

SHIVANO

Small Parts Outer Band Special Tool

ZULMANS

FIETSEN - BROMMERS

Grotestraat 177 WAALWIJK Tel. 32405



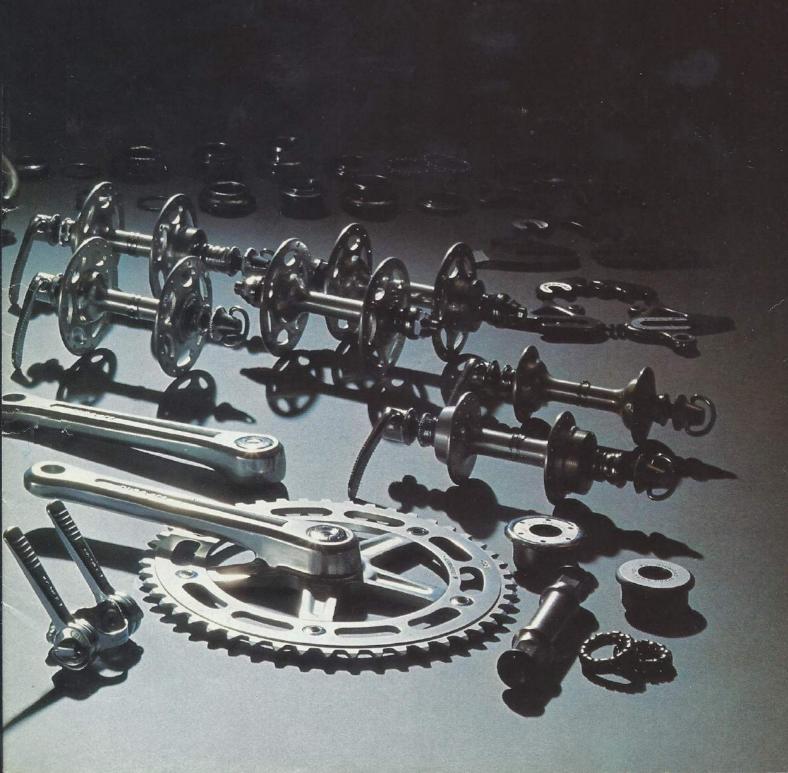
Shimano DURA-ACE Series





The Dura-Ace series of bicycle components is the best to be found anywhere. Produced with extra time and attention to detail, the Dura-Ace line surpasses the demands of the most severe cyclist. If only the best is good enough, or if competitive performance is essential, then Dura-Ace will become the center of the cyclist's riding satisfaction.

Each part in the Dura-Ace series is engineered to be light and strong. Shimano's research teams developed a special "micra" alloy which is precision cold-forged into a final lustrous, jewel-like finish. Those who know quality in bicycle components demand the non-compromising value of Dura-Ace.





Shimano Series for Road & Touring





















Model KA-320

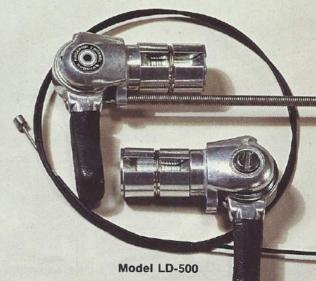
Model LA-100







Model KA-300







Model KB-110



Rear Derailleur

Model DB-100

CRANE

SPECIFICATIONS

Capacity: Front Difference: 14 Teeth or Less

Rear Largest Sprocket: 28 Teeth or Less Weight: 7.9 oz. (225 g)

Material: Light Alloy

Type: Servo Panta Mechanism

Option: Adaptor

Model DB-110

CRANE-GS SPECIFICATIONS

Capacity: Front Difference: 14 Teeth or Less

Rear Largest Sprocket: 34 Teeth or Less

Weight: 9.5 oz. (270 g) Material: Light Alloy

Type: Servo Panta Mechanism (Long Cage Plate)

Option: Adaptor

Front Derailleur

Model EA-100

DURA-ACE

SPECIFICATIONS

Capacity: 16 Teeth or Less Weight: 3.7 oz. (105 g)

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

Type: Lower Inlet Type 1-1/8"

Shifting Lever

Model LA-100

DURA-ACE

SPECIFICATIONS

Weight: 2.65 oz. (75 g) Material: Light Alloy Type: Double Lever

Lever Clamp Diameter: 1-1/8"

Model LD-500

BAR-END CONTROL

SPECIFICATIONS

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

Attachment Position: Bar-End

Type: With Spiral Spring (Balance Spring)

Cable Parts

Model KA-100

CABLE GUIDE

SPECIFICATIONS

Clamp Diameter: 1-1/8" Material: Steel Use: For 10 Speed

Model KA-110

OUTER STOPPER

SPECIFICATIONS

Clamp Diameter: 5/8" Material: Steel

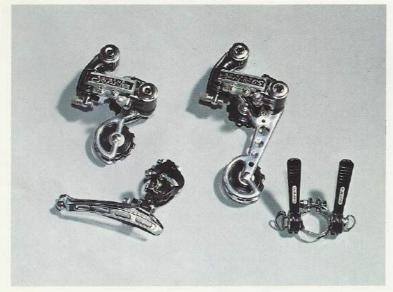
Model KB-110

OUTER STOPPER

SPECIFICATIONS

Clamp Diameter: 1-1/8" Material: Steel Use: For 10 Speed For Bar-End Control

DURA-ACE Black Series



Brazed on Parts

Model KA-300

CABLE GUIDE

SPECIFICATIONS

Material: Steel

Model KA-310

OUTER STOPPER

SPECIFICATIONS

Material: Steel

Model KA-320

LEVER AXLE SPECIFICATIONS

Material: Steel



Multiple Freewheel

Model FA-100 (5 Speed Gold) FA-110 (6 Speed Gold)

DURA-ACE

SPECIFICATIONS

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

Thread: 1.37" x 24" T.P.I.(English) Available by request 35 x 1.0 (French)

