

same line and they do not have a vertical line between them.

Item	#	NK	New Departure	Mattatuck
	Axle Nut	NK 88	HD-13	E-13
2.	Washer	NK 87	HD-14	E-14
3.	Arm Lock Nut	NK 82	HD-15	E-15
	Brake Arm	NK 75	HD-10	E-10
5.	Dust Cap, brake arm side	NK 80	HD-32	E-32
6.	Brake Disc Holder	NK 68	HD-22	E-22
7.	Ball Retainer	NK 76	HD-16	E-16
8.	Brake Discs (17 discs per set) ¹	NK 723	HD-278	E-278
9.	Brake Clutch	NK 71	HD-6	E-6
10 . 11.	Clutch Band (Transfer Spring) Screw Cone (Clutch Sleeve)	NK 78	HD-12	E-12
	9 thread	NK 96		
	3 thread	NK 70 (rare)	HD-3	E-3
	Ball Retainer (10 - $\frac{1}{4}''$ balls)	NK 76	HD-20	E-16
13.	Driver			ALC: TO DESCRIPTION AND A DESCRIPTION OF THE OWNER
	9 thread (for 3 lug sprockets)	NK 95		
	3 thread (for 3 lug sprockets)	NK 90 (rare)		E-2
	3 thread (for screw-on sprockets)		HD-2	
		NK 77	HD-20	E-20
	Dust Cap, driver ²	NK 94	-	E-31-5
	Dust Cap, sprocket side	NK 93 ³	HD-31	E-31 ³
17.	Sprocket (threaded)	相關的是一下和關節與行	HD-17	
	Sprocket (3 lug) 20 teeth	NK 921		
	19 teeth	NK 922	TO MARK THE CASE AND ADDRESS TO ADDRES	
	18 teeth	NK 923		
	16 teeth	NK 925		
	14 teeth	NK 927	enter a la companya de la companya d	
18.	Sprocket Lock Ring	NK 91		E-5-5
	Sprocket Locknut (left threaded)	5	HD-5	
	Adjusting Cone	NK 74	HD-7	E-7
	Cone Locknut	NK 99	HD-15 ²	E-15
	Axle $6\frac{1}{4}''$ $6\frac{3}{4}''$	NK 671 NK 672	HD-4	E-4

¹ Some New Departure hubs use 21 and 23 discs. Total thickness should be approximately $\frac{3}{4}$ " (19 mm). ² On New Departure hubs driver dust cap is part of cone locknut.

³ These two parts interchange.

