

SHIMANO BICYCLE PARTS

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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 size 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 development 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**

- A "BAREND CONTROL" Shifting Levers P.18
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- D "SHIMANO-SF" Fork EndsP.30
- E "CRANE" Rear DerailleurP.8
- F Multiple FreewheelsP.16
- G "DURA-ACE" Front Chainwheels ...P.13



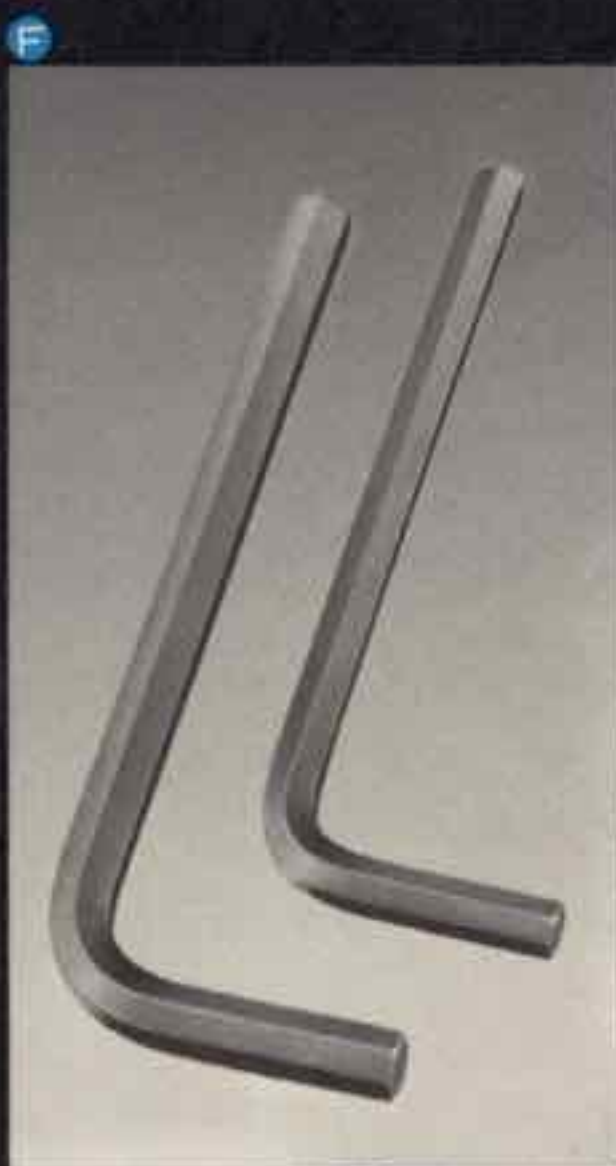


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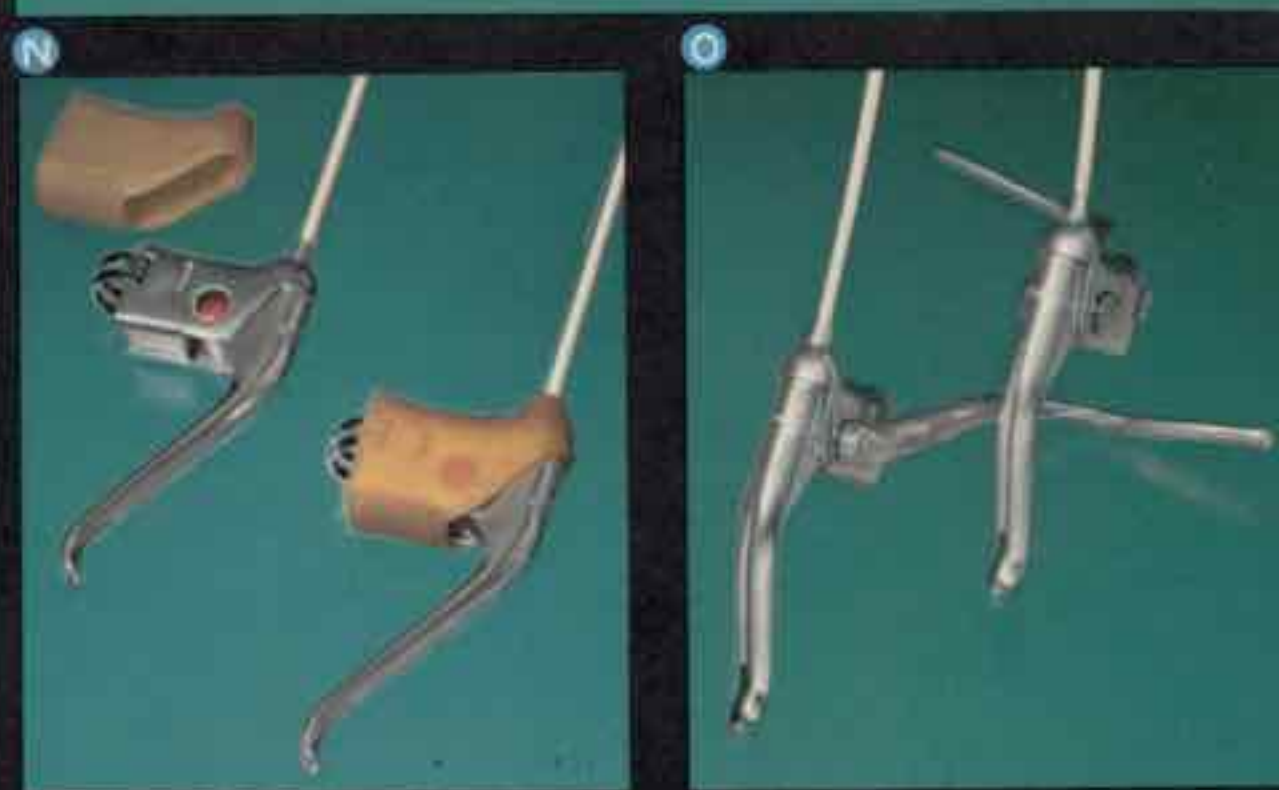
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11.35

33.

REAR DERAILLEUR

Model D-501

CRANE

SPECIFICATIONS

Capacity: 28 teeth

Weight: 7.9 oz.(225 g)

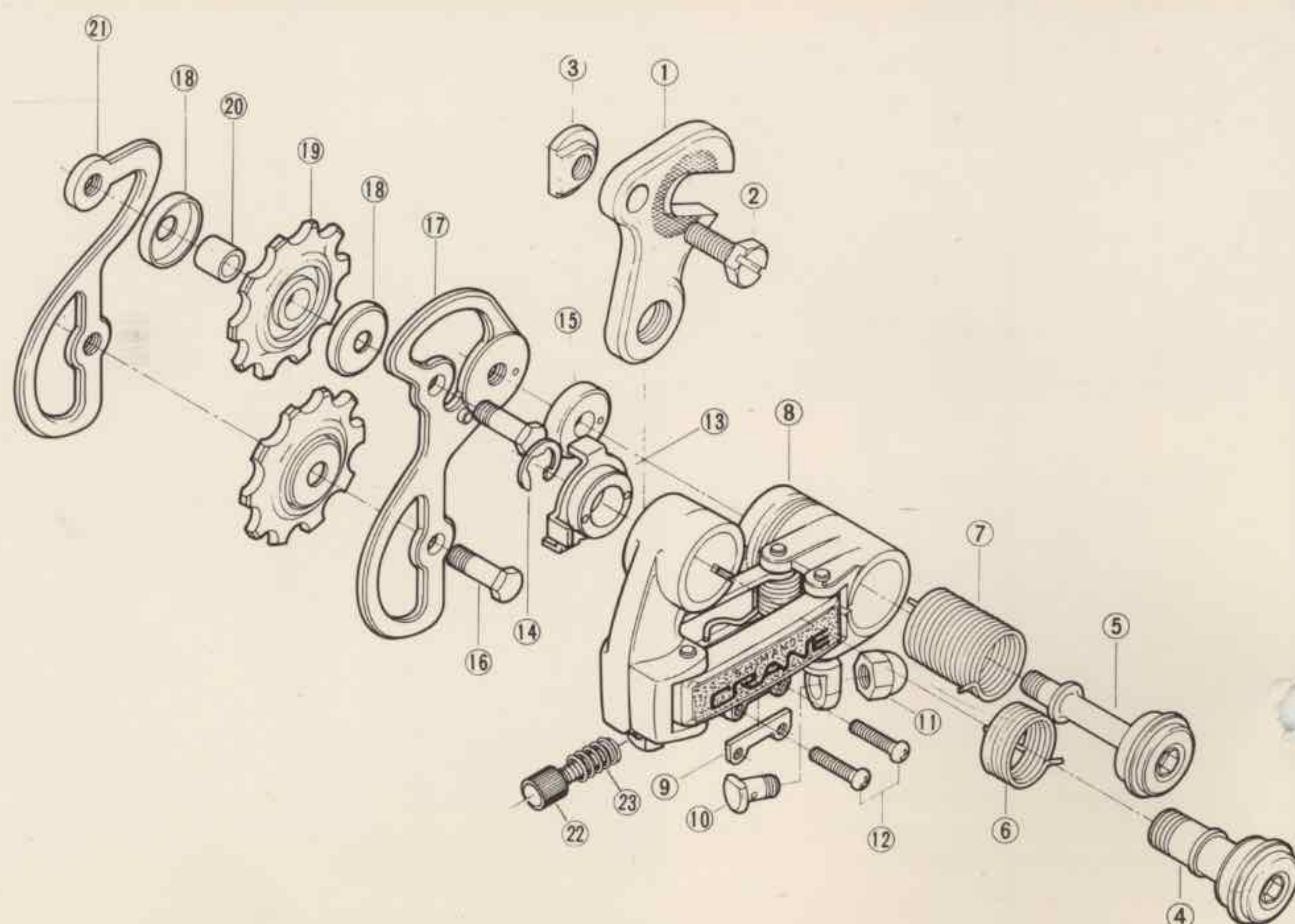
Material: Light Alloy

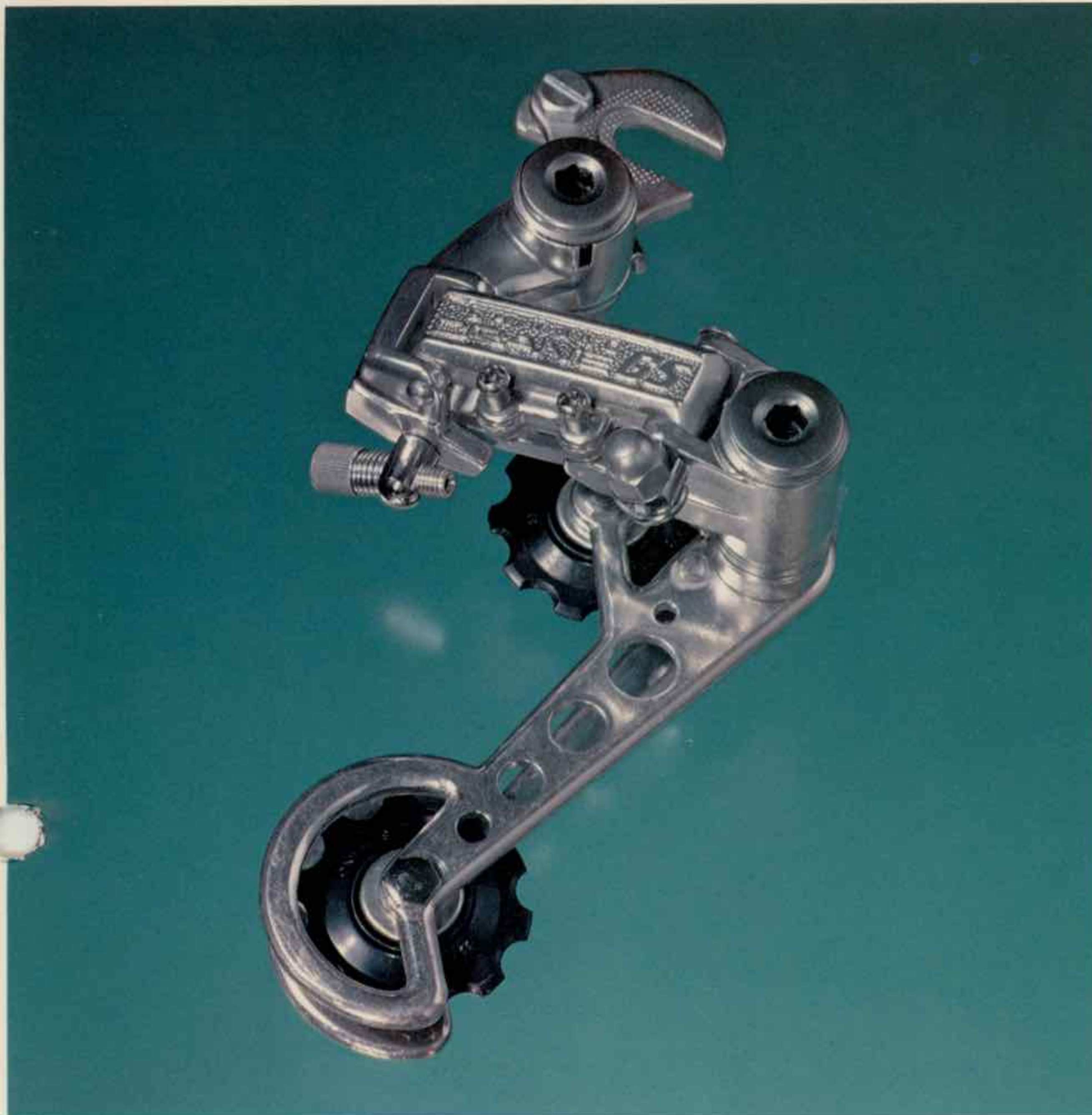
Type: Servo Panta Mechanism

With Adapter: Model D-500

PARTS LIST

Adapter	
①.....	527 2400
Adapter Screw (M5 x 10)	
②.....	000 1104-1
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 9009
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
Cable Adjusting Barrel	
㉒.....	524 0400-1
Cable Adjusting Spring	
㉓.....	525 1400





REAR DERAILLEUR Model D-510

CRANE GS

SPECIFICATIONS

Capacity: 34 teeth

Weight: 9.5 oz.(270 g)

Material: Light Alloy

Type: Servo Pantograph Mechanism (Long Cage Plate)

Without Adapter: *Model D-511*

PARTS LIST

Adapter

①..... 527 2400

Adapter Screw (M 5 x 10)

②..... 000 1104-1

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..... 528 0700

Mechanism Assembly

⑧..... 527 9003

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 2700-1

Pulley

⑲..... 527 1800

Pulley Bushing

⑳..... 511 2900

Outer Cage Plate

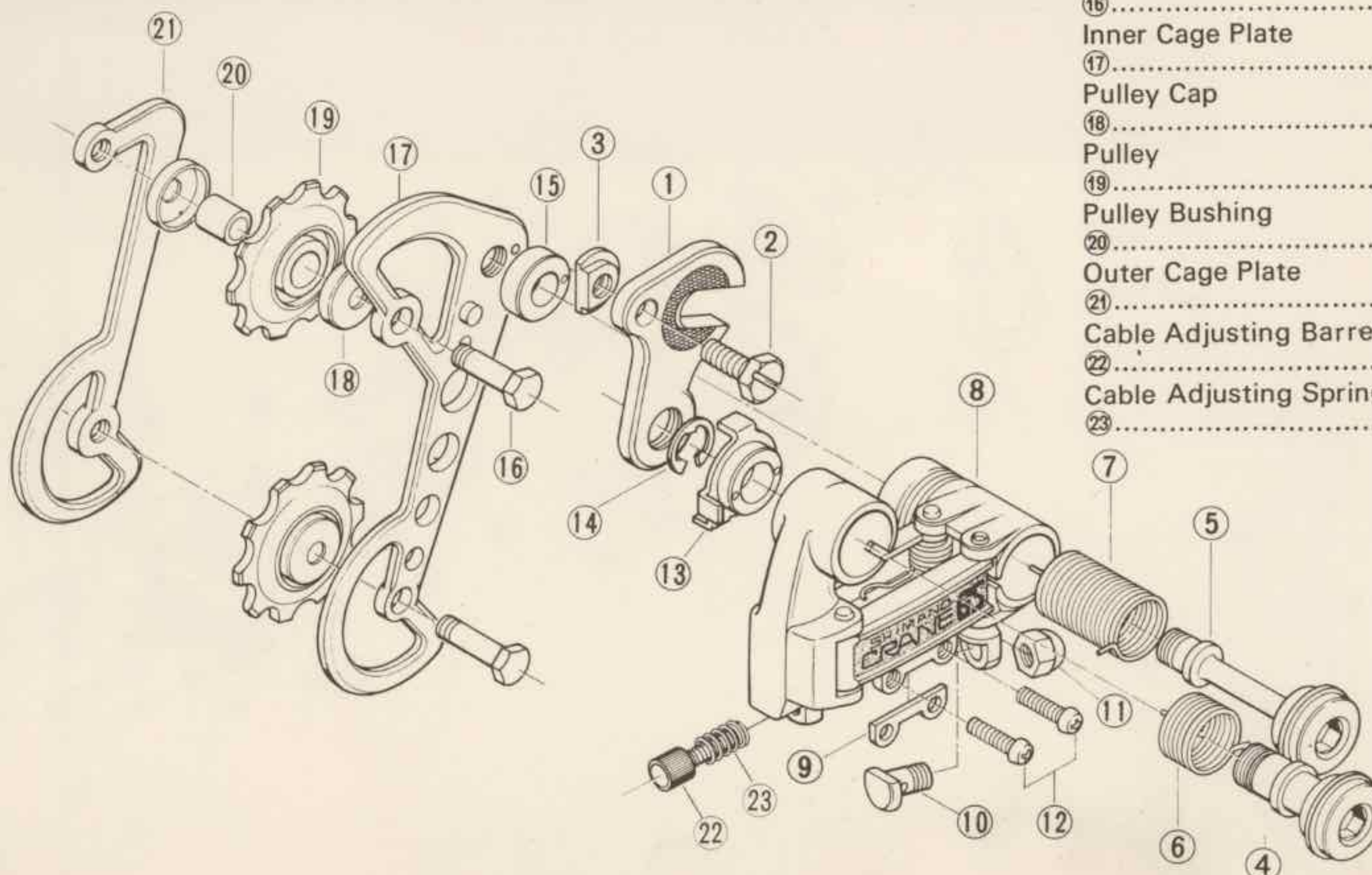
㉑..... 522 1402

Cable Adjusting Barrel

㉒..... 524 0400-1

Cable Adjusting Spring

㉓..... 525 1400



REAR DERAILLEUR

Model D-600

Titlist

SPECIFICATIONS

Capacity: 28 teeth

Weight: 9.9 oz.(280 g)

