

SHIMANO COASTER BRAKE PARTS INTERCHANGEABILITY

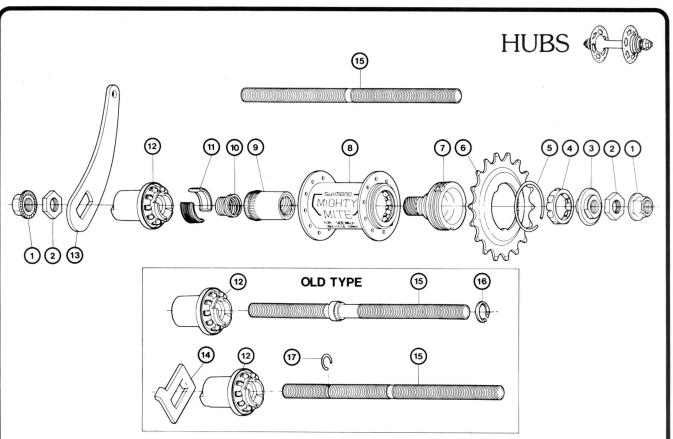


Vertical line between numbers indicate parts are not interchangeable.

		Е Туре		D Type		В Туре		А Туре			
								Moo	lel 42 ¹	Mod	lel 451
1. Flange Nut		286	1500	282	3000	282	3000	282	3000	282	3000
2. Arm Nut	An address of the second s	283	0900-1	283	0900-1	283	0900	282	2400	282	2400
3. Arm Washe	r	283	1600-1	283	1600-1	283	1600				
4. Brake Arm		286	1400	283	1405-1	283	1400	282	2100	282	2100
5. Left-Hand I	Dust Cap	286	1100	283	1300-1	283	1300	282	1900	282	1900
6. Ball Retain		282	9005	282	9005	282	9005	282	9005	282	9005
7. Brake Cone		286	0800	283	1100	283	1100		1600		1600
8. Clutch Spri	3. Clutch Spring		The survey of th	283	9033	283	0600	282	2500	282	2500
	9. Shoe Spring						282		282	2300	
10. Brake Shoe		286	9806	283	1000	283	1000	282	1500		1500
11. Clutch Was			AND CHARGE STREET	283	1500	283	1500			NUMBER OF STREET	
12. Clutch Cone				283	1200	283	1200	282	1400-1	282	1400-1
12a. Clutch Cone Unit		286	9805	283	9801					_0_	11001
	24 holes @ 2.5 mm	Contraction of the second second	7000	283	9012	283	9012		A TOR A DAMAGE		
13. Hub Shen	28 holes @ 2.8 mm			283	9003	283	9003	282	9001	282	9001
	28 holes @ 3.2 mm		Electron April	283	9004	283	9004	202	Design of the	202	2001
	36 holes @ 2.8 mm	经书记上代 计空间相关数据 化力		283	9005	283	9005	282	9003	282	9003
	20 holes			205	7005	205	7005	282	9002	282	9002
14. Driver	20 110103	286	0400	283	0700	283	0700	282	1300-11	282	1301-1
15. Ball Retain	er Δ	321	9022	321	9022	321	9022	321	9022	321	9022
16. Right-Hand		286		282	2000	282	2000	1 282	0510 ¹	282	3100 ¹
17. Sprocket ²			0300	321	0300	321	0300	321		321	
II. Spiceket	15T		0300	321	0300	321	0300	321	0310	321	0310
	151	flat		flat		flat		dished		dished	
	16T	- contractor to an	0320	and the state of t	0320		0320	321	0320	321	0320
	101 17T	321	0320	321	0320	321	0320	MANDER AND	0320	100000000000000000000000000000000000000	0320
	171 18T	322	0330	321	0330	321	0340	321 321	0330	321 321	0330
	19T		0340	322	0340	322	0340	321			
	20T	HER CLEMEN	CARRY OF SUPPORT OF TIME			ENG/YOUNDER FOR	ANAL CONTERPORT BUILDING	110100000000000000000000000000000000000	0350	321	0350
10 Casa Dia 2	201	322		322	0360	322	0360	321	0360	321	0360
18. Snap Ring ²		321	2000	321	2000	321	2000	321	2000	321	2000
19. Cone with I	Just Cap	286	9807	281	9013	281	9013	281	9013	281	9013
20. Locknut	150 (5.000)	281	2100	281	2100	281	2100	281	2100	281	2100
21. Hub Axle Internal Kit	150 mm (5.90")	CARACTER STREET	STRANTSHALLS READED					282	1203	282	1203
	158 mm (6½2")	HERE		283	0504	283	0504				
	163 mm (6 ¹ ³ / ₂ ")	283	0501	283	0501	283	0501	282	1200	282	1200
	165 mm (6½")	286	0130		New Address of the Address of the	10.00 L			Constantine Constantine Constantine	an and all respects of the	
	170 mm (6 ¹ / ₁₆ ")	283	0503	283	0503	283	0503	282	1202	282	1202
	t 163 mm (6 ^{13/3} ")			281	9024						A.
	165 mm (6½")	286	9801	-							
	170 mm (611/16")	Manager Tarley	and the second	281	9025	ALL AND DESCRIPTION	Links and the Tiller				and the state

