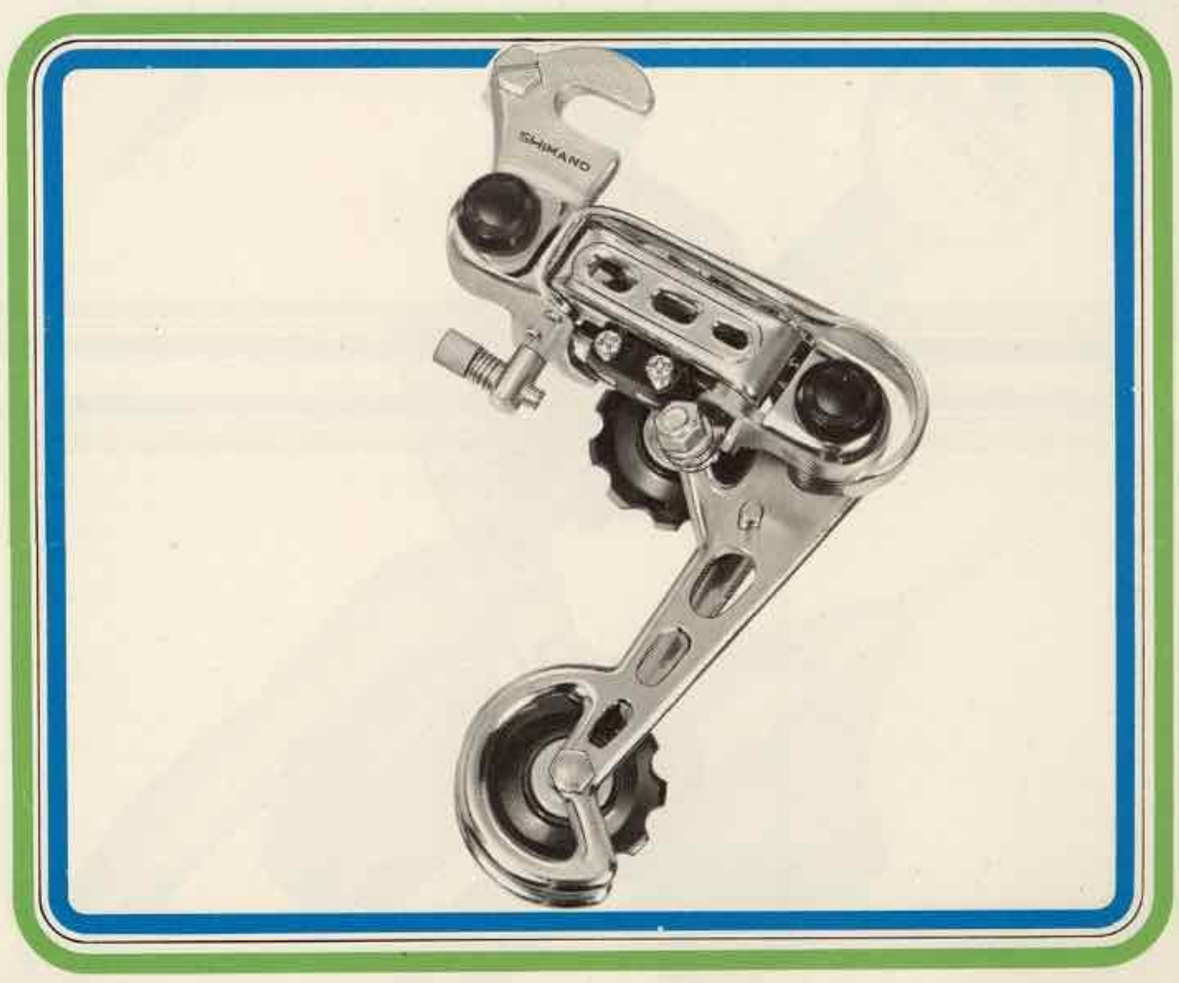
SPECIFICATIONS
Capacity: 34 teeth
Weight: 12.3 oz. (350 g)
Material: Steel
With Cable Saver and Derailleur Guard.



Model D-370

EAGLE GS

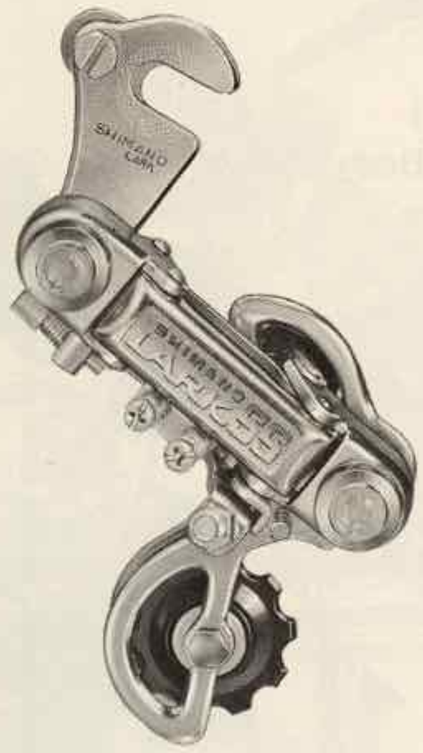
SPECIFICATIONS
Capacity: 38 teeth
Weight: 13.4 oz. (380 g)
Material: Steel
With Cable Saver and Derailleur Guard.



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

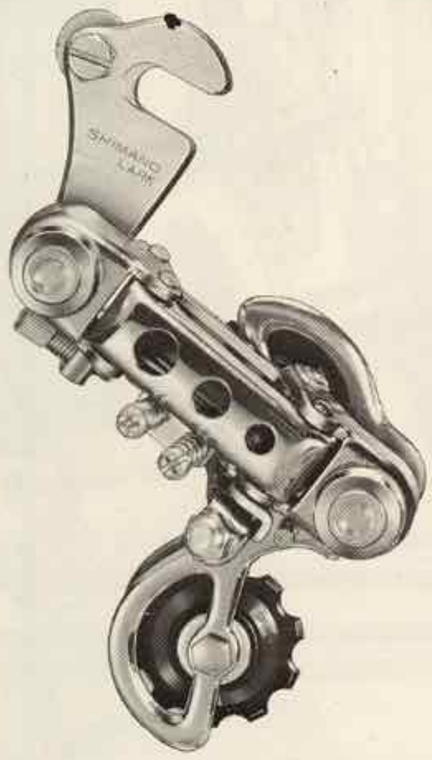
SPECIFICATIONS
Capacity: 34 teeth
Weight: 11.3 oz. (320 g)
Material: Steel
With Cable Saver.



Model D-160

SKY LARK

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



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

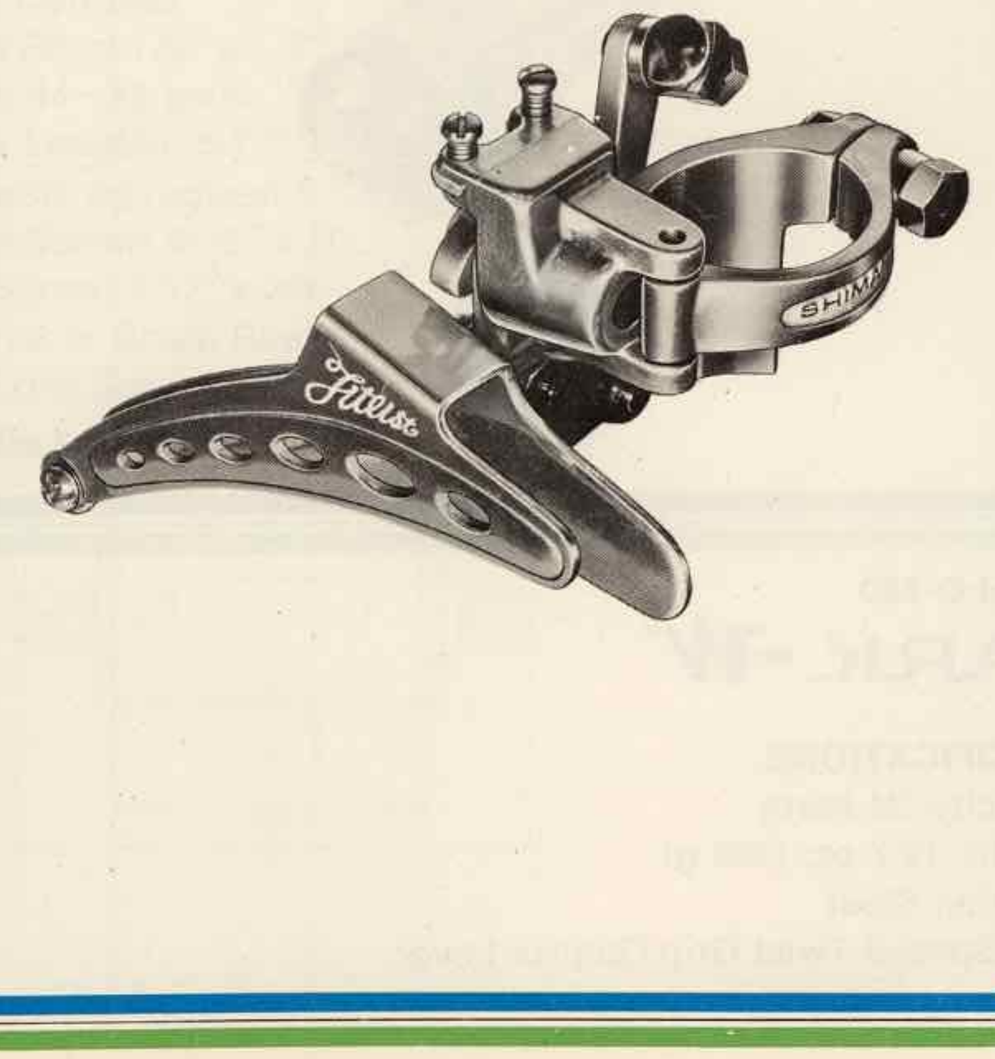


Model E-404

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.

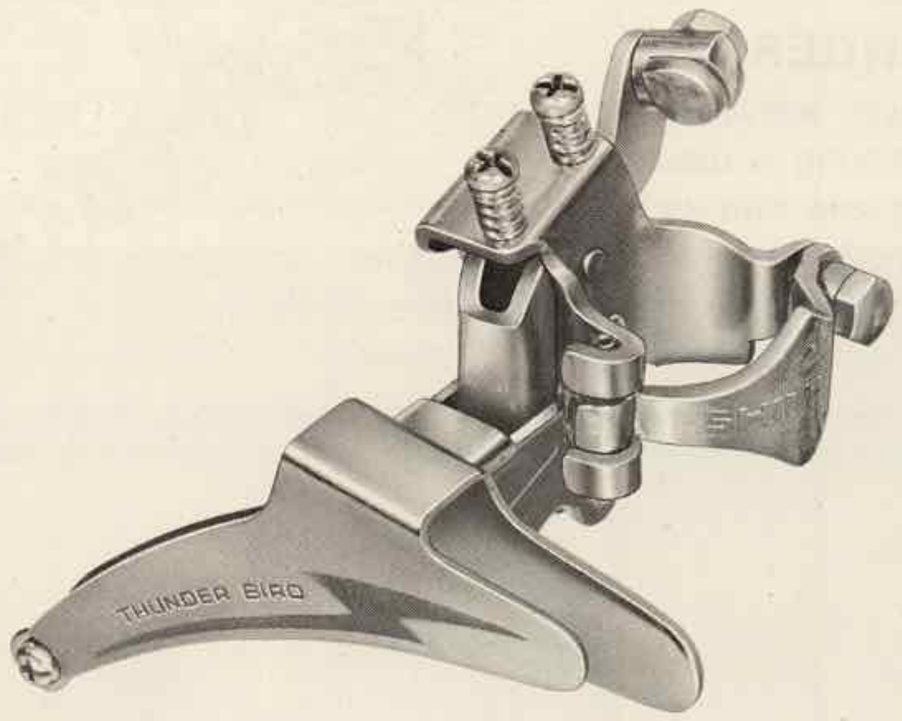
Model E-101/E-102/E-103/E-104

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)
Weigh: 6.7 oz. (190 g)
Material: Steel



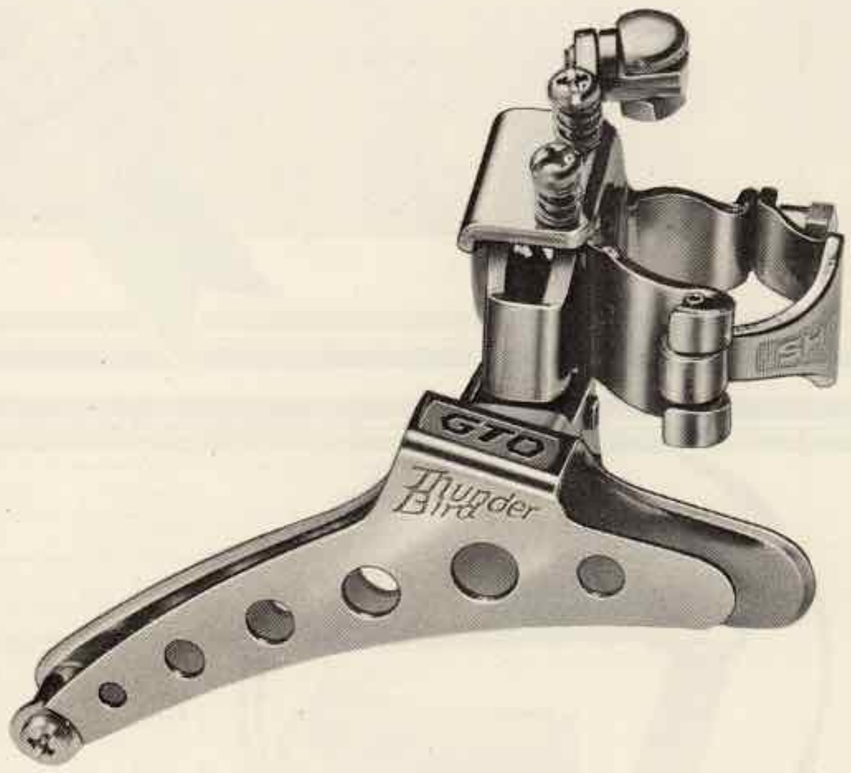


Model E-111/E-112/E-113/E-114

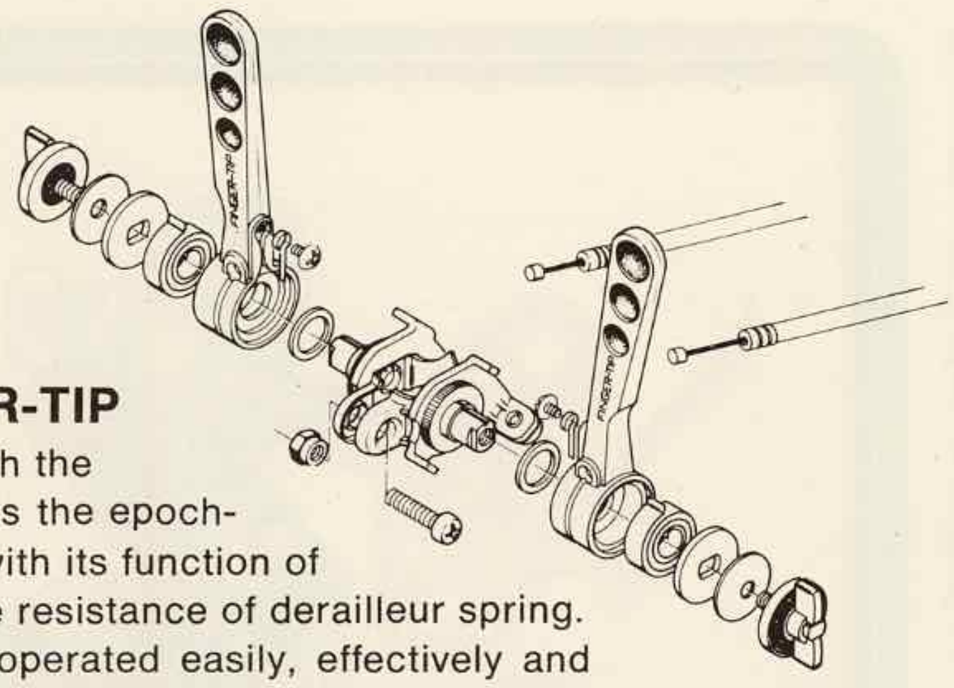
THUNDER BIRD G.P.O.