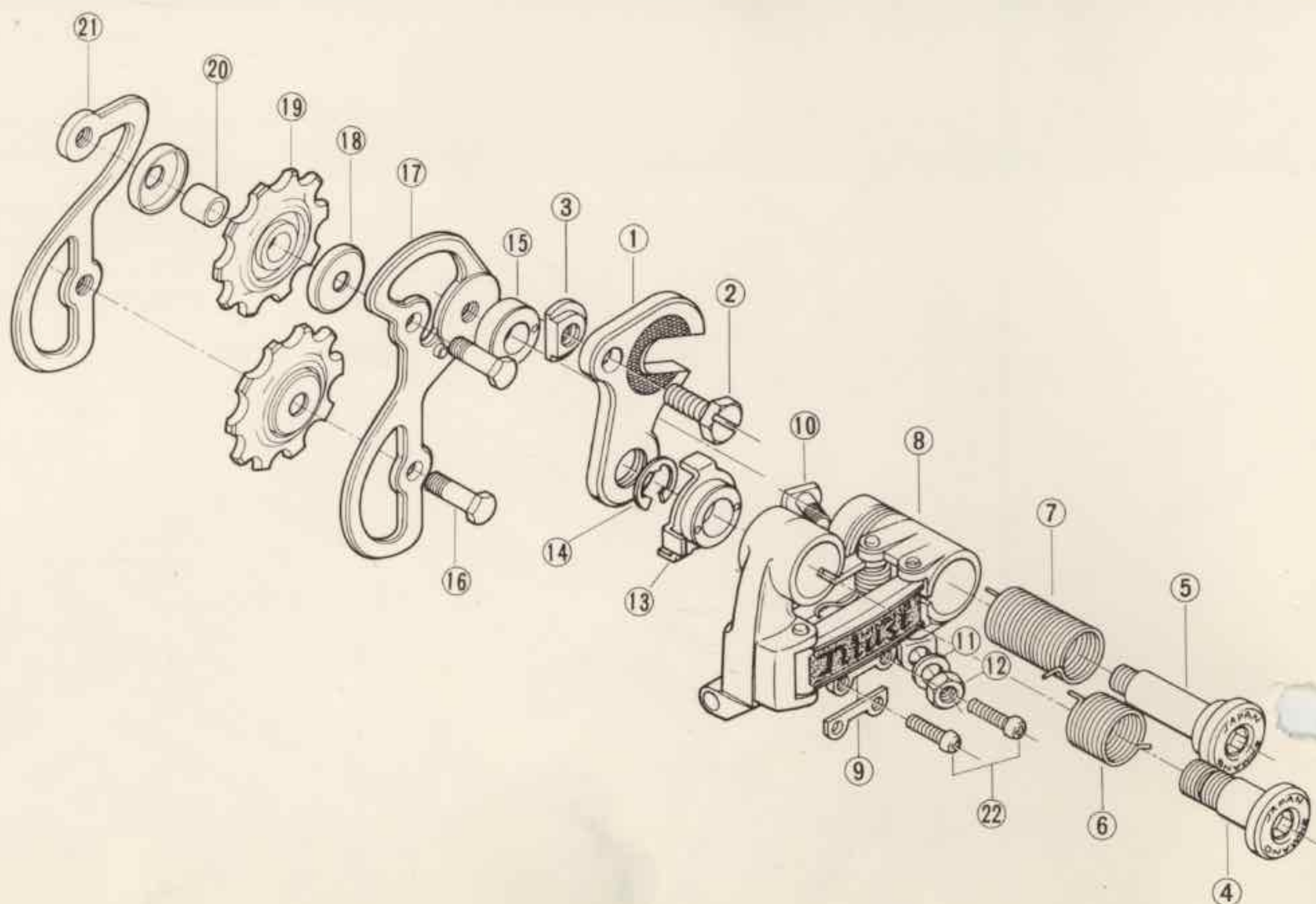
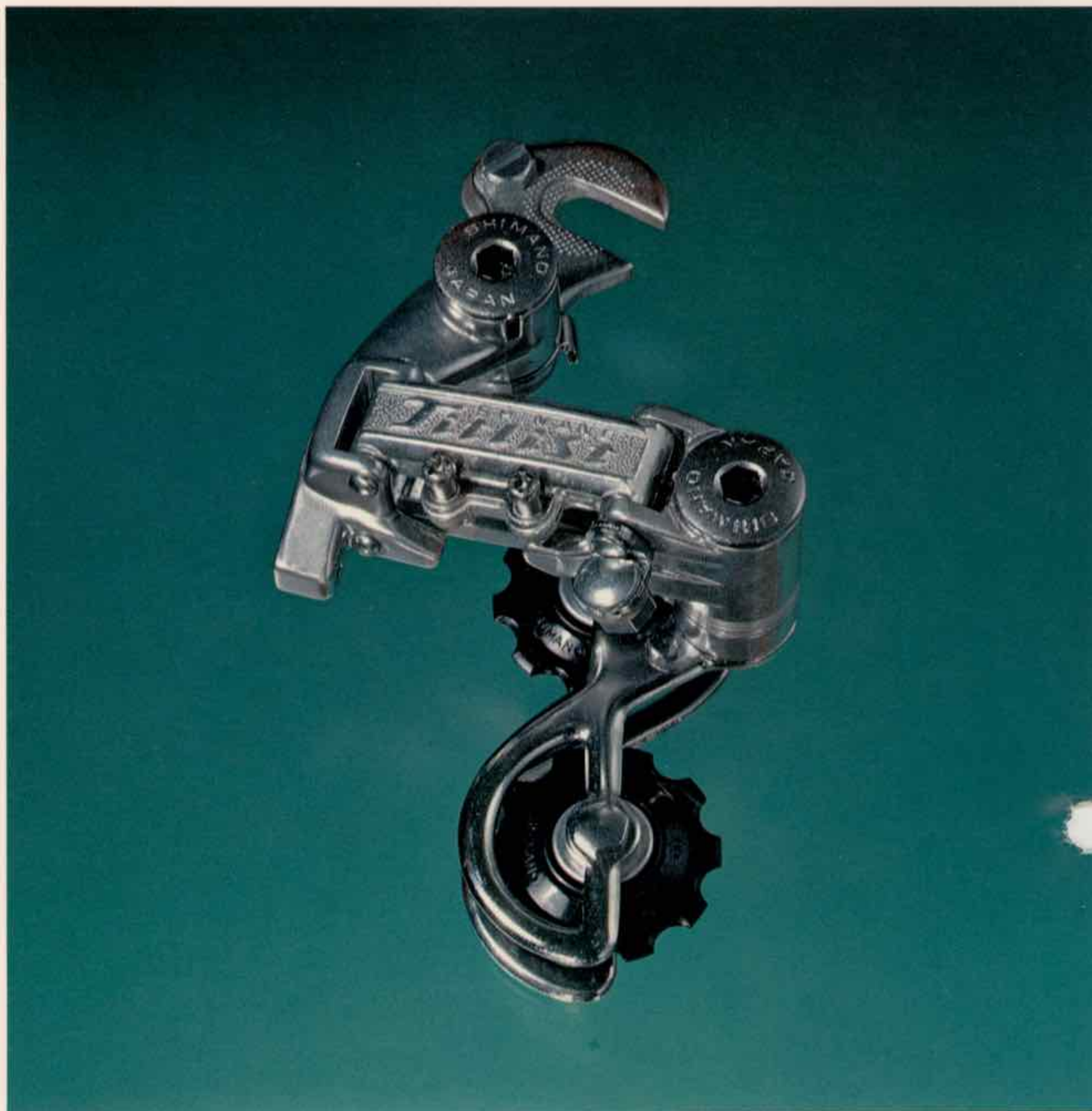
Material: Light Alloy (Body), Steel (Cage Plate)

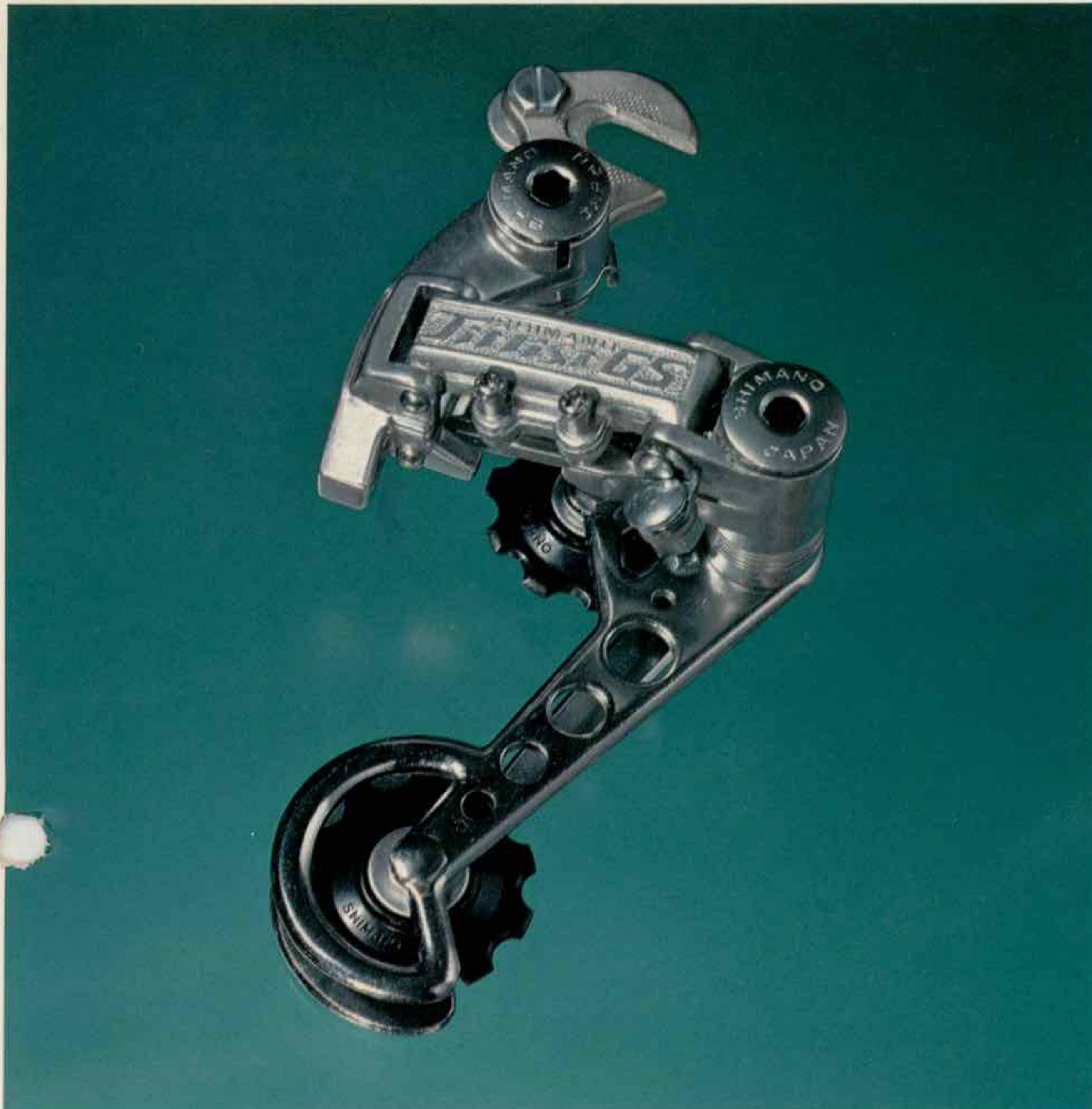
Type: Servo Pantal Mechanism

Without Adapter: *Model D-601*

PARTS LIST

Adapter	
①.....	527 2401
Adapter Screw (M5 x 10)	
②.....	000 1104-1
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 10)

②..... 000 1104-1

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

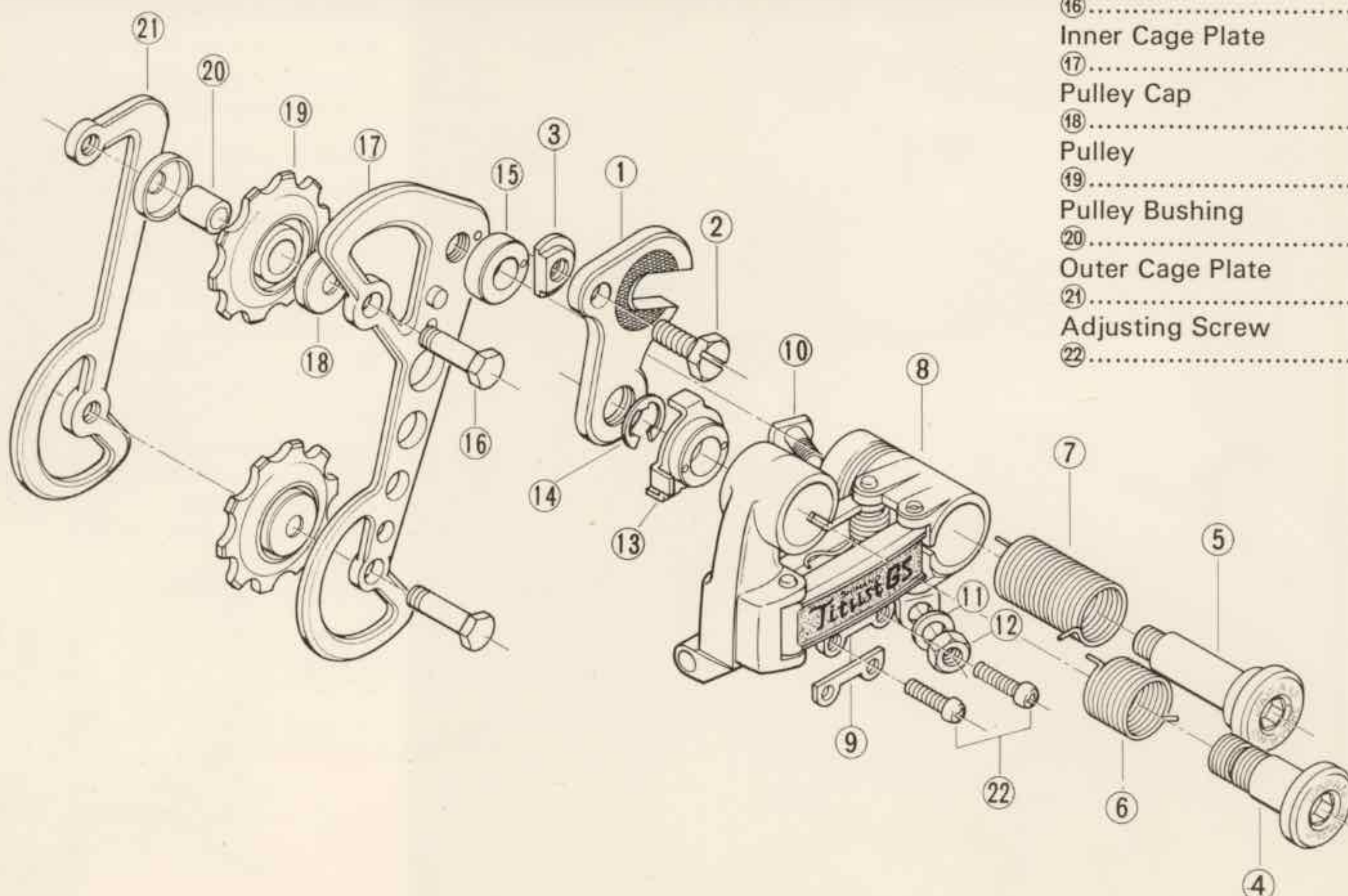
⑳..... 511 2900

Outer Cage Plate

㉑..... 522 1410

Adjusting Screw

㉒..... 527 0800





FRONT DERAILLEUR Model E-404

DURA-ACE

SPECIFICATIONS

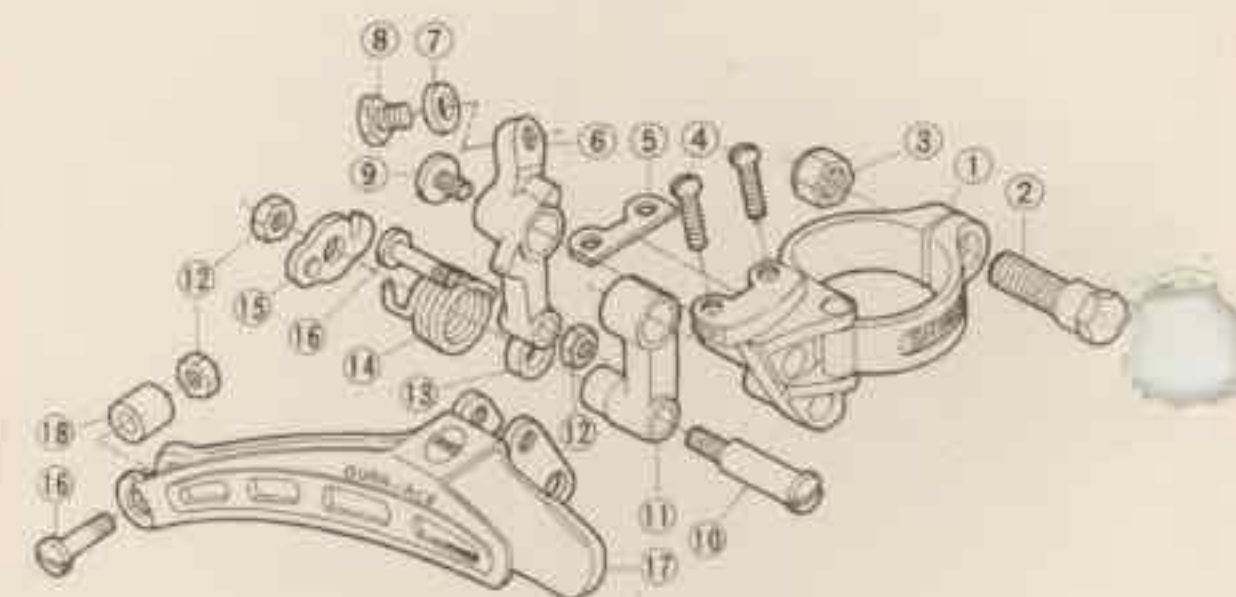
Weight: 3.7 oz.(105 g)

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

Type: Lower Inlet Type

PARTS LIST

Mechanism Assembly	Link Bolt B
①.....585 9001	⑩.....585 0500
Clamp Bolt	Inner Link
②.....584 0700	⑪.....585 0700
Clamp Nut	Nut
③.....525 1801	⑫.....585 0800
Adjusting Bolt(M4x12)	Spring Collar
④.....584 1300	⑬.....585 0600
Adjusting Plate	Return Spring
⑤.....584 1400	⑭.....585 0300
Outer Link	Spring Plate
⑥.....585 1200	⑮.....585 0200
Cable Fixing Plate	Link Bolt A
⑦.....585 1500	⑯.....585 1300
Cable Fixing Bolt	Chain Guide Assembly
⑧.....585 1600	⑰.....585 9002
Fixing Bolt	Bushing
⑨.....585 1000	⑱.....585 0900



FRONT DERAILLEUR Model E-304

Titlist

SPECIFICATIONS

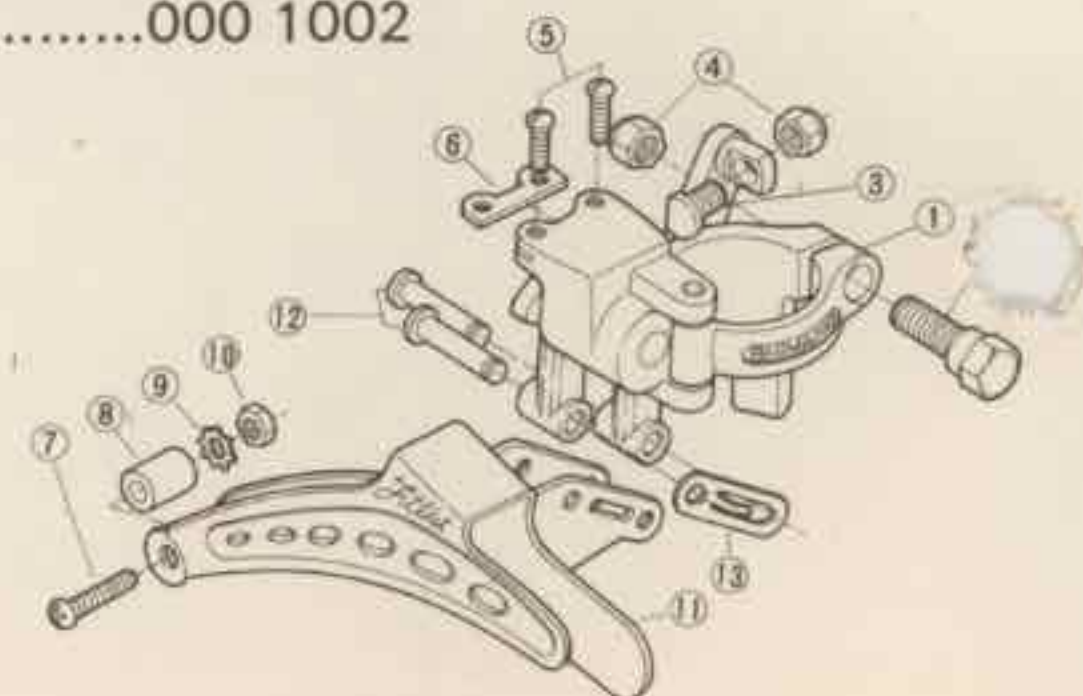
Weight: 4.9 oz.(140 g)

