



18 PARTS DRAWING
KD512SP, TKD512SP

PARTS
LIST

ITEM NO.	Description	KD512SP Part No.	Qty.	IKD512SP Part No.	Qty.
1	Debris Bag Turf (service)	890023	1	890028	1
2	Throttle Assembly (INCL. 1 ea. 4,10)	900514-04	1	900514-04	1
3	Tamper	-	-	890229	1
4	Nut Lock (1/4 - 20)	*8160001	10	*8160001	12
5	Screw Cap (1/4 - 20 x 1- 1/2 HEX)	*8041008	4	*8041008	4
6	Handle Assy (incl. items 4(6), 5(4), 11(2), 75(2), 76 & 99)	900059	1	900057	1
7	Axle Rear - Frame W.A.	890389	1	890389	1
8	Screw Handle 5/16 - 18 x 1-3/4	*8041031	2	*8041031	2
9	Clamp Cable Plastic 1"	900407	2	900407	2
10	Screw Cap (1/4 - 20 x 2- 1/4)	*8041011	1	*8041011	1
11	Bar Support Bag	900039	2	900039	2
12	Door Exhaust Assy (incl. item 62)	890148	1	890148	1
13	Bolt - Carriage 1/4 x 3/4	8024021	2	8024021	2
14	Screw Cap #10 - 24 x 5/8	*8059135	1	*8059135	5
15	Nut Lock #10 NC			*8164005	4
16	Washer 1/4 FC ZP	*8171002	20	*8171002	20
17					
18	Bracket - Height Adjustment	890021	1	890021	1
19	Plate Upper height Adjustment	890005	1	890005	1
20	Spring	900136	1	900136	1
21	Tire - Only (per assy) Treaded	900659	1	900659	1
22	Pin - Hair Cotter	900471	1	900471	1
23	Cable Height Adjustment	890019	1	890019	1
24	Bolt - Carriage 5/16 - 18 x 4-1/2	*8024054	4	*8024054	4
25	Nut Lock Flange 1/4 - 20	900453	2	900453	2
26	Nut Lock 5/16 - 18 HEX	*8160002	2	*8160002	2
27	Handle Lower	890346	1	890346	1
28	Plate Handle Support	900933	1	900933	1
29	Label Danger Cut Finger	400424	6	400424	2
30	Washer Flat Cut 5/16	*8171003	6	*8171003	5
31	Screw Cap 3/8 - 16 x 2-1/2 Washer Face	900564	3	900564	3
32					
33					
34	Wheel Ass'y Cast (incl. items 21) treaded	900760	2	900760	2
35	Washer 0.75 "C"	900997	0-1	900997	0-1
36					
37	Label Ear Eye Breathing	890254	1	890254	1
38					
39					
40	Screw Cap 1/4 - 20 x 1-1/4	*8041007	6	*8041007	6
41	Screw Cap 1/4 - 20 x 1-3/4	*8041009	2	*8041009	2
42	Screw Self Tapping 10 - 24 x 1/2	*8123086	1	*8123086	1
43	Nozzle Frame (incl. one of items 29,44,42)	890391	1	890391	1
44	Plug	900146	1	900146	1
45	Label Oil Chain	830502	1	830502	1
46	Blade Chipper	-	-	890101	1
47	Impeller Ass'y (incl items 46, 49, 50, 51, 59, 65, 66, 67)	-	-	890208-S	1
	Impeller Ass'y (incl items 49, 50, 51)	900353	2	-	-
48	Label Chipper	-	-	890152	1
49	Key 3/16 Sq. x 1.25	900162	1	9201080	1
50	Washer Lock 3/8 Twisted Tooth	400502	1	400502	1
51	Screw Cap 3/8 - 24 x 2" (Torque 50 ft.lbs (68 Nm))	-	-	810962	1
	Screw Cap 3/8-24 x 1 1/2" (Torque 50 ft.lbs.(68 Nm))	900344	1	-	-
52	Housing Ass'y (incl. items 12, 14, 15, 16, 37, 100)	890419-S	1	890419-S	1
53	Engine 5.5 H.P. Briggs & Stratton	900784	1	900784	1
54					
55					
56					
57	Washer 1/2 flat KD Wheel	900230	2	900230	2
58	Washer Flat 1/2 SAE	*8172011	8	*8172011	8
59	Screw Socket HD. 5/16 - 18 x 3/4 GR. 8	-	-	890103	2
60	Height Adjustment Ass'y (incl 18, 20, 22, 23)	890013	1	890013	1
61					
62	Label Danger Flying Material	810736	1	810736	1
63	Label Hot Engine	400268	1	400268	1
64					
65	Nut Keps 5/16 - 18	-	-	890104	2
66	Washer Shim 0.060" (1.52mm)	-	-	890130	0-1
67	Washer Shim 0.020" (0.51mm)	-	-	890131	0-2
68	Plate Top Ass'y (incl. items 14, 15, 29, 69, 70, 71, 84)	-	-	890597	1
	Plate Top Ass'y (incl. items 29, 71, 84)	890590	1	-	1
69	Guard Flapper	-	-	890119	2
70	Plate Flapper Entrance	-	-	890127	2
71	Screw Cap 1/4-20 x 1/2 HWH	890359	15	890359	15
72					
73					
74	Nut Lock 5/16 - 18 Thin Ht.	*8161041	2	*8161041	2
75	Grip Handle	400570	2	400570	2
76	Bracket Lopper Loop			890167	1
77					
78	1/2-13 Cap nut np W/patch	890530	4	890530	4
79					
80					
81					
82					
83	Connector Quick	890176	1	890176	1
84	Label - Warning Guards	900327	1	900327	1
85	Cable Ass'y Clutch	890588	1	890588	1

