



2 OPTIONAL ACCESSORIES

**SHREDDER KIT
P/N 890209.**

Shreds leaves, dramatically reducing total volume, 12:1.

**HEAVY DUTY VACUUM HOSE KIT
P/N 900998.**

*4" (102mm) X 7' (2.13m)
For vacuuming in hard to reach areas.*

**NOZZLE WEAR PLATES
P/N 890413.**

Extends nozzle life when used along curbs and hard surfaces.

**STANDARD TURF PRO DEBRIS BAG
P/N 890028.**

Standard on TKD models. For use in leaves and grass in non-dusty conditions.

OPTIONAL DEBRIS BAGS

**PRO FELT BAG
P/N 890023**

For use in dusty conditions.

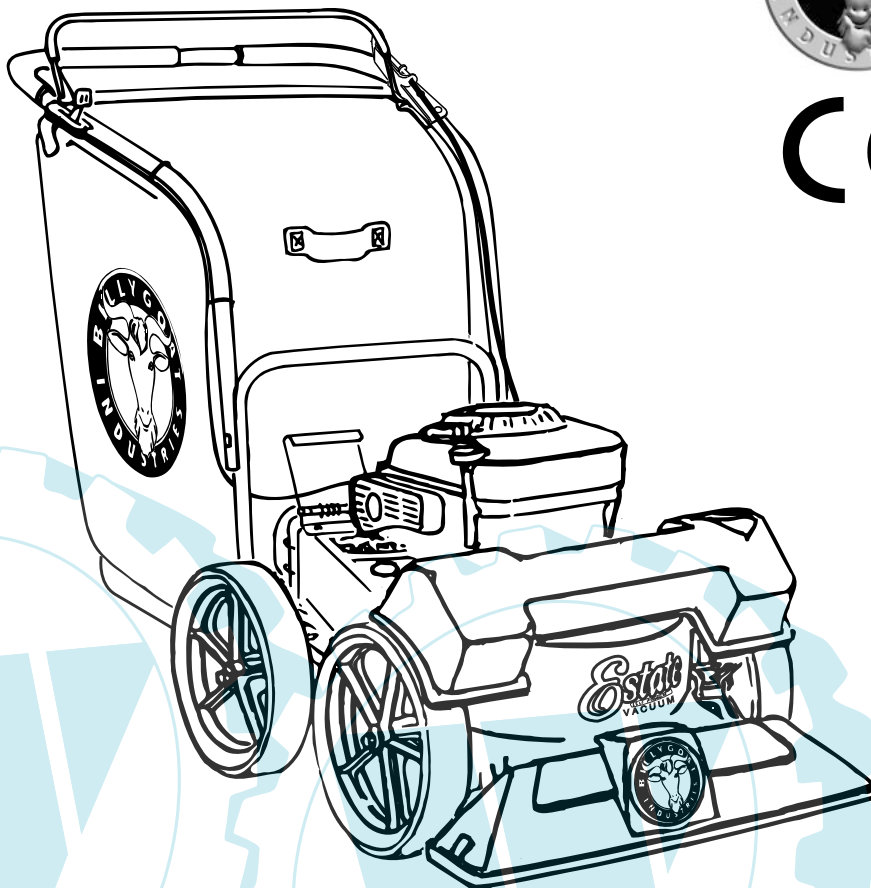
**FELT BAG COVER
P/N 900801**

Directs dust downward away from operator.

**ZIPPERLESS PRO BAG
P/N 890309**

For non dusty conditions that are damaging to zippers.

1



*Thank You for Selecting
The Powerful KD or TKD TERMITE®
SELF PROPELLED VACUUM CHIPPER*