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

Type: Lower Inlet Type

PARTS LIST

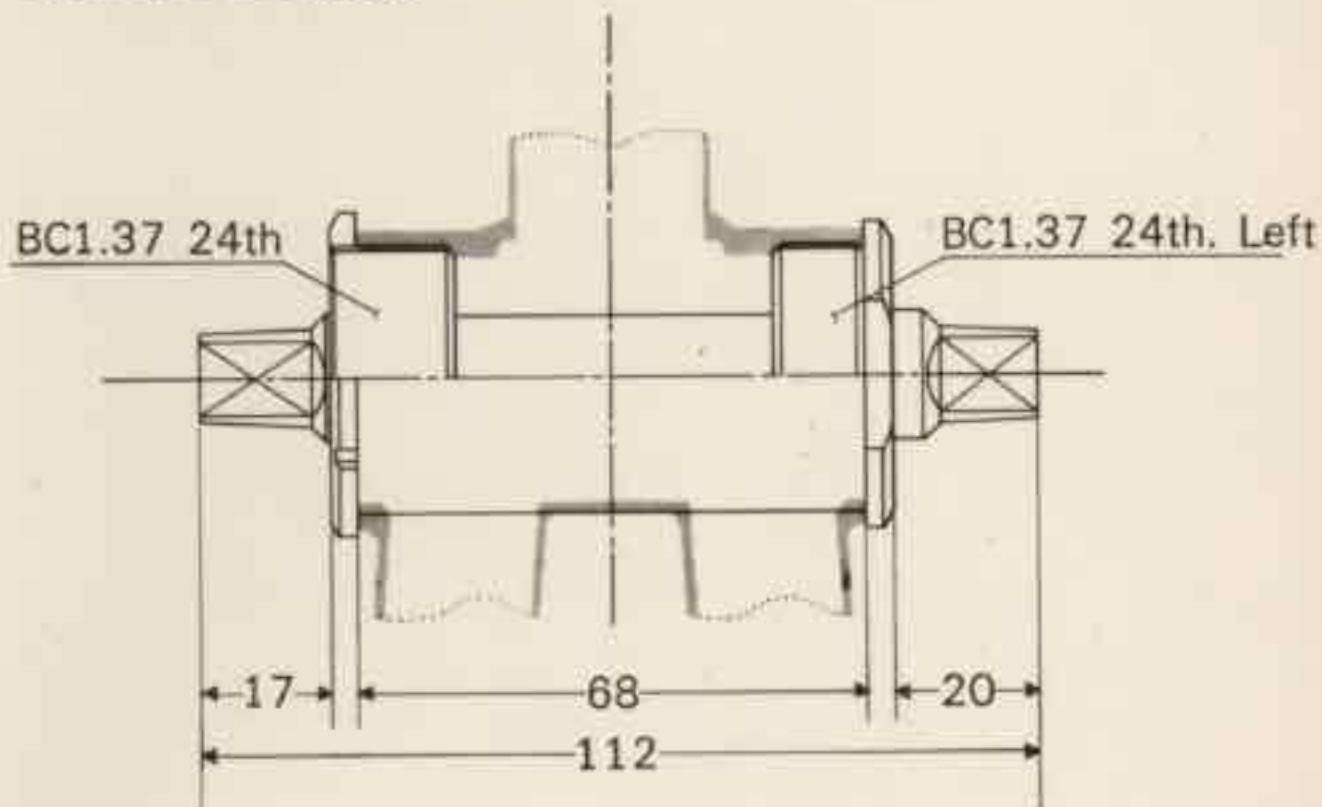
Mechanism Unit Lower Inlet Type (1-1/8")	Bushing
①.....584 9002	⑧.....584 1100
Clamp Bolt	Toothed Lock Washer
②.....584 0700	⑨.....521 1800
Cable Fixing Bolt	Nut (M4)
③.....521 1501	⑩.....581 2001
Cable Fixing Nut	Chain Guide
④.....525 1801	⑪.....584 9003
Adjusting Bolt (M4x12)	Pin A
⑤.....584 1300	⑫.....584 0800
Adjusting Plate	Clip A
⑥.....584 1400	⑬.....584 1900
Bolt (M4 x 16)	
⑦.....000 1002	



FRONT CHAINWHEEL
DURA-ACE

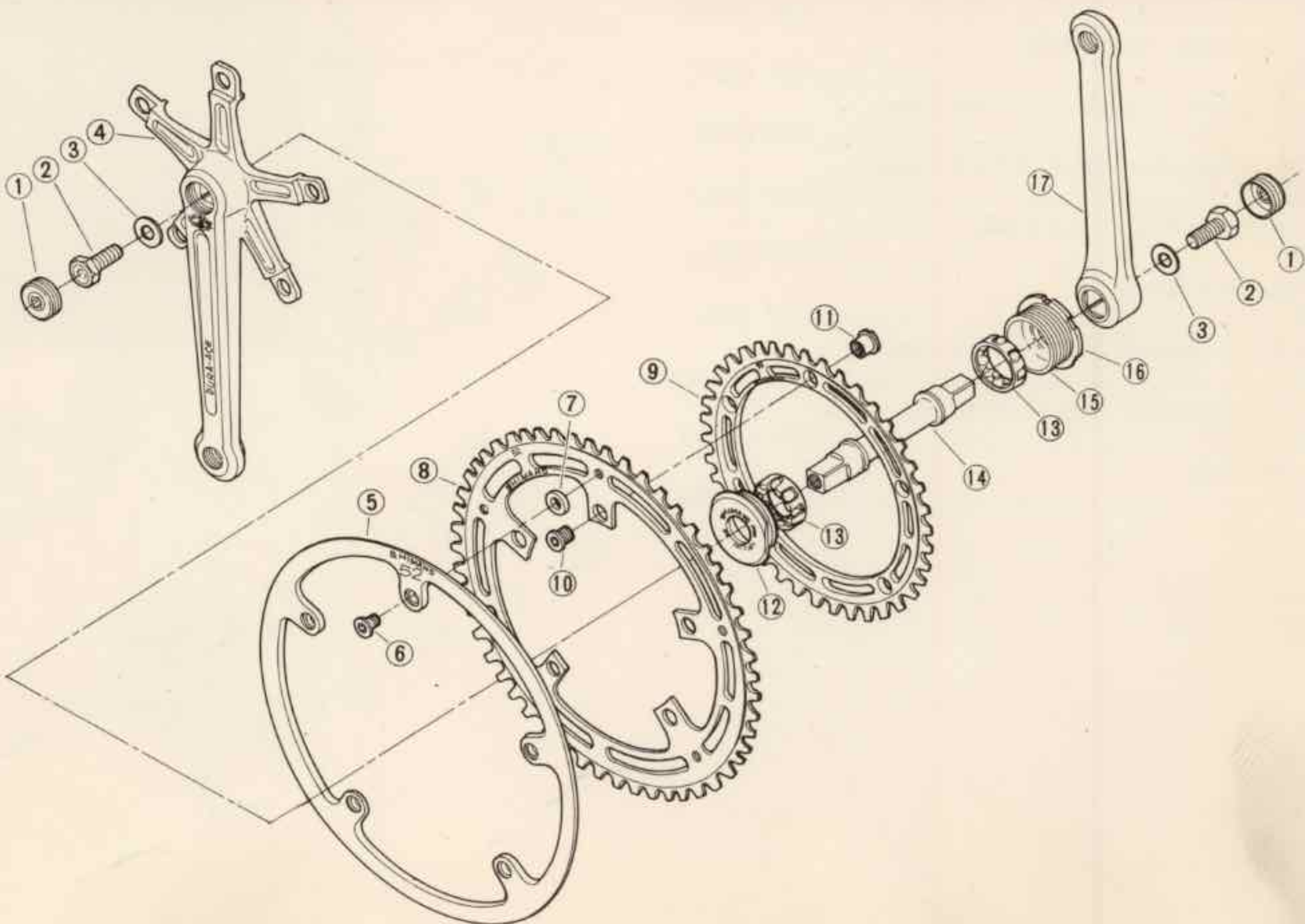
SPECIFICATIONS

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



PARTS LIST

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



FRONT CHAINWHEEL

DURA-ACE

SPECIFICATIONS

Material: Light Alloy

Type: Cotterless

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

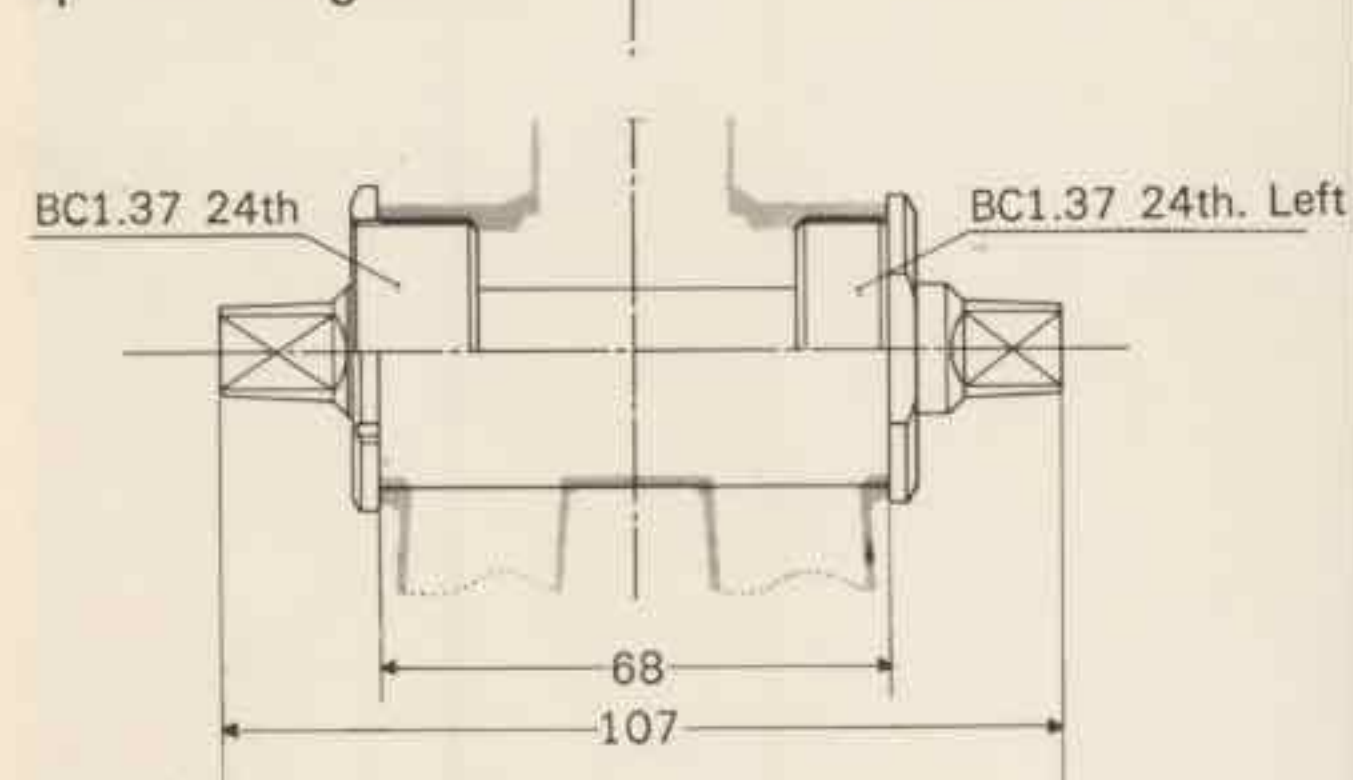
Teeth: 44~55 teeth

Crank Lengths: 165mm, 170mm

Crank Screw: 9/16" x 20t.

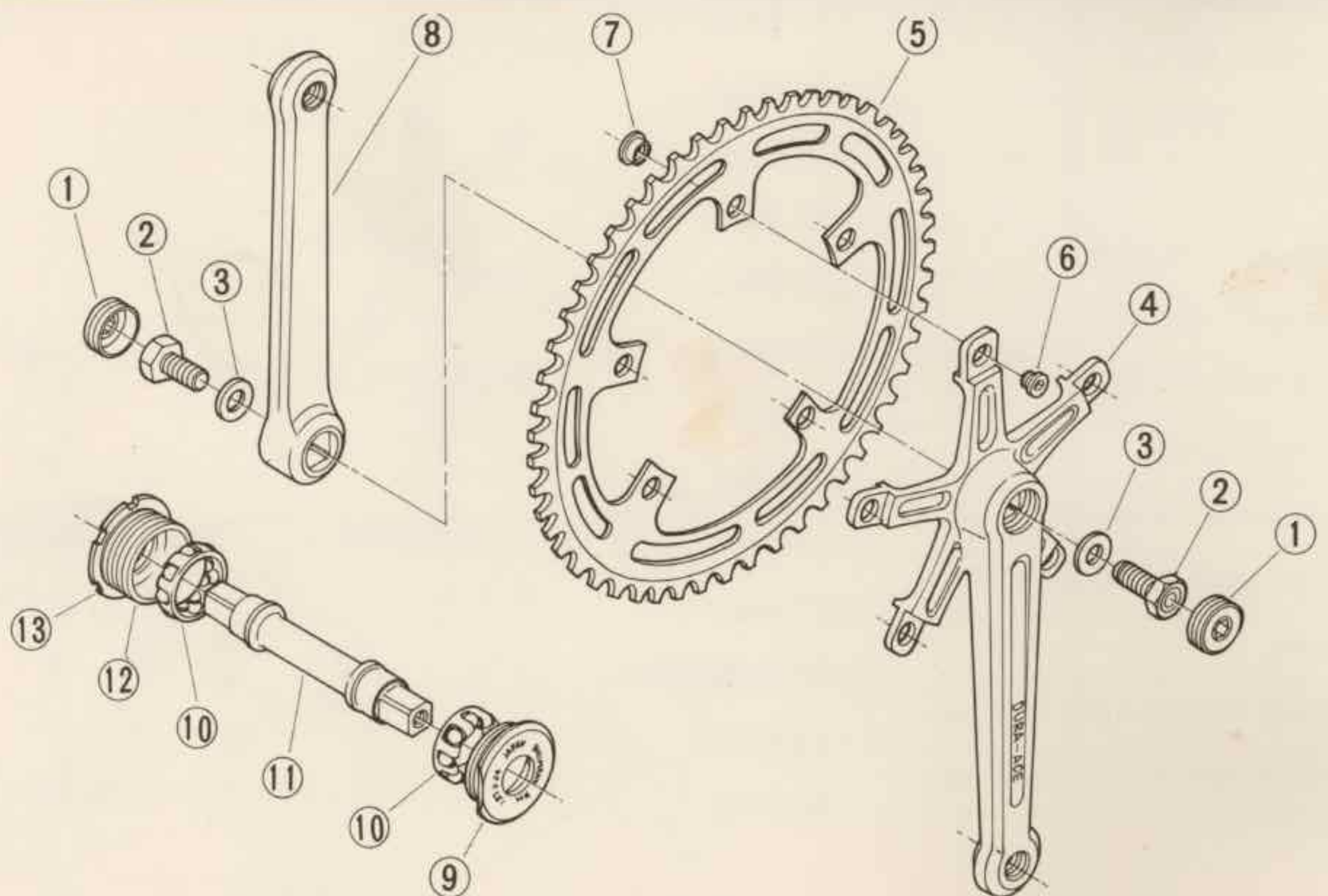
Cup Screw: 1.37" x 24t.

Spindle Length:



PARTS LIST

Crank Arm Cap	
①.....	134 0200
Fixing Bolt	
②.....	134 0300
Fixing Washer	
③.....	134 0400
Right Crank Arm (6-1/2") 165 mm	
④.....	131 0100
Right Crank Arm (6-3/4") 170 mm	
④.....	131 0300
Chainwheel 49 teeth	
⑤.....	131 4900
Chainwheel Fixing Bolt	
⑥.....	131 0500
Chainwheel Fixing Nut	
⑦.....	131 0600
Left Crank Arm (6-1/2") 165 mm	
⑧.....	134 0101
Left Crank Arm (6-3/4") 170 mm	
⑧.....	134 0103
R.H. Fixed Cup (1.37 x 24)	
⑨.....	137 0200
Steel Ball Retainer	
⑩.....	137 9001
Bottom Bracket Spindle 112 mm	
⑪.....	137 0100
L.H. Adjustable Cup (1.37 x 24)	
⑫.....	137 0400
Lock Ring	
⑬.....	137 0500



FRONT CHAINWHEEL

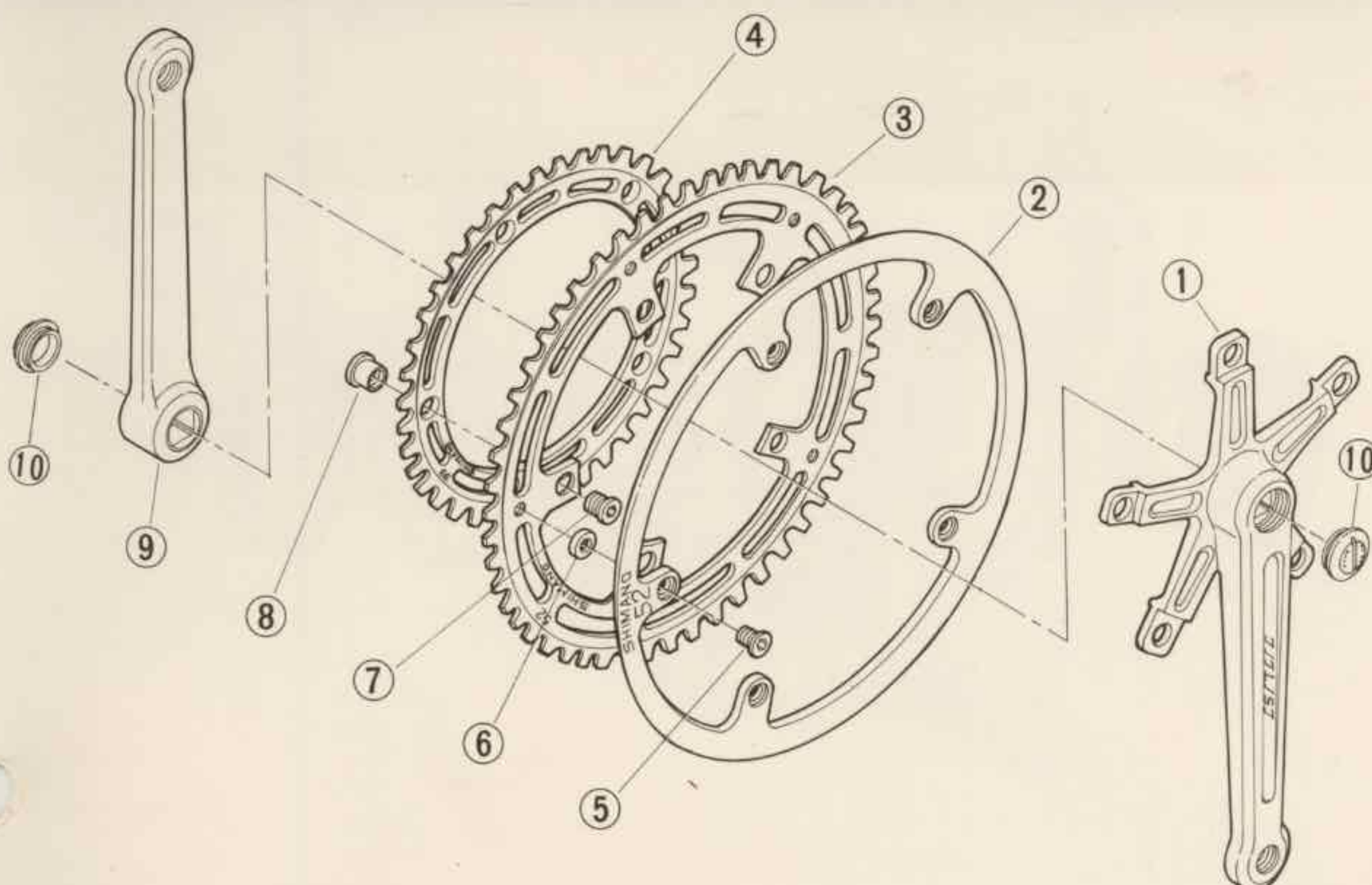
Titlist

SPECIFICATIONS

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

PARTS LIST

Right Crank Arm (6-1/2") 165 mm	
①.....	142 0101
Chain Guard	
②.....	142 0200
Chainwheel 52 teeth	
③.....	142 5200
Chainwheel 39 teeth	
④.....	142 3900
Guard Fixing Bolt	
⑤.....	142 0300
Guard Fixing Spacer	
⑥.....	142 0400
Chainwheel Fixing Bolt	
⑦.....	142 0500
Chainwheel Fixing Nut	
⑧.....	142 0600
Left Crank Arm (6-1/2") 165 mm	
⑨.....	144 0101
Cap	
⑩.....	144 0200



MULTIPLE FREEWHEELS

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

PARTS LIST (6-speed 13T...18T)