* Denotes standard hardware item that may be purchased locally.

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PARTS LIST

(Continued from page 11)

Item No.	Description	KD512SP Part No.	Qty.	TKD512SP Part No.	Qty.
86	Wheel With Sprocket Ass'y Cast (21, 94, 95, 96)	890242	2	890242	2
87	Chain 52 Pitch	890239	2	890239	2
88	Belt 4L220	890586	1	890586	1
89	Nut Whiz 1/4-0 Wash Face	900455	2	900455	2
90	Bolt Carriage 5/16 - 18 x 3/4	*8024039	4	*8024039	4
91	Washer Spring Lock 5/16	*8177011	4	*8177011	4
92	Nut Regular 5/16 - 18	*8142002	4	*8142002	4
93	Jackshaft	900320	1	900320	1
94	Sprocket (per Assembly) (size # 65A26) 26 Teeth	890238	1	890238	1
95	Screw Self Tap 1/4-14 x 3/4 (Per Assembly)	900505	10	900505	10
96	Washer Lock External Tooth (Per Assembly)	*8181007	10	*8181007	10
97	Jackshaft Ass'y (incl. 93, 101, 102, 107, 108, 109)	890197	1	890197	1
98	Shield Muffler TKDSP	890190	1	890190	1
99	Label Clutch	830503	1	830503	1
100					
101	Bearing Plate	900317	2	900317	2
102	Bearing Ball (with Snap Ring)	900321	2	900321	2
103					
104	Rod Bail Clutch	900970	1	900970	1
105					
106	Screw 8122082	8122082	2	8122082	2
107	Pulley 3"OD x 5/8 Bore	890583	1	890583	1
108	Sprocket - 8 Tooth	900302	2	900302	2
109	Roll Pin 3/16 Dia. x 1 1/4 Lg.	*8195166	4	*8195166	4
110	Locknut 5/16 - 18 Flange	850164	5	850164	5
111	Screw Cap 1/4-20 x 1-1/2 Hex			8041008	2
112	Bracket Clutch KDSP	890580	1	890580	1
113	Spring Tension	400217	1	400217	1
114	Bolt Idler	800888	1	800888	1
115	Bolt Shoulder 3/8" x 1/2"	830528	1	830528	1
116	Screw Cap 1/4 - 20 x 3/4 Lg.	*8041004	1	*8041006	1
117	Arm Idler Wa KDSP	890582	1	890582	1
118	Guard Chain Ass'y TKDSP	890600	1	890602	1
119	Nut Lock 5/16-18 Thin	*8161041	1	*8161041	1
120	Pulley Idler 1.13"OD x 3/8" Bore	890585	1	890585	1
121	Pulley 1.63" OD X 1/2 Bore	890584	1	890584	1
122	Nut Lock 3/8-16 Thin	*8161042	1	*8161042	1
123	Label Read Owner's Manual	890301	1	890301	1