NK-SUPER M	IODEL 120 COAS	TER BRAK	E	HUI	as
1. Flange Nut		S120-1 ¹ S120-2 ¹	13. Hub Shell	32 holes @ 2.5	the second s
2. Arm Nut		S120-2 ¹	13. Hub Shell (cont.)	36 holes @ 2.5	mm S120-136
		S120-2 ¹ S120-3 ¹		36 holes @ 2.5 36 holes @ 3.2	mm S120-136 mm S120-137
 Arm Nut Arm Washer Brake Arm Left-Hand E 	Dust Cap	S120-2 ¹		36 holes @ 2.5	mm S120-136 mm S120-137 mm S120-138
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine 	Dust Cap	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹	(cont.) 14. Driver	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14 ¹
 Arm Nut Arm Washer Brake Arm Left-Hand D Ball Retaine Brake Cone 	Dust Cap er C	\$120-2 ¹ \$120-3 ¹ \$120-4 \$120-5 \$120-6 ¹ \$120-7	(cont.) 14. Driver 15. Ball Retaine	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14 ¹ S120-15 ¹
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprir 	Dust Cap er C	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 er A Dust Cap	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprin Brake Shoe 	Dust Cap er C ng	\$120-2 ¹ \$120-3 ¹ \$120-4 \$120-5 \$120-6 ¹ \$120-7 \$120-8 \$120-9 ¹	(cont.) 14. Driver 15. Ball Retaine	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 er A Dust Cap 14T	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprir 	Dust Cap er C 1g 152 mm	\$120-2 ¹ \$120-3 ¹ \$120-4 \$120-5 \$120-6 ¹ \$120-7 \$120-8 \$120-9 ¹ \$120-101 ¹	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 er A Dust Cap 14T 16T	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171' S120-172'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprin Brake Shoe 	Dust Cap er C 1g 152 mm 160 mm	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 er A Dust Cap 14T 16T 18T	mm S120-136 mm S120-137 mm S120-138 mm S120-138 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprin Brake Shoe 	Dust Cap er C 19 152 mm 160 mm 163 mm	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹ S120-103 ¹	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 rr A Dust Cap 14T 16T 18T 19T	mm S120-136 mm S120-137 mm S120-138 mm S120-138 S120-14' S120-15' S120-16 S120-171' S120-172' S120-172' S120-173' S120-174'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprint Brake Shoe Hub Axle 	Dust Cap er C 152 mm 160 mm 163 mm 170 mm	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹ S120-103 ¹ S120-104 ¹	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.2 40 holes @ 2.5 r A Dust Cap 14T 16T 18T 19T 20T	mm S120-136 mm S120-137 mm S120-138 mm S120-138 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-173' S120-174' S120-175'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprint Brake Shoe Hub Axle 11. Arm Clip Set	Dust Cap er C 152 mm 160 mm 163 mm 170 mm et (flat)	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹ S120-103 ¹ S120-104 ¹ S120-11	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand 17. Sprocket ²	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 rr A Dust Cap 14T 16T 18T 19T	mm S120-136 mm S120-137 mm S120-138 mm S120-138 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-174' S120-175' S120-176'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprint Brake Shoe Hub Axle 11. Arm Clip Set 12. Clutch Cone	Dust Cap er C 19g 152 mm 160 mm 163 mm 170 mm et (flat)	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹ S120-103 ¹ S120-104 ¹ S120-11 S120-12	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand 17. Sprocket ² 18. Snap Ring	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 r A Dust Cap 14T 16T 18T 19T 20T 22T	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-174' S120-175' S120-176' S120-18'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprint Brake Shoe Hub Axle 11. Arm Clip Set	Dust Cap or C 152 mm 160 mm 163 mm 170 mm et (flat) 5 16 holes @ 2.5 mm	S120-2 ¹ S120-3 ¹ S120-4 S120-5 S120-6 ¹ S120-7 S120-8 S120-9 ¹ S120-101 ¹ S120-102 ¹ S120-103 ¹ S120-104 ¹ S120-11 S120-12 S120-130	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand 17. Sprocket ² 18. Snap Ring 19. Cone with D	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 r A Dust Cap 14T 16T 18T 19T 20T 22T	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-174' S120-174' S120-175' S120-176' S120-18' S120-19'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprin Brake Shoe Hub Axle 11. Arm Clip Se 12. Clutch Cone	Dust Cap or C 152 mm 160 mm 163 mm 170 mm et (flat) 16 holes @ 2.5 mm 20 holes @ 2.5 mm	S120-2' S120-3' S120-4 S120-5 S120-6' S120-7 S120-8 S120-9' S120-101' S120-102' S120-103' S120-104' S120-11 S120-12 S120-130 S120-131	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand 17. Sprocket ² 18. Snap Ring 19. Cone with D 20. Locknut	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 r A Dust Cap 14T 16T 18T 19T 20T 22T	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-174' S120-175' S120-176' S120-18' S120-19' S120-20'
 Arm Nut Arm Washer Brake Arm Left-Hand E Ball Retaine Brake Cone Clutch Sprint Brake Shoe Hub Axle 11. Arm Clip Set 12. Clutch Cone	Dust Cap or C 152 mm 160 mm 163 mm 170 mm et (flat) 5 16 holes @ 2.5 mm	S120-2' S120-3' S120-4 S120-5 S120-6' S120-7 S120-8 S120-9' S120-101' S120-102' S120-103' S120-104' S120-11 S120-12 S120-130 S120-131 S120-132	(cont.) 14. Driver 15. Ball Retaine 16. Right-Hand 17. Sprocket ² 18. Snap Ring 19. Cone with D	36 holes @ 2.5 36 holes @ 3.2 36 holes @ 3.8 40 holes @ 2.5 er A Dust Cap 14T 16T 18T 19T 20T 22T Dust Cap	mm S120-136 mm S120-137 mm S120-138 mm S120-139 S120-14' S120-15' S120-16 S120-171' S120-172' S120-173' S120-174' S120-174' S120-175' S120-176' S120-18' S120-19'