¹Model 45 was used by Ross (Chain Bike Corporation). 45 indicates the chainline in millimeters from hub center to sprocket center.

²See Sproket Interchangeability at beginning of Hub section.



SHIMANO MIGHTY MITE COASTER BRAKE PARTS INTERCHANGEABILITY

Vertical line between numbers indicates parts are not interchangeable.

Parts are interchangeable only if they are on the same line and they do not have a vertical line between them.

Item #			Туре	Old Type with brake plate		with	Type serrated a plate
I.	Flange Nut	282	30001	282	30001	282	30001
2.	Locknut	281	21001	281	21001	281	2100 ¹
3.	Cone with Dust Cap	284	9005	284	9005	284	9005
4.	Ball Retainer	321	90221	321	90221	321	
5.	Snap Ring ²	Contraction and a second		5 - 24 F - 19 - 19 - 19 F -	an an an an ann an an an an an an an an	AN DE BETRETE FORDER D	n nev zazi zazi zazi zazi zazi zazi zazi zaz
6.	Sprockets ²						
7.	Driver	284	1500	284	1500	284	1500
8.	Hub Shell 24 holes	284	9003	284	9003	284	9003
9.	Clutch Cone	284	1300	284	1300	284	1300
10.	Clutch Spring	284	1101	284	1100	284	1100
11.	Brake Shoe	284	1200	284	1200	284	1200
12.	Brake Cone with Ball Retainer	284	9020	284	9002	284	9004
13.	Brake Arm	284	2100			CYPE ST	
14.	Brake Plate	1996-117-00-099-001 9 38-000-93	AL MERICAL ALL ST. SEC. ST. ST. SALE AN	284	0601	r (* 1855) en de Therred	n on her. I al en
15.	Hub Axle 155 mm	284	0511				
1947年1月1日	163 mm	CONTRACTOR AND ADDRESS OF TAXABLE	0512	284	0501	284	0506
	187 mm	284	0513	284	0502	284	0507
16.	Lock Ring					284	1600
17.	Snap Ring B		Sec. 1	284	0700	相称的问题	

¹Interchangeable with Shimano B and D type.

²See Sprocket Interchangeability at beginning of Hub section.



1

Next Step

DISASSEMBLY

Note the distance that axle protrudes at each end of hub. Remove locknut, cone, small ball retainer (A), driver and large ball retainer (C).¹

2)DISASSEMBLY

Lift off hub shell.

and clutch cone

assembly.

Type B Only²

Lift off hub shell.

To remove clutch

cone, washer and

clutch spring, pull

cone while turning

counter-clockwise.

and washer without

spring, pull and turn

Type A

Remove large ball retainer C

Type E Only

(not shown).

To remove cone

clockwise.

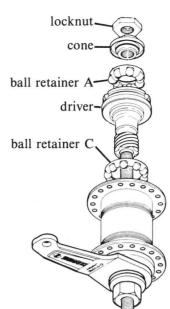
clutch

assembly

cone

Remove brake shoes

Type A, Type D and Type E Only



hub shell

spring holder

brake

shoes

Type D and Type E

clutch cone assembly

clutch cone

brake shoes

clutch spring

Next Step

Next Page

washer

SHIMANO TYPE A, B, D AND E COASTER BRAKES DISASSEMBLY AND ASEMBLY (cont.)

Replace large ball retainer $(C)^1$ flat side up. Install driver and small ball retainer (A) flat side up. Install cone and locknut and adjust bearing.