Sprocket Wheel 13T

①..... 121 1301-1

Sprocket Wheel 14T

②..... 124 1401

Sprocket Wheel 15T

③..... 124 1501

Sprocket Wheel 16T

④..... 124 1602

Sprocket Wheel 17T

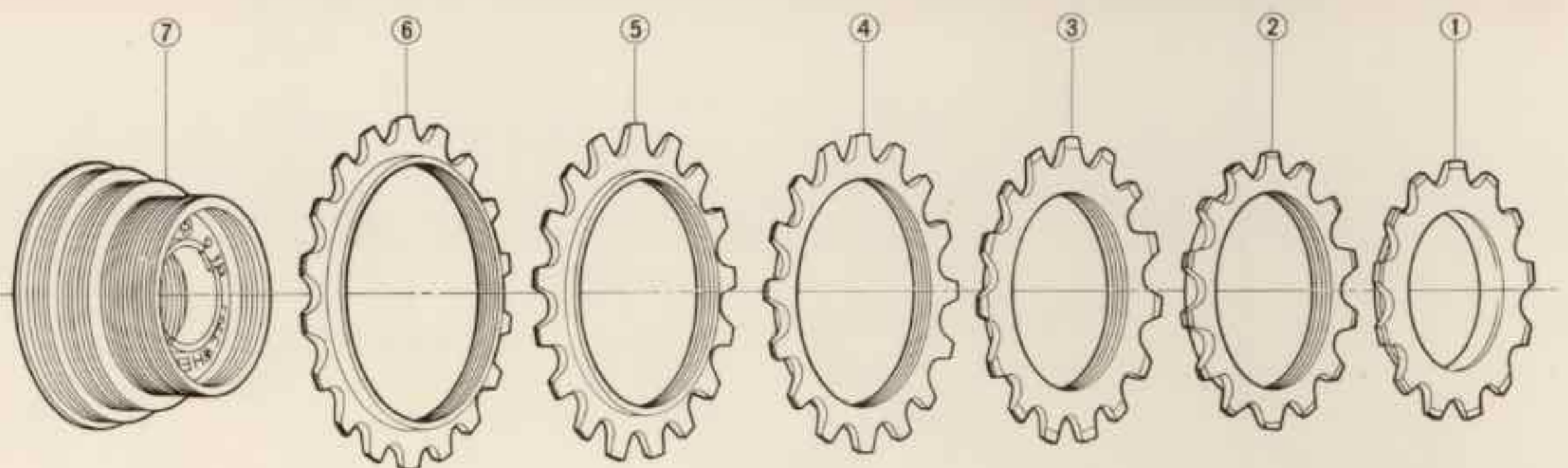
⑤..... 124 1703

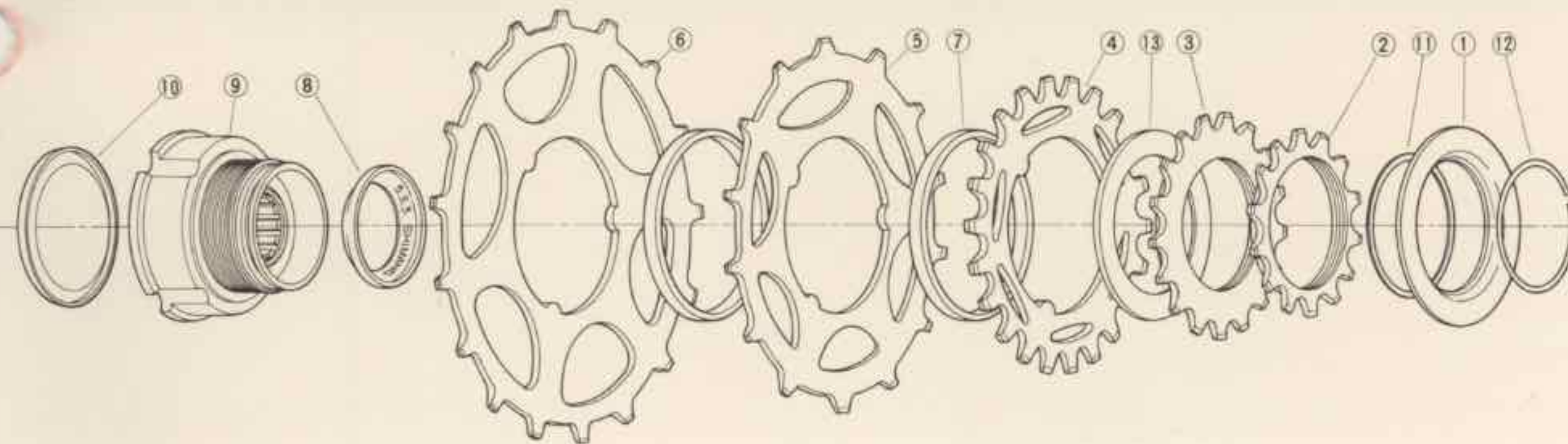
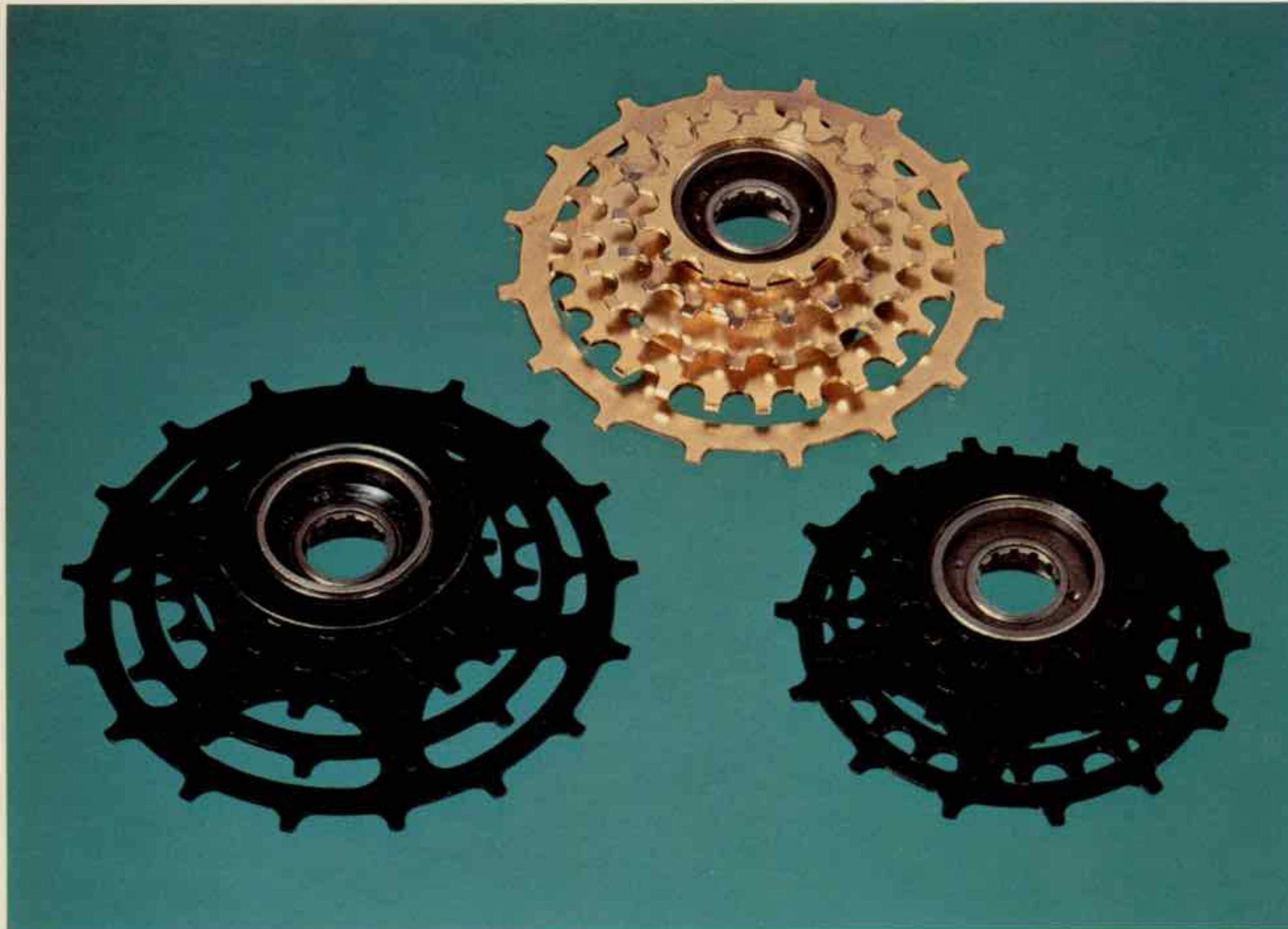
Sprocket Wheel 18T

⑥..... 124 1803

Outer Assembly

⑦..... 124 9001





MULTIPLE FREEWHEELS

SPECIFICATIONS

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

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

※PARTS LIST and EXPLODED VIEW show specifications asterisked.

PARTS LIST

Top Protector

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

SPROCKETS & LOCK RING

**Models FR-912/FR-913/FR-914 /
FR-915/FR-916 (Sprocket)**

Model FR-900 (Lock Ring)

SPECIFICATIONS

Standard Sprocket: 1/2" x 1/8" Chain (2.5mm)

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.

Lock Ring

Thread: 1.29" x 24 T.P.I. (Left)



SHIFTING LEVERS

Model L-600

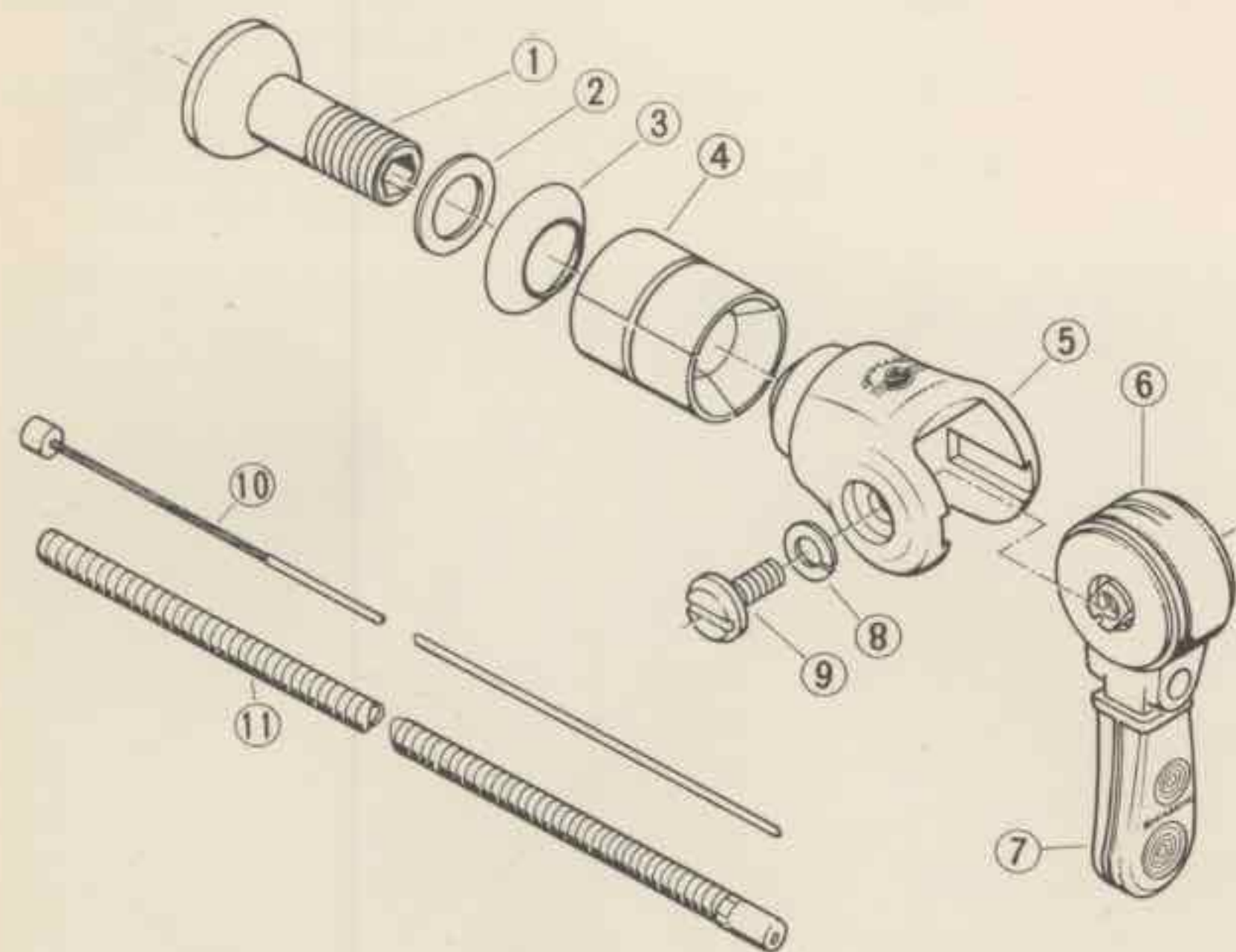
**FINGER-TIP
BAREND CONTROL**

SPECIFICATIONS

Weight: 2.8 oz.(80 g)
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 0900
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

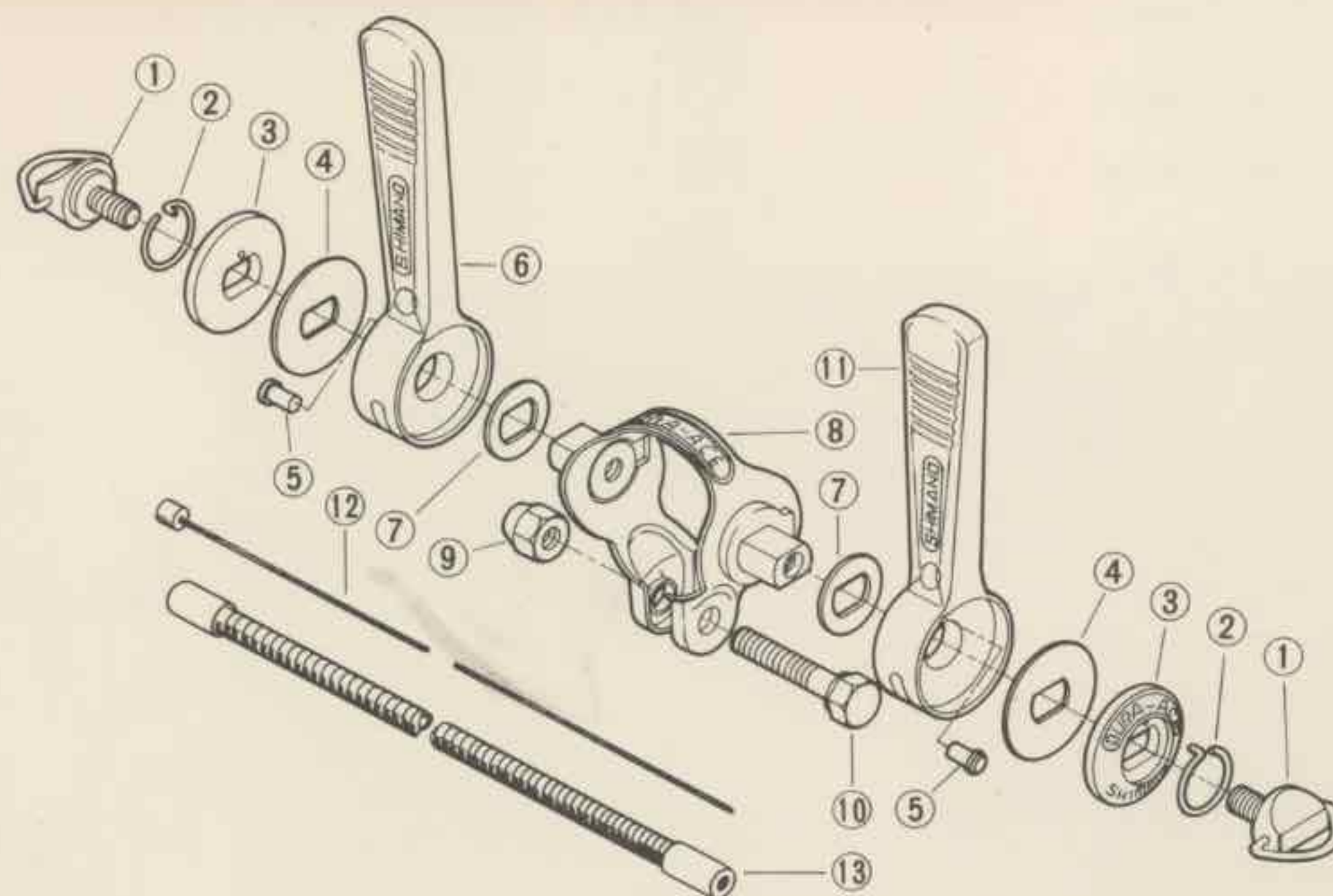
Weight: 2.65 oz.(75 g)

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

Models L-262/L-264/L-268/L-266/L-261/
L-263/ L-267/L-265

FINGER-TIP

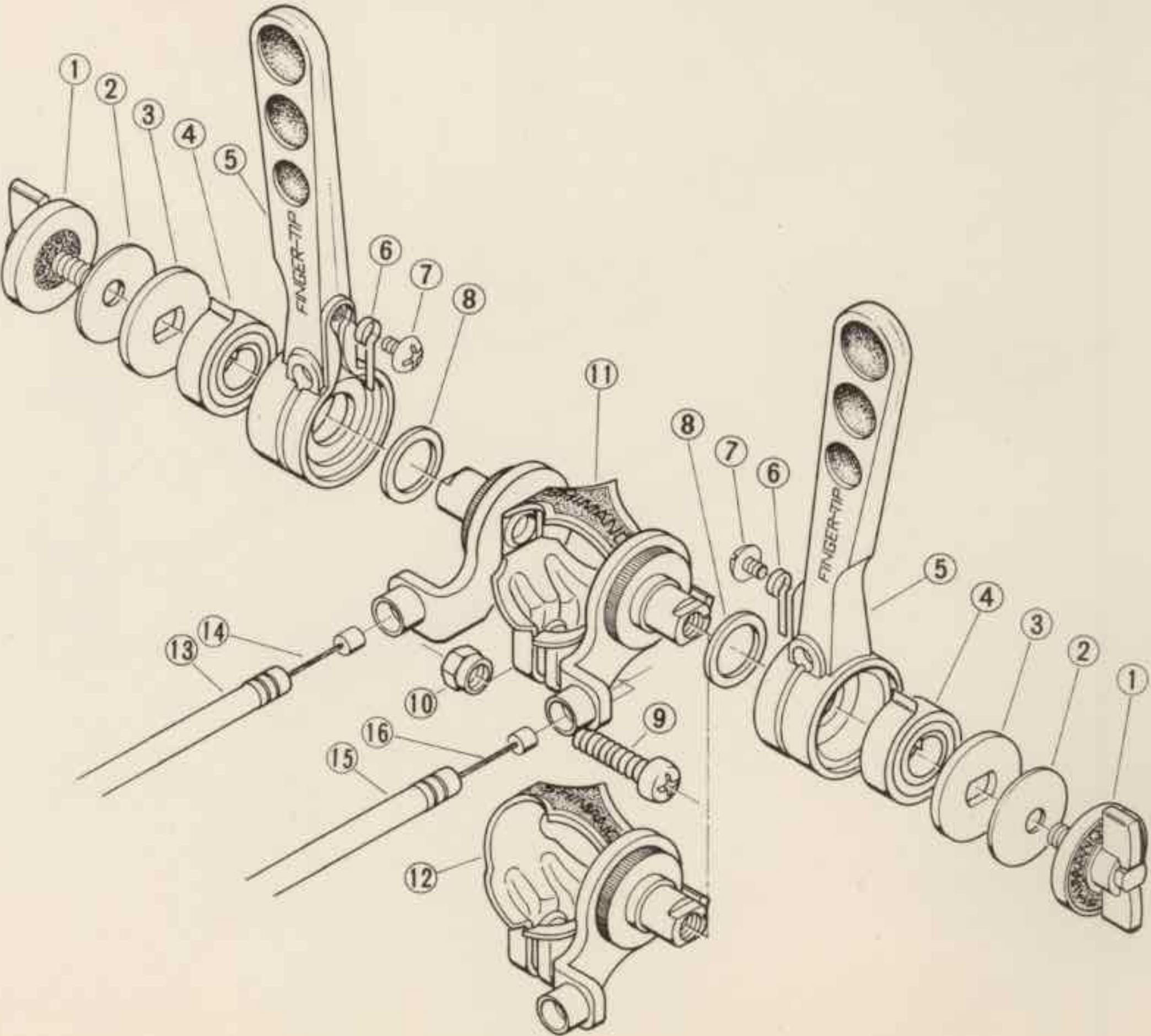
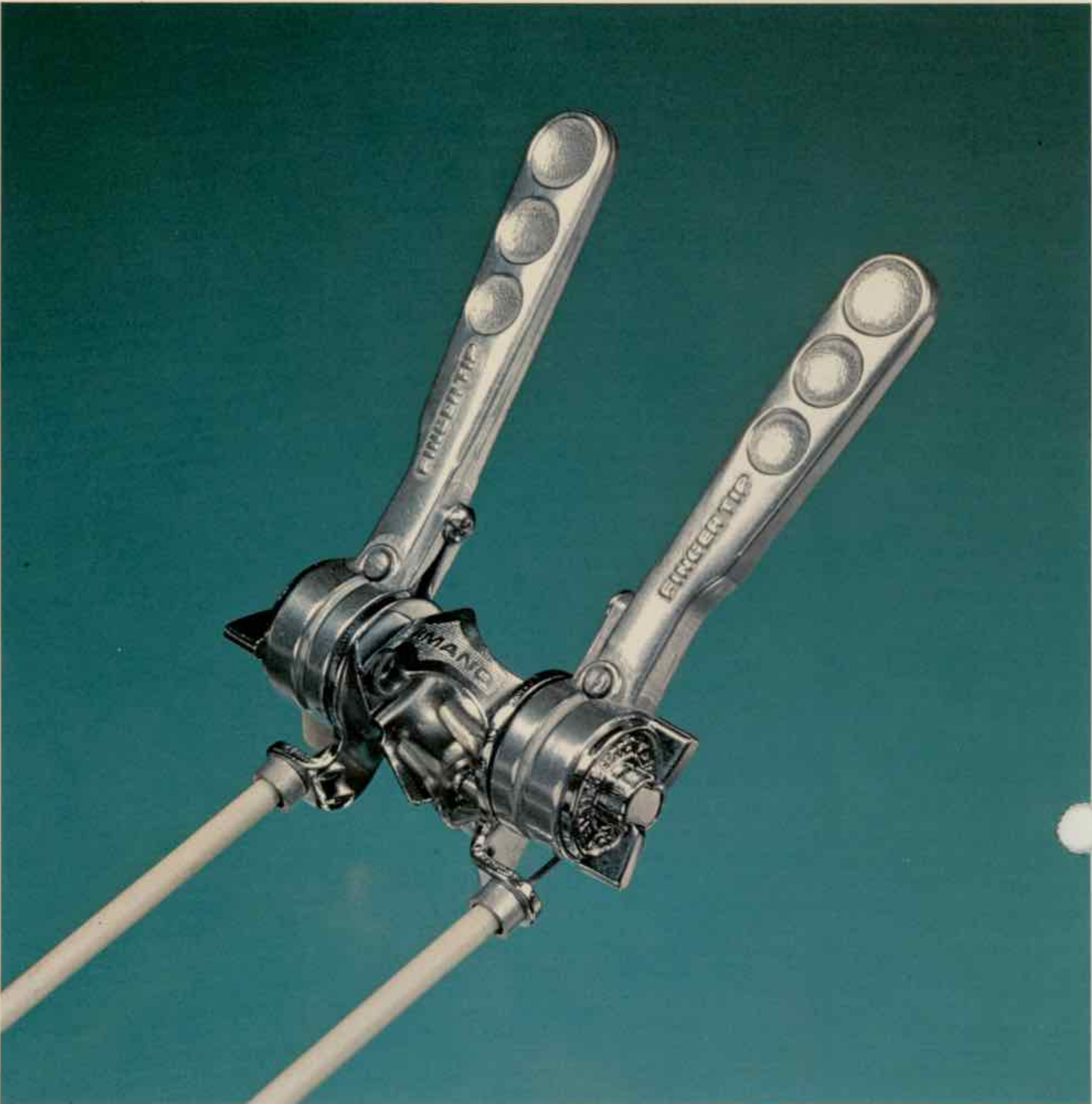
SPECIFICATIONS

