

18 PARTS DRAWING

KD510SP, TKD510SP

ITEM NO.	Description	KD510SP Part No.	Qty.	TKD510SP Part No.	Qty.
1	Debris Bag Turf (service)	890305	1	890307	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	8	*8160001	8
5	Screw Cap (1/4 - 20 x 1- 1/2 HEX)	*8041008	6	*8041008	6
6	Handle Assy (incl. items 4(6), 5(4), 11(2), 75(2), 76 & 99)	900057	1	900059	1
7	Axle Rear - Frame W.A.	890389	1	890389	1
8	Screw Handle 5/16 - 18 x 2-1/4	900547	2	900547	2
9	Clamp Cable Plastic 1"	900813	2	900813	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	5	*8059135	5
15	Nut Lock #10 NC	*8164005	5	*8164005	5
16	Washer 1/4 FC ZP	*8171002	2	*8171002	2
17					
18	Bracket - Height Adjustment	900932	1	900932	1
19					
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	Rod Short Height Adjustment	890110	1	890110	1
24	Bolt - Carriage 5/16 - 18 x 4-1/2	*8024054	4	*8024054	4
25					
26	Nut Lock 5/16 - 18 HEX	*8160002	4	*8160002	4
27	Handle Lower KD505	900041	1	900041	1
28	Plate Handle Support	900933	1	900933	1
29	Label Danger Cut Finger	-	-	400424	2
30	Washer Flat Cut 5/16	*8171003	2	*8171003	2
31	Screw Cap 3/8 - 16 x 2-1/2 Washer Face	900564	2	900564	2
32					
33					
34	Wheel Ass'y Cast (incl. items 21) treaded	900760	2	900760	2
35	Washer 0.75 "C"	900997	1-0	900997	1-0
36					
37	Label Ear Eye Breathing	890254	1	890254	1
38					
39					
40	Screw Cap 1/4 - 20 x 1-1/4	*8041007	4	*8041007	4
41					
42	Screw Self Tapping 10 - 24 x 1/2	*8123086	2	*8123086	2
43	Nozzle Frame (incl. one of items 29,44,42,55,64)	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)	900342	1	-	-
48	Label Chipper	-	-	890152	1
49	Key 3/16 Sq. x 1.25	9201080	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	1	890419	1
53	Engine 5.5 H.P. Briggs & Stratton Diamond I/C	900784	1	900784	1
54					
55					
56					
57					
58	Washer Flat 1/2 SAE	*8172011	4	*8172011	4
59	Screw Socket HD. 5/16 - 18 x 3/4 GR. 8	-	-	890103	2
60	Height Adjustment Ass'y	890326	1	890326	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)	-	-	890425	1
	Plate Top Ass'y (incl. items 29, 71, 84)	890402	1	-	1
69	Guard Flapper	-	-	890119	2
70	Plate Flapper Entrance	-	-	890127	2
71	Screw Cap 1/4-20 x 1/2 HWH	890359	17	890359	17
72					
73	Knob Wing 5/16-18	890108	2	890108	2
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					
85	Cable Ass'y Clutch	900207	1	900207	1

* Denotes standard hardware item that may be purchased locally.

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PARTS LIST

(Continued from page 11)


Item No.	Description	KD510SP Part No.	Qty.	TKD510SP 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	Chain 40 Pitch	900323	1	900323	1
89	Washer Flat 5/16 (3/8 ID x 7/8 x 1 1/6)	*8171003	4	*8171003	4
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)	800505	5	800505	5
96	Washer Lock External Tooth (Per Assembly)	*8181007	5	*8181007	5
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	Label - Warning Guards	900327	1	900327	1
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					
107	Sprocket - 17 Tooth	900303	1	900303	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					
112	Bracket Control Ass'y (incl. 113, 114, 115)	900221	1	900221	1
113	Spring	900136	1	900136	1
114	Roll Pin 1/8" Dia. x 1 1/4 Lg.	*9195106	1	*9195106	1
115	Rod Clutch	900208	1	900208	1
116	Screw Cap 1/4-20 x 1" Lg.	*8041006	2	*8041006	2
117	Washer 1/4" Flat (5/16 ID x 3/4 Od x 1/16)	*8171002	4	*8171002	4
118	Guard Chain Ass'y TKDSP	890231	1	890195	1
119	Clip - Clutch Cable	900999	1	900999	1
120					
121	Clutch Double Release	900307	1	900307	1
122					
123	Label Read Owner's Manual	890301	1	890301	1

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.	Operator's bail not releasing clutch. Broken or out of adjustment clutch cable. Worn or broken clutch assembly. Bracket control assembly (item 112) out of adjustment.	Adjust clutch cable. Adjust bracket control assembly. Replace any worn or damaged or malfunctioning parts.
Self propelled drive will not release.	Clutch cable out of adjustment. Clutch not lubricated and is locked-up.	Adjust clutch cable. See page 9 Clutch Adjustment. Oil clutch.
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*



Operator



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Model

Serial No.

Unit(Weight)
 lbs. kg

Engine Power
 kW rpm

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 who are printed on the Billy Goat Serial Plate.



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