ASSEMBLY 3



Seat greased brake shoes between brake cone tabs. Position hub shell *straight-sided opening down* and slip over assembly.

Type E Only

Place large ball retainer C *flat side down* on brake core.

Type A Only

Slip clutch cone assembly over axle.

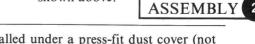
Type B Only

Insert clutch washer and large end of spring in smooth end of clutch cone with a *clockwise* turning motion. Advance spring along axle, push clutch cone and turn assembly *counter-clockwise*. Continue until spring touches brake cone.

Type D and Type E Only

spring holder seats between brake cone tabs

Slip clutch cone assembly over axle seating spring holder *between* brake cone tabs as shown above.



¹ On Mighty Mite coaster brake large ball retainer is installed under a press-fit dust cover (not shown). Remove carefully with a thin-bladed screwdriver. To install, start straight by hand and tap home with a soft hammer.

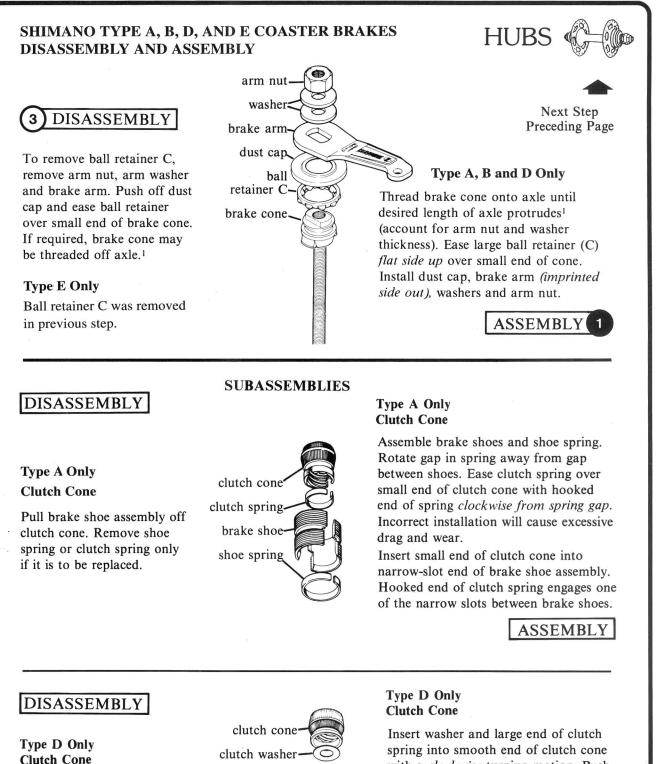
tab

brake

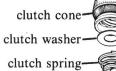
cone

² Mighty Mite is similar to Type B.

Type B



Pull spring holder free with a counter-clockwise turning motion. Pull clutch cone free with a *clockwise* turning motion. Remove clutch washer.



spring holder

with a *clockwise* turning motion. Push spring holder into small end of clutch spring with a *counter-clockwise* turning motion.

ASSEMBLY

On old type Mighty Mite with a snap ring on the axle, cone is tightened against the snap ring. To remove, loosen by threading cone inward ½ turn, remove snap ring and thread cone off axle. To install, thread cone past snap ring groove, install snap ring and turn cone back until tightened against ring.

SUTHERLAND'S HANDBOOK OF COASTER BRAKES AND INTERNALLY-GEARED HUBS



SHIMANO TYPE A, B, D AND E COASTER BRAKES DISASSEMBLY AND ASSEMBLY (cont.)

CLEANING

Clean all parts, including outside of hub shell, in a suitable solvent. Be very careful not to introduce dirt or grit after cleaning.

POINTS TO CHECK

Numbers in parenthesis refer to parts chart and exploded drawing.

- 1. Mating threads of clutch cone (12) and driver (14) for wear and chipping
- 2. Conical surface of inside of hub shell and outside of clutch cone (12) for wear and burring
- 3. Clutch spring (8) for shape and tension
- 4. Brake shoe (10) and hub shell mating surfaces for wear or glazing
- 5. All threaded parts for damaged or stripped threads
- 6. Dustcaps and bearing retainers for straightness
- 7. All bearing races and balls for wear or pitting

Lubricate ball retainers by filling the spaces between balls with grease. Lubricate hub shell and brake shoes liberally with a hightemperature grease. Grease other internal parts.