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

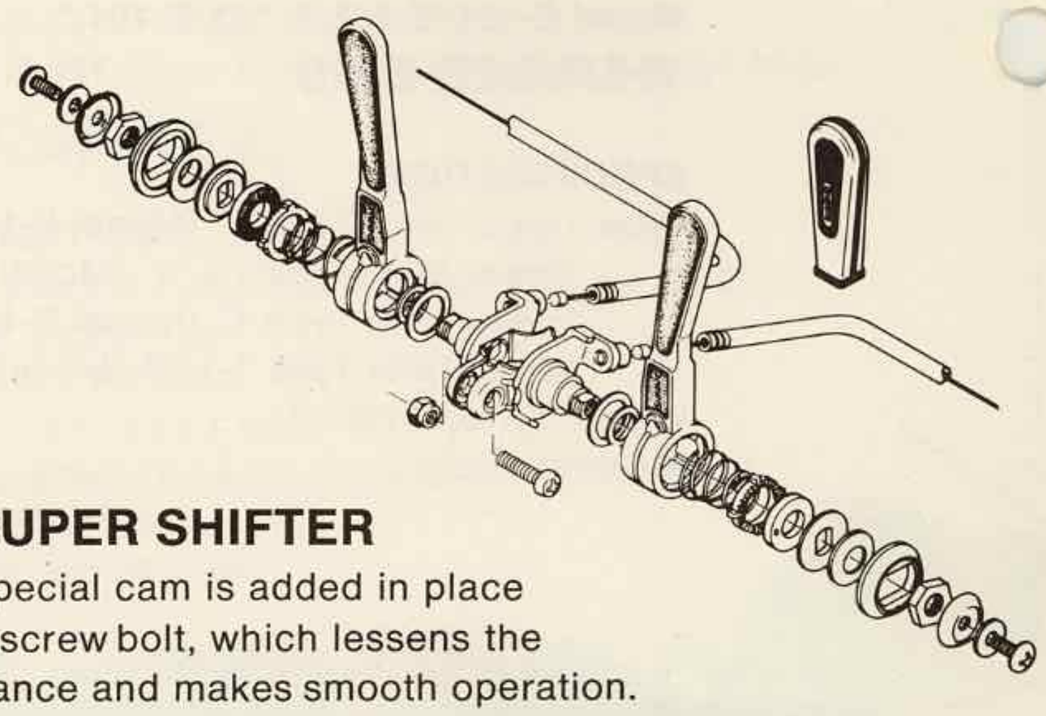


SHIMANO Shifting Levers for Derailleur



FINGER-TIP

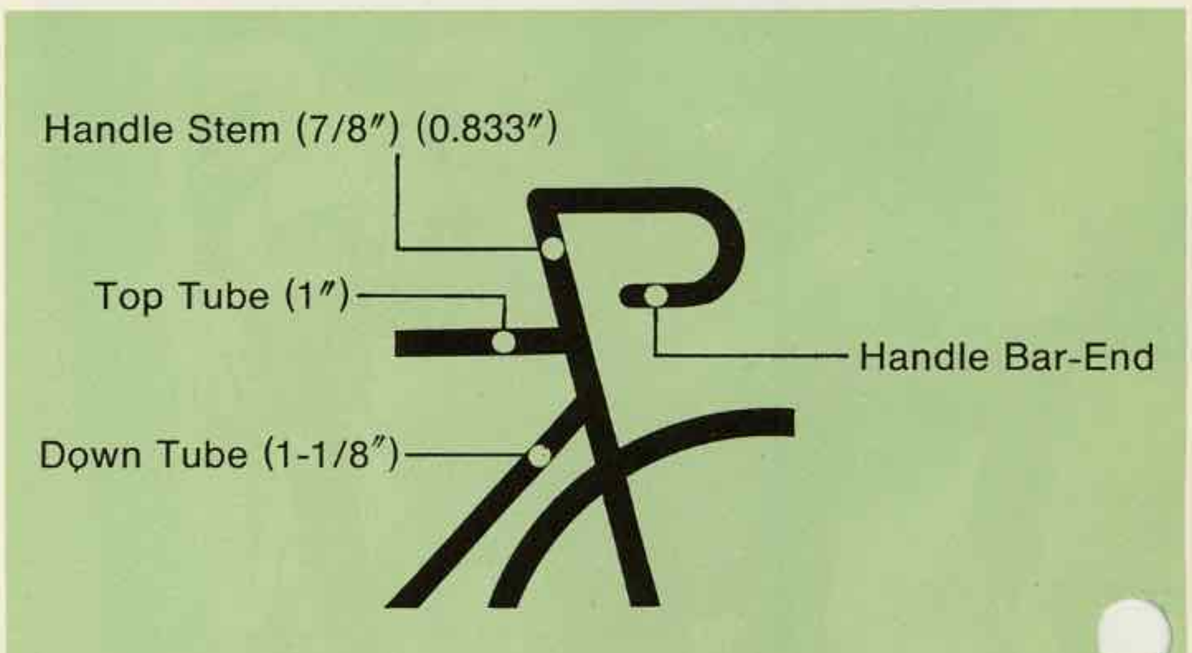
The lever with the spiral spring is the epoch-making one with its function of setting off the resistance of derailleur spring. The lever is operated easily, effectively and swiftly with the absorption of a delicate slack of inner cable.