* Denotes standard hardware item that may be purchased locally.

20 TROUBLESHOOTING *Before Requesting Service Review These Suggestions*

Problem	Possible Cause	Solution
Will not vacuum or has poor vacuum performance.	Dirty debris bag. Nozzle height set too high or too low. Hose kit cap missing. Clogged nozzle or exhaust. Excessive quantity of debris.	Clean debris bag. Shake bag clean or wash. Adjust nozzle height. Check for hose kit cap. Unclog nozzle or exhaust (see page 5). Allow air to feed with debris.
Poor chipping performance.	Extremely hard wood. Dull or damaged chipper blade.	Avoid extremely hard wood. Sharpen or replace chipper blade (see page 8).
Engine stalls or labors when chipping.	Feeding branches into chipper too rapidly. Engine service may be required.	Feed branches at a slower rate. Service engine.
Abnormal vibration.	Loose or out of balance impeller or loose engine.	Check impeller and replace if required. Check Engine.
Engine will not start.	Throttle in off position. Out of gasoline. Bad or old gasoline. Spark Plug wire disconnected. Dirty air cleaner.	Check stop switches, throttle, and gasoline. Connect spark plug wire. Clean or replace air cleaner. Or contact a qualified service person.
No self propelling.	Clutch cable out of adjustment. Worn or broken belt. Worn or broken clutch cable.	Adjust clutch cable. Replace belt. Replace clutch cable. Replace any worn or damaged or malfunctioning parts.
Self propelled drive will not release.	Clutch cable out of adjustment. Idler return spring disconnected or broken. Belt is rubbing on chain guard	Adjust clutch cable. Replace return spring. Remount chain guard
Engine is locked, will not pull over.	Debris locked in chipper blade, hopper or inside impeller. Engine problem.	See page 5, Clearing a clogged chipper hopper. Contact an engine servicing dealer for engine problems.

22.1 Engine Service and Warranty
Contact your nearest engine manufacturer's authorized servicing dealer.

21 Serial Plate *Record your machine model, serial number and date-of-purchase and where purchased*

1803 S. Jefferson
P.O. Box 308
Lee's Summit,
MO 64063 / USA
Tel (816) 524-9666
Fax (816) 524-6983

112 dB

Model	Serial No.
Unit(Weight)	Engine Power
<input type="text"/> lbs. <input type="text"/> kg	<input type="text"/> kW <input type="text"/> rpm

Purchase Date _____ **Purchased from** _____

22 WARRANTY PROCEDURE

Please fill in the WARRANTY CARD and send the upper part to Billy Goat. The WARRANTY terms are stated on the lower part which remains with the user. Whenever a Billy Goat Machine is faulty due to a defect in material and / or workmanship, the owner should make a warranty claim as follows:

The Machine should be taken to the dealer from whom it was purchased or to an authorized Billy Goat dealer.

The owner should present the remaining half of the Warranty Registration Card, or, if this is not available, the invoice or receipt.

The Warranty Claim will be filled in by the authorized Billy Goat Dealer, who will send it with the faulty part to Billy Goat headquarters.

The Quality / Service department at Billy Goat headquarters will study the claim and parts and will notify their conclusions.

The decision by the Quality / Service department at Billy Goat headquarters to approve or reject a Warranty claim is final and binding.

Note: To process a Warranty Claim, it is necessary to quote the Model & Serial number that are printed on the Billy Goat Serial Plate.

BILLY GOAT INDUSTRIES INC.
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