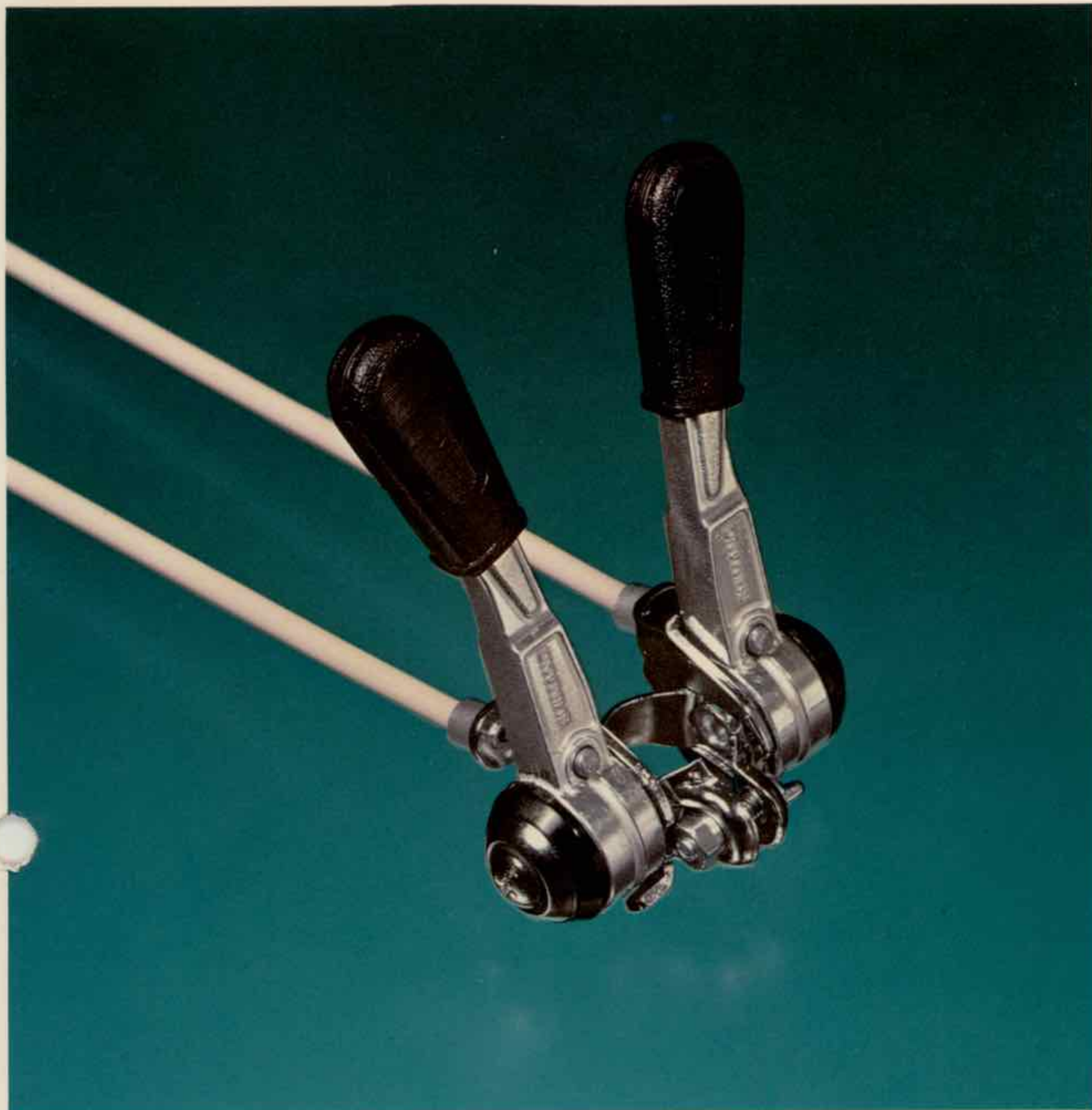
Material: Light Alloy
Type:

Model	Lever Clamp Diameter	Use
L-262	1"	10-Speed
L-264	1-1/8"	10-Speed
L-268	0.833"	10-Speed
L-266	7/8 "	10-Speed
L-261	1"	5-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 10-Speed (0.833")
⑪..... 627 9006
Clamp For 10-Speed (7/8")
⑪..... 627 9007
Clamp For 5-Speed (1")
⑫..... 627 9004
Clamp For 5-Speed (1-1/8")
⑫..... 627 9005
Clamp For 5-Speed (7/8")
⑫..... 627 9008
Front Outer Casing
⑬.....
Front Inner Cable
⑭.....
Rear Outer Casing
⑮.....
Rear Inner Cable
⑯.....





SHIFTING LEVERS

Models 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 (1-1/8")

⑭..... 625 9010

Clamp for 5-Speed (1-1/8")

⑭..... 625 9009

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

⑮..... 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

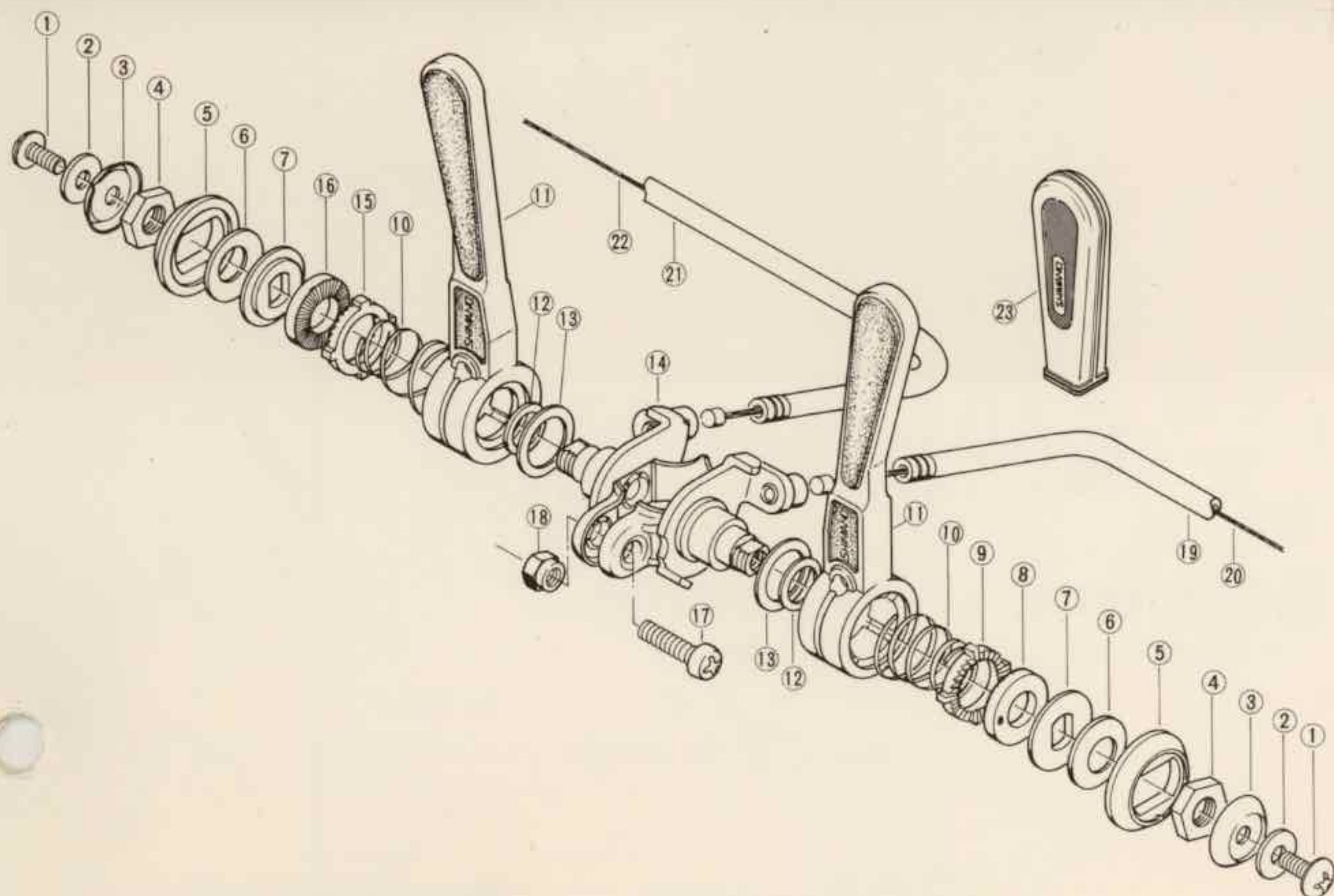
㉑.....

Front Inner Cable

㉒.....

Lever Cap

㉓..... 626 1900



FRONT & REAR HUBS

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

Models HS-731 (Front)/HS-831 (Rear): Small Flange Hubs

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" (100mm), Rear 4.72" (120mm)

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 Dimensions:

Front 3.94" (100mm), Rear 4.72" (120mm)

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

Cam Lever

④.....233 0400

Body Cam 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

Cam Lever

④.....233 0400

Body Cam 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

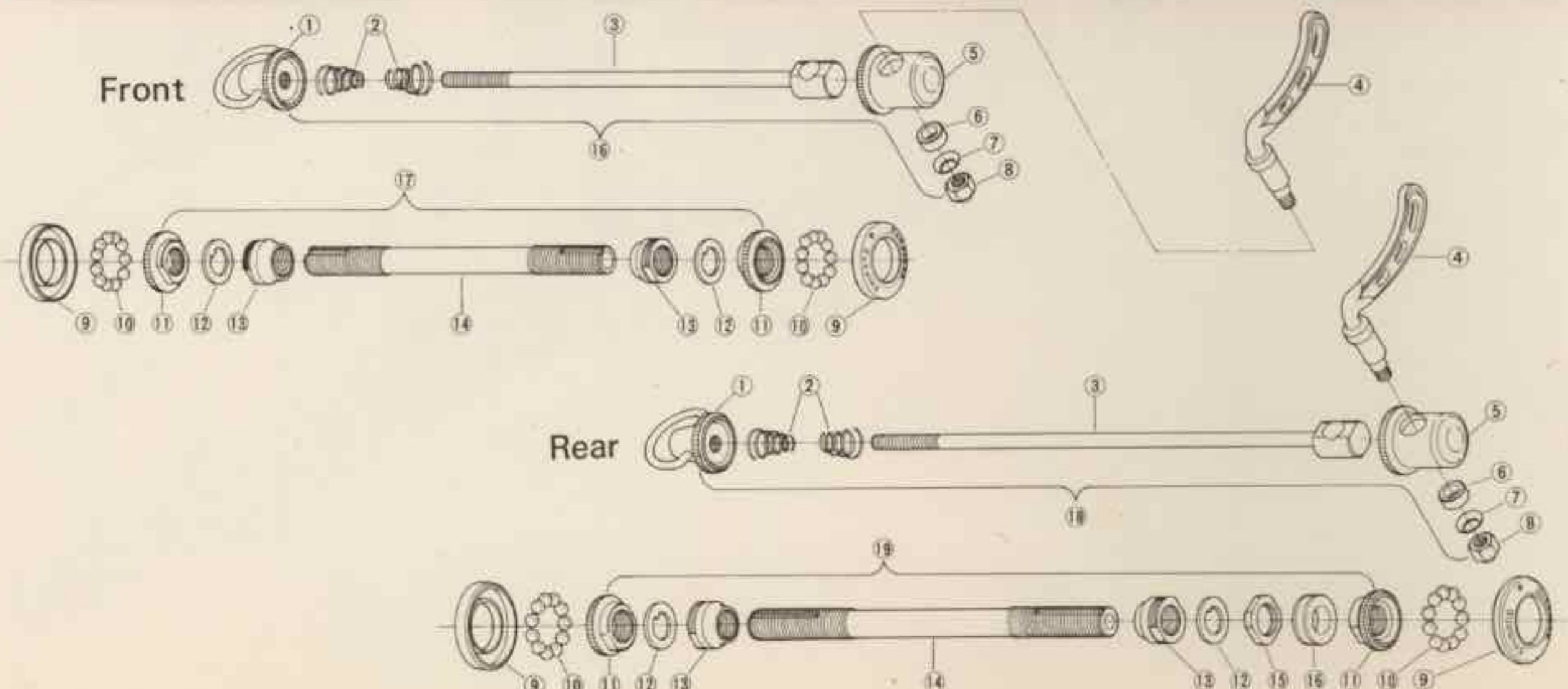
⑰.....233 1200

Complete Quick Release Unit

⑱.....243 9002

Complete Axle Unit

⑲.....243 9004





FRONT & REAR HUBS

Models H-741 (Front),/H-841 (Rear): Large Flange Hubs

Models HS-741 (Front),/HS-841 (Rear): Small Flange Hubs

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: Solid Axle (Large Flange & Small Flange)

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

Over Lock Nut Dimensions:

Front 3.94" (100 mm), Rear 4.33" (110mm)

Spoke Holes: 36 x 36H.

PARTS LIST/Front

Track Nut

①.....237 0700

Lock Nut

②.....237 0600

Spacer

③.....237 0500

Cone

④.....237 0400

Dust Cap

⑤.....237 0800

Steel Balls 3/16"

⑥.....000 0125

Axle

⑦.....237 0300

Complete Axle Unit

⑧.....237 9001

PARTS LIST/Rear

Track Nut

①.....247 0700

Lock Nut

②.....247 0600

Spacer

③.....247 0500

Cone

④.....247 0400

Dust Cap

⑤.....247 0800

Steel Balls 1/4"

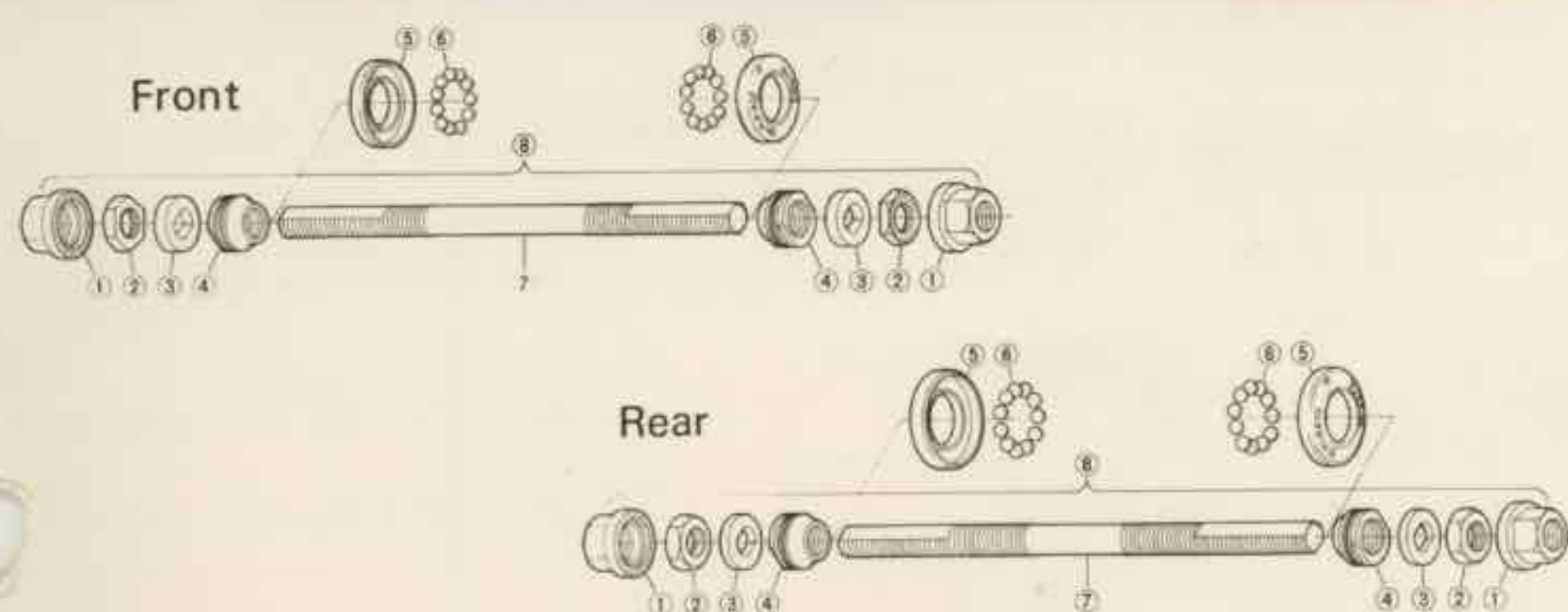
⑥.....000 0135

Axle

⑦.....247 0300

Complete Axle Unit

⑧.....247 9001



FRONT & REAR HUBS

Models H-710 (Front) /H-810 (Rear)

SPECIFICATIONS

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

Material: Light Alloy

Type: Large Flange, 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.