Operator Owner's Manual

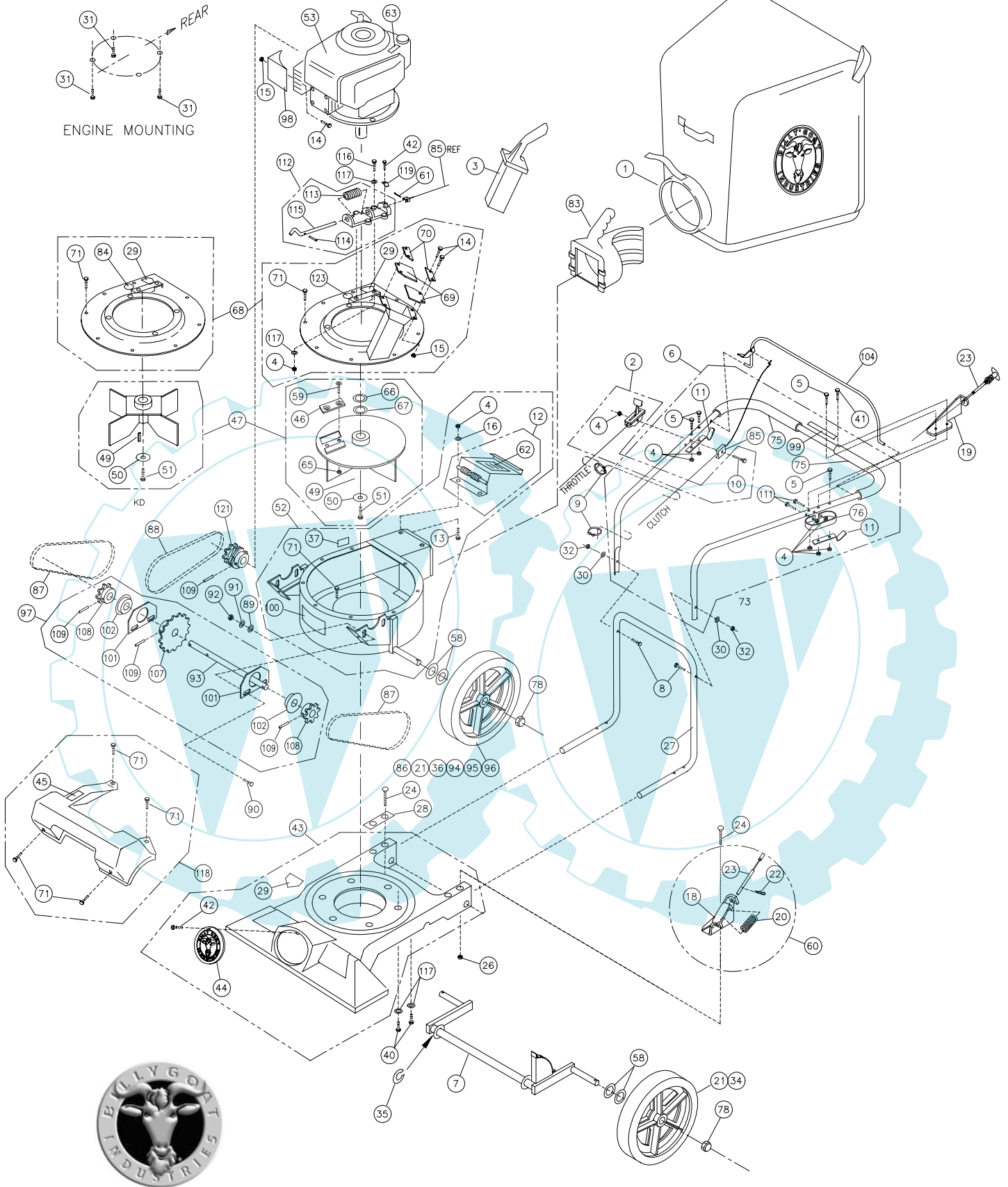
KD511SP, TKD511SP

3

Specifications

	KD511SP	TKD511SP
ENGINE:H.P.	5.5 (4.1kW)	5.5 (4.1kW)
ENGINE:TYPE	B&S DIAMOND I/C	B&S DIAMOND I/C
ENGINE:FUEL CAP.	1.5qt. (1.4L)	1.5qt. (1.4L)
ENGINE:OIL CAP.	0.63qt. (0.6L)	0.63qt. (0.6L)
WEIGHT:UNIT	117# (53.1 kg)	133# (60.3 kg)
WEIGHT:SHIPPING	140# (63.5 kg)	156# (70.8 kg)
ENGINE WEIGHT:	26# (11.8 kg)	26# (11.8 kg)

UNIT SIZE: OVERALL LENGTH: 62"(1.57m) OVERALL WIDTH 26.75" (0.68m) OVERALL HEIGHT 42" (1.07m)



18 PARTS DRAWING
KD511SP, TKD511SP

PARTS LIST

NO.	Description	KD511SP Part No.	Qty.	TD511SP 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)	900057	1	900059	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"	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	4
15	Nut Lock #10 NC			*8164005	4
16	Washer 1/4 FC ZP	*8171002	2	*8171002	2
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					
26	Nut Lock 5/16 - 18 HEX	*8160002	4	*8160002	4
27	Handle Lower	890346	1	890346	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 Assy 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	4	*8041007	4
41	Screw Cap 1/4 - 20 x 1-3/4	*8041009	1	*8041009	1
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 Assy' (incl items 46, 49, 50, 51, 59, 65, 66, 67)	-	-	890208-S	1
	Impeller Assy' (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 Assy' (incl. items 12, 14, 15, 16, 37, 100)	890419-S	1	890419-S	1
53	Engine 5.5 H.P. Briggs & Stratton Diamond I/C	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 Assy' (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 Assy' (incl. items 14, 15, 29, 69, 70, 71, 84)	-	-	890425	1
	Plate Top Assy' (incl. items 29, 71, 84)	890422	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 Assy Clutch	900207	1	900207	1

* Denotes standard hardware item that may be purchased locally.

19

PARTS LIST

(Continued from page 11)

Item No.	Description	KD511SP Part No.	Qty.	TKD511SP Part No.	Qty.
86	Wheel With Sprocket Assy 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	Screw Cap 1/4-20 x 1-1/2 Hex			8041008	2
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 Head 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.	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



BILLY GOAT INDUSTRIES, INC.



1803 S. Jefferson
P.O. Box 308
Lee's Summit,
MO 64083 / USA
Tel (816) 524-9666
Fax (816) 524-6983

Model

Serial No.

Unit (Weight)

 lbs. kg

Engine Power

 kW rpm

Operator _____

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.
1803 S.W. