ENGLISH EDITION

SHIMANO BICYCLE PARTS

SHIMANO

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SPECIFICATIONS ARE SUBJECT TO
CHANGE WITHOUT NOTICE.

Shimano, with a history of 50 years as a respected manufacturer of bicycle parts, ranks worldwide as one of the largest in this field. This fact is, of course, an important factor... both to Shimano and to our customers. Every facet of our products reflects the quality and service that has helped Shimano to consistently grow. But bigness isn't everything, and of course doesn't necessarily assure the quality and service which our customers have come to expect from Shimano.
We think that our technology has played a very important role in our progress. Last, and certainly not least, is the painstaking care we put into the developement and production of our products. It's really almost a love affair between us and our product. Because, you see, Shimano has a long-standing passion for bicycles that can really perform. We get just as excited about each new breakthrough... even the seemingly insignificant ones... as do our riding friends throughout the world.
The products introduced in this catalogue are our finest... and therefore the best that money can buy... each designed and produced with tender loving care.
They're made for bicycle lovers by bicycle lovers.
By SHIMANO

SHIMANO ROAD ENSEMBLE

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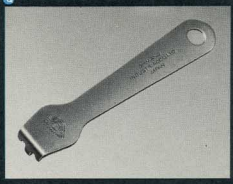










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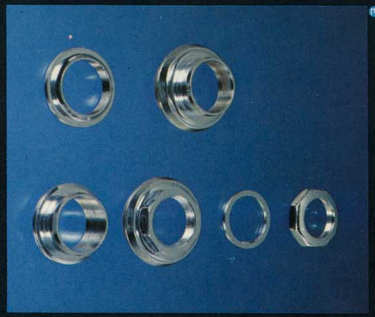
SHIMANO TRACK ENSEMBLE



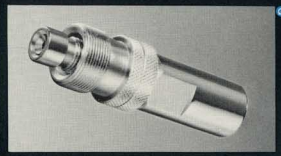
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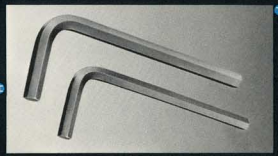














SHIMANO TOURING ENSEMBLE

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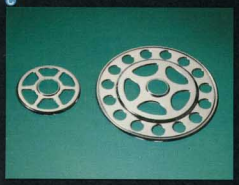
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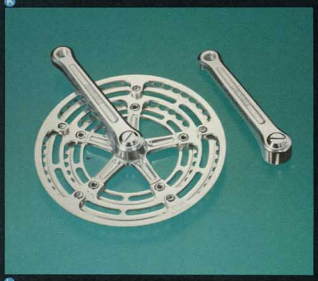
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REAR DERAILLEUR

Model D-501

CRANE

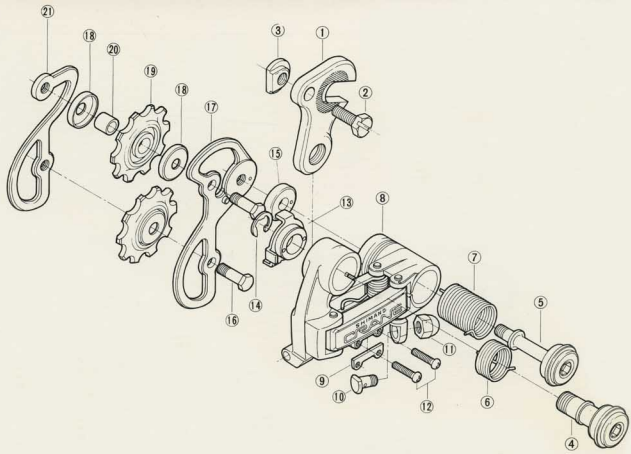
SPECIFICATIONS

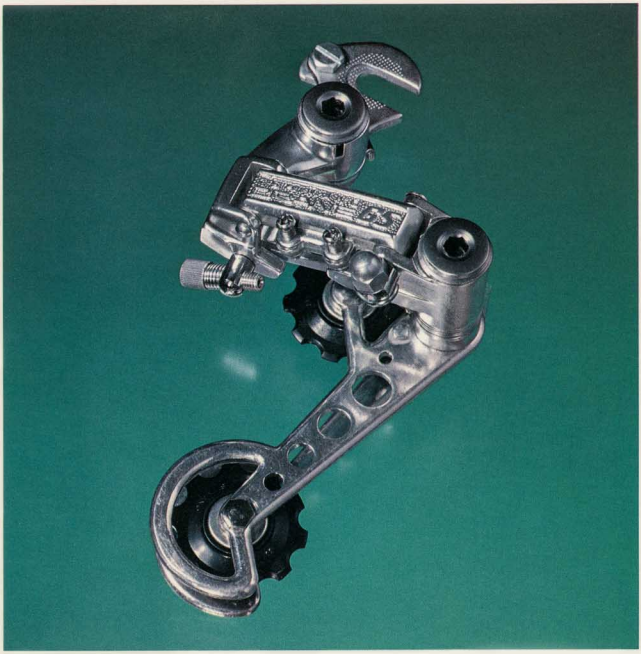
Capacity: 28 teeth
Weight: 7.9 oz (225 g)
Material: Light Alloy
Type: Servo Panta Mechanism
With Adapter: *Model D-500*

PARTS LIST

Adapter ①	527 2400
Adaptor Screw (M5 x 12) ②	000 1104
Adapter Nut ③	511 3500-1
Adapter Mounting Bolt ④	527 0200
Plate Mounting Bolt ⑤	527 1300
B-Tension Spring ⑥	528 1100
P-Tension Spring ⑦	527 1400
Mechanism Assembly ⑧	527 9001
Adjusting Plate ⑨	527 0700
Cable Fixing Bolt ⑩	521 1500-1
Cable Fixing Nut ⑪	527 0900
Adjusting Screw ⑫	527 0800
Adapter Bushing ⑬	528 9002
Stop Ring ⑭	528 1200
Plate Bushing ⑮	527 1500
Pulley Bolt ⑯	511 2600-1
Inner Cage Plate ⑰	527 1600
Pulley Cap ⑱	511 2700-1
Pulley ⑲	527 1800
Pulley Bushing ⑳	511 2900
Outer Cage Plate ㉑	527 1900







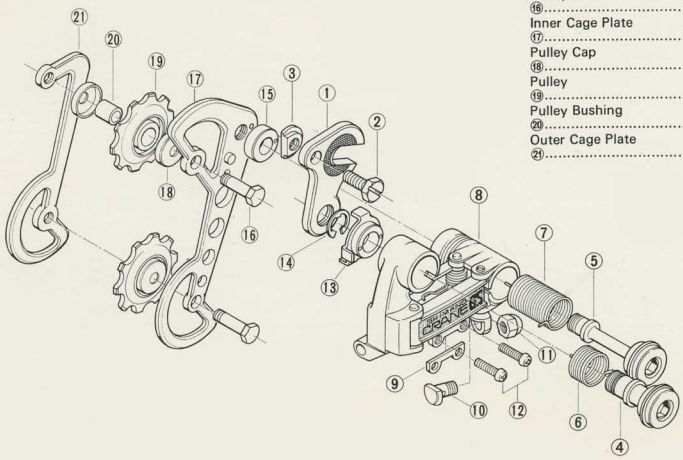
REAR DERAILLEUR
Model D-510

CRANE GS

SPECIFICATIONS
Capacity: 34 teeth
Weight: 9.5 oz (270 g)
Material: Light Alloy
Type: Servo Panta Mechanism (Long Cage Plate)
Without Adapter: *Model D-511*

PARTS LIST

Adapter ①	527 2400
Adapter Screw ②	000 1104
Adapter Nut ③	511 3500-1
Adapter Mounting Bolt ④	527 0200
Plate Mouning Bolt ⑤	527 1300
B-Tension Spring ⑥	528 1100
P-Tension Spring ⑦	528 0700
Mechanism Assembly ⑧	527 9002
Adjusting Plate ⑨	527 0700
Cable Fixing Bolt ⑩	521 1500-1
Cable Fixing Nut ⑪	527 0900
Adjusting Screw ⑫	527 0800
Adapter Bushing Assembly ⑬	528 9002
Stop Ring ⑭	528 1200
Plate Bushing ⑮	527 1500
Pulley Bolt ⑯	511 2600-1
Inner Cage Plate ⑰	528 0801
Pulley Cap ⑱	511 2600-1
Pulley ⑲	528 0801
Pulley Bushing ⑳	511 2700-1
Outer Cage Plate ㉑	522 1402



REAR DERAILLEUR

Model D-600

Titlist

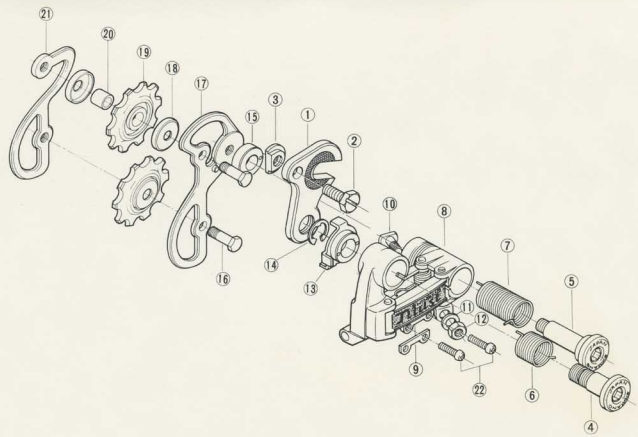
SPECIFICATIONS

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

PARTS LIST

Adapter ①	527 2401
Adapter Screw (M5 x 12) ②	000 1104
Adapter Nut ③	511 3500-1
Adapter Mounting Bolt ④	528 0200
Plate Mounting Bolt ⑤	528 0600
B-Tension Spring ⑥	528 1100
P-Tension Spring ⑦	527 1400
Mechanism Assembly ⑧	528 9003
Adjusting Plate ⑨	527 0700
Cable Fixing Bolt ⑩	521 1500
Cable Fixing Washer ⑪	511 1600
Cable Fixing Nut ⑫	525 1800
Adapter Bushing Assembly ⑬	528 9002
Stop Ring ⑭	528 1200
Plate Bushing ⑮	527 1500
Pulley Bolt ⑯	511 2600-1
Inner Cage Plate ⑰	527 1601
Pulley Cap ⑱	511 2700-1
Pulley ⑲	521 3100
Pulley Bushing ⑳	511 2900
Outer Cage Plate ㉑	527 1901
Adjusting Screw ㉒	527 0800







REAR DERAILLEUR

Model D-610

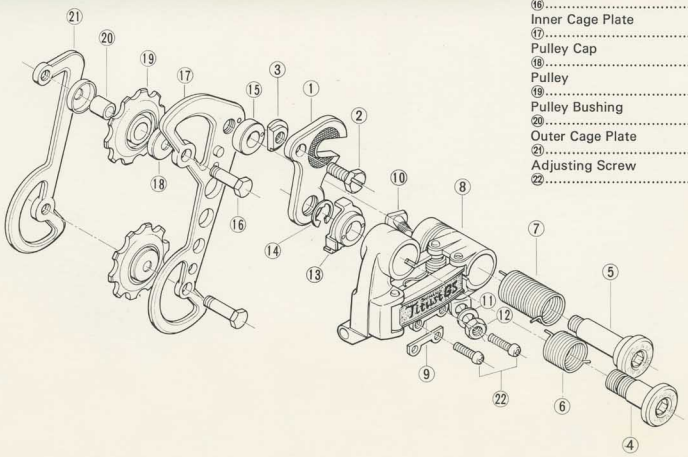
Titlist GS

SPECIFICATIONS

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

PARTS LIST

Adapter ①	527 2401
Adapter Screw (M5 x 12) ②	000 1104
Adapter Nut ③	511 3500-1
Adapter Mounting Bolt ④	528 0200
Plate Mounting Bolt ⑤	528 0600
B-Tension Spring ⑥	528 1100
P-Tension Spring ⑦	528 0700
Mechanism Assembly ⑧	528 9001
Adjusting Plate ⑨	527 0700
Cable Fixing Bolt ⑩	521 1500
Cable Fixing Washer ⑪	511 1600
Cable Fixing Nut ⑫	525 1800
Adapter Bushing Assembly ⑬	528 9002
Stop Ring ⑭	528 1200
Plate Bushing ⑮	527 1500
Pulley Bolt ⑯	511 2600-1
Inner Cage Plate ⑰	525 0520
Pulley Cap ⑱	511 2700-1
Pulley ⑲	521 3100
Pulley Bushing ⑳	511 2900
Outer Cage Plate ㉑	522 1410
Adjusting Screw ㉒	527 0800





FRONT DERAILLEUR

Model E-304

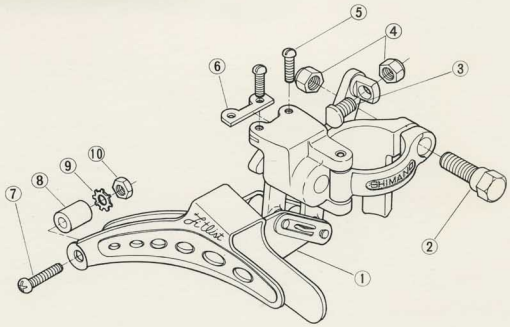
Titlist

SPECIFICATIONS

Weight: 4.9 oz (140 g)
Material: Light Alloy (Body), Steel (Chain Guide)
Type: Lower Inlet Type

PARTS LIST

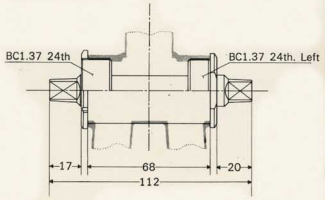
Mechanism Assem. Lower Inlet Type (1-1/8″)
① 584 9001
Clamp Bolt
② 584 0700
Cable Fixing Bolt
③ 521 1501
Cable Fixing Nut
④ 525 1801
Adjusting Bolt (M4 x 12)
⑤ 584 1300
Adjusting Plate
⑥ 584 1400
Bolt (M4 x 16)
⑦ 000 1002
Bushing
⑧ 584 1100
Toothed Lock Washer
⑨ 521 1800
Nut (M4)
⑩ 581 2001



FRONT CHAIN WHEEL

DURA-ACE

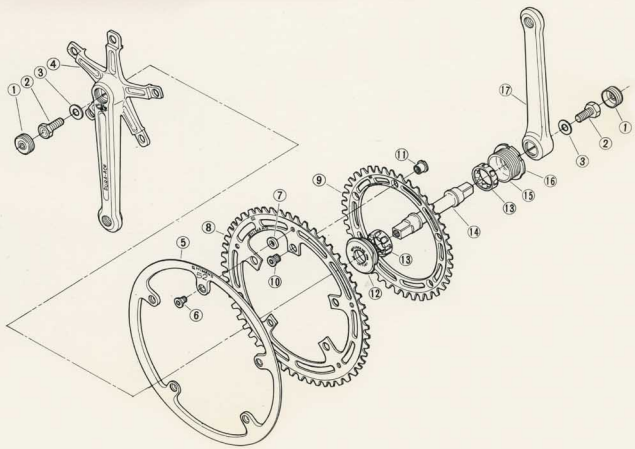
SPECIFICATIONS
Material: Light Alloy
Type: Cotterless
Chain Ring: 1/2″ x 3/32″ Chain (2m/m)
Teeth: Inner Chain Ring 39~48 teeth
Outer Chain Ring 48~55 teeth
Crank Lengths: 6-1/2″(165m/m),
6-3/4″(170m/m)
Crank Screw: 9/16″ x 20t.
Cup Screw: 1.37″ x 24t.
Spindle Length:



PARTS LIST

Crank Arm Cap
①..... 134 0200
Fixing Bolt
②..... 134 0300
Fixing Washer
③..... 134 0400
Right Crank Arm 165m/m (6-1/2″) W
④..... 132 0101
Right Crank Arm 170m/m (6-3/4″) W
④..... 132 0103
Chain Guard
⑤..... 132 0200
Guard Fixing Bolt
⑥..... 132 0300
Guard Fixing Spacer
⑦..... 132 0400
Chain Wheel 52 teeth
⑧..... 132 5200
Chain Wheel 39 teeth
⑨..... 132 3900
Chain Wheel Fixing Bolt
⑩..... 132 0500
Chain Wheel Fixing Nut
⑪..... 132 0600
R.H. Fixed Cup (1.37 x 24)
⑫..... 137 0200
Steel Ball Retainner
⑬..... 137 9001
Bottom Bracket Spindle 112 mm W
⑭..... 137 0100
L.H. Adjustable Cup (1.37 x 24)
⑮..... 137 0400
Lock Ring
⑯..... 137 0500
Left Crank Arm 165 mm (6-1/2″)
⑰..... 134 0101
Left Crank Arm 170 mm (6-3/4″)
⑰..... 134 0103

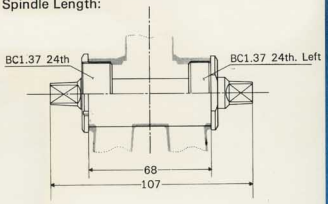




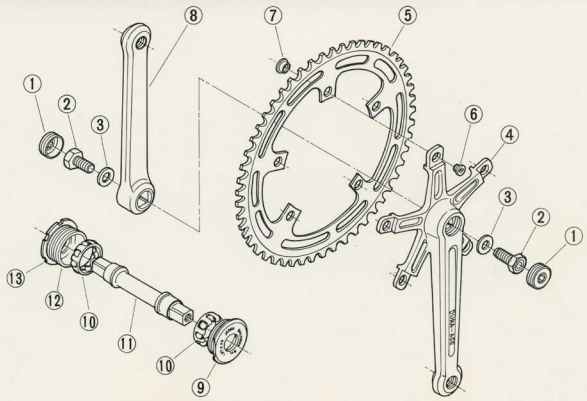
FRONT CHAIN WHEEL

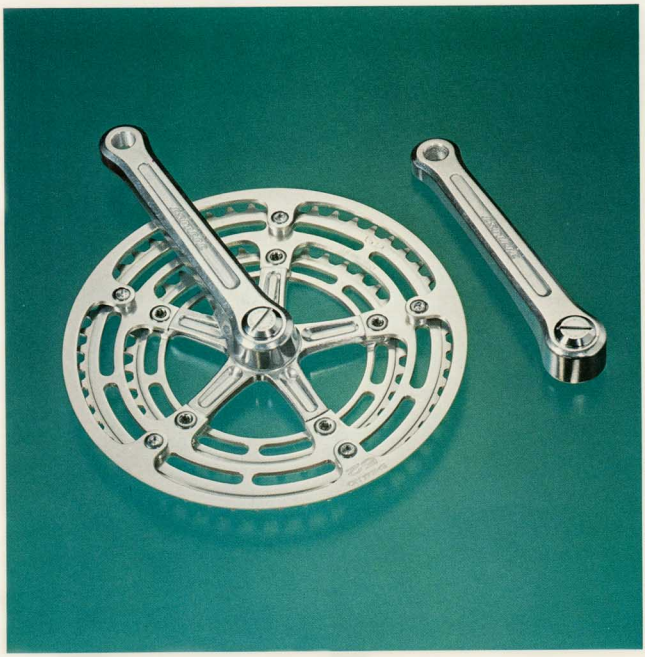
DURA-ACE

SPECIFICATION
Material: Light Alloy
Type: Cotterless
Chain Ring: 1/2″ x 1/8″ Chain
Teeth: 44~55 teeth
Crank Length: 165mm, 170mm
Crank Screw: 9/16″ x 20t.
Cup Screw: 1.37″ x 24t.
Spindle Length:





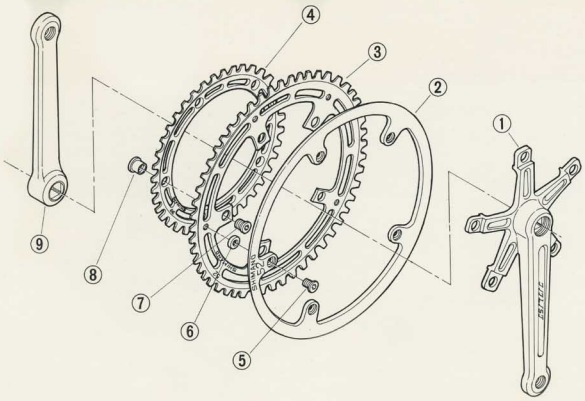




FRONT CHAIN WHEEL

Titlist

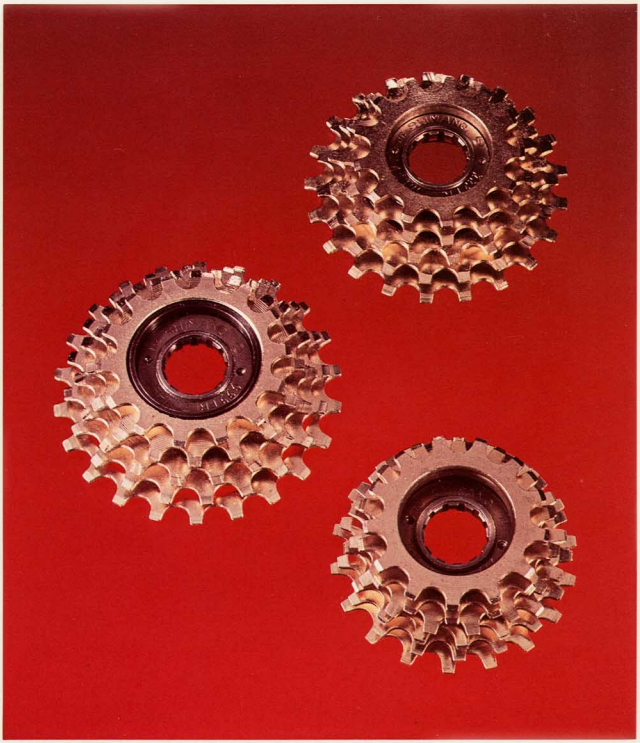
SPECIFICATIONS
Material: Light Alloy
Type: Cotterless
Chain Ring: 1/2″ x 3/32″ Chain (2m/m)
Teeth: Inner Chain Ring 39~48teeth
Outer Chain Ring 48~55teeth
Crank Lengths: 6-1/2″ (165m/m)
Crank Screw: 9/16″ x 20t.
Cup Screw: 1.37″ x 24t.

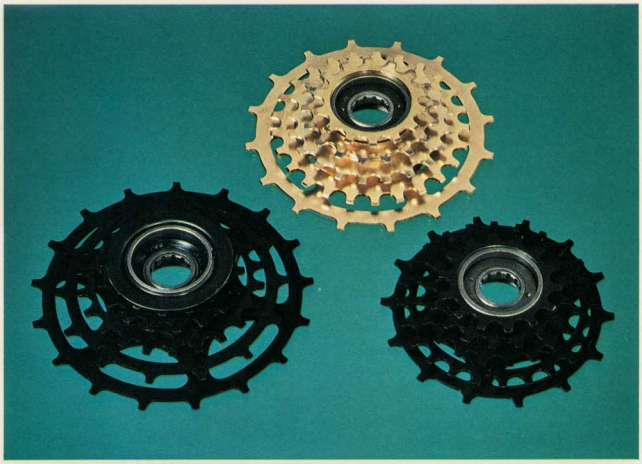


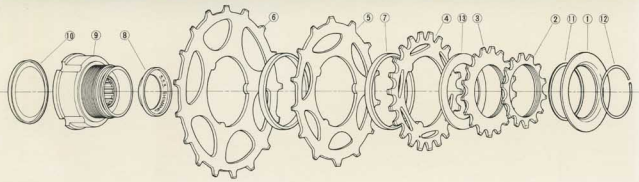
MULTIPLE FREE WHEELS

SPECIFICATIONS
Standard Sprocket: 1/2″ x 3/32″ Chain (2m/m)
Thread: 1.37″ x 24 T.P.I.
Standard Sprocket Combination:

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







MULTIPLE FREE WHEELS

SPECIFICATIONS

Standard Sprocket: 1/2″ x 3/32″ Chain (2 m/m)
Thread: 1.37″ x 24 T.P.I.
Standard Sprocket Combination

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
※PARTS LIST and EXPLODED VIEW show specification asterisked.

PARTS LIST

Top Proptector
①..... 121 5100-2
Sprocket Wheel 14T
②..... 121 1402
Sprocket Wheel 17T
③..... 121 1729
Sprocket Wheel 22T
④..... 123 2201
Sprocket Wheel 28T (Alternate)
⑤..... 123 2802
Sprocket Wheel 34T (Alternate)
⑥..... 123 3402
Sprocket Wheel Spacer
⑦..... 121 4810
Seal Cap A
⑧..... 121 5010
Outer Assembly
⑨..... 121 9052
Seal Cap B
⑩..... 121 5030
Shim
⑪..... 121 5200
Snap Ring
⑫..... 121 5300
Spacer
⑬..... 121 4880

SPROCKET

Model FR-912/FR-913/FR-914 /FR-915/FR-916

SPECIFICATIONS

Standard Sprocket: 1/2″ x 1/8″ Chain (2.5m/m)
Thread: 1.37″ x 24 T.P.I.
Material: Chromium Molybdenum Steel
Teeth:

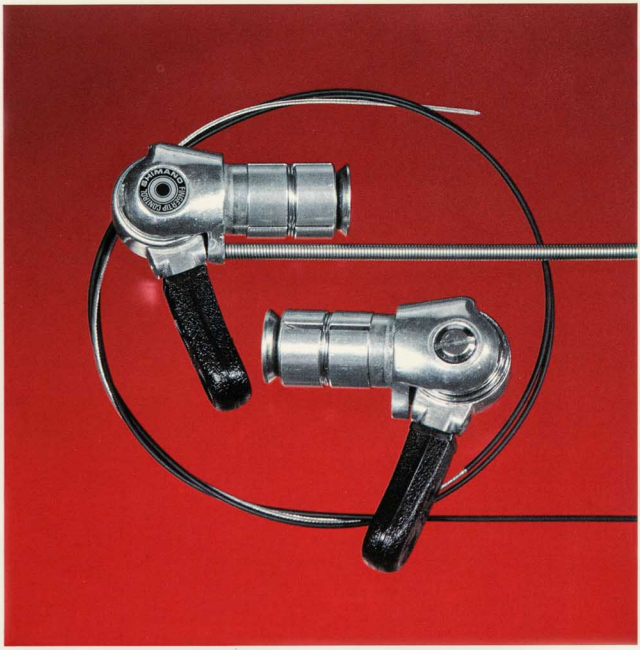
Model	Teeth
FR-912	12T.
FR-913	13T.
FR-914	14T.
FR-915	15T.
FR-916	16T.



SHIFTING LEVERS

Model L-600

"FINGER-TIP" BAREND CONTROL

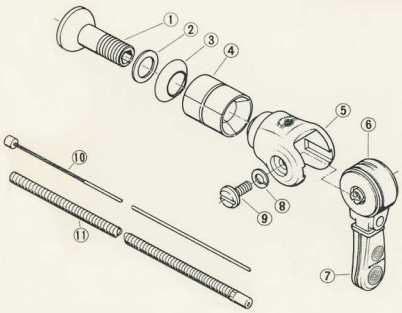


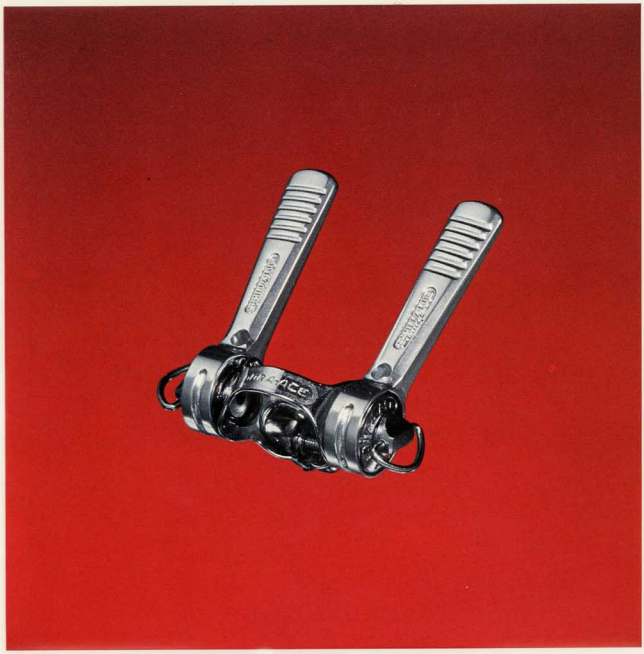
SPECIFICATIONS

Weight: 2.8 oz (80g)
Material: Light Alloy
Use: 10-speed

PARTS LIST

Anchor Bolt ①	628 0600
Plastic Washer ②	622 1000
Tapered Washer ③	628 1300
Segment Assembly with Spring ④	628 9001
Body ⑤	628 9002
Lever Assembly with Lever Cap ⑥	628 9003
Lever Cap ⑦	628 0990
Spring Washer ⑧	622 2600
Lever Fixing Bolt ⑨	628 0100
Front Inner Cable ⑩	
Rear Inner Cable ⑩	
Lever End Outer Casing ⑪	
Front Derailleur Outer Casing ⑪	
Rear Derailleur Outer Casing ⑪	



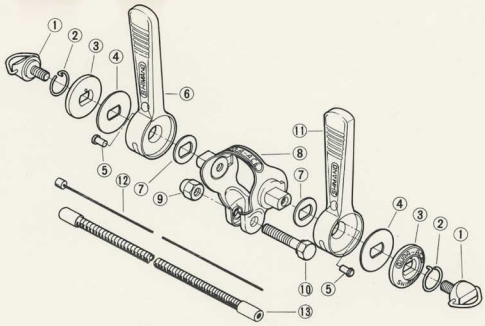


SHIFTING LEVER
Model L-284
DURA-ACE

SPECIFICATIONS
Weight: 2.65 oz (75g)
Material: Light Alloy
Use: 10-speed

PARTS LIST

Wing Screw ①	681 9001
Clutch Spring ②	681 1300
Cap ③	681 0300
Spring Washer ④	681 0400
Stopper ⑤	681 1000
L.H. Lever ⑥	681 0600
Washer A ⑦	681 0700
Clamp (1-1/8″) ⑧	681 9002
Clamp Nut ⑨	681 1200
Clamp Bolt ⑩	681 1100
R.H. Lever ⑪	681 0500
Front Inner Cable ⑫	
Rear Inner Cable ⑫	
Front Outer Casing ⑬	
Rear Outer Casing ⑬	



SHIFTING LEVERS

Model L-264/L-268/L-266/L-263/ L-267/L-265

FINGER-TIP

SPECIFICATIONS

Material: Light Alloy

Type:

Model	Lever Clamp Diameter	Use
L-264	1-1/8″	10-Speed
L-268	0.833″	10-Speed
L-266	7/8 ″	10-Speed
L-263	1-1/8″	5-Speed
L-267	0.833″	5-Speed
L-265	7/8 ″	5-Speed

PARTS LIST

Wing Bolt Assembly
①..... 627 9001

Coned Disc Spring
②..... 627 0700

Non-Turn Washer
③..... 627 0600

Spiral Spring
④..... 627 0500

Lever
⑤..... 627 0100

Leaf Spring
⑥..... 627 1100

Screw
⑦..... 627 1000

Washer
⑧..... 627 0400

Clamp Bolt (M4.5 x 24)
⑨..... 622 0100

Clamp Nut (M4.5)
⑩..... 622 0200

Clamp For 10-Speed (1″)
⑪..... 627 9002

Clamp For 10-Speed (1-1/8″)
⑪..... 627 9003

Clamp For 5-Speed (1″)
⑫..... 627 9004

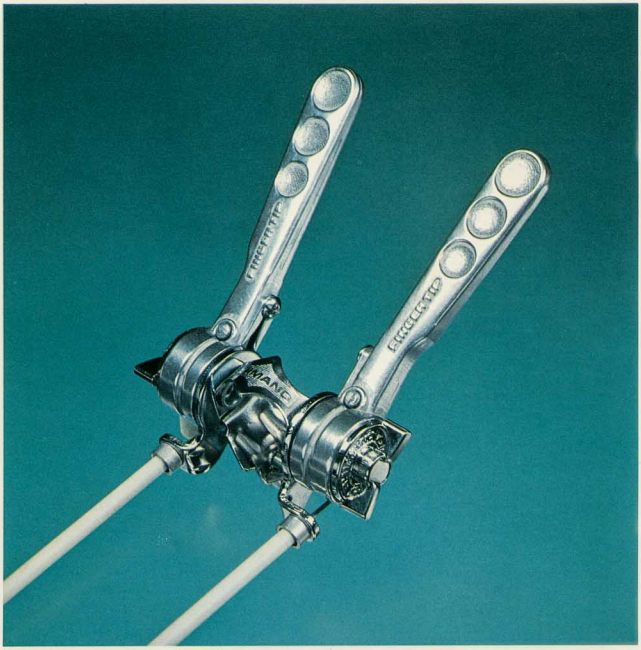
Clamp For 5-Speed (1-1/8″)
⑫..... 627 9005

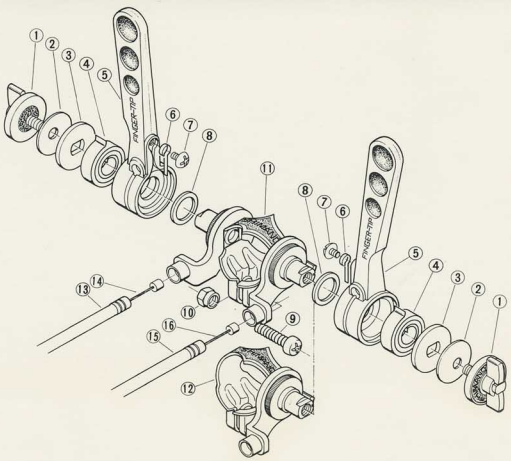
Front Outer Casing
⑬

Front Inner Cable
⑭

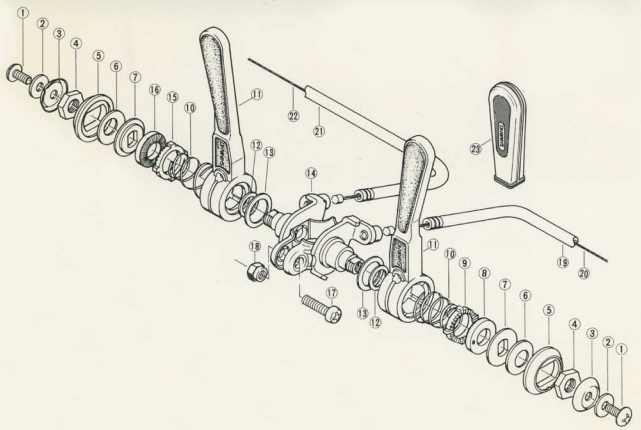
Rear Outer Casing
⑮

Rear Inner Cable
⑯









SHIFTING LEVERS

Model L-254/L-258/L-256/L-253/ L-257/L-255

SUPER SHIFTER

SPECIFICATIONS

Material: Light Alloy

Type:

Model	Lever Clamp Diameter	Use
L-254	1-1/8″	10-Speed
L-258	0.833″	10-Speed
L-256	7/8 ″	10-Speed
L-253	1-1/8″	5-Speed
L-257	0.833″	5-Speed
L-255	7/8 ″	5-Speed

PARTS LIST

Lever Bolt (M4.5 x 10)
①..... 625 1400

Rubber Washer
②..... 627 1400

Cap
③..... 625 0400-1

Lock Nut
④..... 521 2500

Washer B
⑤..... 625 1500

Coned Disc Spring
⑥..... 641 1100

Non-Turn Washer
⑦..... 625 0200-1

R.H. Ratchet B with O-Mark
⑧..... 625 0901

R.H. Ratchet A with O-Mark
⑨..... 625 0801

Spring
⑩..... 625 1000

Lever
⑪..... 625 0100

Washer S
⑫..... 625 1100

Washer L
⑬..... 625 1200

Clamp for 10-Speed (0.833″)
⑭..... 625 9002

Clamp for 10-Speed (7/8″)
⑭..... 625 9004

L.H. Ratchet A
⑮..... 625 0802

L.H. Ratchet B
⑯..... 625 0902

Clamp Bolt (M4.5 x 18)
⑰..... 612 1700

Clamp Nut (M4.5)
⑱..... 622 0200

Rear Outer Casing
⑲

Rear Inner Cable
⑳

Front Outer Casing
㉑

Front Inner Cable
㉒

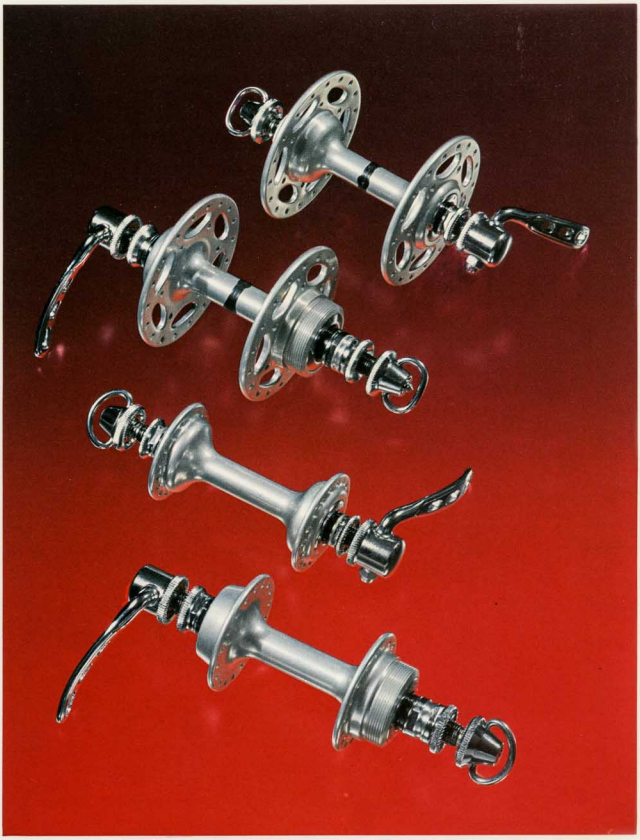
Lever Cap
㉓..... 626 1900

FRONT & REAR HUBS

Model H-731 (Front)**/H-831** (Rear): Large Flange Hub

Model HS-731 (Front)**/HS-831** (Rear): Small Flange Hub

DURA-ACE



SPECIFICATIONS/Large Flange Hub
Weight: Front 9.2oz (260g), Rear 12.7oz (360g)
Material: Light Alloy
Type: Large Flange, Small Flange, Quick Release
Thread: 1.37″ x 24 T.P.I.
Over Lock Nut Dimensions:
Front 3.94″ (100m/m), Rear 4.72″ (120m/m)
Spoke Holes: 36 x 36H.

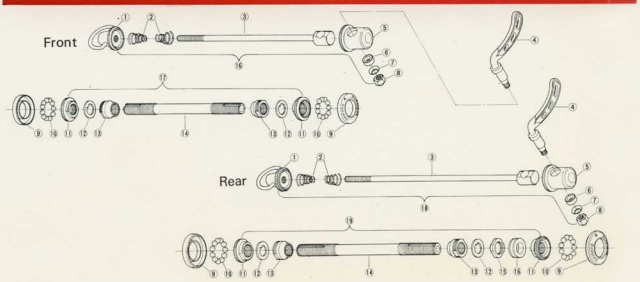
SPECIFICATIONS/Small Flange Hub
Weight: Front 7.8oz (220g), Rear 10.2oz (290g)
Material: Light Alloy
Type: Small Flange, Quick Release
Thread: 1.37″ x 24 T.P.I.
Over Lock Nut Dimension:
Front 3.94″ (100m/m), Rear 4.72″ (120m/m)
Spoke Holes: 36 x 36H.

PARTS LIST/Front

Nut for Mounting Stud
①.....233 9001
Volute Spring
②.....233 2100
Mounting Stud
③.....233 0800
Cum Lever
④.....233 0400
Body Cum Lever
⑤.....233 0300
Bushing
⑥.....233 0700
Coned Disc Spring
⑦.....233 0500
Cap Nut
⑧.....233 0600
Dust Cap
⑨.....233 1400
Steel Balls 3/16″
⑩.....000 0125
Locking Nut
⑪.....233 1700
Key Washer
⑫.....233 1600
Cone
⑬.....233 1500
Axle (M9 x 108 mm)
⑭.....233 1800
Oil Cap
⑮.....233 1200
Complete Quick Release Unit
⑯.....233 9002
Complete Axle Unit
⑰.....233 9003

PARTS LIST/Rear

Nut for Mounting Stud
①.....233 9001
Volute Spring
②.....233 2100
Mounting Stud
③.....243 0800
Cum Lever
④.....233 0400
Body Cum Lever
⑤.....233 0300
Bushing
⑥.....233 0700
Coned Disc Spring
⑦.....233 0500
Cap Nut
⑧.....233 0600
Dust Cap
⑨.....243 1400
Steel Balls 1/4″
⑩.....000 0135
Locking Nut
⑪.....243 0700
Key Washer
⑫.....243 1600
Cone
⑬.....243 1500
Axle (M10 x 130 mm)
⑭.....243 2000
Lock Nut
⑮.....243 1800
Spacer
⑯.....243 1900
Oil Cap
⑰.....233 1200
Complete Quick Release Unit
⑱.....243 9002
Complete Axle Unit
⑲.....243 9004





FRONT & REAR HUB

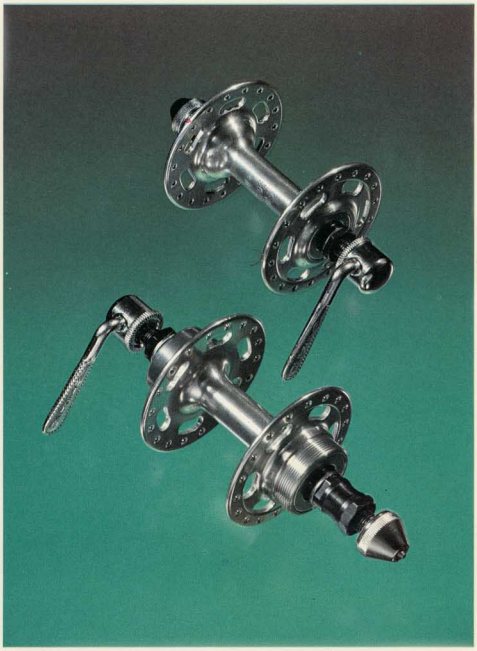
Model H-741 (Front), **H-841** (Rear): Large Flange Hub/
Model -HS741 (Front), **HS-841** (Rear): Small Flange Hub

DURA-ACE

SPECIFICATIONS

Weight: Large Flange Hub, Front 8.5 oz (240g), Rear 10.2 oz (290g)
Small Flange Hub, Front 7.1 oz (200g), Rear 8.8 oz (250g)
Material: Light Alloy
Type: Large Flange, Small Flange, Solid Axle
Thread: 1.37″ x 24 T.P.I.
Over Lock Nut Dimensions:
Front 3.94″ (100m/m), Rear 4.33″ (110m/m)
Spoke Holes: 36 x 36H.

FRONT & REAR HUBS
Model H-710 (Front) **/H-810** (Rear)



SPECIFICATIONS
Weight: Front 9.5oz (270g), Rear 12.7oz (360g)
Material: Light Alloy
Type: Large Flange, Quick Release
Thread: 1 37″ x 24 T.P.I.
Over Lock Nut Dimension: Front 3.78″(96m/m), Rear 4.88″(124m/m)
Spoke Holes: 36 x 36H.

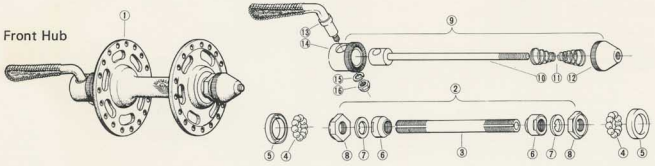
PARTS LIST/Front Hub

Complete Front Hub (36H) ①	231 811101
Complete Axle Unit ②	231 9003
Axle ③	231 0300
Steel Balls 3/16″ ④	000 0121
Dust Cap ⑤	231 1300
Cone ⑥	231 0400
Key Washer ⑦	231 1500
Locking Nut ⑧	210 0820
Complete Quick Release Unit ⑨	231 9001
Mounting Stud ⑩	231 0900
Volute Spring ⑪	231 1100
Nut for Mounting Stud ⑫	231 1000-1
Cum Lever ⑬	231 0600-1
Body Cum Lever ⑭	231 0500-1
Spring Washer ⑮	231 0700
Cap Nut ⑯	231 0800

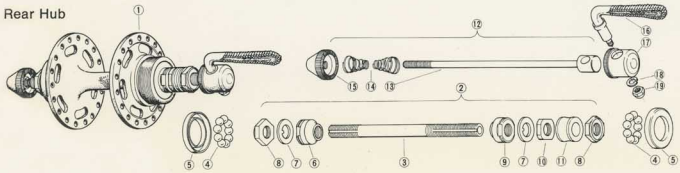
PARTS LIST/Rear Hub

Complete Rear Hub (36H) ①	241 61101
Complete Axle Unit ②	241 9003
Axle ③	241 0300-1
Steel Balls 1/4″ ④	000 0131
Dust Cap ⑤	241 0600
L.H. Cone (0.59″) ⑥	220 0820-2
Key Washer ⑦	241 0700-1
Locking Nut ⑧	220 0501
R.H. Cone (0.51″) ⑨	220 0800-2
Lock Nut ⑩	200 0400-1
Spacer (0.47″) ⑪	241 0800
Complete Quick Release Unit ⑫	241 9001
Mounting Stud ⑬	241 0400
Volute Spring ⑭	231 1100
Nut for Mounting Stud ⑮	231 1000-1
Cum Lever ⑯	231 0600-1
Body Cum Lever ⑰	231 0500-1
Spring Washer ⑱	231 0700
Cap Nut ⑲	231 0800

Front Hub



Rear Hub



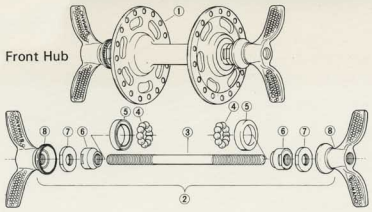


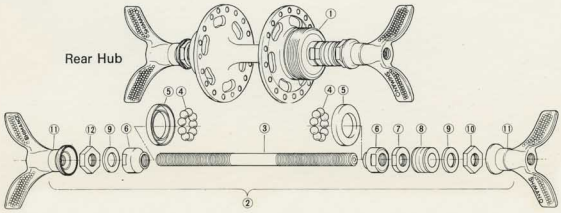
FRONT & REAR HUBS
Model H-720 (Front)**/H-820** (Rear)

SPECIFICATIONS
Weight: Front 8.2oz (230g), Rear 12.3oz (350g)
Material: Light Alloy
Type: Large Flange Solid Axle Type with Wing Nut
Thread: 1.37″ x 24 T.P.I.
Over Lock Nut Dimension:
Front 3.78″(96m/m), Rear 4.88″(124m/m)
Spoke Holes: 36 x 36H.

PARTS LIST/Front Hub
Complete Front Hub W/Wing Nut 36H 5/16″ x 5.52″ (140m/m)
①..... 232 82202
Complete Axle Unit 5/16″ x 5.52″ (140m/m)
②.....232 9005
Axle 5/16″ x 5.52″ (140m/m)
③.....210 0320
Steel Balls 3/16″
④.....000 0121
Dust Cap
⑤.....210 0902
Cone
⑥.....210 0400-1
Lock Nut
⑦.....210 0810
Front Wing Nut
⑧.....210 9002

PARTS LIST/Rear Hub
Complete Rear Hub W/Wing Nut 36H 3/8″ x 7.09″ (180m/m)
①..... 242 64302
Complete Axle Unit 3/8″ x 7.09″ (180m/m)
②.....242 9005
Axle 3/8″ x 7.09″ (180m/m)
③.....220 0330
Steel Balls 1/4″
④.....000 0131
Dust Cap
⑤.....220 0702
Cone
⑥.....220 0820-1
Lock Nut A
⑦.....200 0401
Spacer A 0.45″(11.5m/m)
⑧.....220 0420-1
Spacer B 1/16″(1.5m/m)
⑨.....220 0400-1
Lock Nut B 1/8″
⑩.....321 3800
Rear Wing Nut
⑪.....220 9002
Lock Nut C 3/16″
⑫.....220 0510-1





CALIPER BRAKE

Model B-210

DURA-ACE

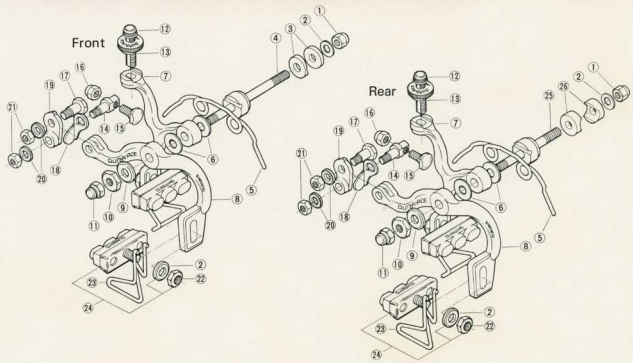


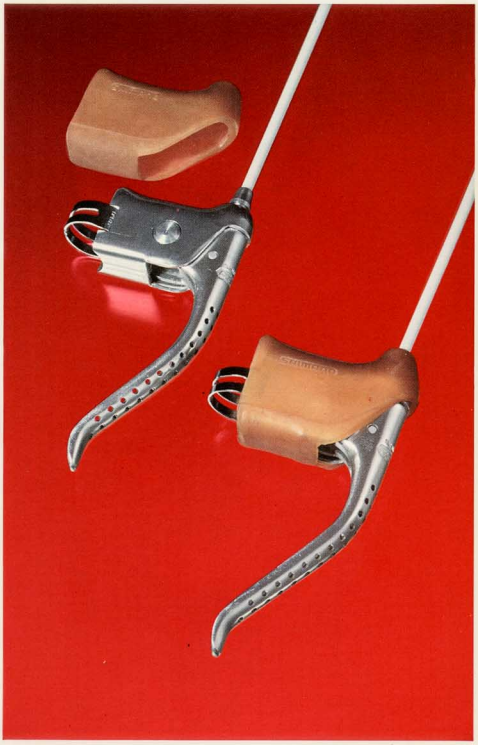
SPECIFICATIONS

Weight: Front 7.1 oz (200g), Rear 7.1 oz (200g)
Material: Light Alloy
Type: Side Pull with Quick Release

PARTS LIST

Lock Nut for Pivot Bolt ①	855 0900
Washer (M6) ②	855 1000
R-Washer ③	855 2700
Pivot Bolt ④	855 0300
Arm Return Spring ⑤	855 2800
Arm Washer ⑥	855 0500
Brake Arm "Y" Shape ⑦	855 0100
Brake Arm "C" Shape ⑧	855 0200
Washer ⑨	855 0600
Lock Nut (M6) ⑩	855 0700
Cap Nut (M6) ⑪	855 0800
Outer Adjust Bolt ⑫	855 2400
Outer Adjust Nut ⑬	855 2500
Inner Fixing Pin ⑭	855 1900
Wire Fixing Bolt ⑮	855 2000
Cap Nut (M5) ⑯	855 2100
Link Pin ⑰	855 1600
Quick Lever ⑱	855 2300
Link ⑲	855 2200
Washer (M5) ⑳	855 1700
Nut (M5) ㉑	855 1800
Shoe Holder Fixing Nut ㉒	855 1100
Tyre Guide ㉓	855 1500
Brake Shoe Assembly ㉔	855 9001
(REAR) Pivot Bolt ㉕	855 0400
R-Washer ㉖	855 2600





BRAKE LEVER

Model M-140

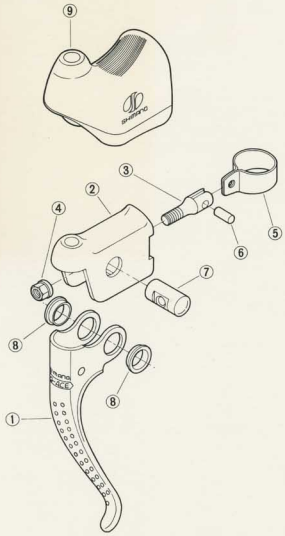
DURA-ACE

SPECIFICATIONS

Weight: 5.2 oz (150g)/1 Pair
Material: Light Alloy
Type: Hooded Lever
Lever Clamp Diameter: 23,8ϕ

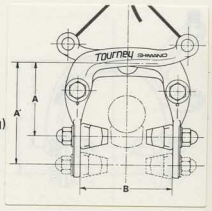
PARTS LIST

Lever ①	843 9001
Lever Bracket ②	843 0100
Pull Up Bolt ③	843 0700
Pull Up Nut ④	843 0900
Clamp ⑤	843 0600
Joint Pin ⑥	843 0800
Lever Shaft ⑦	843 0500
Bushing ⑧	843 0400
Rubber Cover ⑨	843 1000



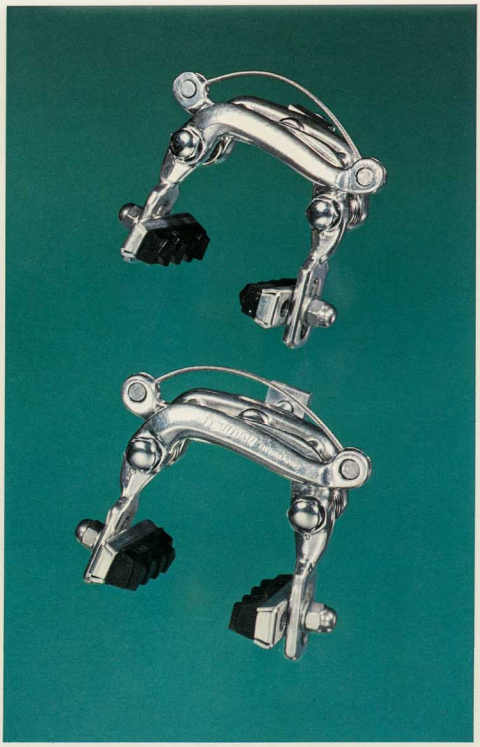
CALIPER BRAKE
Model B-110/B-120

Tourney



SPECIFICATIONS
Weight: Model B-110, Front 6.0 oz (170 g)
Rear 6.3 oz (180 g)
/Model B-120, Front 6.5 oz (185 g)
Rear 6.2 oz (175 g)
Material: Light Alloy
Type: Caliper Brake Center Pull

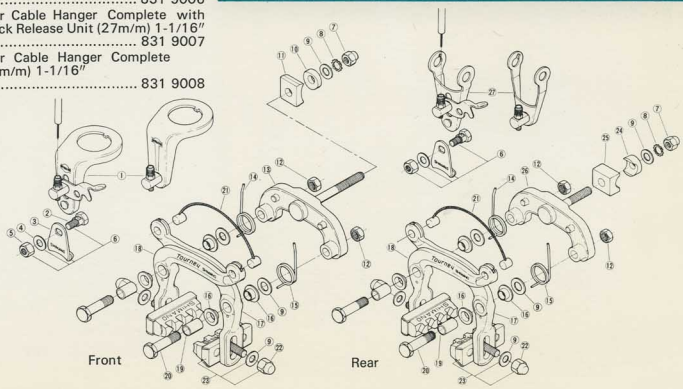
Type	Model	A~A'	B	Use
CC-65	B-110	47m/m(1-7/8″)~65m/m(2-1/2″)	59m/m(2-5/16″)	27″
CC-75	B-120	57m/m(2-1/4″)~75m/m(3″)	65m/m(2-1/2″)	26″

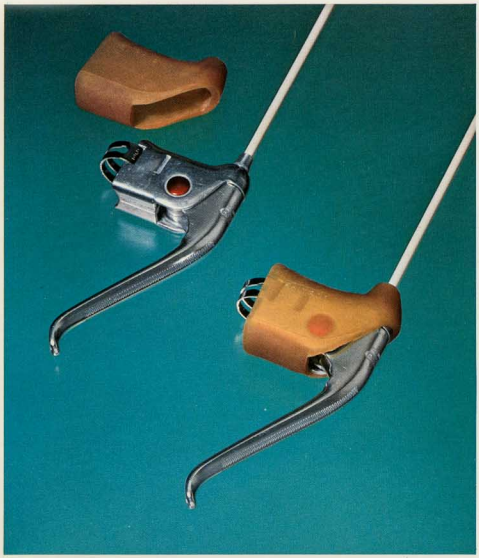


PARTS LIST



Front Cable Hanger Complete with Quick Release Unit
①..... 831 9004
Front Cable Hanger Complete
①..... 831 9005
Cable Anchor Bolt
②..... 831 5300
Cable Carrier
③..... 831 5200
Cable Anchor Washer
④..... 831 5400
Cable Anchor Nut
⑤..... 831 0700
Cable Carrier Complete
⑥..... 831 9010
Lock Nut for Center Bolt
⑦..... 831 3700
Toothed lock Washer
⑧..... 811 6100
Washer
⑨..... 831 0600
Concave Washer for Front Brake
⑩..... 811 6000
Square Concave Washer for Front Brake
⑪..... 831 3300
Lock Nut for Pivot Bolt
⑫..... 831 0700
Arm Bridge with Center Bolt (63m/m) 2-1/2″
⑬..... 831 9001
Arm Bridge with Center Bolt (71m/m) 2-3/4″
⑬..... 831 9002
L.H. Arm Return Spring
⑭..... 831 2101
R.H. Arm Return Spring
⑮..... 831 2100
Flanged Thrust Washer
⑯..... 831 0500
Inner Brake Arm CC-75 Type
⑰..... 831 0201
Inner Brake Arm CC-65 Type
⑰..... 831 0211
Outer Brake Arm CC-75 Type
⑱..... 831 0200
Outer Brake Arm CC-65 Type
⑱..... 831 0210
Bushing
⑲..... 831 0400
Pivot Bolt
⑳..... 831 0300
Center Cable (90m/m) 3-1/2″
㉑..... 831 5100
Cap Nut for Brake Shoe
㉒..... 831 4300
Brake Shoe Assembly
㉓..... 831 9009
(REAR)
R-Washer
㉔..... 811 6010
Square Concave Washer for Rear Brake
㉕..... 831 3400
Arm Bridge with Center Bolt (42m/m) 1-5/8″
㉖..... 831 9003
Rear Cable Hanger Complete with Quick Release Unit (23m/m) 7/8″
㉗..... 831 9006
Rear Cable Hanger Complete with Quick Release Unit (27m/m) 1-1/16″
㉗..... 831 9007
Rear Cable Hanger Complete (27m/m) 1-1/16″
㉗..... 831 9008





BRAKE LEVER

Model M-110/M120

HOODED LEVER

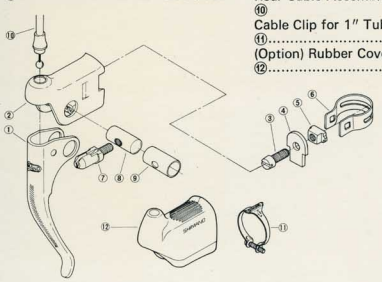
SPECIFICATIONS

Weight: 7.1 oz (200g)/1 Pair
Material: Light Alloy
Type :

Model	Lever Clamp Diameter
M-110	22.2 ϕ
M-120	23.8 ϕ

PARTS LIST

Lever
①..... 841 0600
Lever Bracket
②..... 841 0100
Pull up Bolt
③..... 841 0500
Pull up Plate
④..... 841 0200
Pull up Nut
⑤..... 841 0400
Clamp 7/8″ (22.2 m/m)
⑥..... 841 0300
Clamp 15/16″ (23.8 m/m)
⑥..... 841 0301
Cable Anchor Pin
⑦..... 841 1000
Stud for Pull up Bolt
⑧..... 841 0900
Sleeve
⑨..... 841 0700
Front Cable Assembly
⑩
Rear Cable Assembly
⑩
Cable Clip for 1″ Tube
⑪..... 831 9011
(Option) Rubber Cover
⑫..... 841 1100





BRAKE LEVER

Model M-210/M-220

DUAL EXTENSION LEVER

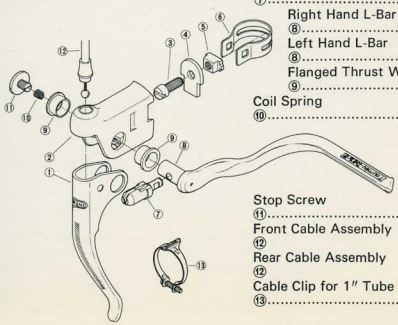
SPECIFICATIONS

Weight: 11.3 oz (320g)/1 Pair
Material: Light Alloy
Type :

Model	Lever Clamp Diameter
M-210	22.2 ϕ
M-220	23.8 ϕ

PARTS LIST

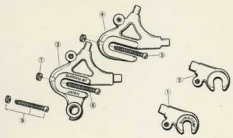
Lever
①..... 841 0600
Lever Bracket
②..... 841 0100
Pull up Bolt
③..... 841 0500
Pull up Plate
④..... 841 0200
Pull up Nut
⑤..... 841 0400
Clamp 7/8″ (22.2 m/m)
⑥..... 841 0300
Clamp 15/16″ (23.8 m/m)
⑥..... 841 0301
Cable Anchor Pin
⑦..... 842 1000
Right Hand L-Bar
⑧..... 842 0901
Left Hand L-Bar
⑧..... 842 0902
Flanged Thrust Washer
⑨..... 842 0700
Coil Spring
⑩..... 842 1100
Stop Screw
⑪..... 842 1200
Front Cable Assembly
⑫
Rear Cable Assembly
⑫
Cable Clip for 1″ Tube
⑬..... 831 9011





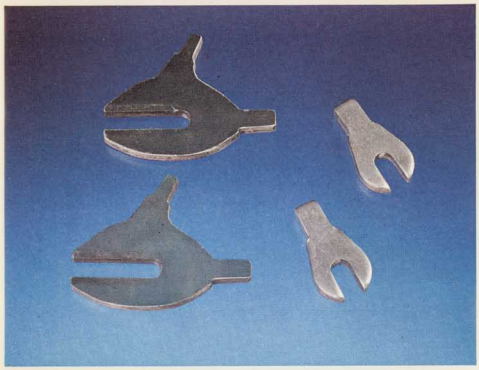
FORK ENDS
Model N-101
SHIMANO-SF

SPECIFICATIONS
Material: Steel
Type: With Adjusting Bolt



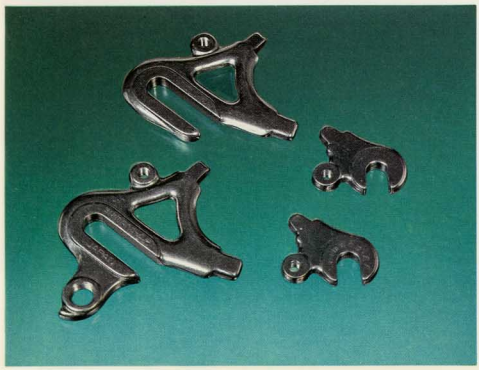
PARTS LIST

R.H. Front Fork End ①	710 0100
L.H. Front Fork End ②	710 0200
R.H. Rear End ③	710 0300
L.H. Rear End ④	710 0400
Adjusting Bolt ⑤	710 0500
Adjusting Spring ⑥	710 0600
Nut ⑦	710 0700
Adjusting Bolt, Nut and Spring ⑧	710 9001



FORK ENDS
Model N-103
SHIMANO-TF

SPECIFICATIONS
Material: Steel
Type: Track Type



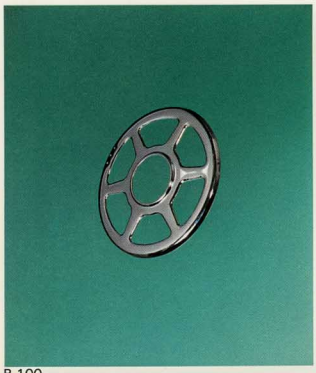
FORK ENDS
Model N-102
SHIMANO-LF

SPECIFICATIONS
Material: Steel
Type: Without Adjusting Bolt

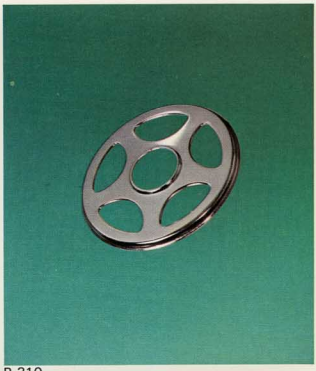


PARTS LIST

R.H. Front Fork End ①	710 0101
L.H. Front Fork End ②	710 0201
R.H. Rear End ③	710 0301
L.H. Rear End ④	710 0401



P-100



P-310



P-320



P-410



P-420

SPOKE PROTECTOR
Model P-100/P-310/P-320/ P-410/P-420

SPECIFICATIONS

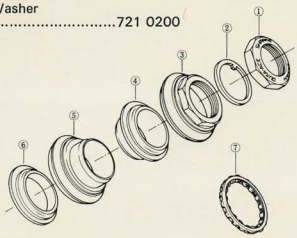
Model	Diameter	Use
P-100	4-1/2″ (110 m/m)	24 teeth
P-310	7-1/2″ (190 m/m)	28 teeth
P-320	5″ (123 m/m)	
P-410	8-1/2″ (215 m/m)	34 teeth
P-420	5-1/2″ (145 m/m)	



HEAD PARTS
Model K-901
DURA-ACE

SPECIFICATIONS
Material: Chromium Bearing Steel
Type: Road Type

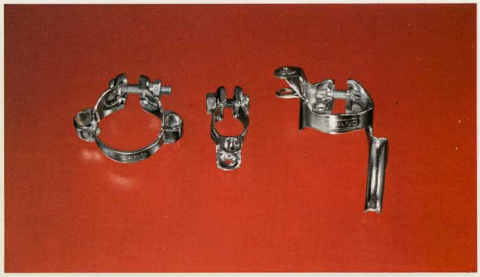
PARTS LIST
Lock Nut
①.....721 0100
Lock Washer
②.....721 0200
Top Bearing Cup
③.....721 0300
Top Bearing Cone
④.....721 0400
Bottom Bearing Cup
⑤.....721 0500
Crown Cone
⑥.....721 0600
Ball Retainer
⑦.....721 0700





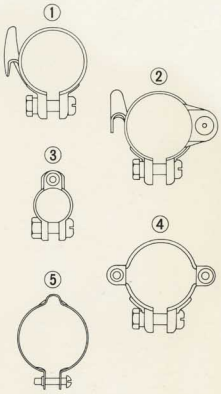
HEAD PARTS
Model K-902

SPECIFICATIONS
Material: Chromium Bearing Steel
Type: Track Type



CABLE PARTS

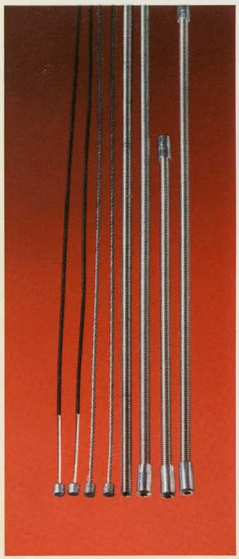
Model K-511
CABLE GUIDE (1-1/8″)W .....②
Model K-521
CABLE STOP (5/8″) .....③
Model K-522
CABLE STOP (1/2″) .....③
Model K-523
CABLE STOP (1-1/8″) S. .....③
Model K-541
OUTER BAND (1″) .....⑤
Model K-524
CABLE STOP (1-1/8″)W .....④

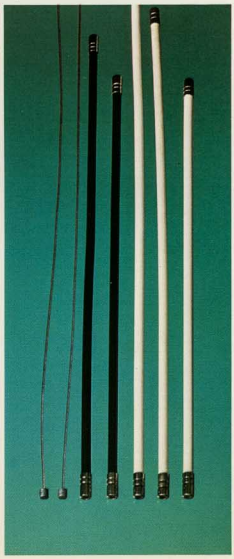




CABLE PARTS

Model K-512
CABLE GUIDE (1-1/8″)S. .....①
Model K-511
CABLE GUIDE (1-1/8″)W. .....②
Model K-514
CABLE GUIDE (1″)S. .....①
Model K-513
CABLE GUIDE (1″)W. .....②
Model K-521
CABLE STOP (5/8″) .....③
Model K-522
CABLE STOP (1/2″) .....③
Model K-523
CABLE STOP (1-1/8″)S. .....③
Model K-524
CABLE STOP (1-1/8″)W. .....④
Model K-541
OUTER BAND (1″) .....⑤





OUTER CASING & INNER CABLE

STAINLESS OUTER
CASING with BOTH CAP

Model	Length
W-601	170 m/m
W-602	280 m/m

STAINLESS OUTER
CASING with A CAP

Model	Length
W-621	600 m/m
W-622	630 m/m
W-623	670 m/m

OUTER CASING with
BOTH CAP

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

COATED INNER CABLE
(1.2 m/mϕ)

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

INNER CABLE
(1,5 m/mϕ)

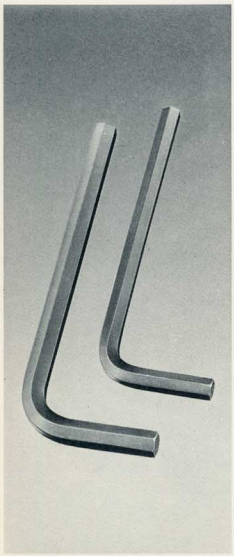
Model	Length
W-641	1,180 m/m
W-642	670 m/m

INNER CABLE
(1.2 m/mϕ)

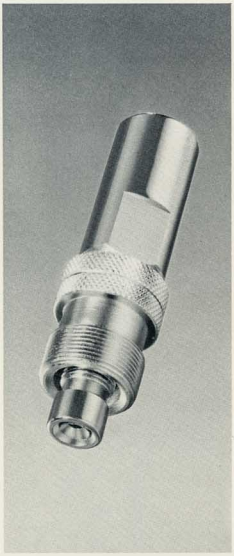
Model	Length
W-101	670 m/m
W-102	750 m/m
W-103	1,030 m/m
W-104	1,180 m/m
W-105	1,360 m/m
W-106	1,550 m/m
W-107	1,650 m/m

INNER CABLE
(1.5 m/mϕ)

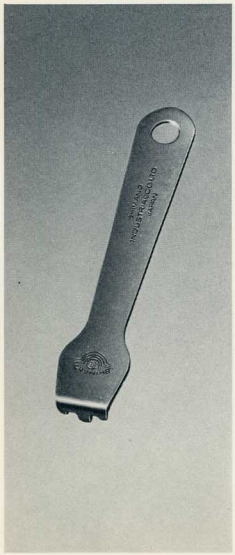
Model	Length
W-201	670 m/m
W-202	750 m/m
W-203	1,030 m/m
W-204	1,180 m/m
W-205	1,360 m/m
W-206	1,550 m/m
W-207	1,650 m/m



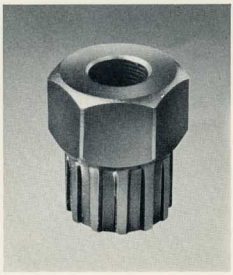
HEXAGON WRENCH KEY
Mobel X-101 (5m/m)
Model X-102 (6m/m)



COTTERLESS CLANK EXTRACTOR
Model X-701

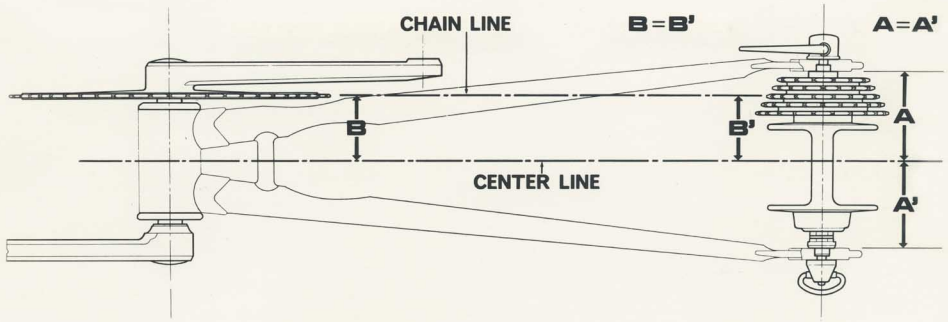


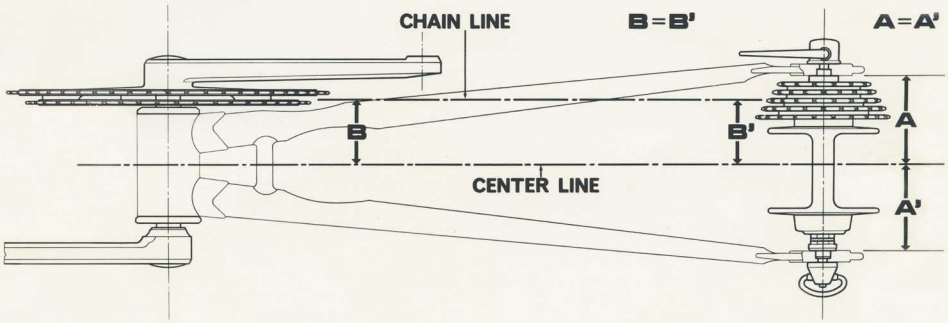
CHAIN WHEEL SCREW PEG SPANNER
Model X-702



BOSS TYPE MULTIPLE FREEWHEEL REMOVAL TOOL
Model X-401

CHAIN LINE


CHAIN LINE
B=B'
A=A'
B
B'
A
A'
CENTER LINE


CHAIN LINE
B=B'
A=A'
B
B'
A
A'
CENTER LINE

GEAR TABLE

Blue Figures; with 27" Bicycle Wheel, Black Figures; with 26" Bicycle Wheel.

	Chainwheel 54T	52T	50T	49T	48T	47T	46T	45T	44T	42T	40T	39T	38T	36T
Rear Gear 13T	112.2 108.0	108.0 104.0	103.8 100.0	101.8 98.0	99.7 96.0	97.6 94.0	95.5 92.0	93.5 90.0	91.4 88.0	87.2 84.0	83.1 80.0	81.0 78.0	78.9 76.0	74.8 72.0
14T	104.1 100.3	100.3 96.6	96.4 92.3	94.5 91.0	92.6 89.1	90.6 87.3	88.7 85.4	86.8 83.6	84.9 81.7	81.0 78.0	77.1 74.3	75.2 72.4	73.3 70.6	69.4 66.6
15T	97.2 93.6	93.6 90.1	90.0 86.7	88.2 84.9	86.4 83.2	84.6 81.5	82.8 79.7	81.0 78.0	79.2 76.3	75.6 72.8	72.0 69.3	70.2 67.6	68.4 65.9	64.8 62.4
16T	91.1 87.8	87.8 84.5	84.4 81.3	82.7 79.6	81.0 78.0	79.3 76.4	77.6 74.8	75.9 73.1	74.2 71.5	70.9 68.2	67.5 65.0	65.8 63.4	64.1 61.8	60.8 58.5
17T	85.8 82.6	82.6 79.5	79.4 76.5	77.8 74.9	76.2 73.4	74.6 71.9	73.1 70.4	71.5 68.8	69.9 67.3	66.7 64.2	63.5 61.2	61.9 59.6	60.4 58.1	57.2 55.1
18T	81.0 78.0	78.0 75.1	75.0 72.2	73.5 70.8	72.0 69.3	70.5 67.9	69.0 66.4	67.5 65.0	66.0 63.6	63.0 60.7	60.0 57.8	58.5 56.3	57.0 54.9	54.0 52.0
19T	76.7 73.9	73.9 71.2	71.1 68.4	69.6 67.1	68.2 65.7	66.8 64.3	65.4 62.9	63.9 61.6	62.5 60.2	59.7 57.5	56.8 54.7	55.4 53.4	54.0 52.0	51.2 49.3
20T	72.9 70.2	70.2 67.6	67.5 65.0	66.2 63.7	64.8 62.4	63.4 61.1	62.1 59.8	60.8 58.5	59.4 57.2	56.7 54.6	54.0 52.0	52.6 50.7	51.3 49.4	48.6 46.8
21T	69.4 66.8	66.8 64.4	64.3 61.9	63.0 60.7	61.7 59.4	60.4 58.2	59.1 57.0	57.9 55.7	56.6 54.5	54.0 52.0	51.4 49.5	50.1 48.3	48.9 47.0	46.3 44.6
22T	66.3 63.8	63.8 61.5	61.4 59.1	60.1 57.9	58.9 56.7	57.7 55.5	56.5 54.4	55.2 53.2	54.0 52.0	51.5 49.6	49.1 47.3	47.9 41.6	46.6 44.9	44.2 42.5
23T	63.4 61.0	61.0 58.8	58.7 56.5	57.5 55.4	56.3 54.3	55.2 53.1	54.0 52.0	52.8 50.9	51.7 49.7	49.3 47.5	47.0 45.2	45.8 44.1	44.6 43.0	42.3 40.7
24T	60.8 58.5	58.5 56.3	56.2 54.2	55.1 53.1	54.0 52.0	52.9 50.9	51.8 49.8	50.6 48.8	49.5 47.7	47.2 45.5	45.0 43.3	43.9 42.2	42.8 41.2	40.5 39.0
25T	58.3 56.2	56.2 54.1	54.0 52.0	52.9 51.0	51.8 49.9	50.8 48.9	49.7 47.8	48.6 46.8	47.5 45.8	45.4 43.7	43.2 41.6	42.1 40.6	41.0 39.5	38.9 37.4
26T	56.1 54.0	54.0 52.0	51.9 50.0	50.9 49.0	49.8 48.0	48.8 47.0	47.8 46.0	46.7 45.0	45.7 44.0	43.6 42.0	41.5 40.0	40.5 39.0	39.5 38.0	37.4 36.0
27T	54.0 52.0	52.0 50.1	50.0 48.1	49.0 47.2	48.0 46.2	47.0 45.3	46.0 44.3	4.50 43.3	44.0 42.4	42.0 40.4	40.0 38.5	39.0 37.6	38.0 36.6	36.0 34.7
28T	52.1 50.1	50.1 48.3	48.2 46.4	47.2 45.5	46.3 44.6	45.3 43.6	44.4 42.7	43.4 41.8	42.4 40.9	40.5 39.0	38.6 37.1	37.6 36.2	36.6 35.3	34.7 33.4
30T	48.6 46.8	46.8 45.1	45.0 43.3	44.1 42.5	43.2 41.6	42.3 40.7	41.4 39.8	40.5 39.0	39.6 38.1	37.8 36.4	36.0 34.7	35.1 33.8	34.2 32.9	32.4 31.2
32T	45.6 43.9	43.9 42.2	42.2 40.6	41.3 39.8	40.5 39.0	39.7 38.2	38.8 37.4	38.0 36.6	37.1 35.8	35.4 34.1	33.8 32.5	32.9 31.7	32.1 30.9	30.4 29.2
34T	42.9 41.3	41.3 39.8	39.7 38.2	38.9 37.4	38.1 36.7	37.3 35.9	36.5 35.2	35.7 34.4	34.9 33.6	33.4 32.1	31.8 30.6	31.0 29.8	30.2 29.1	28.6 27.5

SHIMANO

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