SUPER SHIFTER

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



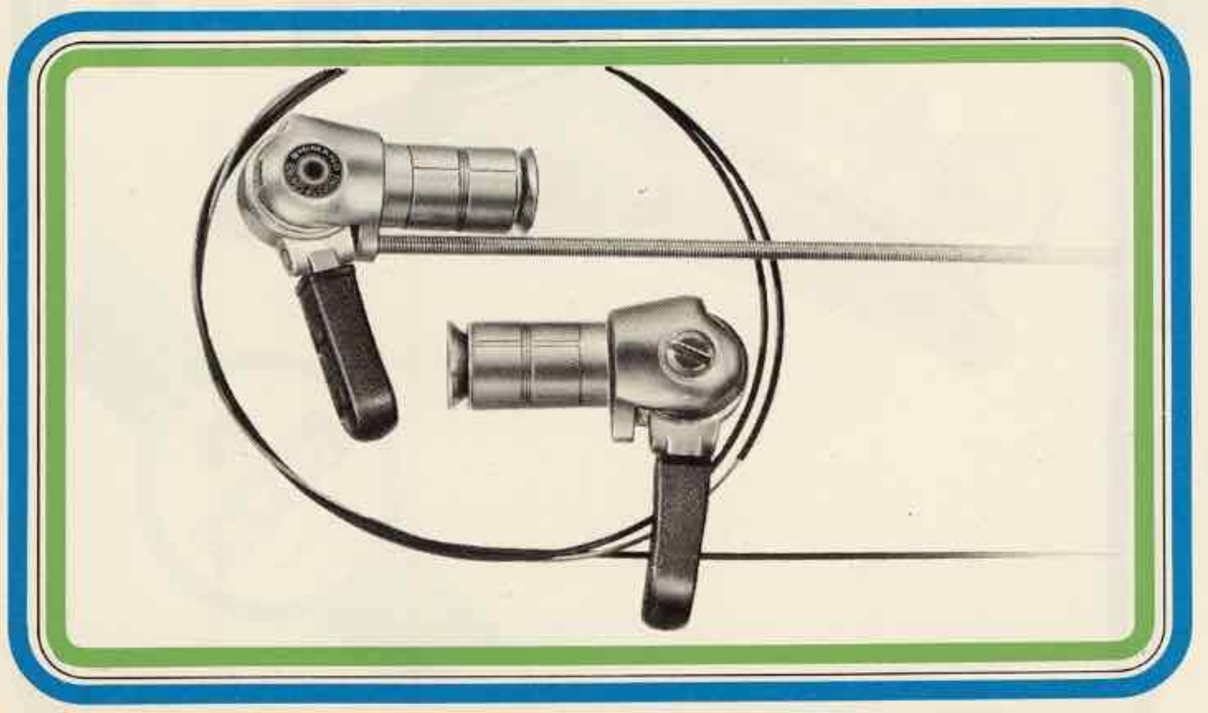


Model L-284

DURA-ACE SHIFTING LEVER

SPECIFICATIONS

Weight: 2.65 oz. (75 g)
Material: Light Alloy
Use: 10-Speed



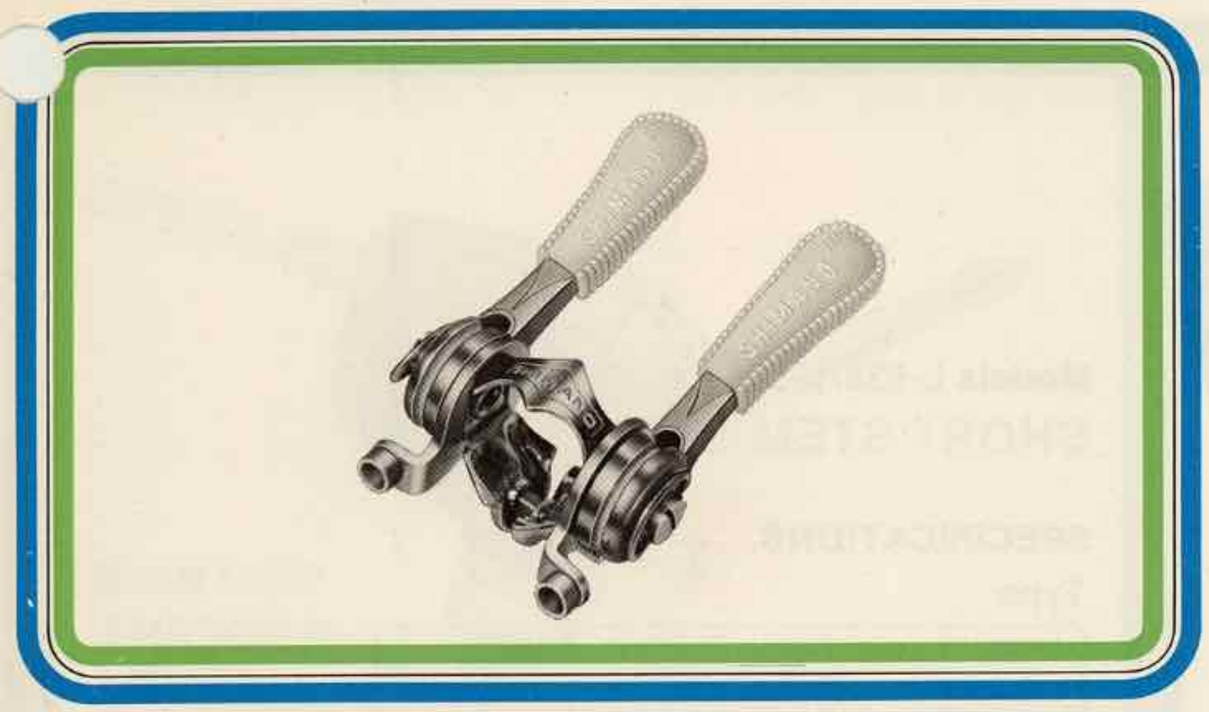
Model L-600

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

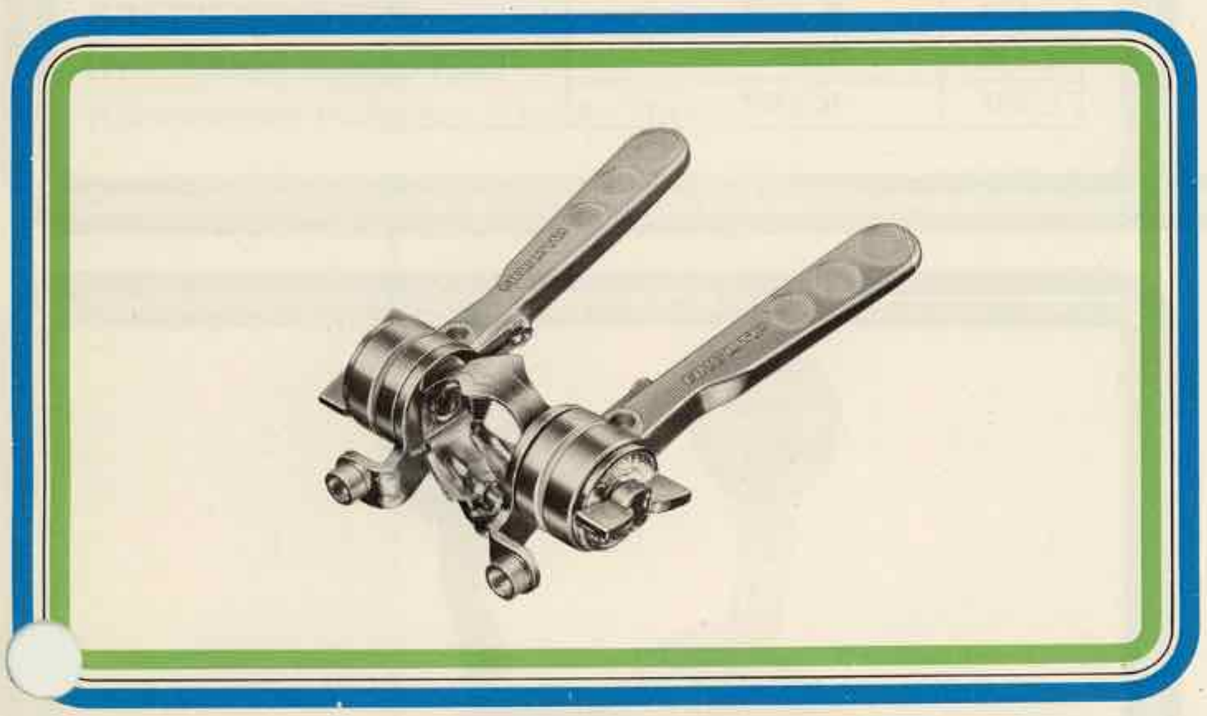
ALMI LEVER

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

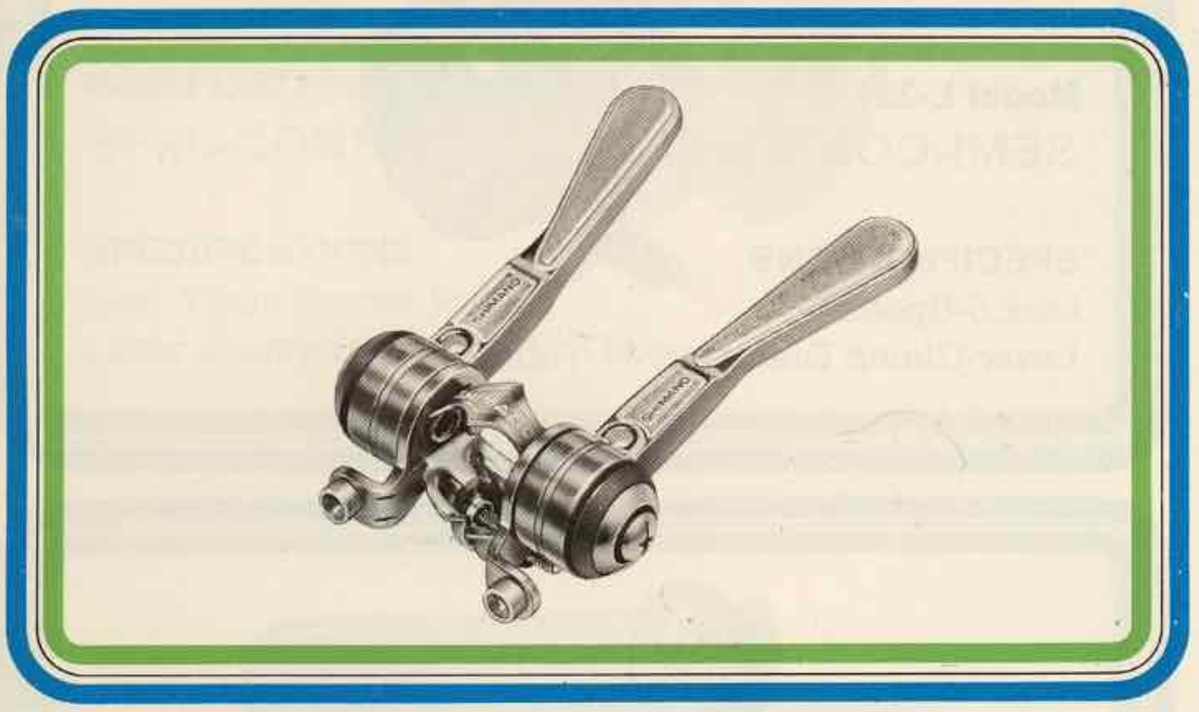
FINGER-TIP

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

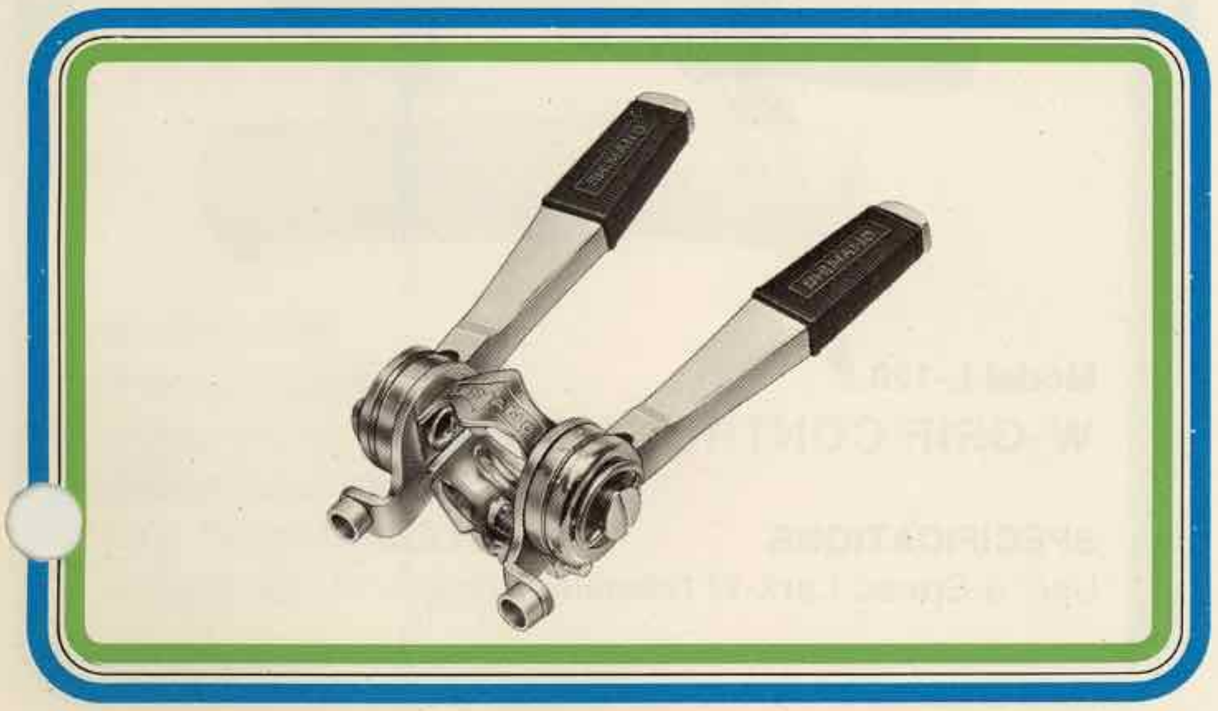
SUPER SHIFTER

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



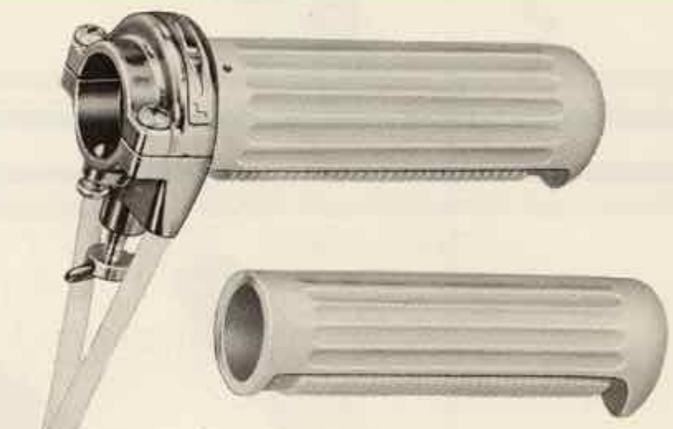
Model L-345

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

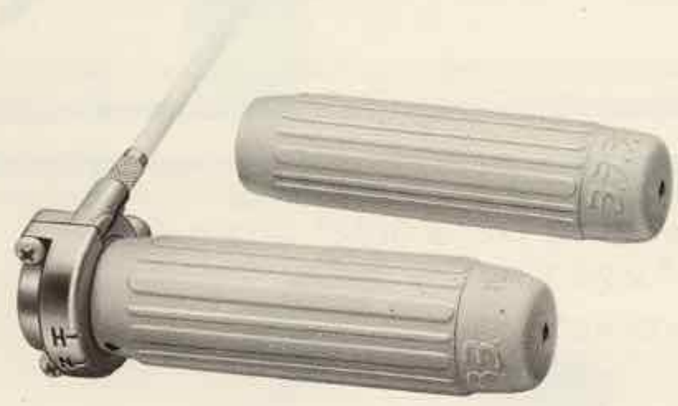
CONSOLE LEVER

SPECIFICATIONS

Use: Three Speed Hub
Type:

GS **GT**

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



SHIMANO Freewheels



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)

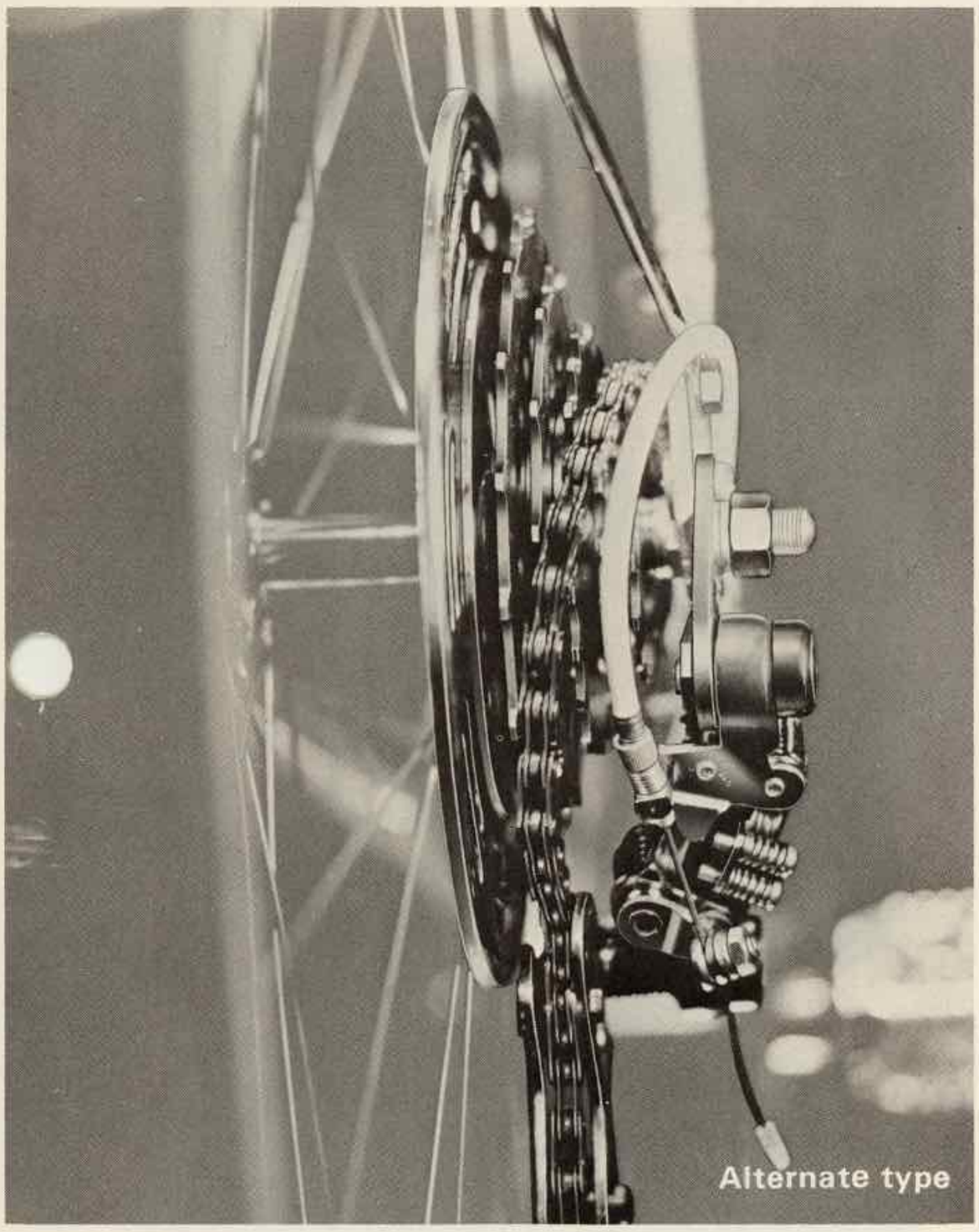
(LT): with Seal and Top Protector
A: Alternate Teeth Sprocket

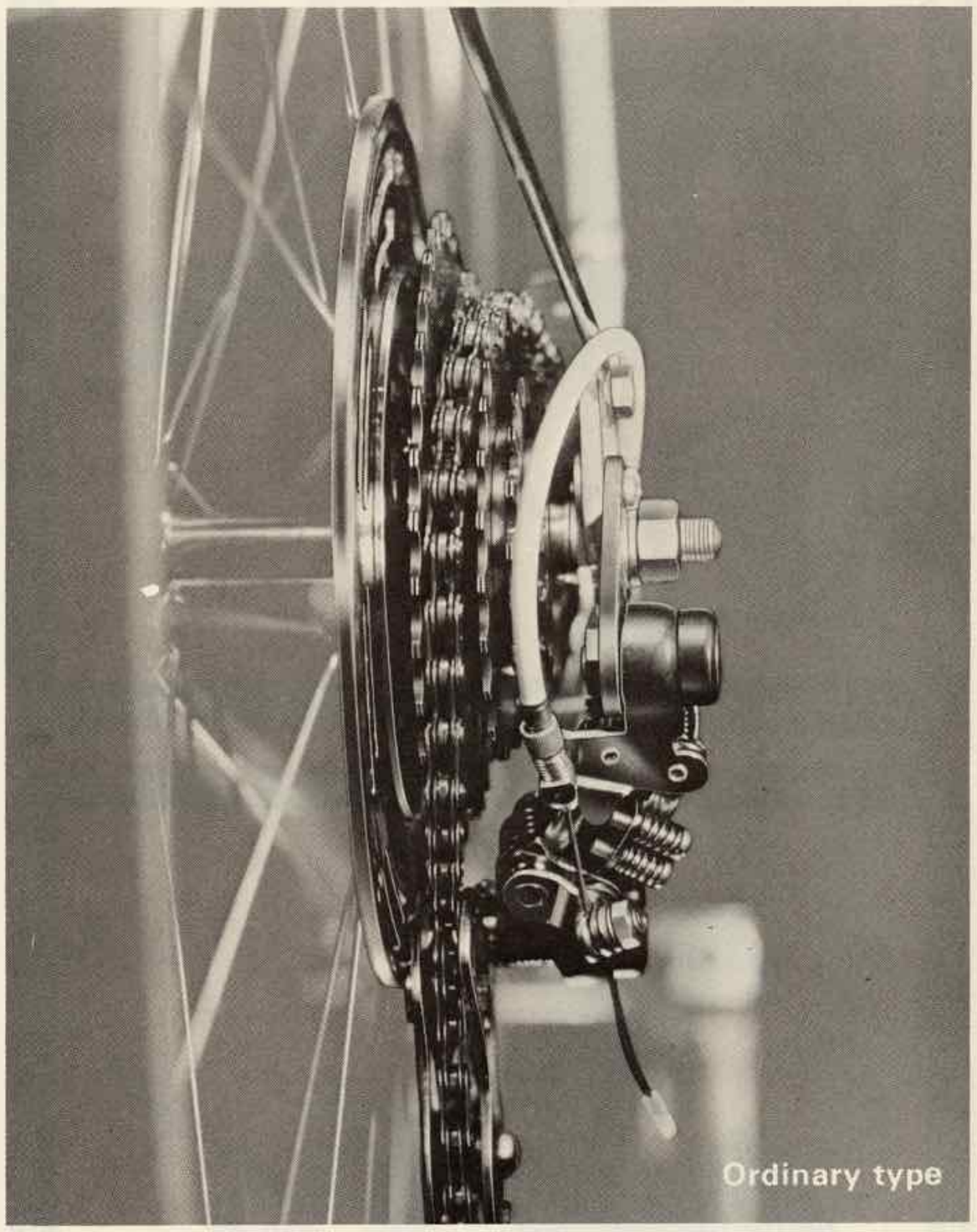
A new wide range of freewheels has just been introduced by Shimano. This rear gear cluster has a broad range of gears, for examples, starting with 14, and going on up to 17-22-28 and 34 teeth gears. They are available in Regular Type; with Top Protector; with Seal and Alternate Teeth Type. They can easily 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.