PARTS LIST (Front Hub)

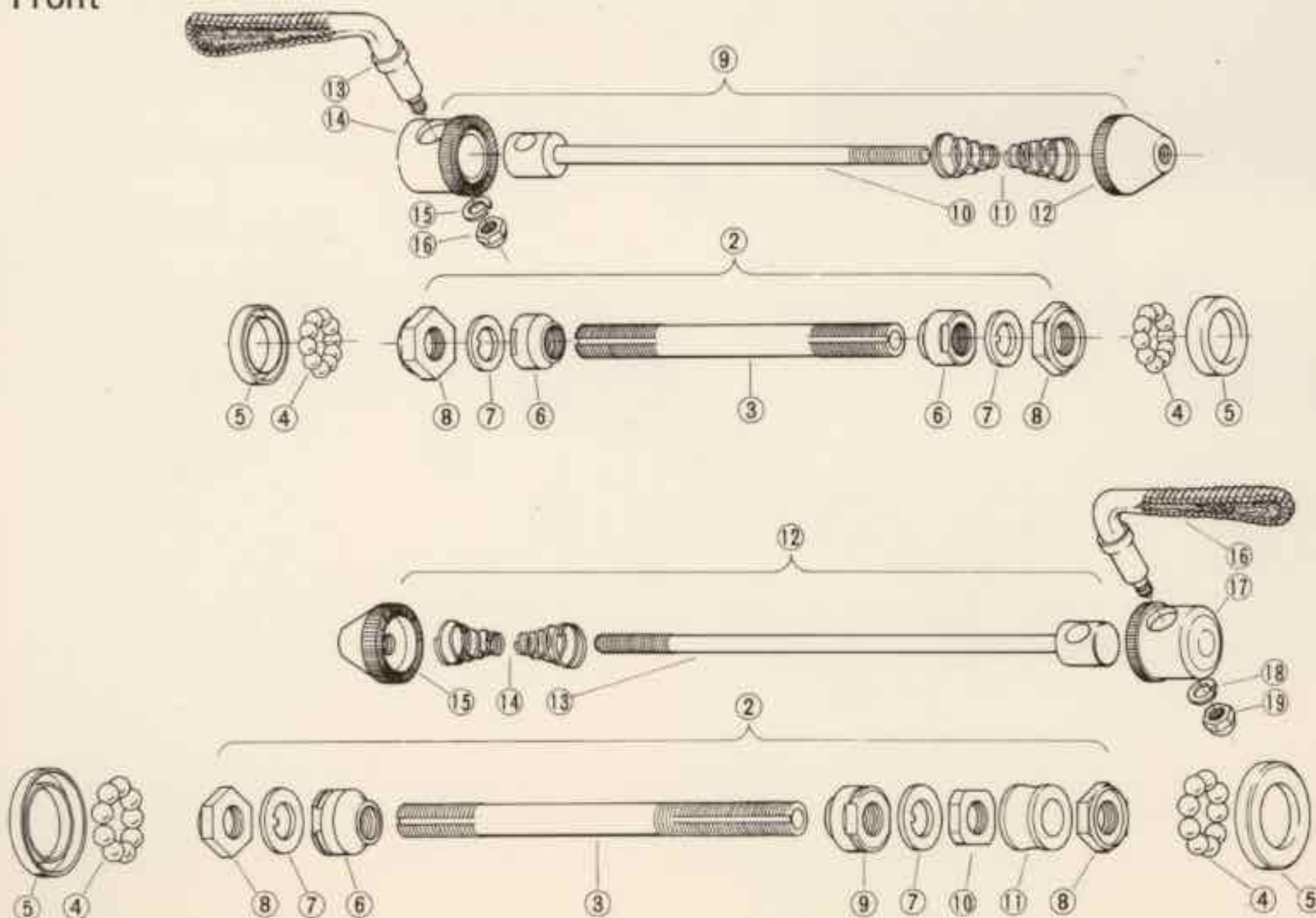
Complete Axle Unit	
②.....	231 9003
Axle	
③.....	231 0300
Steel Balls (3/16")	
④.....	000 0121
Dust Cap	
⑤.....	231 1300
Cone	
⑥.....	231 0400
Key Washer	
⑦.....	231 1500
Locking Nut	
⑧.....	210 0820
Complete Quick Release Unit	
⑨.....	231 9001
Mounting Stud	
⑩.....	231 0900
Volute Spring	
⑪.....	231 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 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





FRONT & REAR HUBS

Models **H-720**(Front)/**H-820**(Rear)

SPECIFICATIONS

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

Material: Light Alloy

Type: Large Flange Solide Axle Type with Wing 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.

PARTS LIST (Front Hub)

Complete Axle Unit 5/16" x 5.52" (140mm)

②.....232 9005

Axle 5/16" x 5.52" (140mm)

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 Axle Unit 3/8" x 7.09" (180mm)

②.....242 9005

Axle 3/8" x 7.09" (180mm)

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"(11.5mm)

⑧.....220 0420-1

Spacer B 1/16"(1.5mm)

⑨.....220 0400-1

Lock Nut B (1/8")

⑩.....321 3800

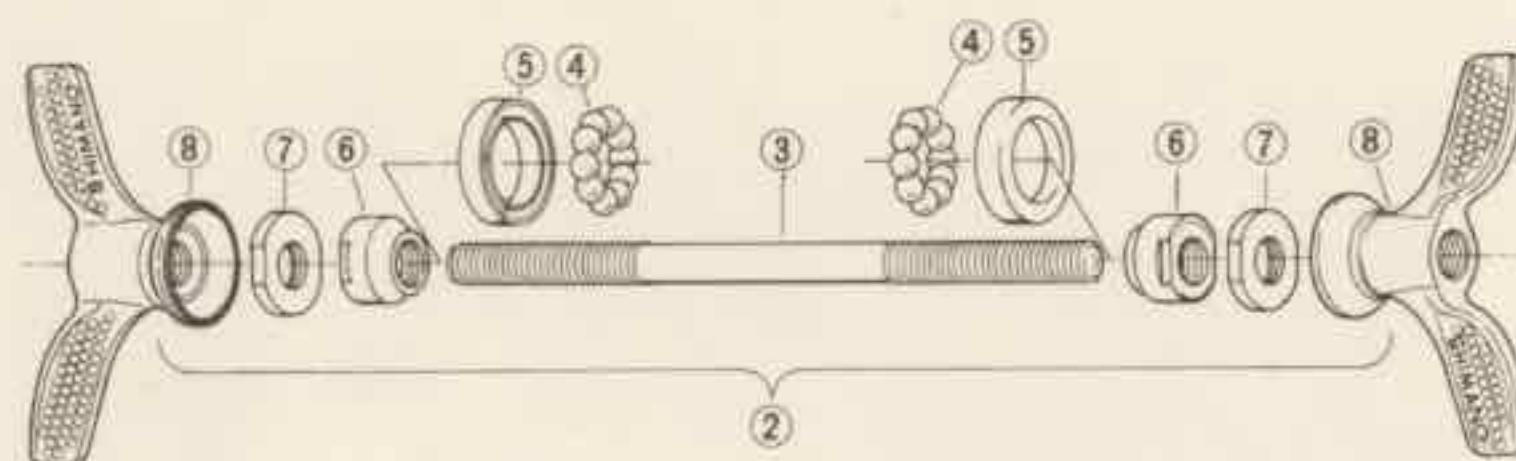
Rear Wing Nut

⑪.....220 9002

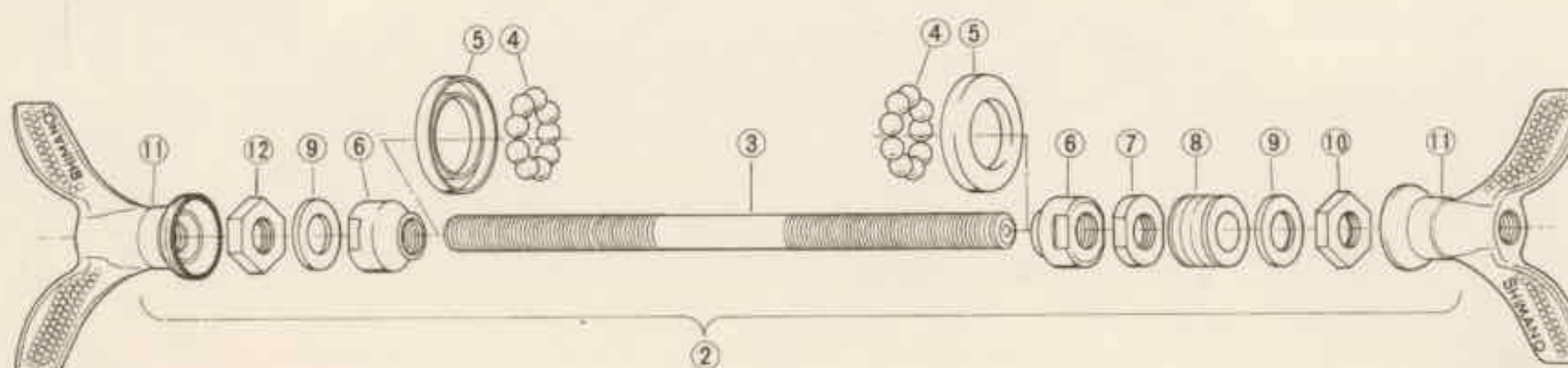
Lock Nut C (3/16")

⑫.....220 0510-1

Front



Rear



CALIPER BRAKES

Model B-210

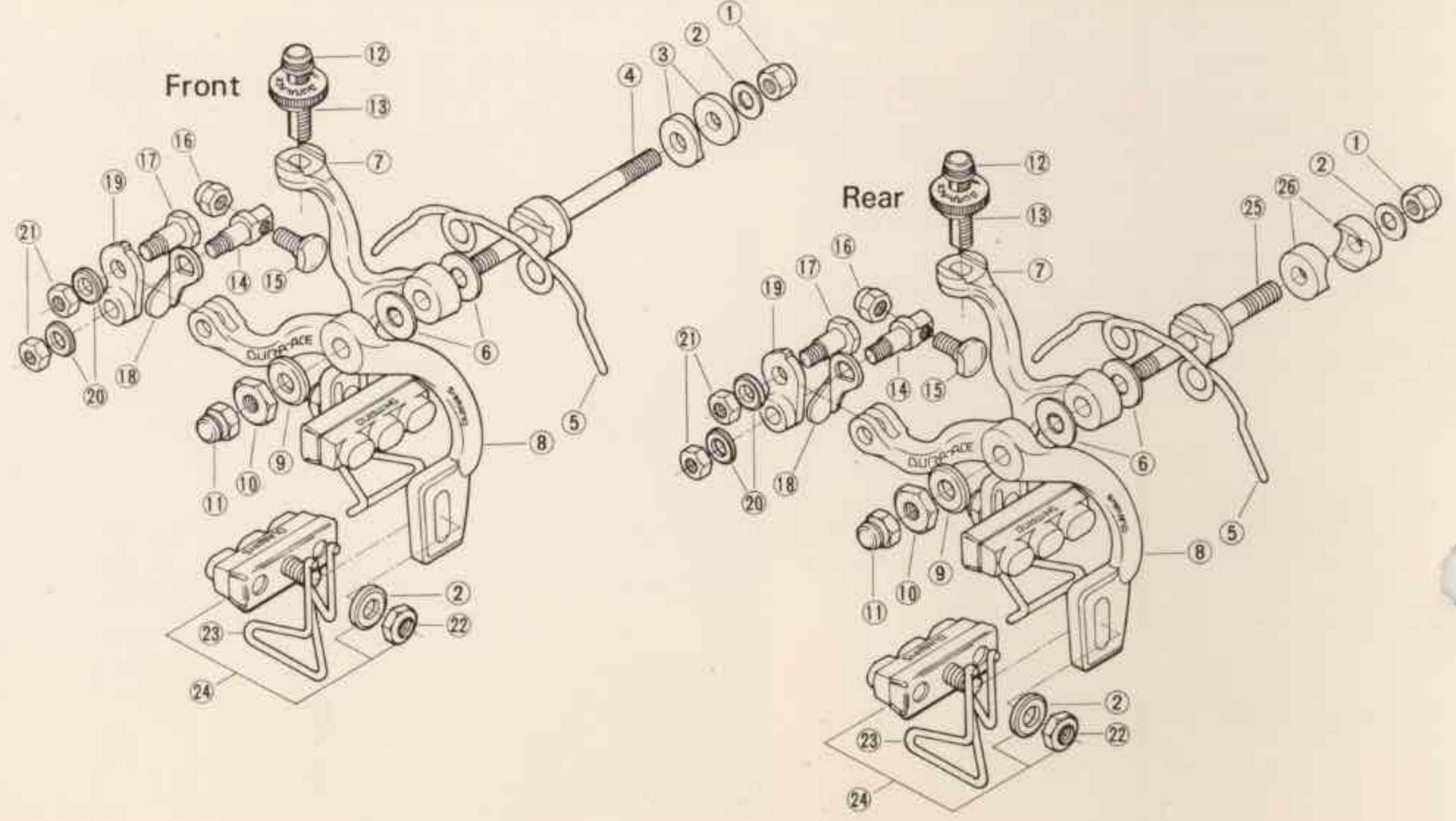
DURA-ACE

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
Tire Guide	
㉓.....	855 1500
Brake Shoe Assembly	
㉔.....	855 9001
(REAR)	
Pivot Bolt	
㉕.....	855 0400
R-Washer	
㉖.....	855 2600





BRAKE LEVERS

Model M-140

DURA-ACE

SPECIFICATIONS

Weight: 5.2 oz.(150 g)/ Pair

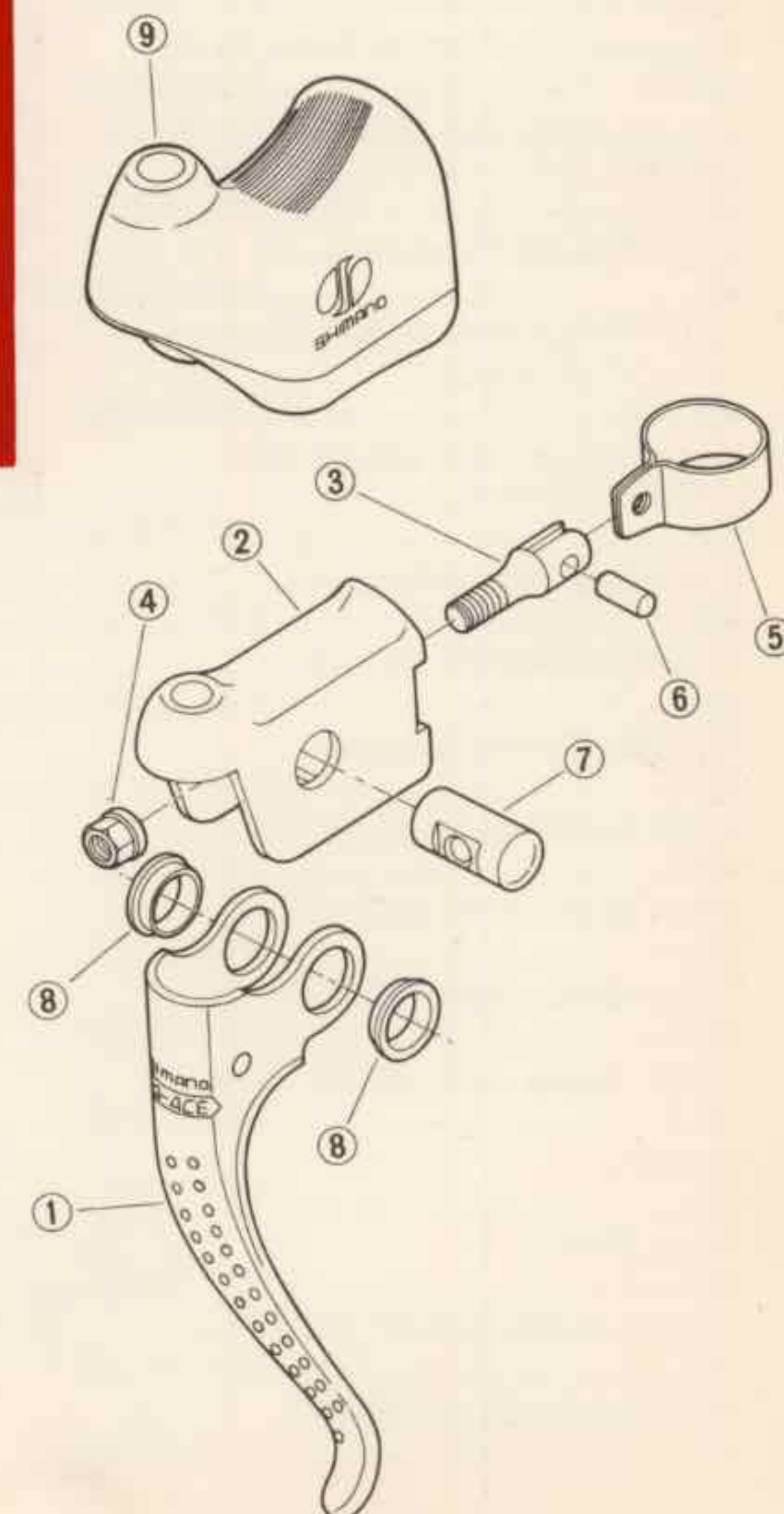
Material: Light Alloy

Type: Hooded Lever

Lever Clamp Diameter: 23.8 ϕ

PARTS LIST

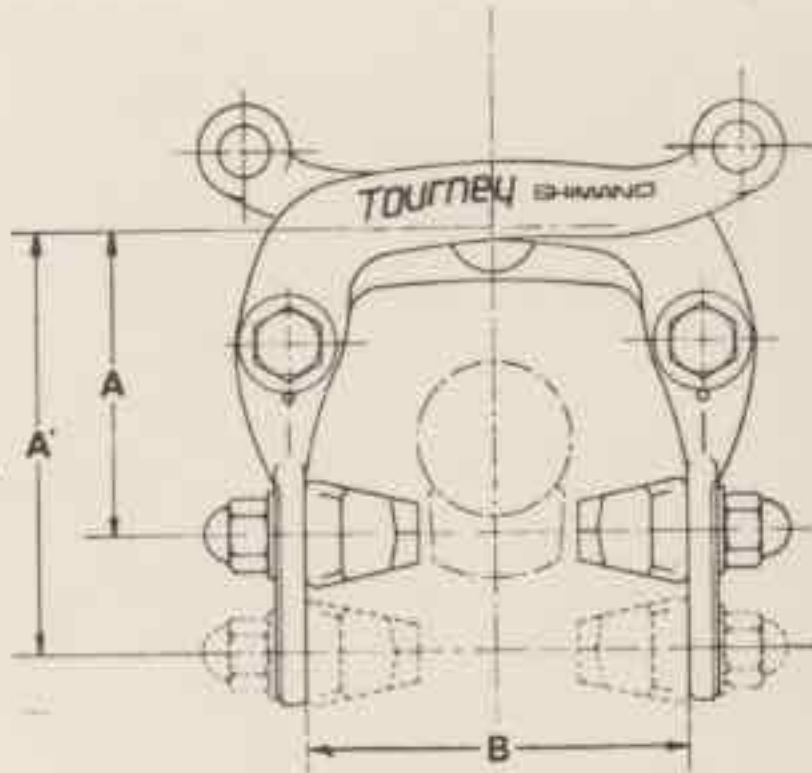
Lever	
①.....	843 9001
Lever Bracket	
②.....	843 0100
Pull Up Bolt	
③.....	843 0700
Pull Up Nut	
④.....	843 0900
Clamp	
⑤.....	843 0600
Joint Pin	
⑥.....	843 0800
Lever Shaft	
⑦.....	843 0500
Bushing	
⑧.....	843 0400
Rubber Cover	
⑨.....	843 1000



CALIPER BRAKES
Models 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



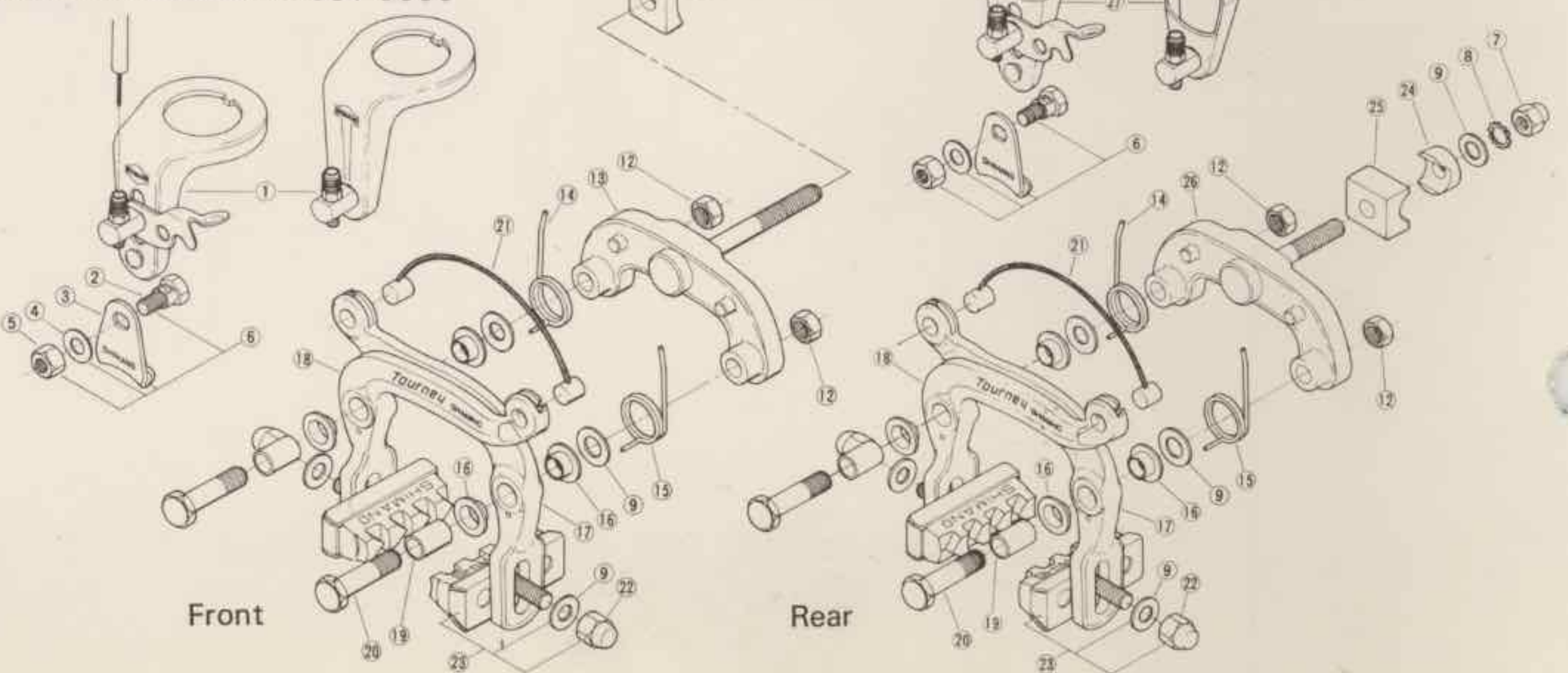
Type	Model	A~A'	B	Use
CC-65	B-110	(1-7/8") 47mm~(2-1/2") 65mm	(2-5/16") 59mm	27"
CC-75	B-120	(2-1/4") 57mm~(3") 75mm	(2-1/2") 65mm	26"

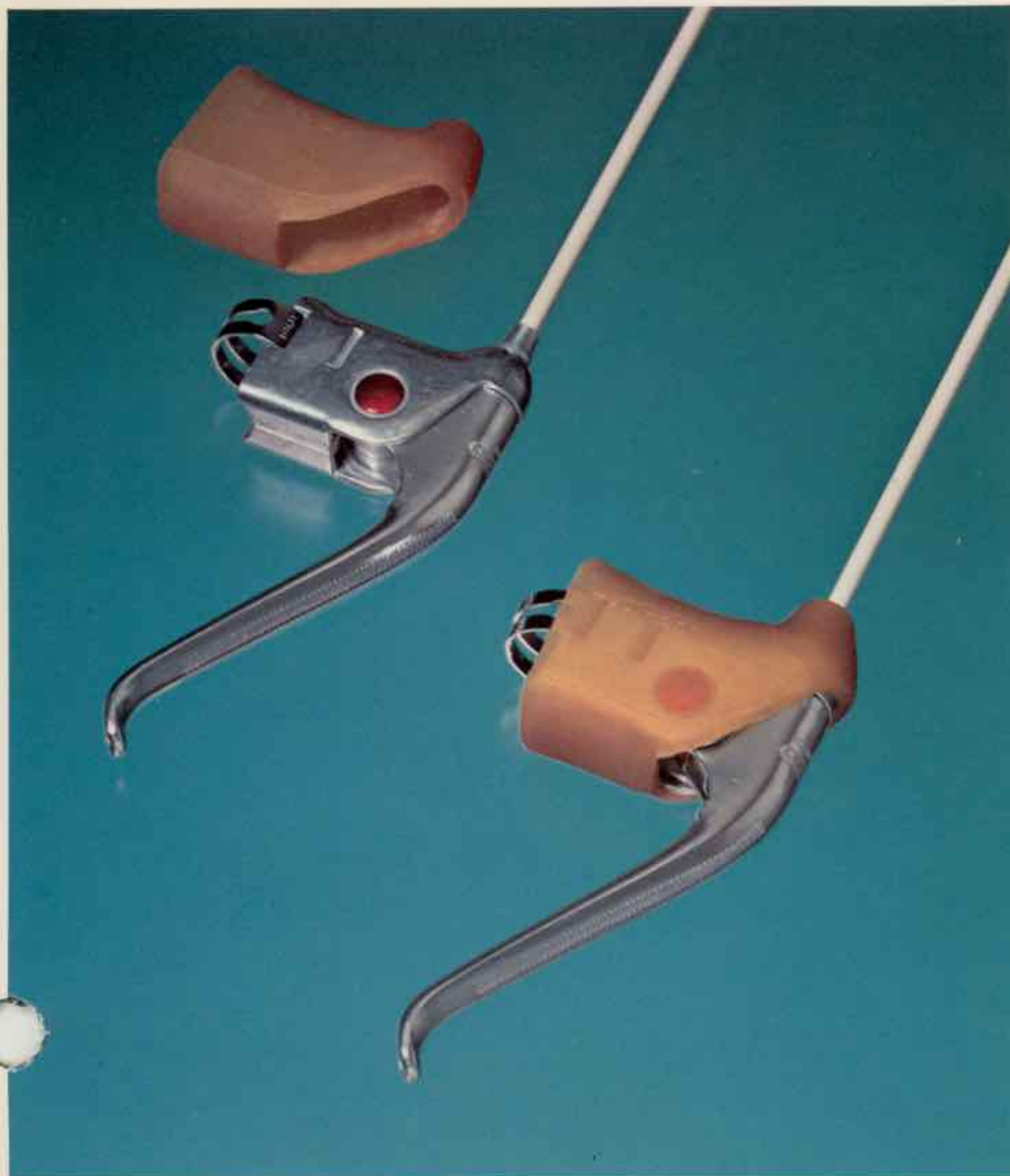
PARTS LIST

- 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 2-1/2" (63mm)
⑬..... 831 9001
Arm Bridge with Center Bolt 2-3/4" (71mm)
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 3-1/2" (90mm)
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 1-5/8" (42mm)
㉖..... 831 9003
Rear Cable Hanger Complete with Quick Release Unit 7/8" (23mm)
㉗..... 831 9006
Rear Cable Hanger Complete with Quick Release Unit 1-1/16" (27mm)
㉗..... 831 9007
Rear Cable Hanger Complete 1-1/16" (27mm)
㉗..... 831 9008





BRAKE LEVERS

Models M-110/M-120

HOODED LEVER

SPECIFICATIONS

Weight: 7.1 oz.(200 g)/Pair

Material: Light Alloy

Type :

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

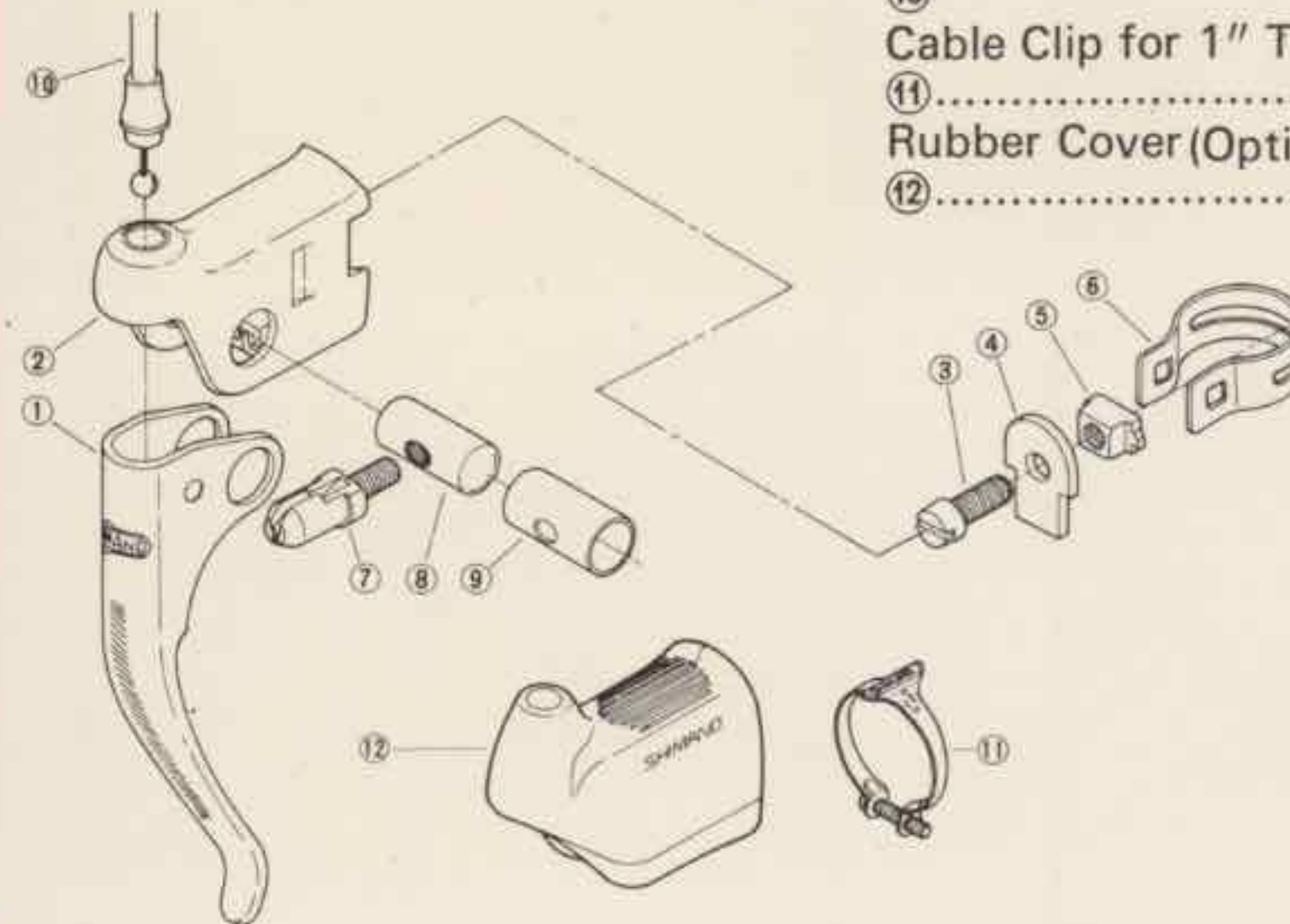
PARTS LIST

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 mm)

⑥..... 841 0300

Clamp 15/16" (23.8 mm)

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

Rubber Cover(Optional)

⑫..... 841 1100



BRAKE LEVERS

Models M-210/M-220

DUAL EXTENSION LEVER

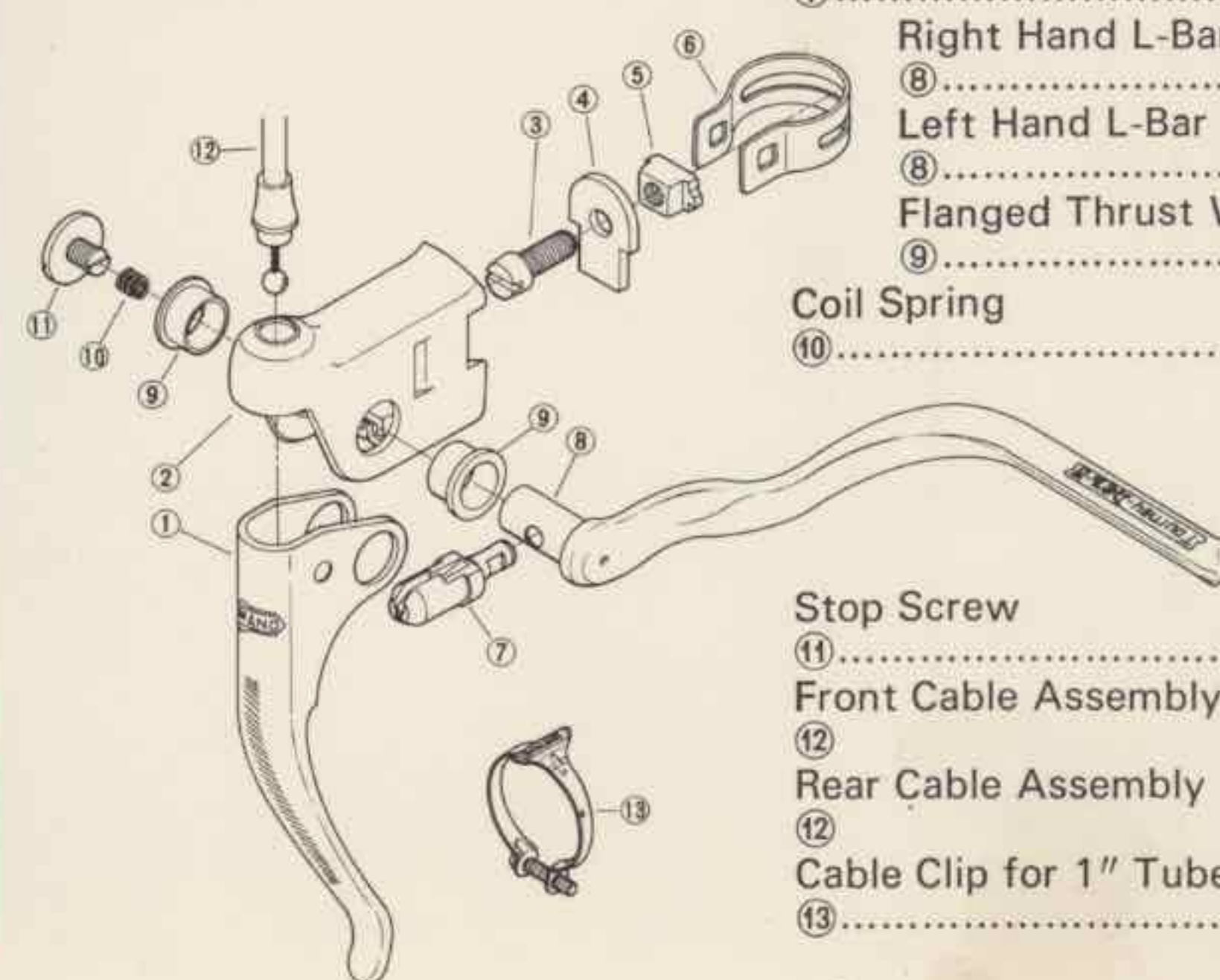
SPECIFICATIONS

Weight: 11.3 oz.(320 g)/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 mm)

⑥..... 841 0300

Clamp 15/16" (23.8 mm)

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



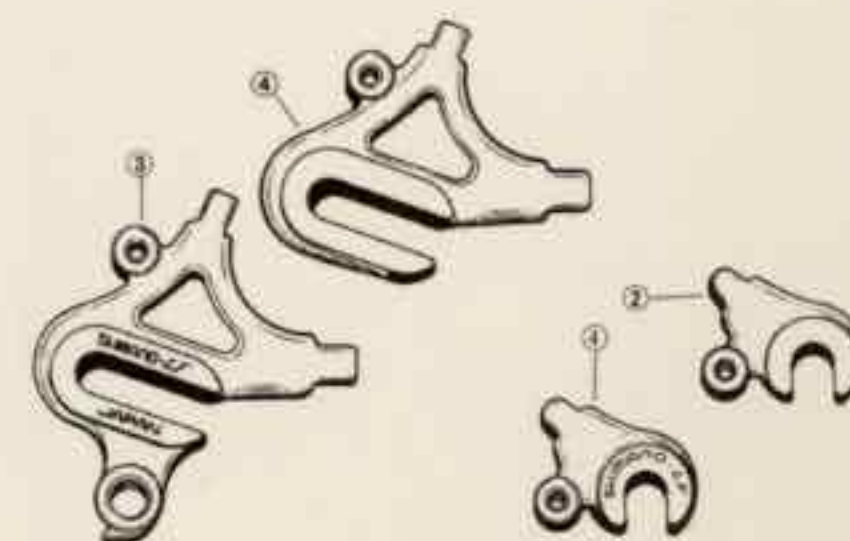
FORK ENDS

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

SPOKE PROTECTORS
Models P-100/P-310/P-320/
P-410/P-420

SPECIFICATIONS

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



P-100



P-320



P-420



P-310



P-410



HEAD PARTS

Model K-901

DURA-ACE

SPECIFICATIONS

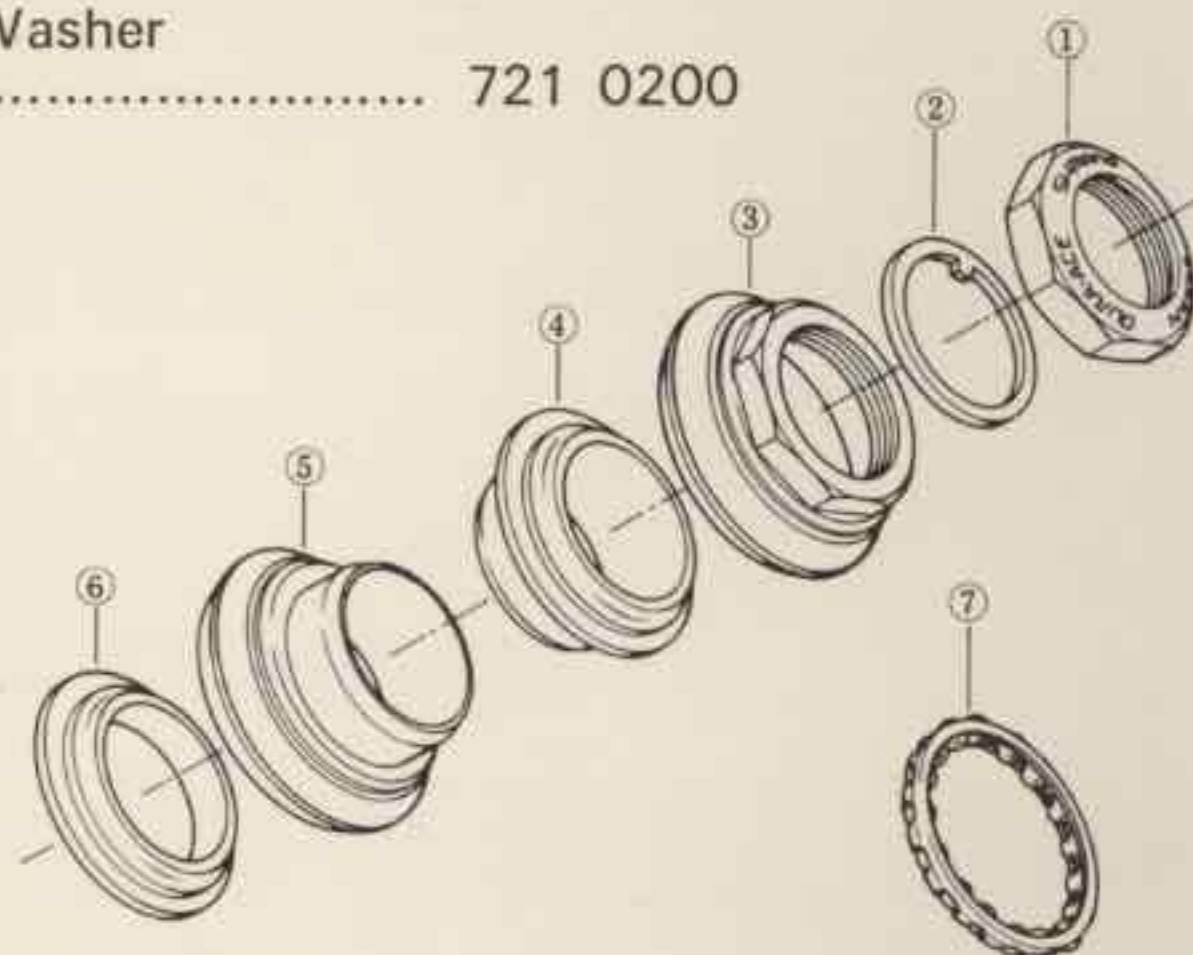
Material: Chromium Bearing Steel

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

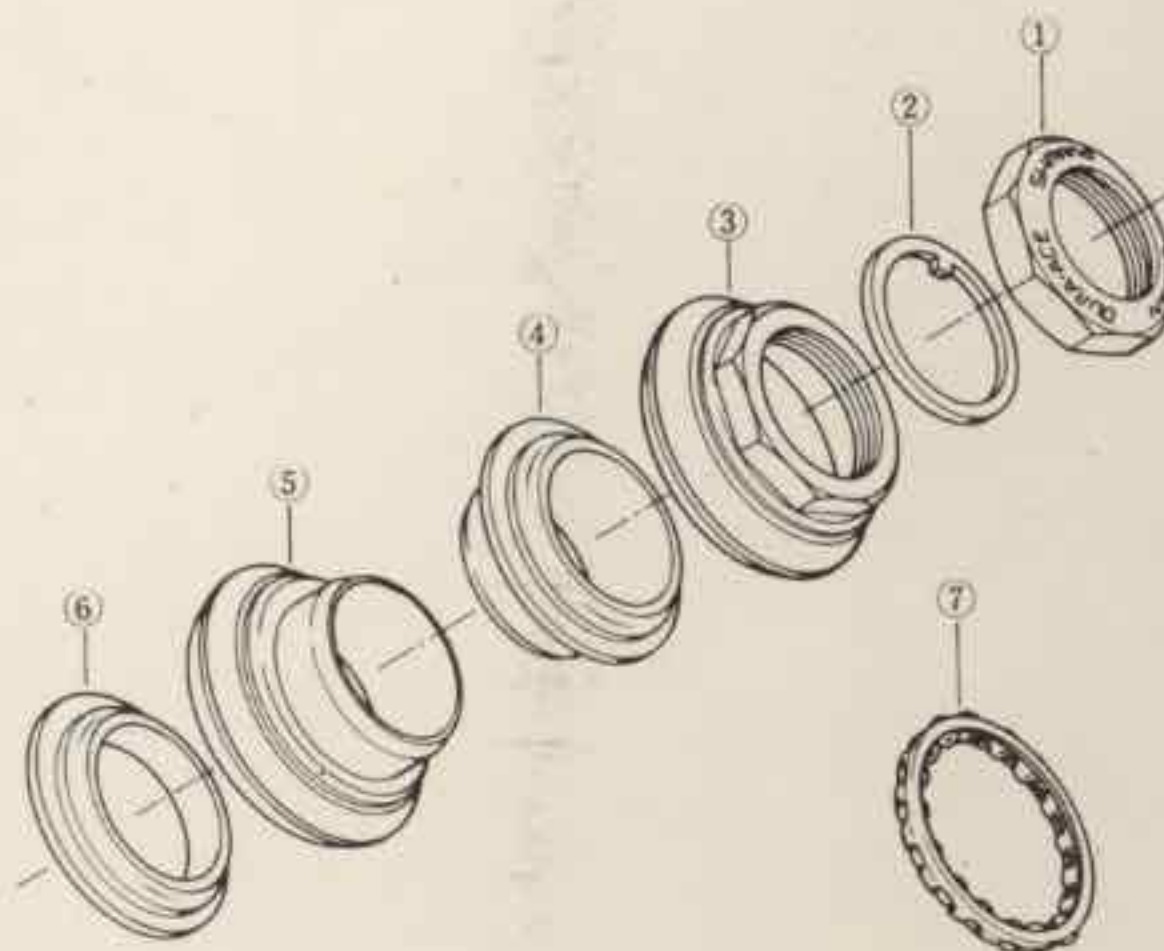
Material: Chromium Bearing Steel

Type: Track Type

PARTS LIST

Lock Nut	
①.....	721 0100
Lock Washer	
②.....	721 0200

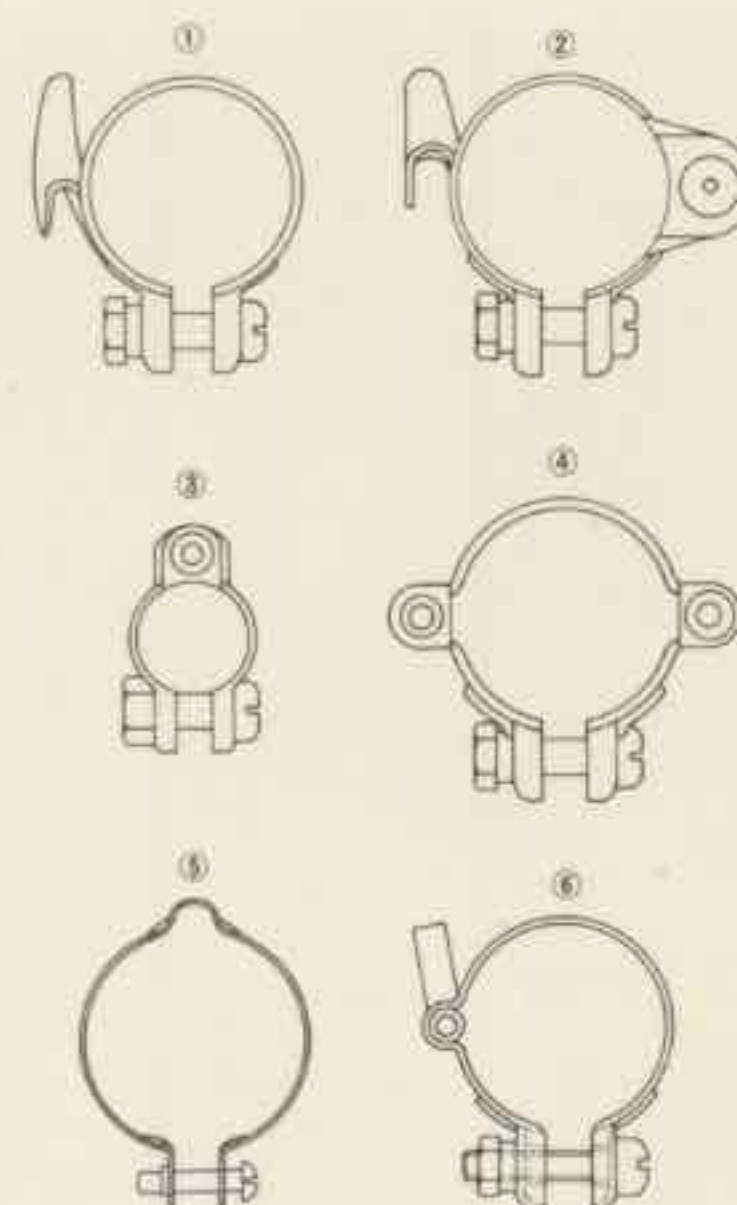
Top Bearing Cup	
③.....	722 0300
Top Bearing Cone	
④.....	721 0400
Bottom Bearing Cup	
⑤.....	722 0500
Crown Cone	
⑥.....	721 0600
Ball Retainer	
⑦.....	721 0700





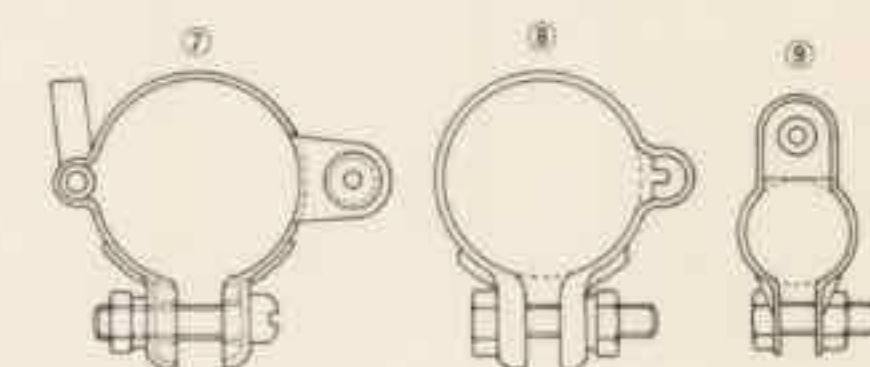
CABLE PARTS

- Model K-511**
CABLE GUIDE (1-1/8")W.....②
- Model K-521**
CABLE STOP (5/8")③
- Model K-524**
CABLE STOP (1-1/8")W.④

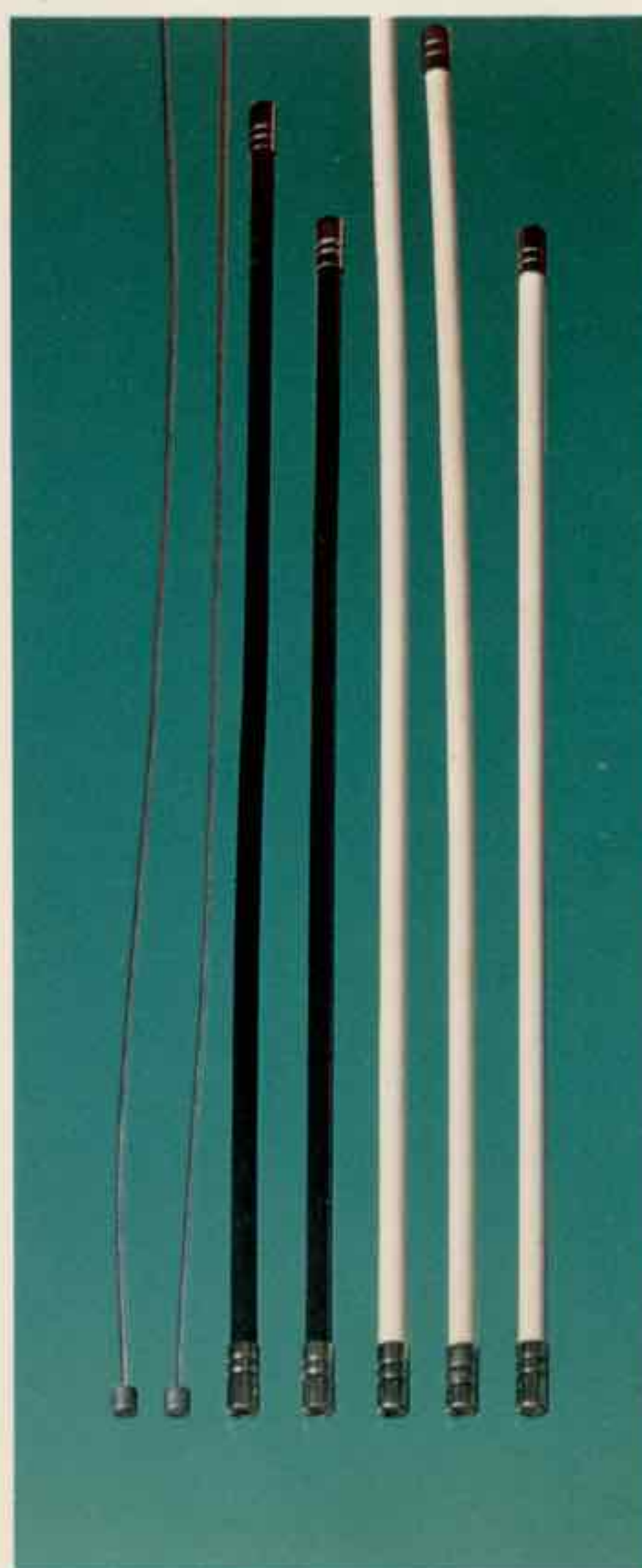
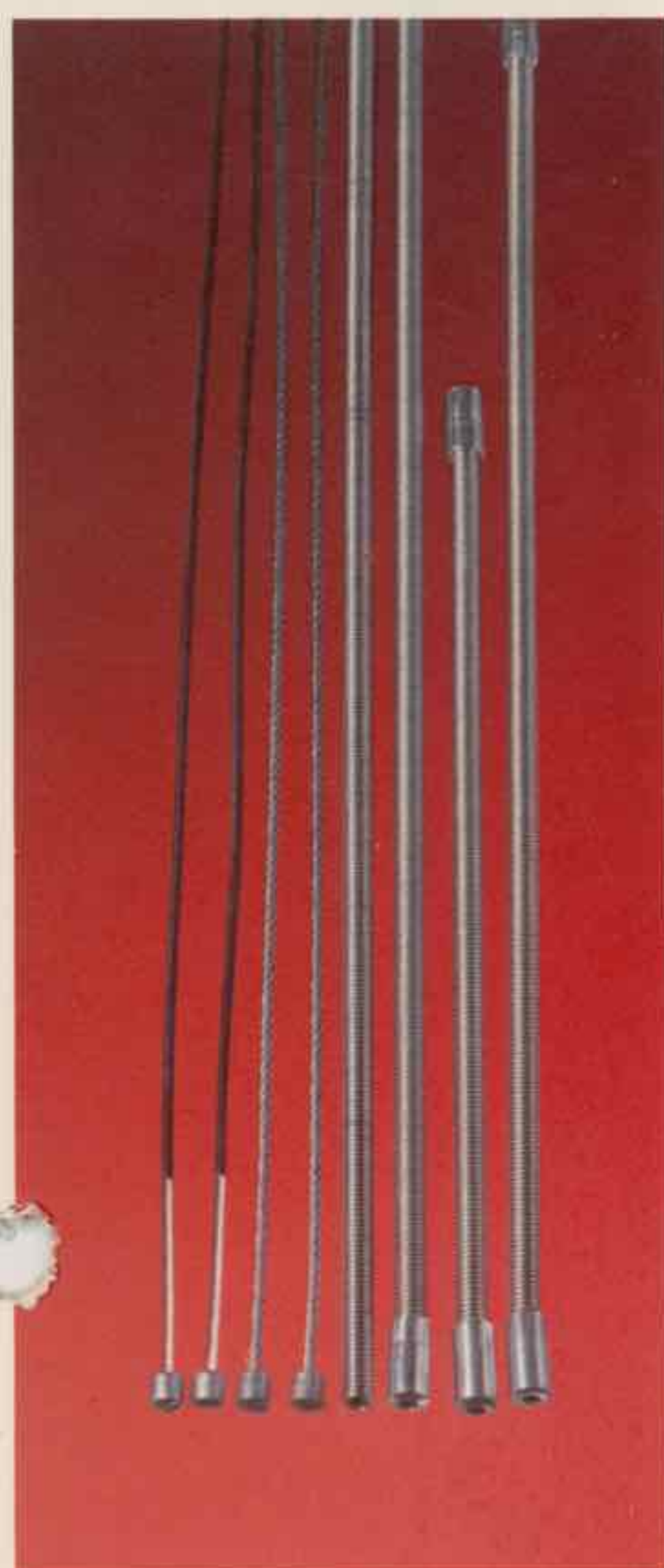


CABLE PARTS

- Model K-512**
CABLE GUIDE (1-1/8")S.①
- Model K-515**
CABLE GUIDE (1-1/8")S.⑥
- Model K-514**
CABLE GUIDE (1")S.①
- Model K-516**
CABLE GUIDE (1-1/8")W.....⑦
- Model K-525**
CABLE STOP (5/8")⑨
- Model K-523**
CABLE STOP (1-1/8")S.⑧



- Model K-541**
OUTER BAND (1")⑤
- Model K-522**
CABLE STOP (1/2")⑨



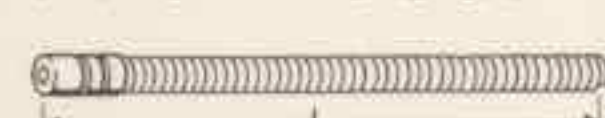
OUTER CASINGS & INNER CABLES

STAINLESS OUTER CASING with BOTH CAPS



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

STAINLESS OUTER CASING with ONE CAP



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

OUTER CASING with BOTH CAPS



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

COATED INNER CABLE (1.2 mm ϕ)



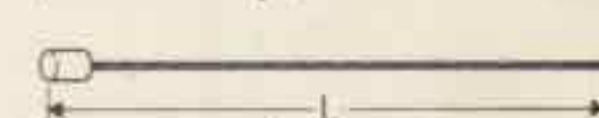
Model	Length
W-121	1,800 mm
W-122	1,850 mm
W-123	1,900 mm
W-124	1,320 mm
W-125	1,360 mm
W-126	1,400 mm

INNER CABLE (1.5 mm ϕ)



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

INNER CABLE (1.2 mm ϕ)



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

INNER CABLE (1.5 mm ϕ)



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



HEXAGON WRENCH KEYS
Model X-101 (5mm)
Model X-102 (6mm)



COTTERLESS CRANK
 EXTRACTOR
Model X-701

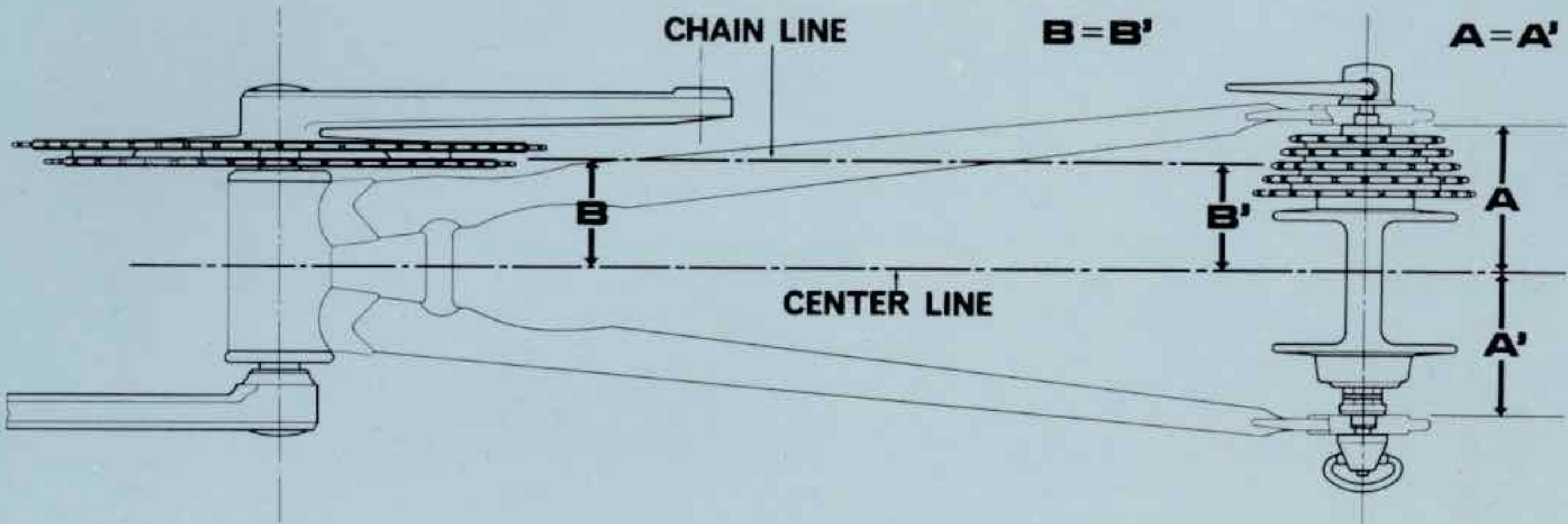
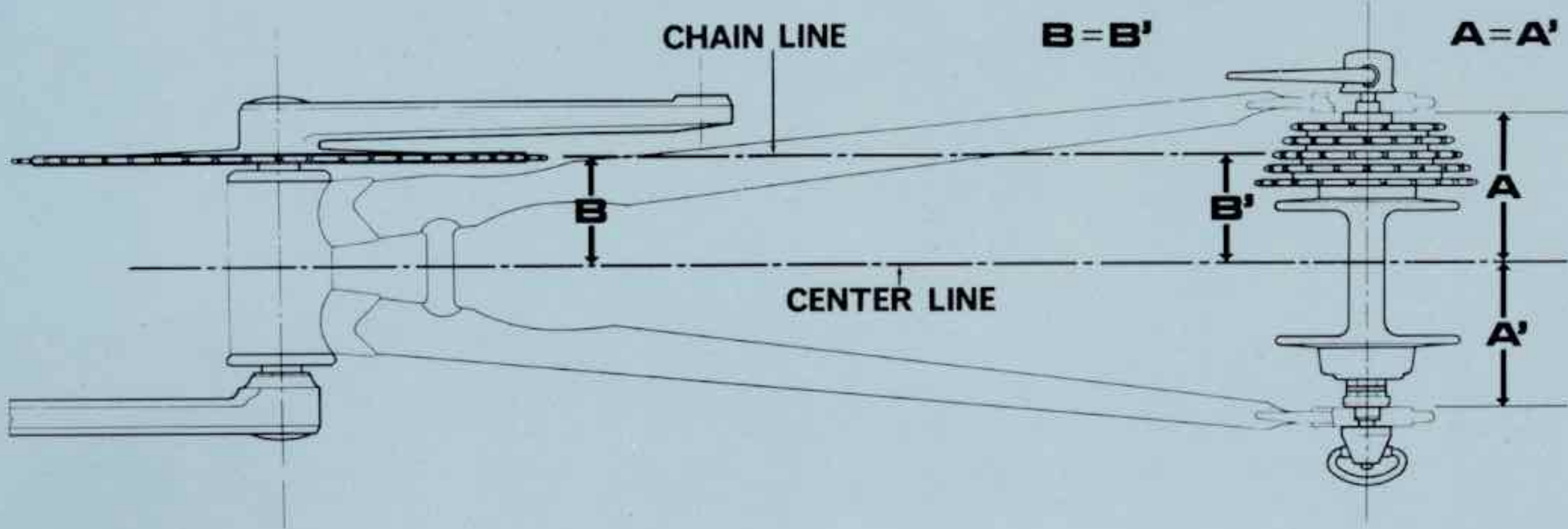


CHAINWHEEL SCREW
 PEG SPANNER
Model X-702



BOSS TYPE MULTIPLE
 FREEWHEEL REMOVAL
 TOOL
Model X-401

CHAIN 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	45.0 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



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