Part is interchangeable with Shimano Model D.

²See Sprocket Interchangeability at beginning of Hub section.

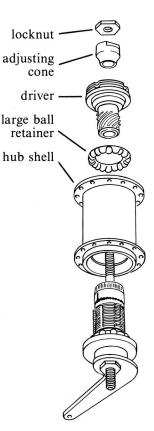
RED HUBS



NK MULTIPLE DISC COASTER BRAKE DISASSEMBLY AND ASSEMBLY

1 DISASSEMBLY

Remove right-hand locknut and adjusting cone. Rotate driver counter-clockwise and remove. Remove large ball retainer and lift off hub shell.



Install large ball retainer *flat side up*. Install driver, adjusting cone and locknut. Adjust bearing.

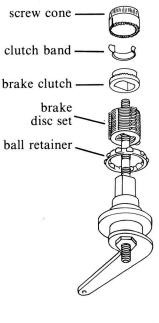
Make sure brake disc tabs are still aligned. Align slots in hub shell with tabs and slip hub over assembly. When hub is correctly seated, brake-arm-side ball retainer is not visible behind dust cap. If hub does not seat properly, lift off and repeat this step.





2 DISASSEMBLY

Remove screw cone and brake clutch. Remove clutch band from brake clutch only if necessary. Remove brake discs and ball retainer.



Next Step

Position axle brake arm side down. Install ball retainer flat side down. Install one non-turn brake disc over brake holder flats. Install remaining brake discs, alternating tabbed and non-turn discs. Align tabs. Reinstall clutch band on brake clutch if required. Viewed from above, hooked end of clutch band must be clockwise from clutch band gap or excessive drag and wear will result. Install brake clutch clutch band up. Install screw cone with slot engaging hooked end of clutch band.

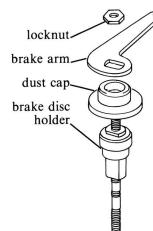


Next Step Next Page

NK MULTIPLE DISC COASTER BRAKE DISASSEMBLY AND ASSEMBLY (cont.)

3 DISASSEMBLY

Remove brake-end locknut, brake arm, dust cap and brake disc holder.



HUBS

Next Step Preceding Page

Thread brake holder onto one end of axle far enough to cover half of ridged central section. Install dust cap and brake arm, *imprinted side out*. Install locknut, tighten while holding brake arm stationary.



DISASSEMBLY

Driver

Remove dust cover with a thin-bladed screwdriver. Work slowly around cover to avoid deforming it. Lift out ball retainer. dust cap ball retainer

SUBASSEMBLY

Driver

Install ball retainer flat side up. Start dust cover straight and tap home with a soft hammer.

ASSEMBLY

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 screw cone (11) and driver (13) for wear and chipping
- 2. Conical surface of inside of hub shell and outside of screw cone (11) for wear and burring
- 3. Clutch band (10) for shape and tension
- 4. Retarder assembly (9-11) for wear or burring of toothed mating surfaces

- 5. Brake disks (8) for burring, wear, or excessive polishing
- 6. Brake disc (8) tabs and flatted holes for wear
- 7. All threaded parts for damaged or stripped threads
- 8. Dustcaps and bearing retainers for straightness

LUBRICATION

Lubricate ball retainers by filling the spaces between balls with grease. Lubricate hub shell and brake disc set liberally with a high-temperature grease. Grease other internal parts.