Alternate type


Ordinary type



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

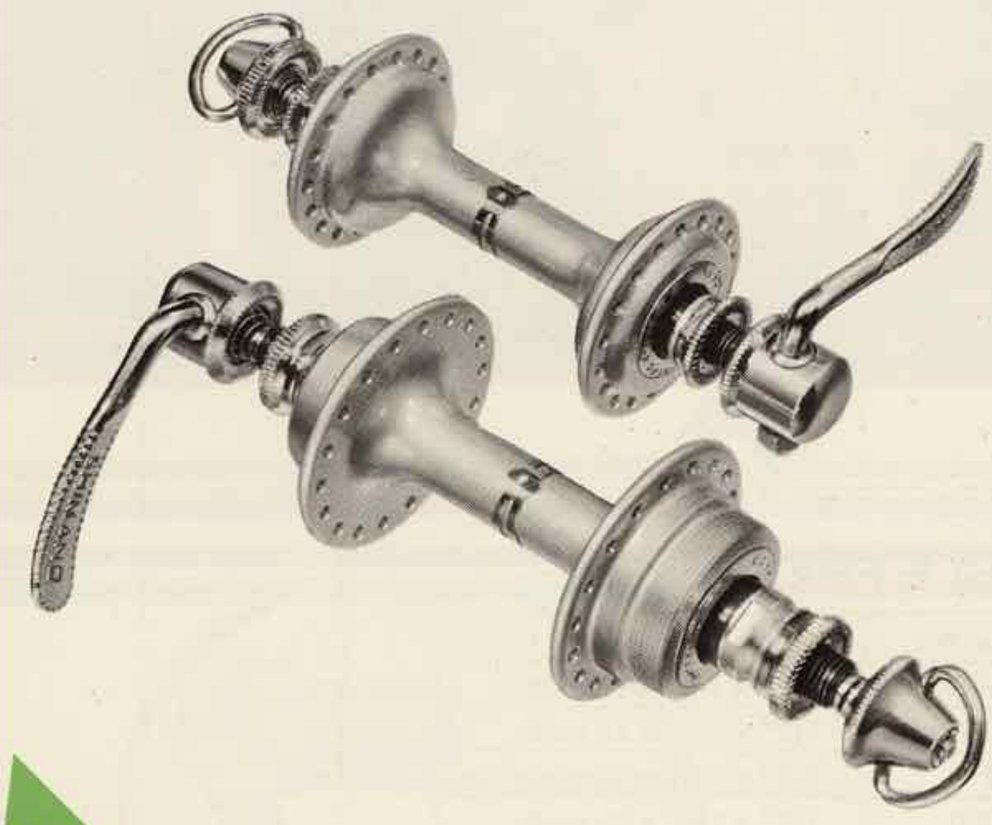


Models H-731 (Front)
H-831 (Rear For 5-speed): Large Flange Hubs

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.

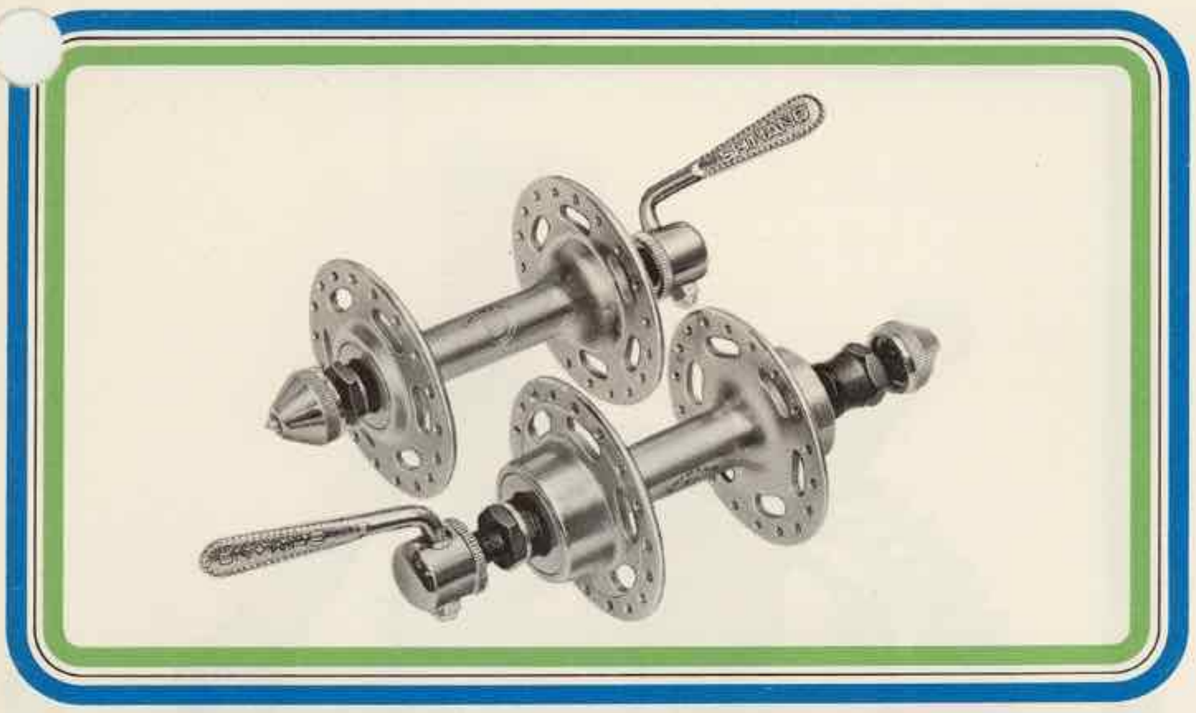




Models HS-731 (Front)
HS-831 (Rear For 5-speed): Small Flange Hubs

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.

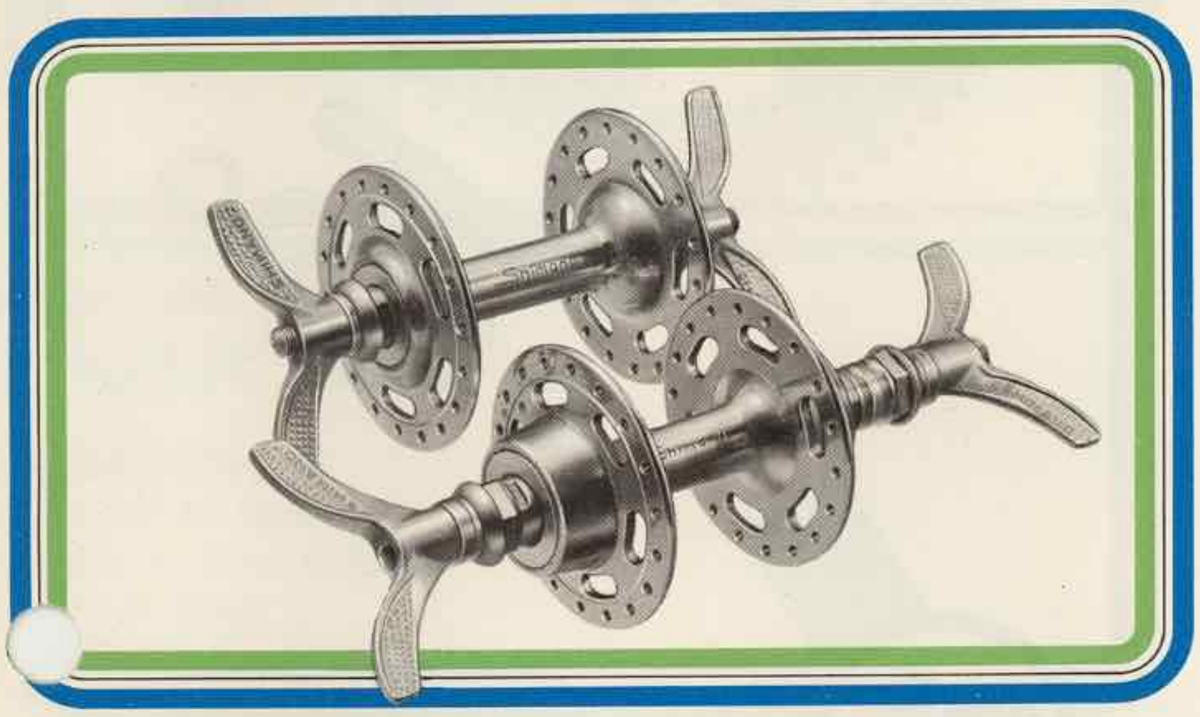


Models H-710 (Front)**/H-810** (Rear For 5-speed)

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.

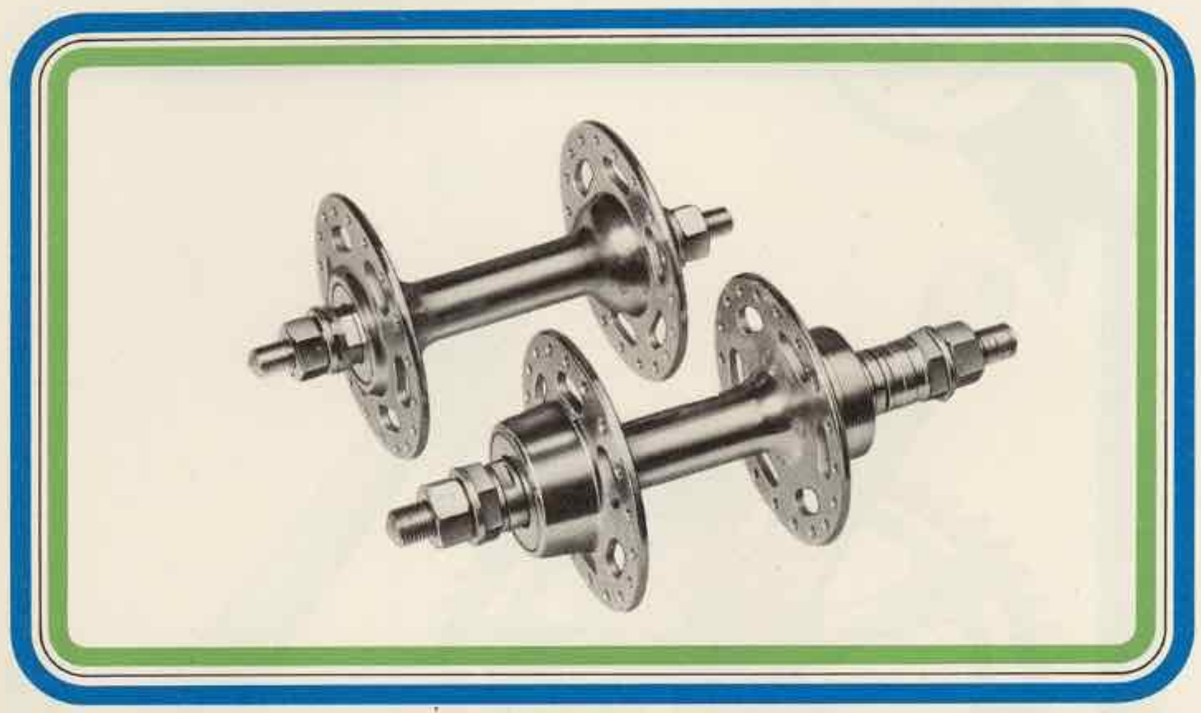


Models H-720 (Front)**/H-820** (Rear For 5-speed)

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.

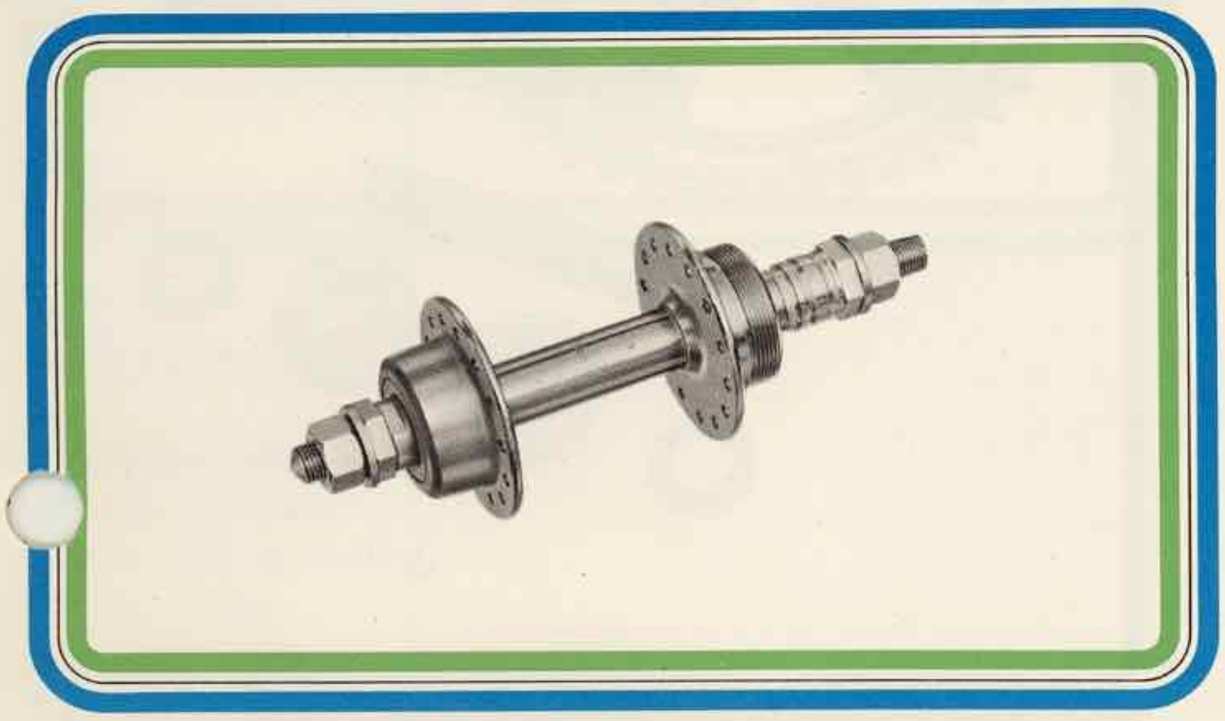


Models H-700 (Front)**/H-800** (Rear For 5-speed)

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

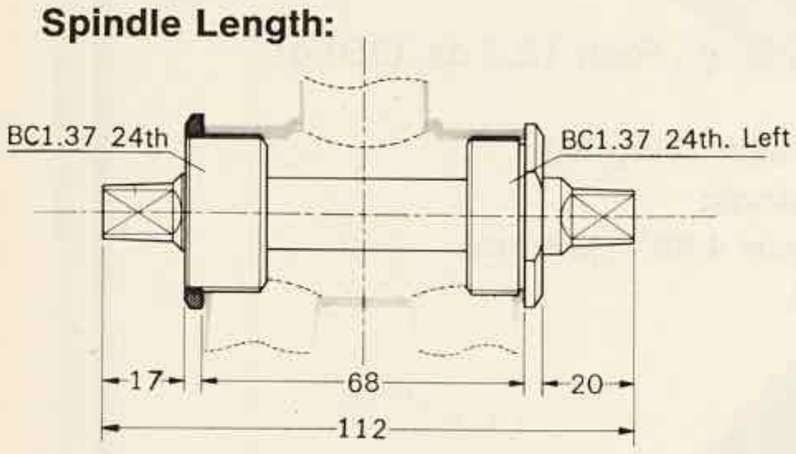
Weight: 15.9 oz. (450 g)
Material: Steel
Type: Solid Axle with Hub Nut
Thread: 1.37″ x 24 T.P.I.
Over Lock Nut Dimensions: 4.48″ (124 mm)
Spoke Holes: 28H. and 36H.

SHIMANO Front Chainwheels

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:

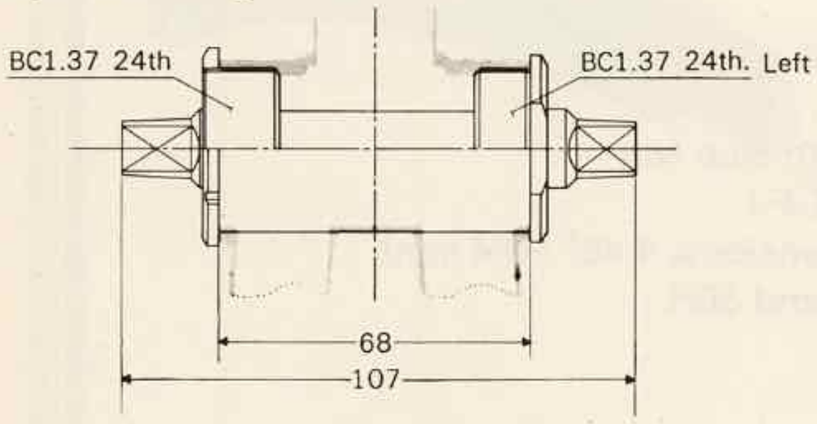




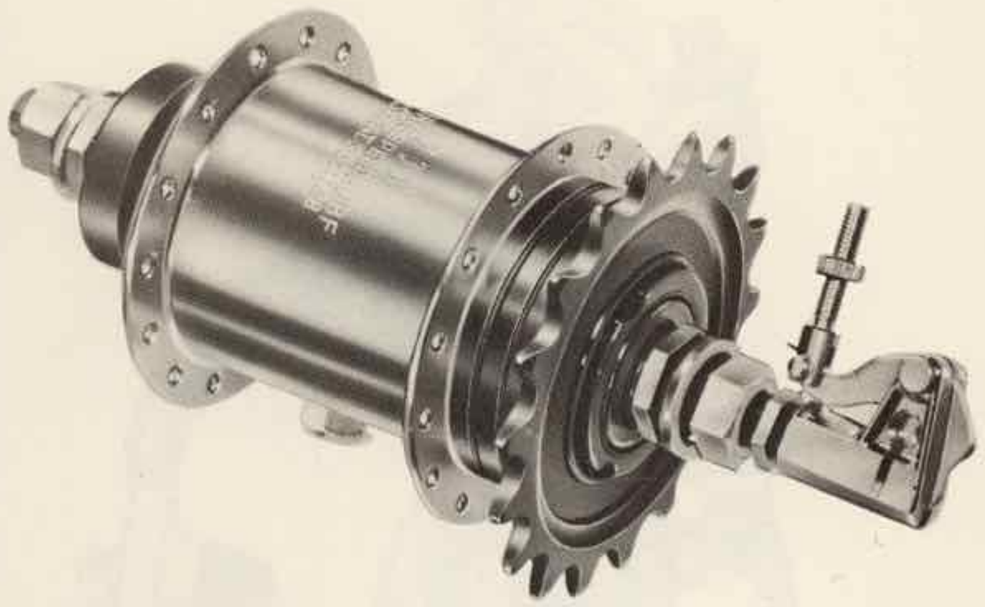
FRONT CHAINWHEEL FOR TRACK
DURA-ACE

SPECIFICATIONS
Material: Light Alloy
Type: Cottrless
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:



SHIMANO Hub Gears

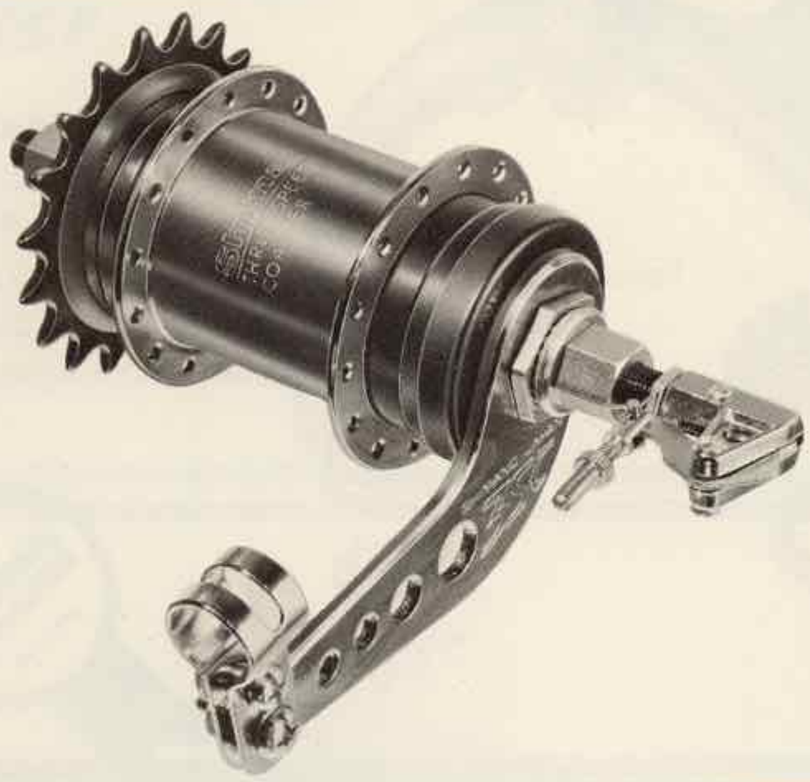


Model T-100

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.

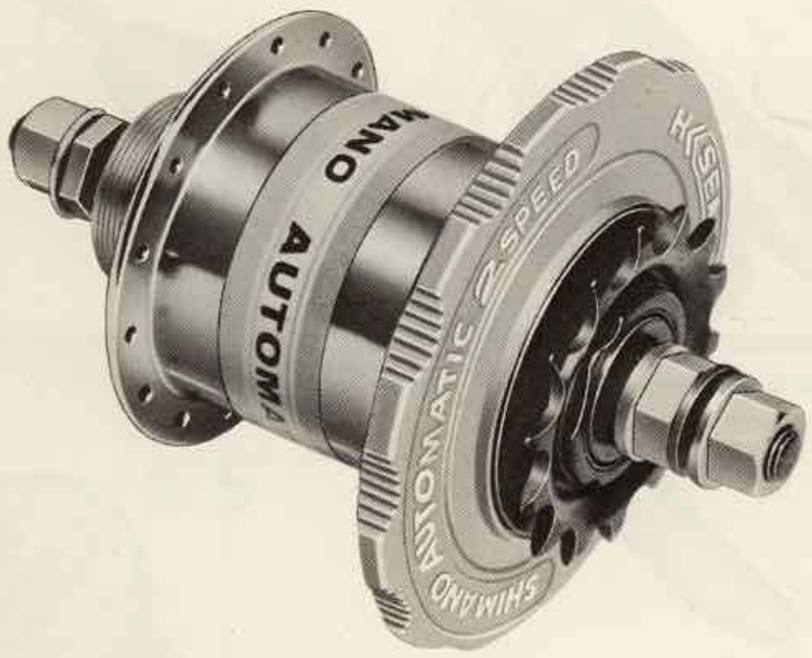


Model T-300

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″±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.

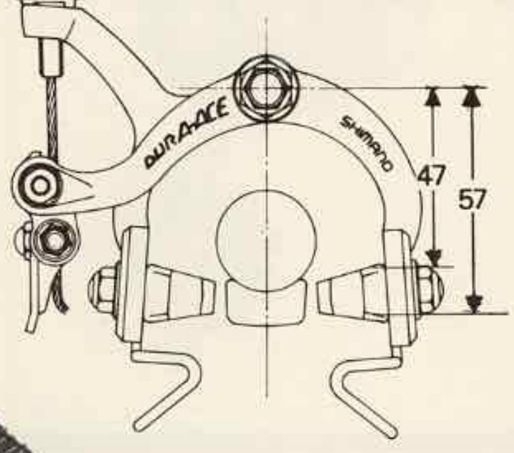
SPECIFICATIONS

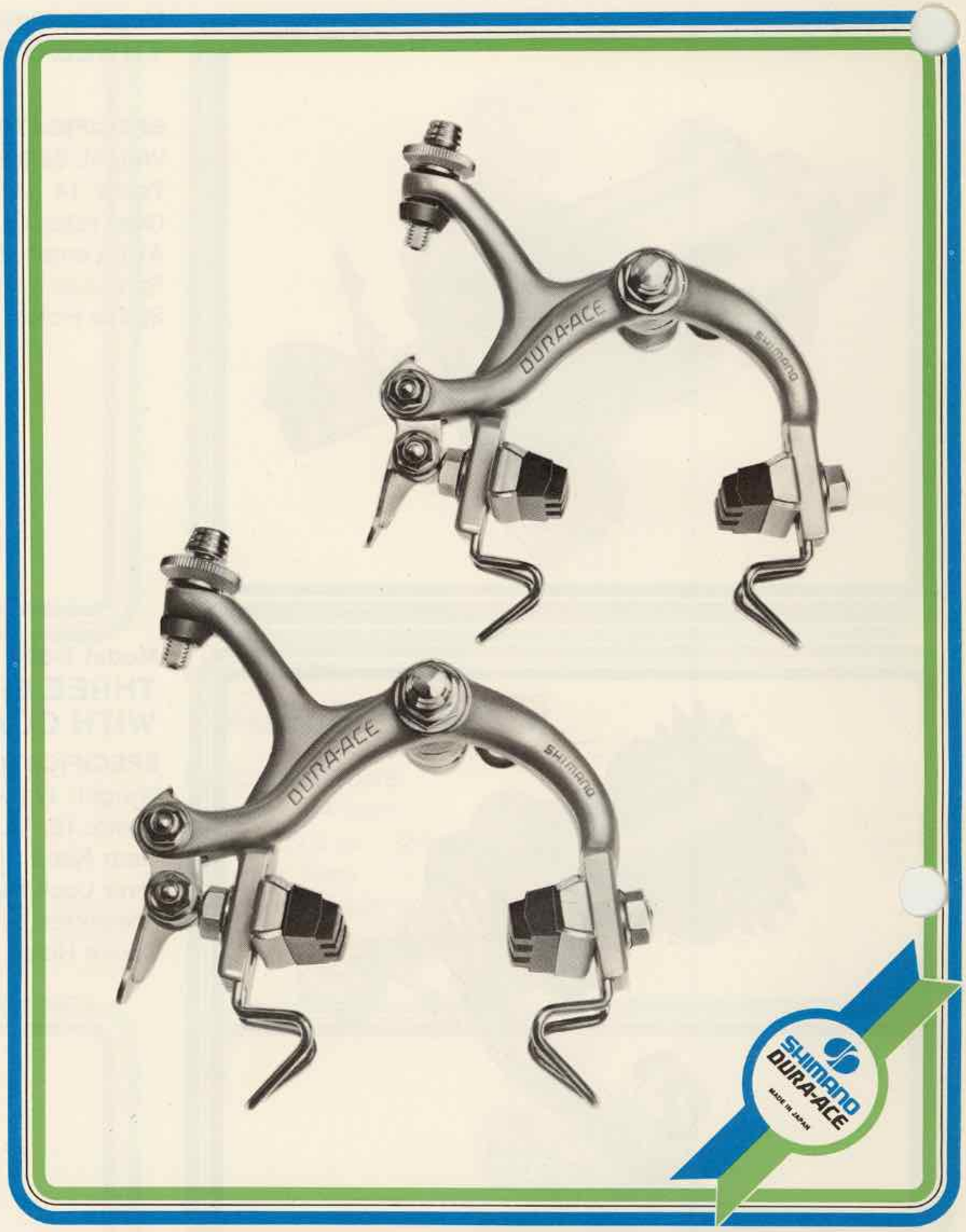
Weight: 49.4 oz. (1,400 g)
Teeth: 14, 15, 16, 18, 19, 20
Gear Ratio: (H) 1:1 (L) 1:0.75
Axle Length: 6″
Sprockets: 1/2″ x 1/8″
Spoke Holes: 28H., 36H.

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





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



CALIPER BRAKE
Models B-110/B-120

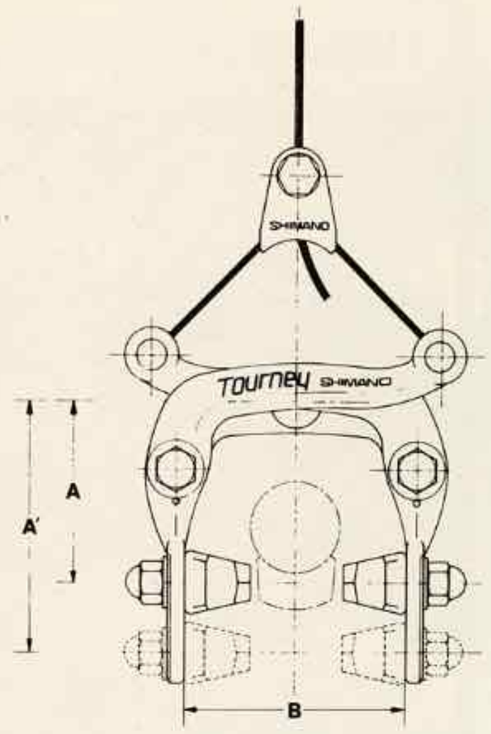
Tourney

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

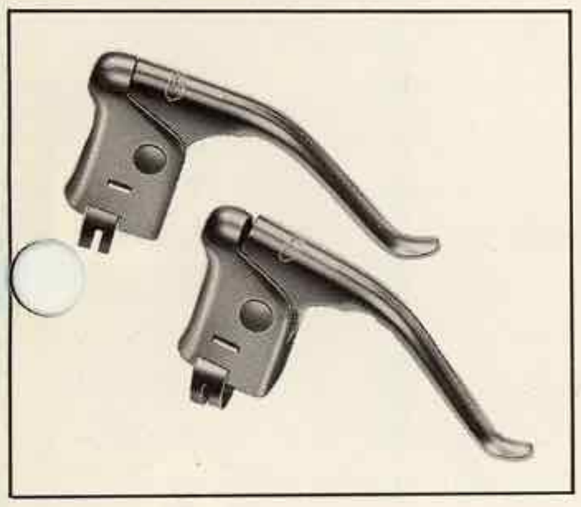


Type	Model No.	A-A'	B	Use
CC-65	B-110	47mm(1-7/8″) – 65mm(2-1/2″)	59mm(2-5/16″)	27″
CC-75	B-120	57mm(2-1/4″) – 75mm(3″)	65mm(2-1/2″)	26″

