

# SACHS (F&S) COASTER BRAKES 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.

		Sachs Jet	Komet Super	Komet Super	Torpedo Boy (Pixie F & S Boy)	Torpedo Boy (New Part Numbers)
1.	Axle Nuts (2)					
	3/8 x 26 TPI <sup>2</sup>	0316 061 004	T 93	T 93	T 93	0316 061 004
	$\frac{3}{8}$ x 24 TPI <sup>2</sup>	1603 026 000	T 93A	T 93A	T 93A	1603 026 000A
2.	Lock Nuts					
	3/8 x 26 TPI <sup>2</sup>	1603 017 100	K 102	K 102	K 102	1603 017 000
	$\frac{3}{8} \times 24 \text{ TPI}^2$	1603 019 000	K 102A	K 102A	K 102A	1603 019 000A
3.	Washer	2318 003 000		T 77	T 77	
4.	Brake Arm	2319 004 100	K 108	K 108	J 108	2319 001 100
5.	Brake Cone / Dust Cap /					
	Ball Retainer Assembly					
	3/8 x 26 TPI <sup>2</sup>					2307 001 100
	3/8 x 24 TPI <sup>2</sup>		K 161/2A			<b>■</b> 2374 004 001A
6.	Dust Cap	2321 006 000	IK 161/1	K 104	IJ 104	2321 001 000
7.	Brake Cone					
	3/8 x 26 TPI <sup>2</sup>	2374 006 1004		K 101	J 101	
	3/8 x 24 TPI <sup>2</sup>	2307 003 101		K 101A		
8.	Ball Retainer		Star S 2051	K 106 (Star K 91)	J 106 (Star 130)	2376 001 200
9.	Brake Cylinder	2373 002 0005	IK 113	K 113	J 113	2373 001 000
Mary Tradesis	Spring for Brake Cylinder		K 113A	K 113A		
10.	Driving Cone	2306 002 1005	K 107	K 107	J 107	2306 001 000
11.	Ball Retainer	2376 002 0015	K 161/4	K 105	J 106	
DALLO SY PUZZO		Star 0103-247	S 2050	Star K 042	Star 130	STATE OF THE STATE
12.	Driver Assembly	2372 004 1005		K 114	J 114	2372 001 401
	(Inner Hub Barrel)					
13.	Ball Retainer	2376 003 000	K 161/5A	10-1/4" loose	10-1/4" loose	1676 103 100
		Star 0103-519	Star S 1025	balls	balls or S-1025	-
14.	Dust Cap	1604 013 002	K 112A			1604 013 002
15.	Axle with Fixed Cone	The second of the second of the second	The state of the s	-		
	3/8 x 26 TPI <sup>2</sup>		K 110/4	K 110/4	J 110/4	2371 008 000
	3% x 24 TPI <sup>2</sup>	1671 103 0005	K 110/4A	K 110/4A	J 110/4A	1671 103 001A
16.	Fixed Cone					
	3/8 x 26 TPI <sup>2</sup>		K 110	K 110	J 110	
	3/8 x 24 TPI <sup>2</sup>	2308 003 101	K 110A	K 110A	J 110A	1608 101 000A
	Oiler	none			T 82K	
17.	Dust Cap, sprocket side	2321 002 101	K 161/6	K 103	J 103	2321 002 101
18.	Sprockets, 17-223					
19.	Sprocket Lockrings <sup>3</sup>	0512 011 000	DR-616E	DR-616E	DR-616E	0512 011 000
20.	Sprocket Spacer Washer <sup>3</sup>	none required	none required	none required	J 116	0518 018 000
			and the same of the same		2 required	
					except with 12'	i sprocket

<sup>1</sup> 161 is stamped on hub shell.

<sup>4</sup> Includes brake arm and cone.

<sup>&</sup>lt;sup>2</sup> <sup>3</sup>/<sub>8</sub> x 26 TPI is sometimes referred to as German thread. <sup>3</sup>/<sub>8</sub> x 24 TPI is sometimes referred to as American thread. American threaded parts have A stamped in them.

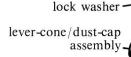
<sup>&</sup>lt;sup>3</sup> See Sprocket Interchangability at beginning of Hub section.

<sup>&</sup>lt;sup>5</sup>There are several similar part numbers for these items.



## **HUBS**

SACHS (F & S) COASTER BRAKES
DISASSEMBLY AND ASSEMBLY



brake cylinder driving cone

locknut

# 1) DISASSEMBLY

Remove left-hand locknut and washer (if any). Rotate driver to disengage brake and unscrew cone using brake lever as a wrench. Remove brake lever, dust cap, lever cone and ball retainer.

Next Step

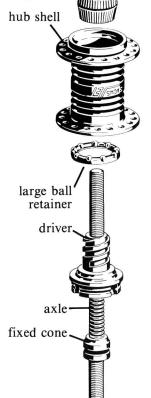
Thread lever-cone/dust-cap assembly onto axle. Cone slots must engage brake cylinder tabs and ball retainer must seat in hub race. Replace lock washer (if any) and lock nut. Adjust bearing.

ASSEMBLY 2





Rotate hub counter-clockwise and lift off axle. Lift brake cylinder and driving cone out of hub either as a unit or separately. Lift off ball retainer and driver.



Install driver. Small ball retainer in driver seats onto fixed axle cone. Slip large ball retainer over driver flat side down. Slip hub shell over axle smaller opening down. Push small end of driving cone into straight-sided end of brake cylinder. Install driving cone and brake cylinder as a unit.<sup>2</sup> Rotate clockwise to engage driver splines.

ASSEMBLY 1

- <sup>1</sup> These hubs may also be disassembled by threading out the axle first and replacing it last. This procedure is especially recommended for Karat and Centrix hubs.
- <sup>2</sup> For Karat and Centrix assemble brake shoes, lever cone and driving cone and install as a unit.

## SACHS (F & S) COASTER BRAKES DISASSEMBLY AND ASSEMBLY (cont.) SUBASSEMBLIES



## DISASSEMBLY

#### **Driver**

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



#### **Driver**

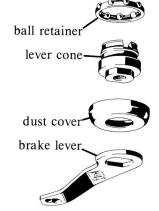
Install ball retainer flat side up. Start dust cover straight and tap home with a soft hammer.

**ASSEMBLY** 

## DISASSEMBLY

## Lever-Cone/Dust-Cap

If brake lever, lever cone and dust cover are press fit together, they should not be forced apart. Ball retainer may be popped off cone.



#### Lever-Cone/Dust-Cap

Reassemble lever cone, dust cover and brake lever if they have been separated. Pop ball retainer over cone, *flat side* toward dust cover.

**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 driving cone (10) and driver (12) for wear and chipping
- 2. Conical surface of inside of hub shell and outside of driving cone (10) for wear and burring
- 3. Brake shoes and driving cone (10) for wear and burring
- 4. Brake cylinder (9) 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

### LUBRICATION

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