Sprocket: Golden Finish

Standard Sprocket Combinations:

| 5-speed | 13, 15, 17, 19, 21T |
|---------|---|
| | 13, 15, 17, 19, 21T 14, 16, 18, 20, 22T 15, 17, 19, 21, 24T |
| | 15, 17, 19, 21, 24T |
| 6-speed | 13, 14, 15, 16, 17, 18T |
| 4 | 13, 14, 15, 16, 17, 18T 13, 15, 17, 19, 21, 23T |

Light Alloy Hub

Model HA-100: Small Flange Hub

DURA-ACE

SPECIFICATIONS

Weight: Front 7.8 oz. (220 g)

Rear/5-speed/10.7 oz. (305 g) Rear/6-speed/10.9 oz. (310 g)

Material: Duralumin Type: Quick Release

Thread: 1.37" x 24 T.P.I. (English) Available by request 35 x 1.0 (French)

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

Rear/5-speed/4.72" (120mm) Rear/6-speed/4.96" (126mm) Spoke Holes: 28H, 36H

Available by request 24H, 32H, 40H

Polished Ball Race

Model HA-200: Large Flange Hub

DURA-ACE

SPECIFICATIONS

Weight: Front 9.2 oz. (260 g)

Rear/5-speed/11.6 oz. (330 g) Rear/6-speed/11.8 oz. (335 g)

Material: Duralumin Type: Quick release

Thread: 1.37" x 24 T.P.I. (English) Available by request 35 x 1.0 (French)

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

Rear/5-speed/4.72" (120mm) Rear/6-speed/4.96" (126mm) Spoke Holes: 28H, 36H

Available by request 24H, 32H, 40H

Polished Ball Race

Front Chainwheel

Model GA-200 (without Bottom Bracket Set)
GB-100 (Bottom Bracket Set)

DURA-ACE

SPECIFICATIONS

Material: 14S Super Duralumin

Type: Cotterless

Chain Ring: 1/2" x 3/32" Chain (2mm)
Teeth: Inner Chain Ring 39∼48T
Outer Chain Ring 48∼55T

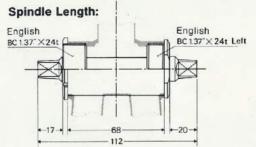
Crank Lengths: 6-1/2" (165mm), 6-3/4" (170mm), 6-7/8" (175mm) Available by request 6-19/32" (167.5mm), 6-13/16" (172.5mm)

Crank Thread: 9/16" x 20t

Cup Thread: English 1.37" x 24t, French 35 x 1.0, Italian 36 x 24t

Material of Chain Ring:

Standard: 14S Duralumin (For Touring & Light Racing)
Option: 75S Extra Super Duralumin (For Serious Racing)



DURA-ACE Black Series





Model NB-120

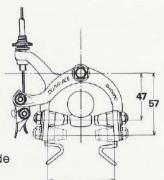
Model KD-100

Caliper Brake Model BA-100

DURA-ACE SPECIFICATIONS

Weight: Front 6.7 oz. (190g) Rear 6.7 oz. (190g)

Material: Duralumin Type: Side Pull with Quick Release and Tire guide



Brake Lever

Model MA-100

DURA-ACE **SPECIFICATIONS**

Weight: 5.2 oz. (150 g)/Pair

Material: Light Alloy

Type: Hooded Lever with Rubber Cover

Lever Clamp Diameter: 23.86

Head Parts Model UA-100

DURA-ACE

SPECIFICATIONS

Material: Chromium Bearing Steel

Type: Road Type Polished Ball Race



DURA-ACE Black Series

Fork Ends

Model NB-100

SHIMANO-SF

SPECIFICATIONS

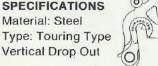
Material: Steel Type: Road Type

With Adjusting Bolt

Model NB-120

SHIMANO-SFR

SPECIFICATIONS





Pump Holder

Model KD-100

PUMP HOLDER

SPECIFICATIONS

Clamp Diameter: 1-1/8" Material: Steel

Outer Band

Model KA-210

OUTER BAND

SPECIFICATIONS

Clamp Diameter: 1" Material: Steel





Shimano DURA-ACE Series for Track



Front & Rear Hubs with Lock Ring

Model HA-300

DURA-ACE

SPECIFICATIONS

Weight: Front 8.5 oz. (240 g) Rear 10.6 oz. (300 g)

Material: Duralumin Type: Solid Axle

Thread: 1.37" x 24 T.P.I. Over Lock Nut Dimensions Front 3.94" (100mm)

Rear 4.33" (110mm), 4.72" (120mm)

Spoke Holes: 28H, 32H, 36H

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

Polished Ball Race

Sprocket for Track Hub

Model FA-200

DURA-ACE

SPECIFICATIONS

Standard Sprocket: 1/2" x 1/8" Chain

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

Material: Chromium Molybdenum Steel

75S Extra Super Duralumin

Teeth: 13, 14, 15, 16.

| | Light Alloy | Steel | |
|----|-------------------|-------------------|--|
| 13 | 0.39 oz. (11.0 g) | 1.07 oz. (30.4 g) | |
| 14 | 0.48 oz. (13.5 g) | 1.36 oz. (38.5 g) | |
| 15 | 0.55 oz. (15.7 g) | 1.67 oz. (47.3 g) | |
| 16 | 0.63 oz. (18.0 g) | 1.89 oz. (53.5 g) | |

Fork Ends

Model NC-100

SHIMANO-SFP

SPECIFICATIONS

Material: Steel

Head Parts Model UA-200

DURA-ACE

SPECIFICATIONS Material: Chromium Bearing Steel

Type: Track Type Polished Ball Race

Front Chainwheel

Model GA-100 (without Bottom Bracket Set) GB-100 (Bottom Bracket Set)

DURA-ACE

SPECIFICATIONS

Material: 75S Extra Super Duralumin

Type: Cotterless

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

Teeth: 45~52T

Crank Lengths: 6-1/2" (165mm), 6-3/4" (170mm), 6-7/8" (175mm) Available by request 6-19/32"(167.5mm), 6-13/16"(172.5mm)

Crank Thread: 9/16" x 20t

Cup Thread: English 1.37" x 24t, French 35 x 1.0, Italian 36 x 24t

Spindle Length: English English BC 1.37"× 24t BC 1.37"×24t Left





600 Series



Rear Derailleur

Model DC-200 SHIMANO-600

SPECIFICATIONS

Capacity: Front Difference: 14 Teeth or Less Rear Largest Sprocket: 28 Teeth or Less

Weight: 9.3 oz. (265 g) Material: Light Alloy (Body) Steel (Cage Plate) Type: Servo Panta Mechanism

Model DC-210

SHIMANO-600GS

SPECIFICATIONS

Capacity: Front Difference: 14 Teeth or Less

Rear Largest Sprocket: 34 Teeth or Less

Weight: 9.9 oz. (280 g) Material: Light Alloy (Body) Steel (Cage Plate) Type: Servo Panta Mechanism

Front Derailleur

Model EC-200

SHIMANO-60

SPECIFICATIONS

Capacity: 14 Teeth or Less Weight: 3.7 oz. (105 g)

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

Type: Lower Inlet Type 1-1/8"

Model EC-210

SHIMANO-60GS

SPECIFICATIONS

Capacity: 18 Teeth or Less Weight: 4.8 oz. (135 a)

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

Type: Lower Inlet Type 1-1/8"

Shifting Lever

Model LB-180

QB-LEVER DX

SPECIFICATIONS

Weight: 3.71 oz. (105 a) Material: Light Alloy Type: Double Lever

Lever Clamp Diameter: 1-1/8"

Caliper Brake

Model BB-300

SHIMANO-600

SPECIFICATIONS

Weight: Front 5.8 oz. (165 g) Rear 5.8 oz. (165 g)

Material: Light Alloy

Type: Side Pull with Quick Release

Model BE-100

CANTILEVER BRAKE

SPECIFICATIONS

Weight: 11.9 oz. (338 g) Material: Light Alloy and Steel With Brake Mounting Shaft Option: Cable Hanger

Brake Lever

Model MB-200

SHIMANO-600

Weight: 5.6 oz. (160 g)/Pair Material: Light Alloy

Type: Hooded Lever with Rubber Cover

Lever Clamp Diameter: 23.80

Cable Parts

Model KB-160 **CABLE GUIDE**

SPECIFICATIONS

Clamp Diameter: 1-1/8"

Material: Steel Use: For 10-Speed

Model KA-110

OUTER STOPPER

SPECIFICATIONS Clamp Diameter: 5/8"

Material: Steel

Brazed on Parts

Model KA-300

CABLE GUIDE

SPECIFICATIONS

Material: Steel

Model KB-300 LEVER AXLE

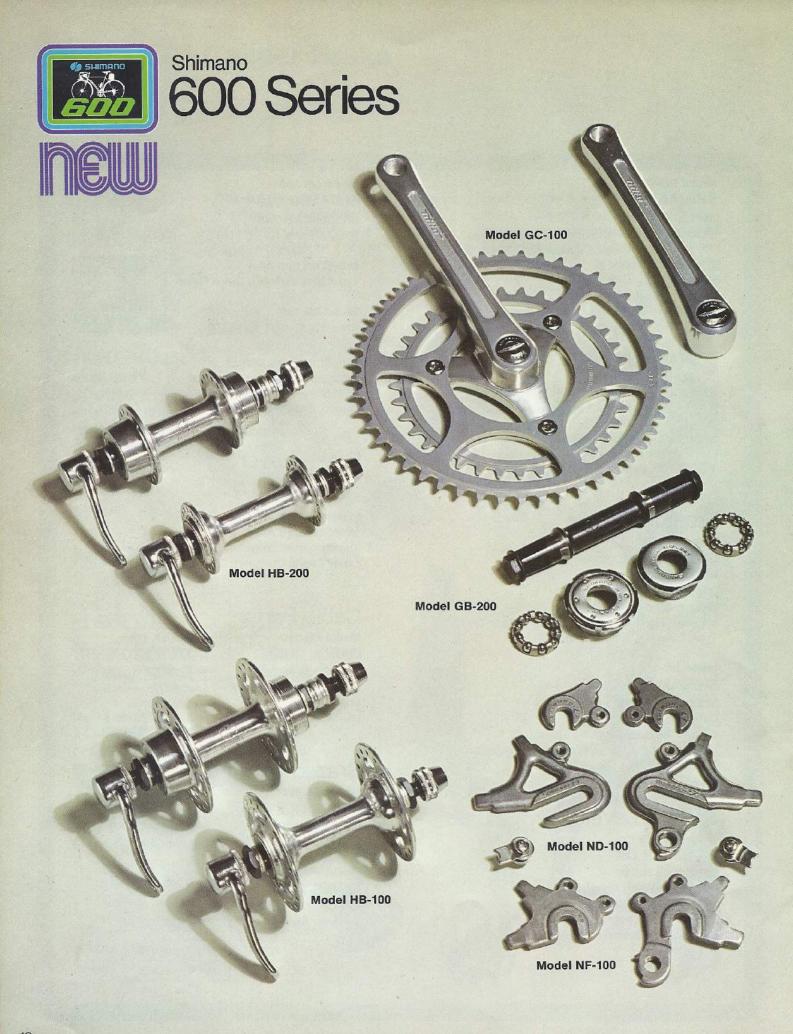
SPECIFICATIONS

Material: Steel

Model KA-310

OUTER STOPPER SPECIFICATIONS

Material: Steel



Light Alloy Hub

Model HB-100 (Large Flange Hub)

SHIMANO-600

Weight: Front 9.7 oz. (275 g) Rear 12.4 oz. (350 g)

Material: Light Alloy Type: Quick Release

Thread: 1.37" x 24 T.P.I (English) Over Lock Nut Dimensions:

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

Spoke Holes: 36H

Model HB-200 (Small Flange Hub)

SHIMANO-600

SPECIFICATIONS

Weight: Front 8.3 oz. (235 g) Rear 12.0 oz. (340 g)

Material: Light Alloy Type: Quick Release Thread: 1.37" x 24 T.P.I (English)

Over Lock Nut Dimensions:

Spoke Holes: 36H

Fork Ends

Model ND-100

SHIMANO-LF

SPECIFICATIONS

Material: Steel

Option: Axle Stopper Set



Model NF-100 SHIMANO-PR

SPECIFICATIONS

Material: Steel



Front Chainwheel

Model GC-100 (without Bottom Bracket Set) GB-200 (Bottom Bracket Set)

SHIMANO-600

SPECIFICATIONS

Material: 17S Duralumin

Type: Cotterless

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

Teeth: 30~53T

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

Crank Thread: 9/16" x 20t Cup Thread: English 1.37" x 24t,

French 35 x 1.0, Italian 36 x 24t

Material of Chain Ring: 14S Super Duralumin

Available by Request Triple Sprocket

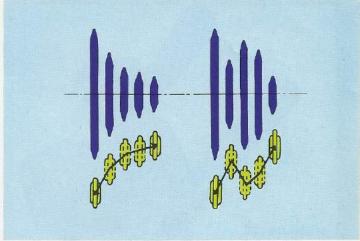


SHIMANO Rear Derailleur









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 remains practically the same. The special automatic 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.

Capacity

A. Front Derailleur Capacity

This represents the range of a front derailleur in terms of the difference in the number of teeth between the largest and the smallest chain rings of the front chainwheel.

EXAMPLE:

Capacity: 14 teeth or less

In this case, the difference should be 14 teeth or less. If it is greater than 15, the front derailleur will not function properly.

B. Rear Derailleur Capacity

This expresses the range of a rear derailleur in terms of the difference in number of teeth between the largest and the smallest chain rings of the front chainwheel and the number of teeth of the largest multiple freewheel sprocket (low side). **EXAMPLE**:

Capacity: Front chainwheel difference: 14 teeth or less
Rear Largest Sprocket: (low side) 28 teeth or
less

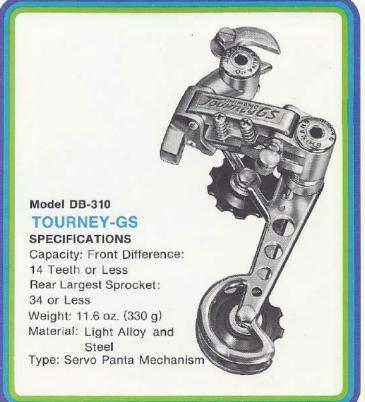
Should this be the case, the difference in tooth number mentioned above must be 14 teeth or less, and the tooth number of the largest multiple freewheel sprocket (low side) 28 or less.

SHIMANO Rear Derailleur

















SHIMANO Rear Derailleur









SHIMANO Front Derailleur



Model EC-100

SHIMANO-50

SPECIFICATIONS

Capacity: 14 Teeth or Less

Weight: 4.4 oz (125g) Material: Steel

Type: Lower Inlet Type 1"
Lower Inlet Type 1-1/8"



Model ED-100

THUNDER BIRD

SPECIFICATIONS

Capacity: 16 Teeth or Less Weight: 6.7 oz. (190 g)

Material: Steel

Type: Upper Inlet Type 1" Upper Inlet Type 1-1/8" Lower Inlet Type 1" Lower Inlet Type 1-1/8"



Model EB-100

TITLIST

SPECIFICATIONS

Capacity: 16 Teeth or Less Weight: 4.9 oz. (140 g)

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

Type: Lower Inlet Type 1-1/8" Lower Inlet Type 1"



Model ED-200

THUNDER BIRD GPO

SPECIFICATIONS

Capacity: 16 Teeth or Less Weight: 6.5 oz. (185 g)

Material: Steel

Type: Upper Inlet Type 1" Upper Inlet Type 1-1/8" Lower Inlet Type 1" Lower Inlet Type 1-1/8"

SHIMANO Shifting Lever







Single

Lever

Material: Light Alloy

Type: Friction Type

Handle Stem

Handle Stem

Tube

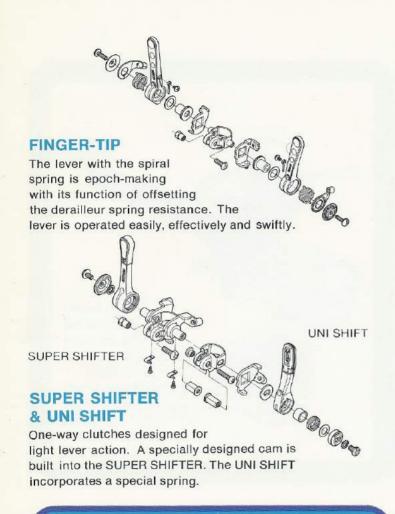
Down and Top

0.833

1-1/8"

0.833



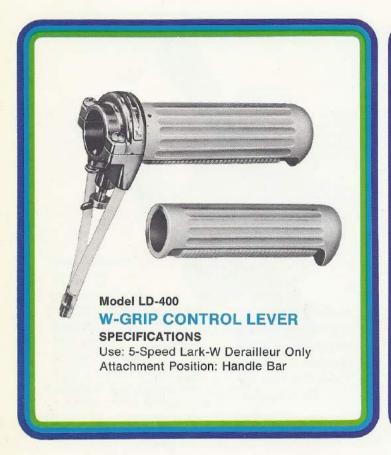








SHIMANO Shifting Lever









SHIMANO Freewheel







Models FC-300 (Standard) FC-330 (with Seal & Top Protector)

MULTIPLE FREEWHEEL

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, 21, 26A, 32AT (LT)

14, 17, 20, 24, 28T

14, 17, 22, 28A, 34AT

14, 17, 22, 27, 32T

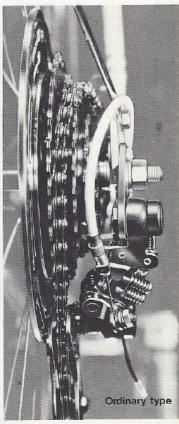
14, 17, 22, 28A, 34AT (LT)

14, 17, 21, 26A, 32AT

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

A new wide range of freewheels has just been introduced by Shimano. This rear cluster has a broad range of gears, for example, starting with 14, and going to 17-22-28 and 34 teeth. Available in Regular Type; with Top Protector, with Seal and Alternate Teeth Type. Easily 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 has been removed. This makes it easier to shift up into these low gears because the chain does not "hang up".







SINGLE FREEWHEEL

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

Sprocket

1/2" x 1/8" x 16 teeth

1/2" x 1/8" x 20 teeth

1/2" x 1/8" x 18 teeth 1/2" x 1/8" x 19 teeth 1/2" x 1/8" x 22 teeth 1/2" x 1/8" x 24 teeth

SHIMANO Hub













SHIMANO Caliper Brake



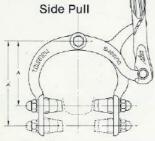
the automatic compensation of the rimbrake shoe clearances which change as brake shoes are worn or the brake wire is

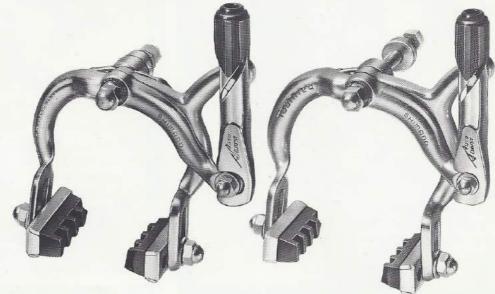
The AUTO ADJUST is designed to execute

stretched. With the AUTO ADJUST, an optimum gap can always be maintained between the brake lever and the handle bar. As a result, greater riding safety is insured.

Auto Adjust Model BB-210 TOURNEY

SPECIFICATIONSMaterial: Light Alloy
Type: Caliper Brake





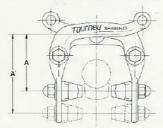
| Туре | A-A' | Weight (Pair) |
|--------|-------------|------------------|
| CS-72A | 54mm — 72mm | 11.5 oz. (325 g) |
| CS-79A | 61mm — 79mm | 11.8 oz. (335 g) |
| CS-88A | 70mm — 88mm | 12.2 oz. (345 g) |

Model BB-110 TOURNEY

SPECIFICATIONS

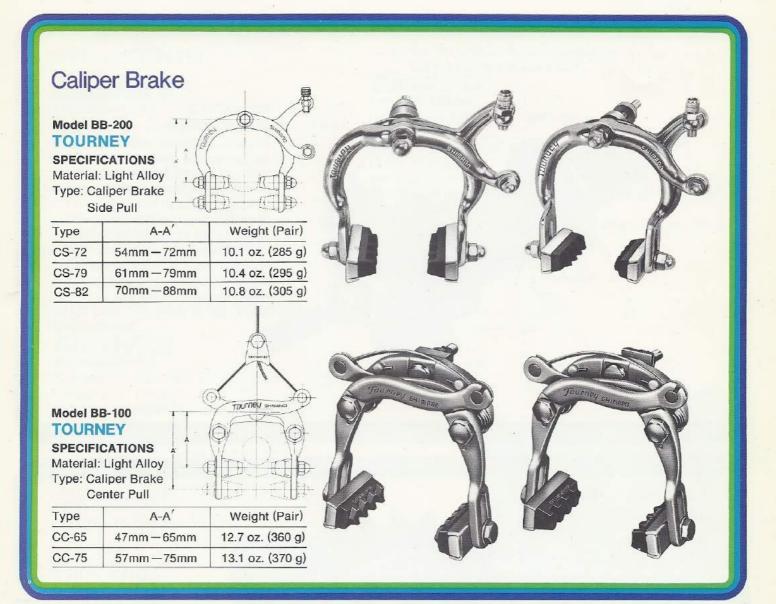
Material: Light Alloy

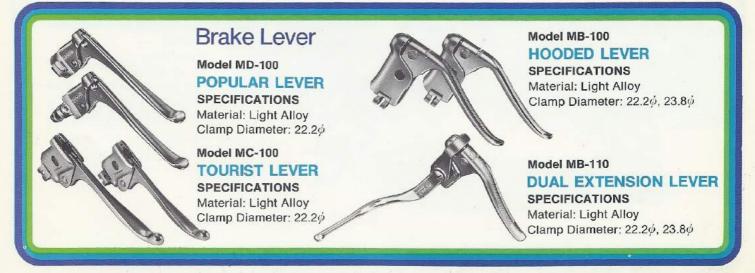
Type: Caliper Brake Center Pull



| Туре | A-A' | Weight (Pair) | | |
|--------|-------------|------------------|--|--|
| CC-65A | 47mm — 65mm | 18.2 oz. (515 g) | | |
| CC-75A | 57mm — 75mm | 18.5 oz. (525 g) | | |







SHIMANO Coaster Brake





SHIMANO Hub Gear



Model TB-100

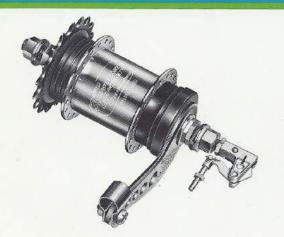
THREE SPEED HUB

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 Over Lock Nut Dimension: 4.37" (110.9mm)

Sprocket: 1/2" x 1/8" Chain Spoke Holes: 28H, 36H



Model TC-100

THREE SPEED COASTER BRAKE CARTRIDGE TYPE

SPECIFICATIONS

Weight: 47.5 oz. (1,320 g) Teeth: 14, 15, 16, 18, 19, 20

Gear Ratio: (H) 1:1.33 (N) 1:1 (L) 1:0.75 Over Lock Nut Dimension: 4.76" (120.0mm)

Sprocket: 1/2" x 1/8" Chain Spoke Holes: 28H, 36H



Model AB-100

AUTOMATIC 2-SPEED HUB

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

SPECIFICATIONS

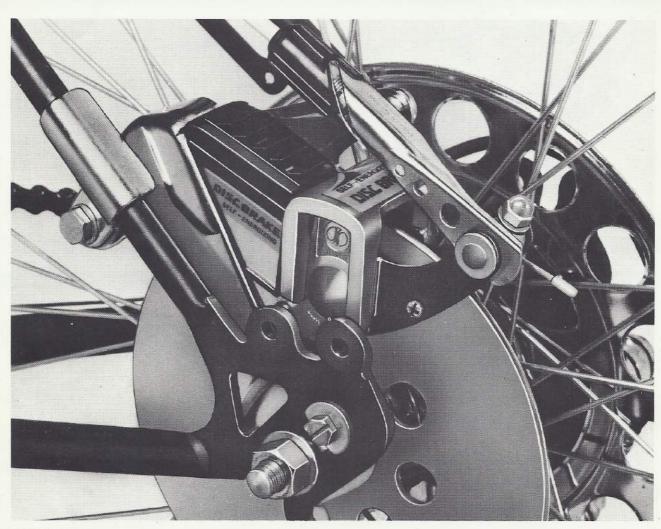
Weight: 49.4 oz. (1,400 g) Teeth: 14, 15, 16, 18, 19, 20 Gear Ratio: (H) 1:1 (L) 1:0.74

Over Lock Nut Dimension: 4.40" (112.0mm)

Sprocket: 1/2" x 1/8" Chain Spoke Holes: 28H, 36H

SHIMANO Disc Brake





Model BC-300

DISC BRAKE WITH AUTO ADJUST 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

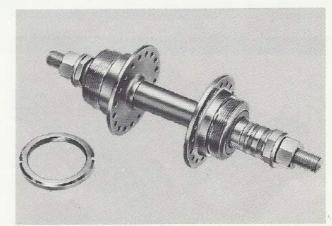
Rain or shine, there is almost no change in braking efficiency, thanks to a unique design. This means greater safety for cyclists.

*Long Pad (Friction Plate) Life

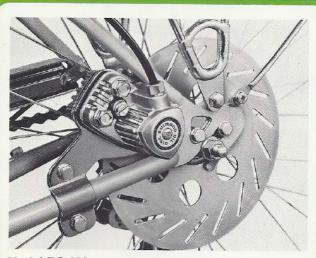
The pads are made of special material to increase wear resistance. Their service life is greatly extended.

*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.



SHIMANO Protector



Model BC-200

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 no danger of skidding or 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

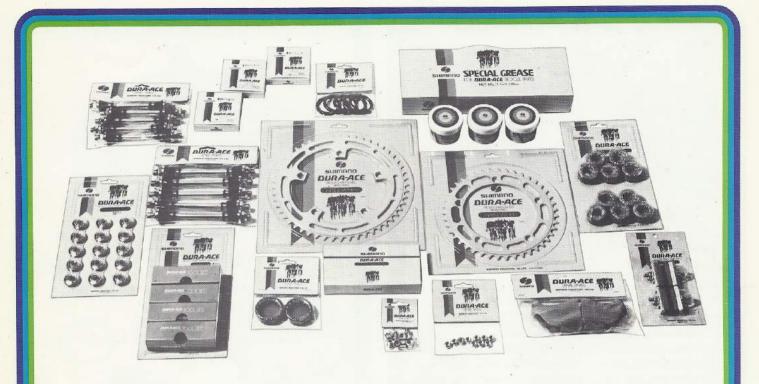
system is strong and resilient.





SHIMANO Small Parts

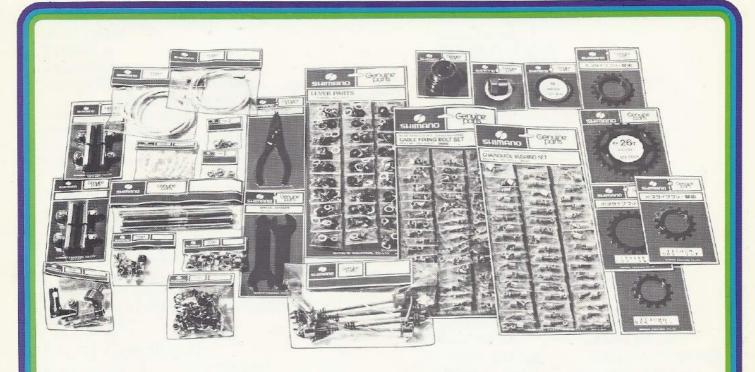




| Item | Package Style | Contents | Q'ty |
|---|---|-----------------------------|------|
| Sprocket for Front Chainwheel | Blister Packed | Sprocket | 1 |
| Brake Shoe Set | Blister Packed | Brake Shoe Complete (left) | 2 |
| | | Brake Shoe Complete (right) | 2 |
| Outer Band Set for Caliper Brake | Polyester Bag | Outer Band | 3 |
| | with Header | Boit | 3 |
| | | Nut | 3 |
| Complete Quick Release Unit for Front Hub | Polyester Bag | Hub Axle Set | 5 |
| (Over Lock Nut Dimension: 100mm) | with Header | Quick Release Set | 5 |
| Complete Quick Release Unit for Rear Hub | Polyester Bag with Header | Hub Axle Set | 5 |
| (Over Lock Nut Dimension: 120mm/ 5-speed, 126mm/6-speed) | with rieader | Quick Release Set | 5 |
| Rubber Cover Set for Brake Lever | Polyester Bag with Header | Rubber Cover Set | 2 |
| Crank Arm Dust Cap for Front Chainwheel | Blister Packed | Crank Arm Dust Cap | 15 |
| Adjusting Bolt, Nut, and Spring for Fork End | Polyester Bag with Header | Adjusting Bolt | 2 |
| | | Nut | 2 |
| | | Spring | 2 |
| Ball Retainer for Head Parts | Special Polyester Case | Ball Retainer | 2 |
| Ball Retainer for Bottom Bracket | Blister Packed | Ball Retainer | 20 |
| Bottom Bracket Spindle Set | Package | Spindle | 1 |
| for Front Chainwheel | | Ball Retainer | 2 |
| | | L.H. Adjustable Cap | 1 |
| * | | Lock Ring | 1 |
| | | R.H. Fixed Cap | 1 |
| | | Spindle Bolt | 2 |
| | | Spindle Washer | 2 |
| Crank Set for Front Chainwheel | Package | Left Crank Arm | 1 |
| | 7-1-1-20-20-20-20-20-20-20-20-20-20-20-20-20- | Right Crank Arm | 1 |
| | | Crank Arm Dust Cap | 2 |
| | | Chainwheel Fixing Bolt | 5 |
| | | Chainwheel Fixing Nut | 5 |

Other small parts are also available.

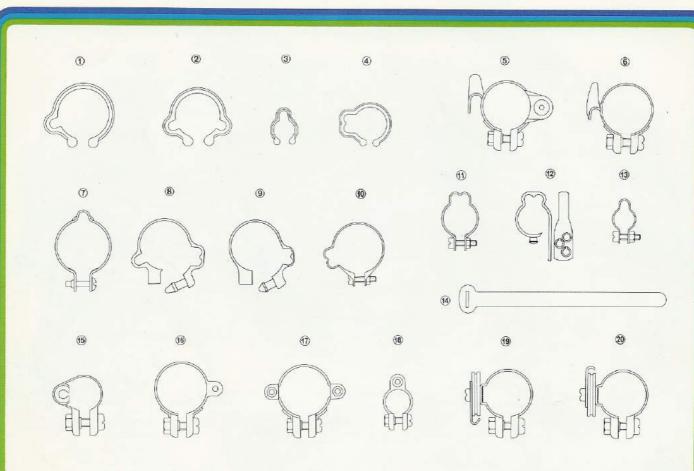




| Item | Package Style | Contents | Q'ty | |
|--|---------------|------------------------------------|------|--|
| Lever Parts | Card | Wing Screw | 30 | |
| | | Spring Washer | 30 | |
| | | Non-Turn Washer | 30 | |
| | | Pressure Plate | 30 | |
| | | Washer | 60 | |
| ulley Set for Rear | Card | Pulley Bushing | 30 | |
| Derailleur | | Pulley | 30 | |
| | | Pulley Cap | 60 | |
| Cable Fixing Bolt Set | Card | Cable Fixing Bolt | 50 | |
| or Rear Derailleur | | Cable Fixing Washer | 50 | |
| | | Cable Fixing Nut | 50 | |
| dapter Screw Set | Card | Adapter Nut | 50 | |
| or Rear Derailleur | | Adapter Screw | 50 | |
| Perailleur Cap Set | Card | Derailleur Cap | 100 | |
| Cable Fixing Bolt Set | Card | Cable Fixing Bolt | 50 | |
| | | Cable Fixing Nut | 50 | |
| | | Cable Fixing Washer | 50 | |
| Chain Guide Bushing Set | Card | Chain Guide Spacer Bolt | 50 | |
| | | Chain Guide Spacer | 50 | |
| | | Toothed Lock Washer | 50 | |
| | | Nut | 50 | |
| Brake Shoe Set for Caliper Brake | Card | Brake Shoe Complete (left) | 10 | |
| | | Brake Shoe Complete (right) | 10 | |
| | Card | Cable Anchor Bolt | 50 | |
| | | Washer | 50 | |
| make (Tourney) | | Cap Nut | 50 | |
| Cable Anchor Set for Side Pull Caliper Brake (Tourney) | | (right) Cable Anchor Bolt Washer | | |

| Item | Package Style | Contents | Q'ty | |
|--|------------------------------|---|------|--|
| Cable Carrier Set for | Card | Cable Anchor Bolt | 50 | |
| Center Pull Caliper | | Cable Carrier | 50 | |
| Brake (Tourney) | | Cable Anchor Washer | 50 | |
| | | Cable Anchor Nut | 50 | |
| Outer Band Set for | Card | Outer Band | 60 | |
| Caliper Brake(Tourney) | | Screw | 60 | |
| Outer Clip Set for Caliper Brake | Card | Outer Clip | 60 | |
| Bell Crank Set for | Card | Bell Crank | 20 | |
| Three-Speed Hub | | Bell Crank Lock Nut | 20 | |
| Three-Speed Hub Axle | Polyester Bag with Header | Three-Speed Hub Axle | 1 | |
| Tension Spring for | Polyester Bag | P-Tension Spring | 1 | |
| Rear Derailleur | with Header | B-Tension Spring | 1 | |
| Wing Nut for Hub | Polyester Bag with Header | Wing Nut for Front Hub BC 5/16" | 2 | |
| | | Wing Nut for Rear Hub BC 3/8" | 2 | |
| Complete Quick Release Unit for Hub Over Lock Nut Dimen- sion: 96mm (Front) 124mm (Rear) | Polyester Bag | Complete Quick Release Unit (Front or Rear) | 10 | |
| Hub Axle Set | Polyester Bag | Hub Axle Set (Front or Rear) | 10 | |
| Sprocket for Multiple Freewheel | Vacuum Packed | Sprocket | 1 | |

SHIMANO Outer Band



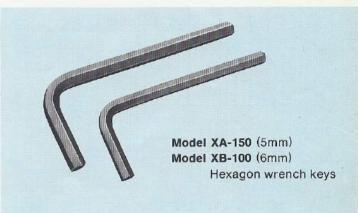
| Item No. | Part No. | Description | Item No. | Part No. | Description | and the same |
|----------|----------|--|----------|----------|--|-----------------|
| ① | 62010700 | Outer Clip 1-1/8" (28 | 6) ① | 65191060 | Outer Band | 5/8" (15.9) |
| | 62010500 | Outer Clip 1" (25 | 4) (2) | 68713000 | Outer Band for Positron | φ15, φ16, φ17.5 |
| 2 | 62010800 | Outer Clip 1-1/8" (28 | 6) | 68713010 | Outer Band for Positron (Black) | φ15, φ16, φ17.5 |
| | 62010600 | Outer Clip 1" (25 | 4) | 68713020 | Outer Band for Positron | φ19, φ22.2 |
| (3) | 62010400 | Outer Clip 7/8" (22 | 2) | 68713030 | Outer Band for Positron (Black) | φ19, φ22.2 |
| | 62010300 | Outer Clip 3/4" (19 | 0) (13) | 65191070 | Outer Band | 1/2" (12.7) |
| | 62010200 | Outer Clip 5/8" (15 | 9) | 65191080 | Outer Band | 7/16" (11.1) |
| | 62010100 | Outer Clip 1/2" (12 | 7) (4) | 61105010 | Almi Band | 5.9" (150) |
| 4 | 62011100 | Outer Clip 1" (25 | 4) | 61105000 | Almi Band | 4.52" (115) |
| | 62011000 | Outer Clip 3/4" (19 | 0) | 61106000 | Almi Band | 3.14" (80) |
| (5) | 62291101 | Cable Guide 1-1/8" (28 | 1 29 | 61190052 | Stopper Band | 1-1/8" (28.6) |
| | 68719010 | Cable Guide 1-1/8" (28 | | 61190062 | Stopper Band | 1" (25.4) |
| 6 | 62290101 | Cable Guide 1-1/8" (28 | 6) | 61190101 | Stopper Band | 3/4" (19.0) |
| | 68719000 | Cable Guide 1-1/8" (28 | 6) | 61190111 | Stopper Band | 11/16" (17.5) |
| 7 | 83190110 | Outer Band 1" (25 | 4) | 64390441 | Stopper Band | 5/8" (15.9) |
| (8) | 68711010 | Outer Band for Positron 1" (25 | 4) | 64390451 | Stopper Band | 1/2" (12.7) |
| | 68711030 | Outer Band for Positron (Black) 1" (25 | 4) (6) | 62291061 | Outer Stopper | 1-1/8" (28.6) |
| | 68712010 | Outer Band for Positron 1-1/8" (28 | .6) | 68720000 | Outer Stopper for Positron | 1-1/8" (28.6) |
| | 68712030 | Outer Band for Positron (Black) 1-1/8" (28 | 6) (17) | 62291061 | Outer Stopper | 1-1/8" (28.6) |
| 9 | 68711000 | Outer Band for Positron 1" (25 | 4) | 68720010 | Outer Stopper for Positron | 1-1/8" (28.6) |
| | 68711020 | Outer Band for Positron 1" (25 | | 62291141 | Outer Stopper | 5/8" (15.9 |
| | 68712000 | Outer Band for Positron 1-1/8" (28 | .6) | 68717000 | Outer Stopper for Positron | 5/8" (15.9 |
| | 68712020 | Outer Band for Positron 1-1/8" (28 | .6) (19) | 61190011 | Guide Roller | 1-1/8" (28.6 |
| (1) | 65191040 | Outer Band 1-1/8" (28 | .6) 20 | 61190022 | Guide Roller | 1" (25.4 |
| | 65191030 | Outer Band 1" (25 | | | And the Control of th | |

SHIMANO Special Tool

















Model XB-320 Tool for removing ball cup for Three Speed Hub



Model XA-130 Cotterless crank extractor



Model XA-120 DURA-ACE Grease



Model XA-140 Chainwheel screw peg spanner

SHIMANO INDUSTRIAL CO., LTD.

Established: February, 1921

Capital: ¥1,932,612,000 (about \$6,442,000)

Number of Employees: 1,200

Head Office and Main Plant:

Shimano Industrial Co., Ltd.

3-77 Oimatsucho, Sakai, Osaka, Japan

Total Area: 37,308 sq. meters

Plant: 36,247 sq. meters

Tokyo Office:

Shimano Industrial Co., Ltd.

1-17-17 Omori-Minami, Ohtaku, Tokyo, Japan

Nagoya Office:

Shimano Industrial Co., Ltd.

2-37-1 Otobashidori, Nakagawaku, Nagoya,

Japan

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California 91352

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Germany

TEL: 372007/08

TELEX: 8587249 SEGH D

Shimonoseki Plant:

Shimano Yamaguchi Co., Ltd.

1414 Higashishinden, Ozukicho,

Shimonoseki, Yamaguchi, Japan

Total Area: 127,303 sq. meters

Plant: 12,163 sq. meters

Singapore Plant:

Shimano (Singapore) Pte. Ltd.

Lot A3014 at Benoi Sector, Jurong Town,

Singapore

Tokyo Plant:

Shimano Adachi Co., Ltd.

1-50-26 Ogimachi, Adachiku, Tokyo, Japan

Total Area: 386 sq. meters

Plant: 317 sq. meters

Service Centers (Fishing Tackle):

Sapporo, Sendai, Tokyo, Nagoya,

Tokushima, Fukuoka, Hiroshima, Osaka

NFT:

Nippon Fishing Tackle Co., Ltd.

2-37-5 Kamiuma, Setagayaku, Tokyo, Japan



SHIMANO SALES CORPORATION SHIMANO AMERICAN CORPORATION SHIMANO (EUROPA) GmbH. SHIMANO INDUSTRIAL CO., LTD.