BRAKE LEVER

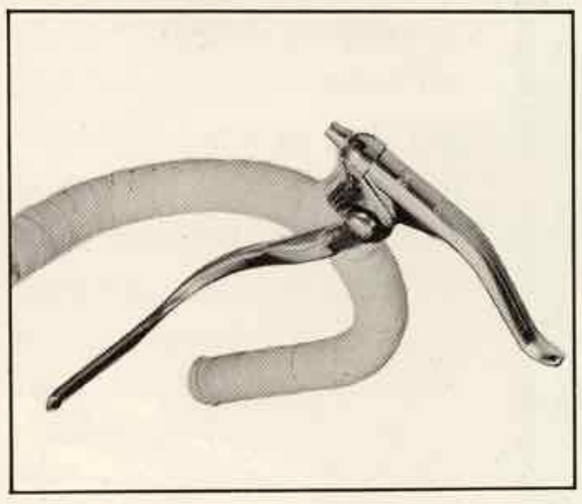
Hooded Lever (22.2ϕ)
Model M-110

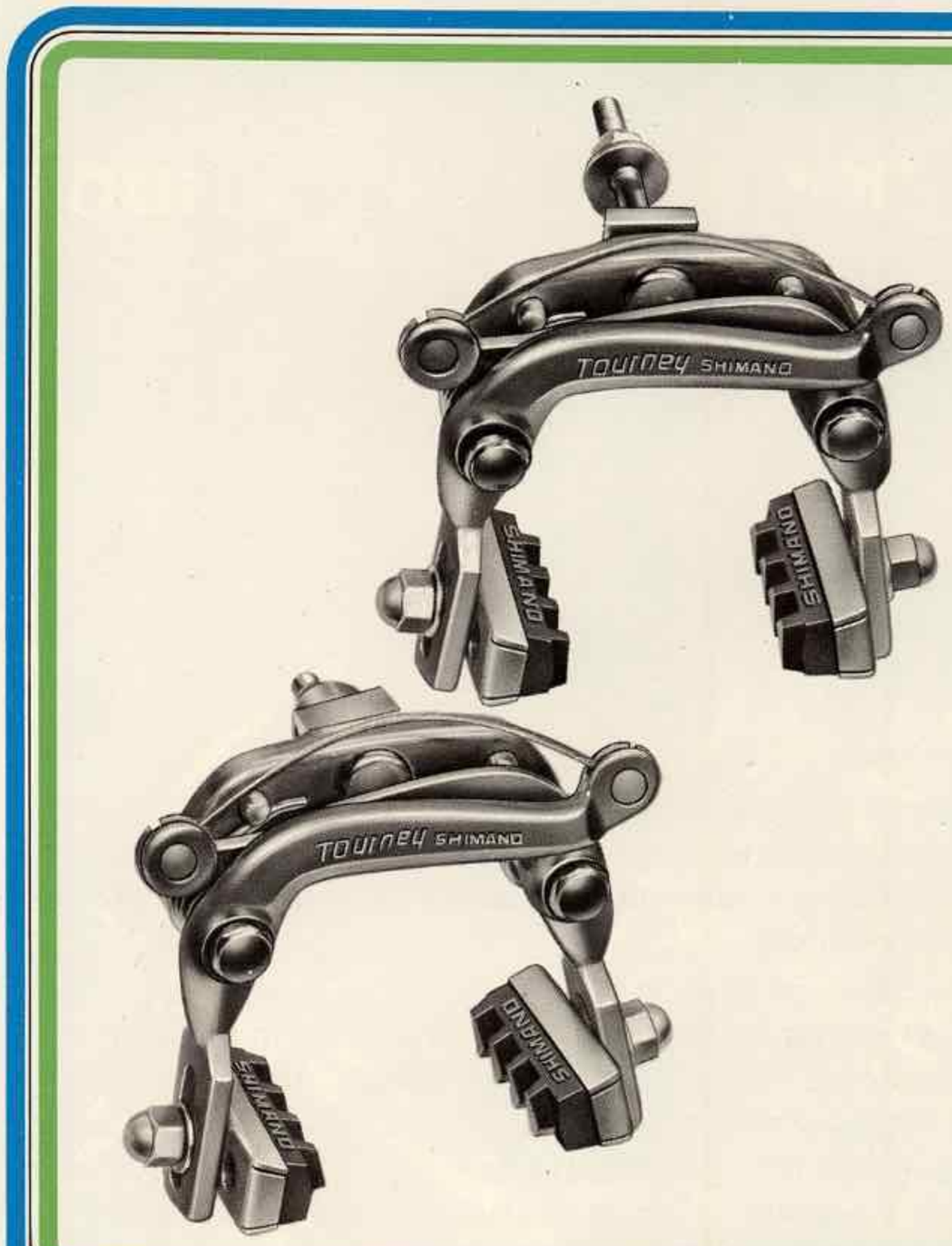
Hooded Lever (23.8ϕ)
Model M-120



Dual Extention Lever (22.2ϕ)
Model M-210

Dual Extention Lever (23.8ϕ)
Model M-220





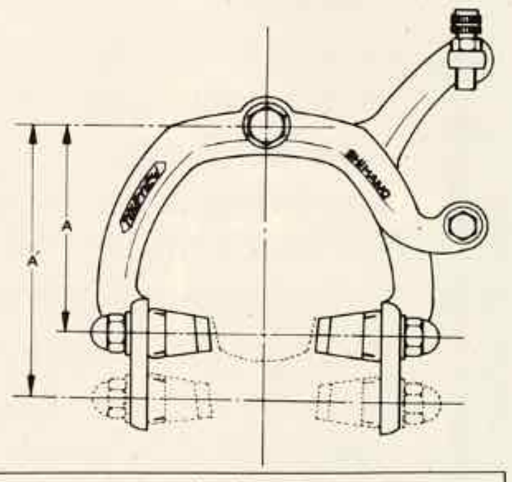
CALIPER BRAKE
Models B-220 / B-230

Tourney

SPECIFICATIONS

Material: Light Alloy

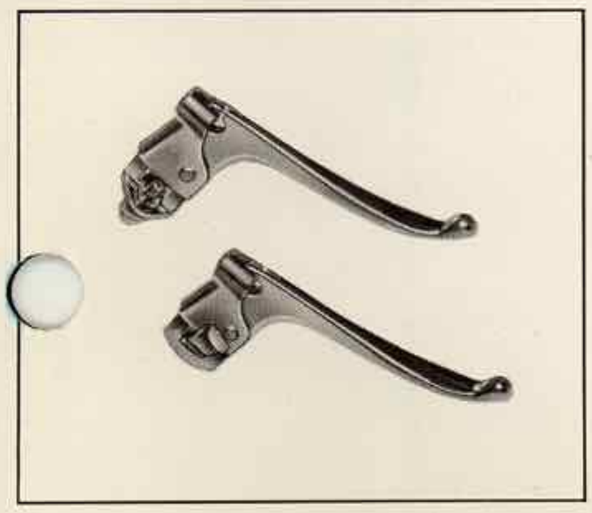
Type: Caliper Brake Side Pull



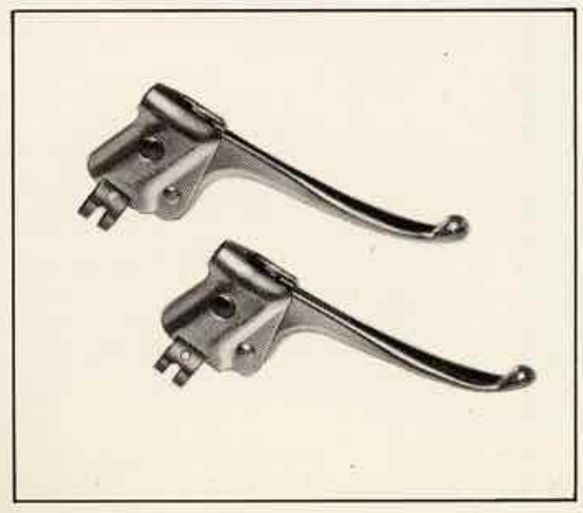
Type	Model No.	A-A'
CS-79	B-220	61mm(2.4″) – 79mm(3.1″)
CS-72	B-230	54mm(2.1″) – 72mm(2.8″)

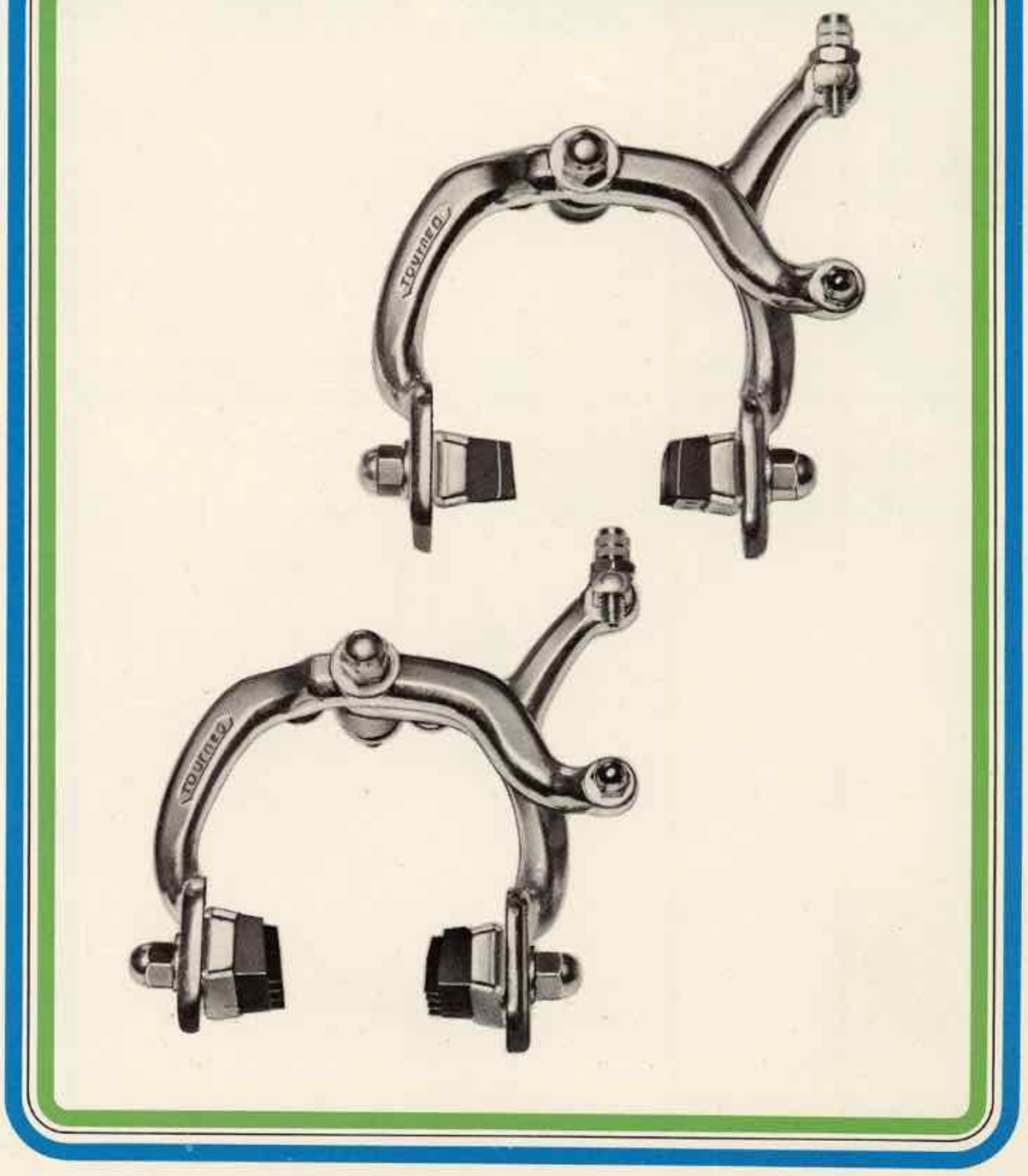
BRAKE LEVER

Popular Lever (22.2ϕ)
Model M-410



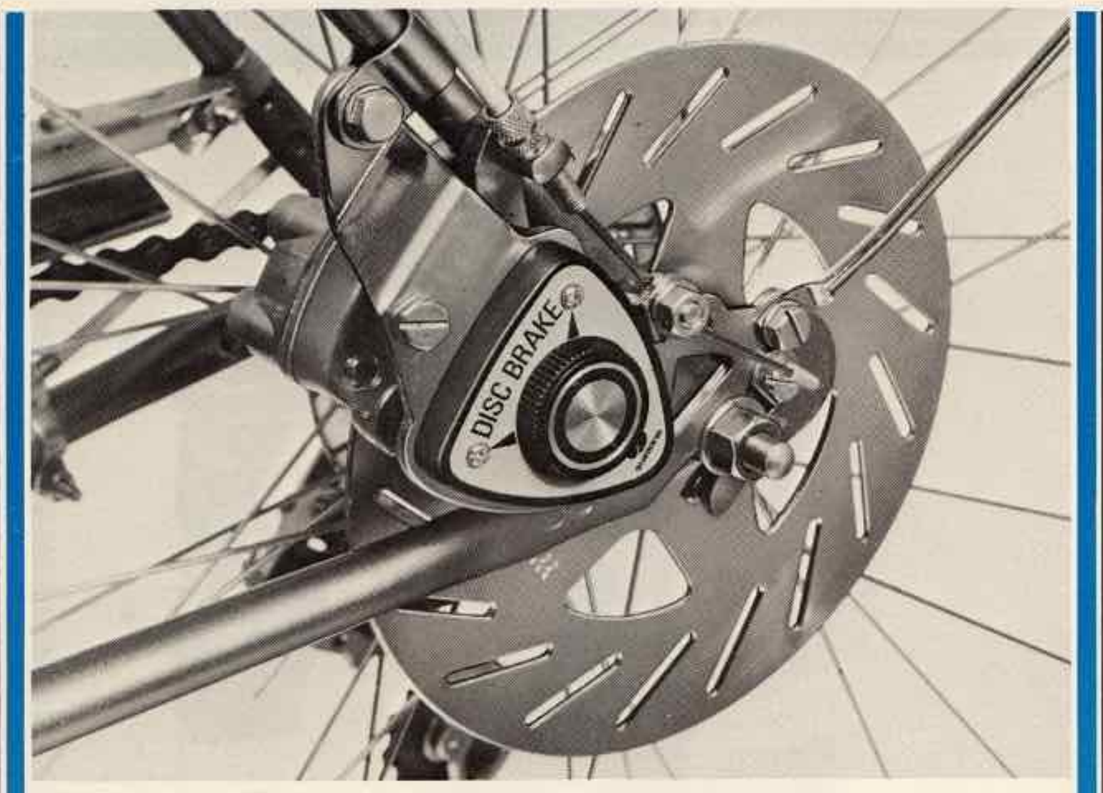
Tourist Lever (22.2ϕ)
Model M-310





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.

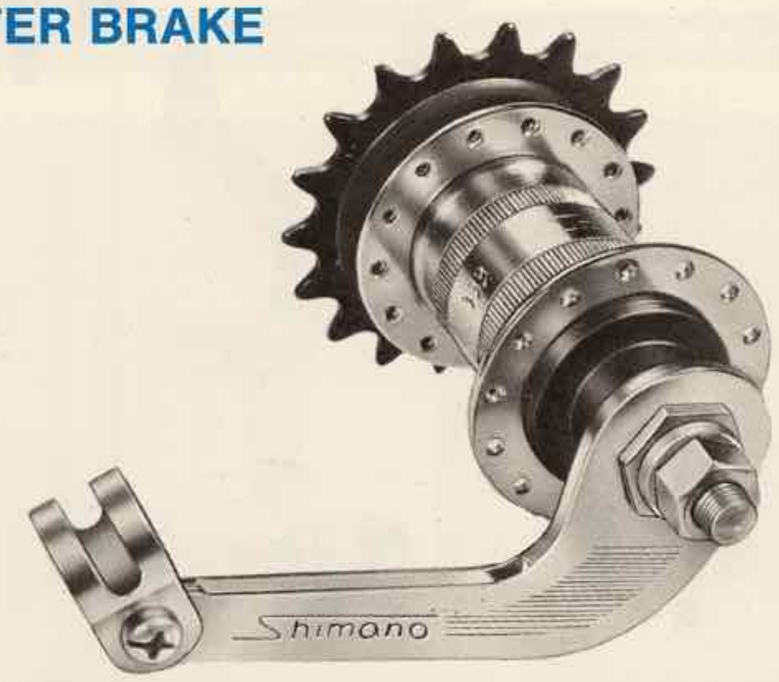
***No Slippage Even in Rain**
Rain or shine, there is almost no change in braking efficiency, thanks to a unique design. This means greater safety for cyclists.

***Long Pad (Friction Plate) Life**
The pads are made of special material to increase wear resistance. Their service life is greatly extended.

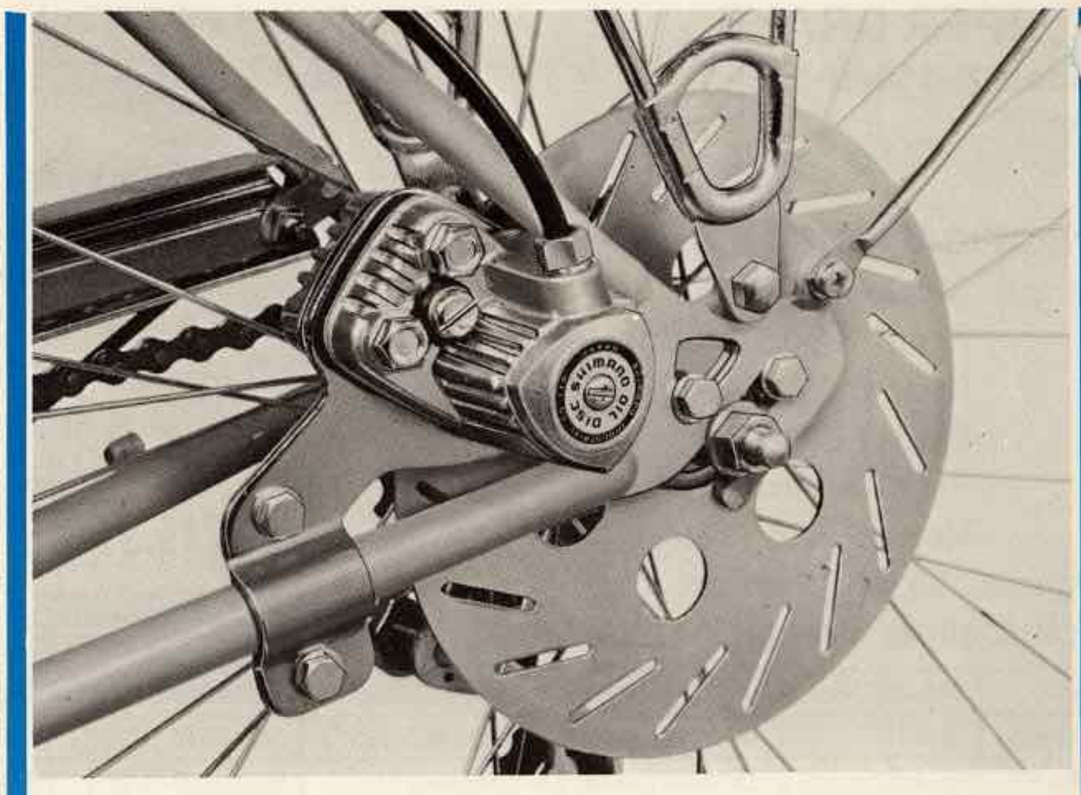
***Easy Installation and Adjustment**
Marked mechanical improvements have been made and the design has been simplified for quicker and easier installation, adjustment and pad replacement.

Model C-100

COASTER BRAKE



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.

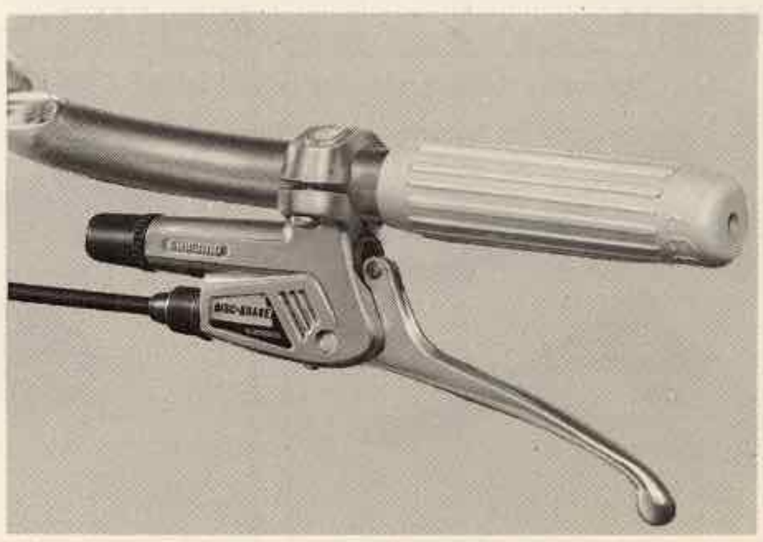
***Smooth and shockless**
A powerful braking force free of the danger of locking wheels means that bicycle comes to a stop smoothly and without shock. There is danger of neither skidding nor failing in emergency stops.

***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.



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

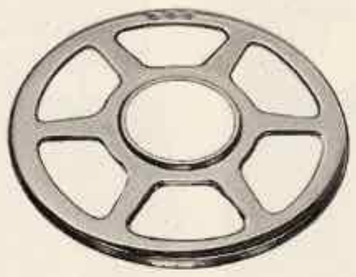
SHIMANO-LF

SPECIFICATIONS
Material: Steel
Type: Without Adjusting Bolt

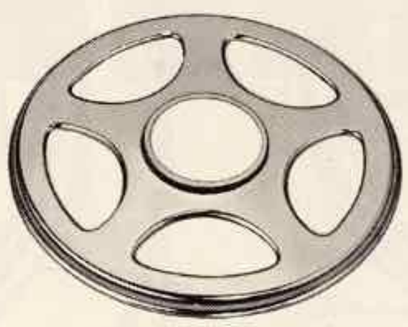


Part No. 710 9004
Description: Axle Stopper Set (Option)

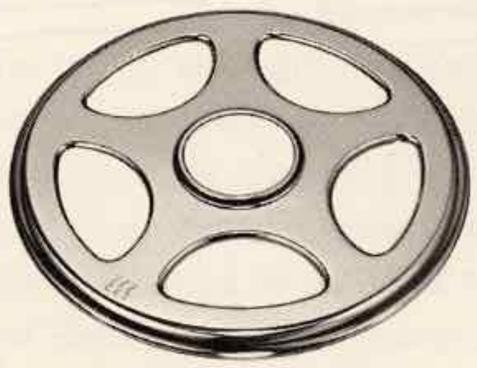
SHIMANO
Spoke Protectors



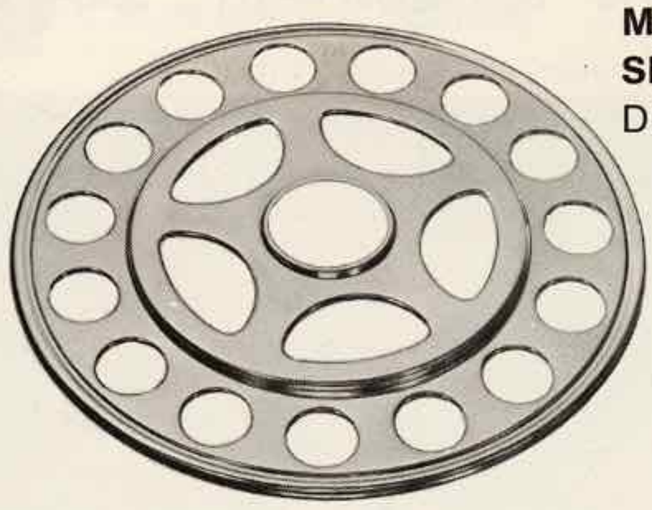
Model P-100
SPECIFICATIONS
Diameter: 4-1/2″ (110mm)
Use Range: Low Gears
Up to 24 teeth



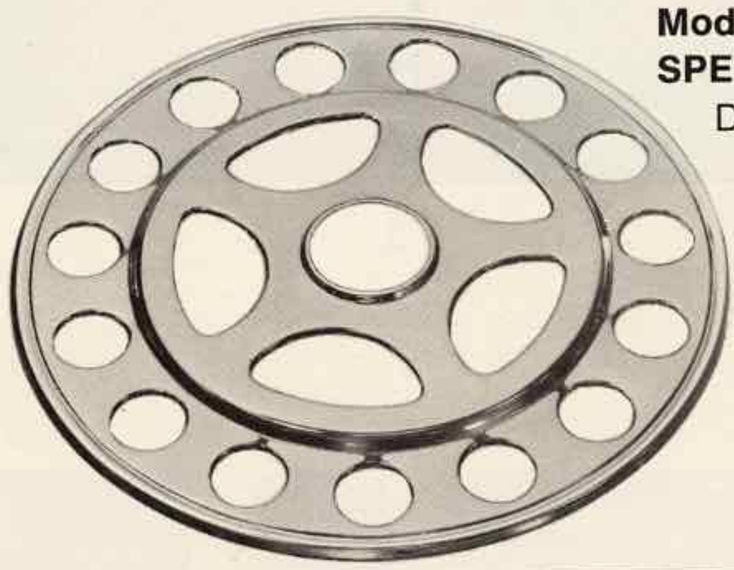
Model P-320
SPECIFICATIONS
Diameter: 5″ (123mm)
Use Range: Low Gears
Up to 28 teeth



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

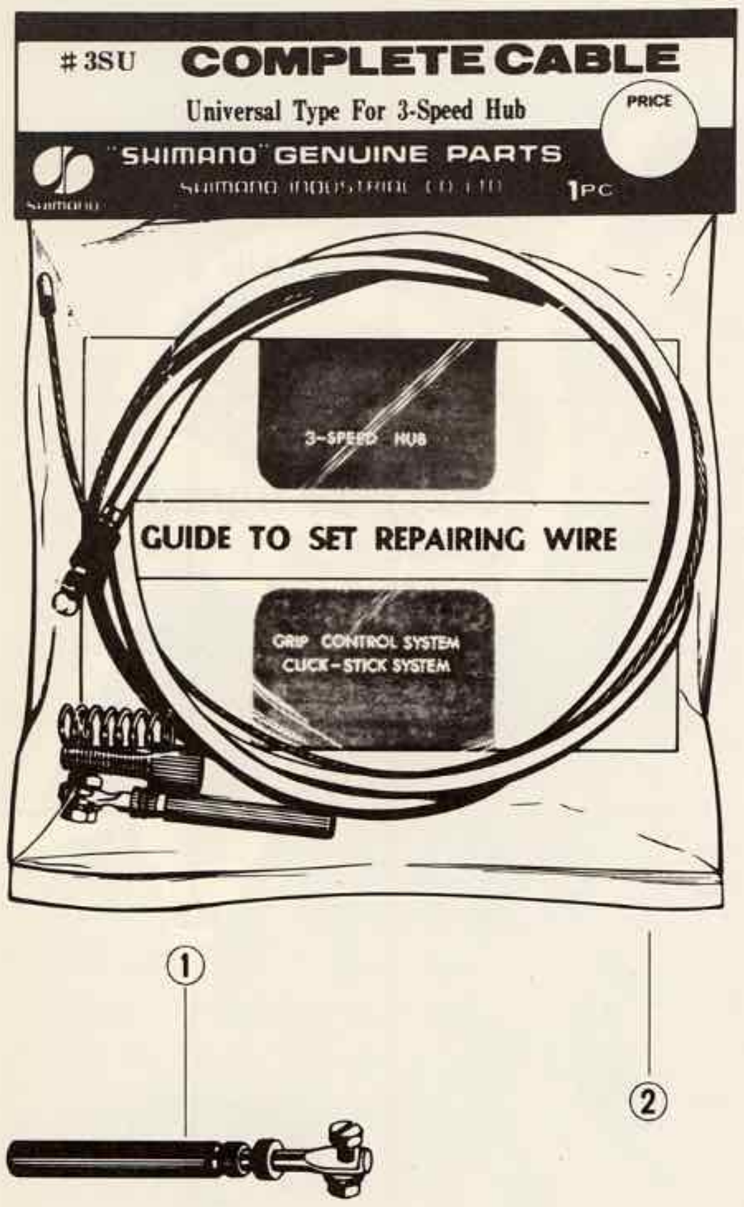


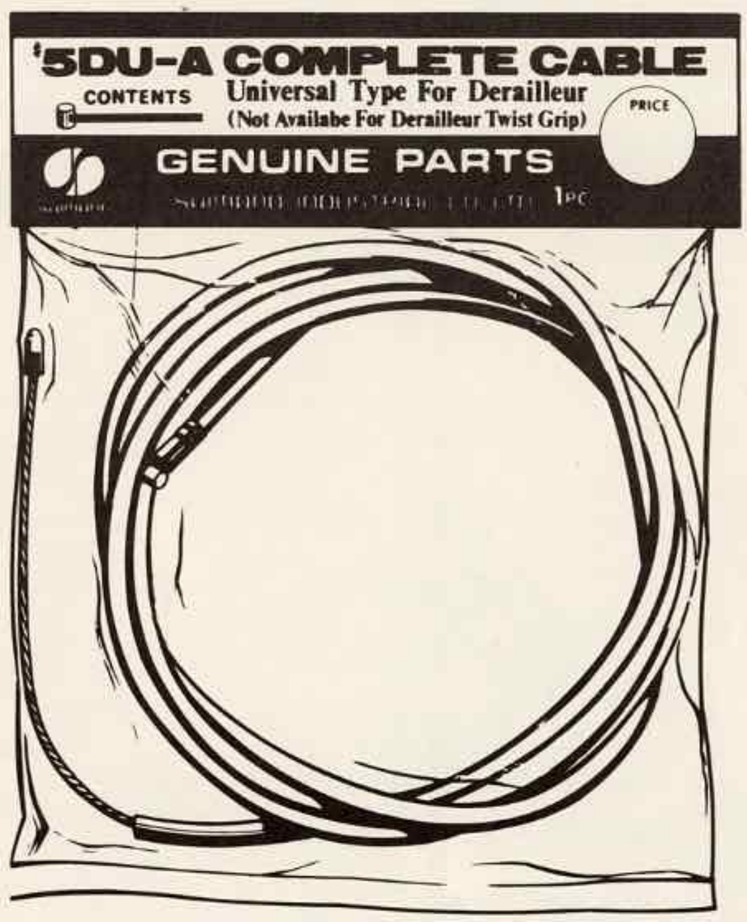
Model P-410
SPECIFICATIONS
Diameter: 8-1/2″ (215mm)
Use Range:
Low Gears Up to 32 & 34 teeth

SPOKES & NIPPLES



SHIMANO Universal Cables





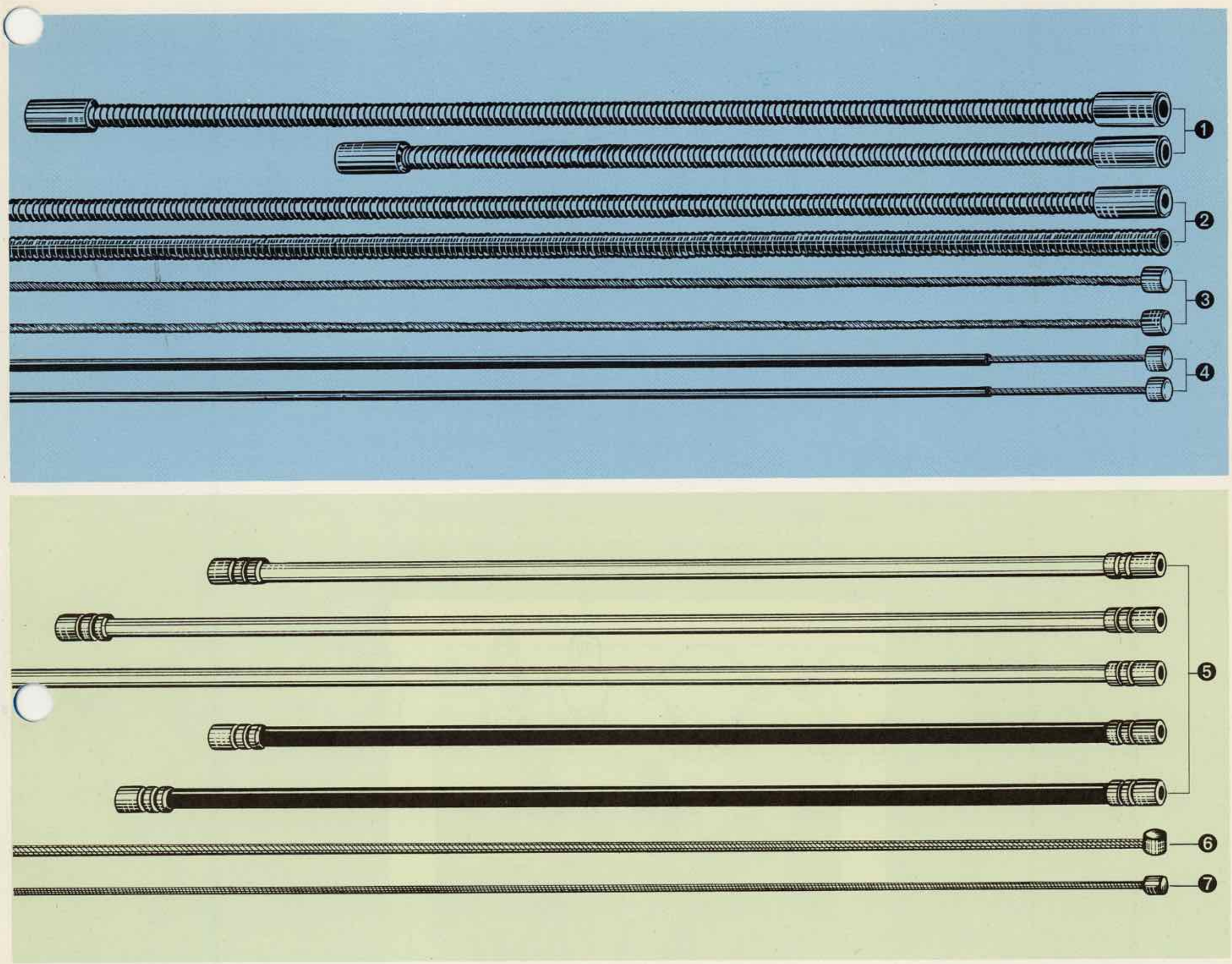


① ② ③ ④

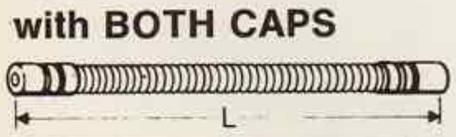
Universal joint **Model W-910** 3SU **Model W-911** 5DU-A **Model W-921** 5DU-B **Model W-922**

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 3-Speed Universal Spare Cable with Universal Joint	
3	W 921	603 0810	#5DU-A 5 and 10-Speed Universal Spare Cable. Shape of Cable End —▯ 1.5φ	5-Speed Click Stick and Console Lever
4	W 922	603 0820	#5DU-B 5 and 10-Speed Universal Spare Cable. Shape of Cable End —▭ 1.2φ	5 and 10-Speed Ordinary Lever

SHIMANO Outer Casings & Inner Cables

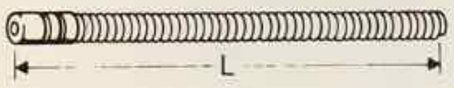


❶ STAINLESS OUTER CASING with BOTH CAPS



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

❷ STAINLESS OUTER CASING with ONE CAPS



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

❸ INNER CABLE (1.5mmϕ)



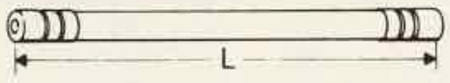
Model	Length
W-641	1,180mm
W-642	670mm

❹ 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

❺ 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

❻ INNER CABLE (1.5mmϕ)



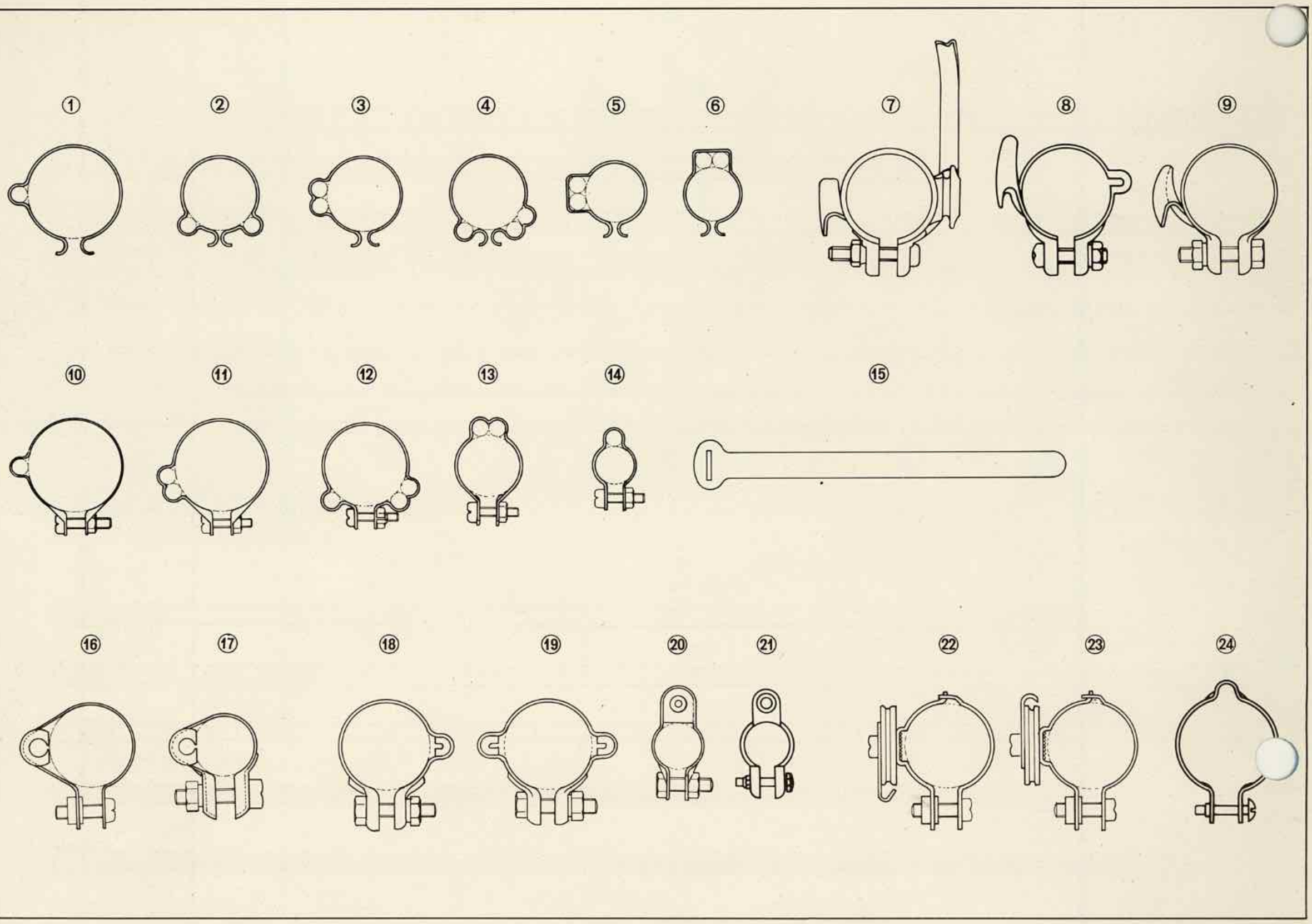
Model	Length
W-201	670mm
W-202	750mm
W-203	1,030mm
W-204	1,180mm
W-205	1,360mm
W-206	1,550mm
W-207	1,650mm

❼ 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

SHIMANO Outer Bands



ITEM NO.	CODE NO.	DESCRIPTION	inch (mm)
1	643 1000	Outer Clip	A-type 1⅛″ (28.6)
	643 0900	Outer Clip	A-type 1″ (25.4)
	643 2200	Outer Clip	A-type ⅞″ (22.2)
	643 8000	Outer Clip	A-type ¾″ (19.0)
	643 0700	Outer Clip	A-type ⅝″ (15.9)
	643 0800	Outer Clip	A-type ½″ (12.7)
2	643 0901	Outer Clip	B-type .1″ (25.4)
3	611 3500	Outer Clip	C-type 1″ (25.4)
4	651 0800	Outer Clip	D-type 1″ (25.4)
5	611 3501	Outer Clip	E-type ¾″ (19.0)
6	611 3502	Outer Clip	F-type 11/16″ (17.5)
7	622 9111	Cable Guide	A-type 1⅛″ (28.6) M4.5 x 24
8	622 9110	Cable Guide	B-type 1⅛″ (28.6) M4.5 x 24
9	622 9010	Cable Guide	C-type 1⅛″ (28.6) M4.5 x 24
10	651 9101	Outer Band	A-type 1″ (25.4) M3.0 x 14
	651 9102	Outer Band	A-type 1⅛″ (28.6) M3.0 x 14
11	651 9103	Outer Band	B-type 1″ (25.4) M3.0 x 14
	651 9104	Outer Band	B-type 1⅛″ (28.6) M3.0 x 14
12	651 9100	Outer Band	C-type 1″ (25.4) M3.0 x 14
13	651 9105	Outer Band	D-type ¾″ (19.0) M3.0 x 14
	651 9106	Outer Band	D-type ⅝″ (15.9) M3.0 x 14

ITEM NO.	CODE NO.	DESCRIPTION	inch (mm)
14	651 9107	Outer Band	E-type ½″ (12.7) M3.0 x 14
	651 9108	Outer Band	E-type 7/16″ (11.1) M3.0 x 14
15	611 0501	Outer Band	5.9″ (150)
	611 0500	Outer Band	4.52″(115)
	611 0600	Outer Band	3.14″(80)
16	611 9005	Stopper Band	A-type 1⅛″ (28.6) M4.5 x 15
	611 9006	Stopper Band	A-type 1″ (25.4) M4.5 x 15
	611 9008	Stopper Band	A-type ⅞″ (22.2) M4.5 x 15
17	611 9010	Stopper Band	C-type ¾″ (19.0) M4.5 x 24
	611 9011	Stopper Band	C-type 11/16″ (17.5) M4.4 x 24
	643 9044	Stopper Band	C-type ⅝″ (15.9) M4.5 x 24
	643 9045	Stopper Band	C-type ½″ (12.7) M4.5 x 24
18	622 9106	Cable Stop	A-type 1⅛″ (28.6) M4.5 x 24
19	622 9107	Cable Stop	B-type 1⅛″ (28.6) M4.5 x 24
20	622 9105	Cable Stop	C-type ⅝″ (15.9) M4.5 x 15
	622 9108	Cable Stop	C-type ½″ (12.7) M4.5 x 15
21	622 9112	Cable Stop	A-type ⅝″ (15.9) M4.5 x
22	611 9001	Guide Roller	A-type 1⅛″ (28.6) M4.5 x
23	611 9002	Guide Roller	B-type 1″ (25.4) M4.5 x 15
	654 9011	Guide Roller	B-type ⅝″ (15.9) M4.5 x 12
24	831 9011	Cable Clip	1″ (25.4) M3 x 11

SHIMANO Special Tools



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.



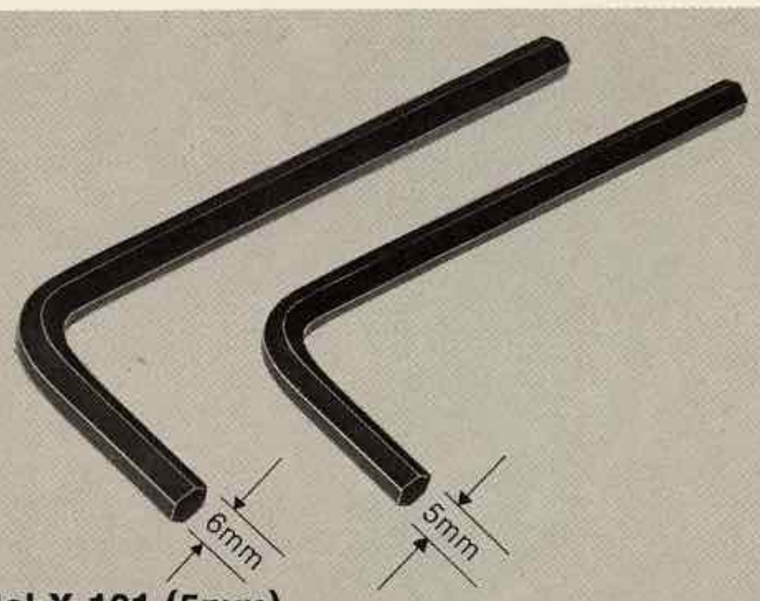
Model X-402
Automatic 5-stage freewheel removal tool.



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

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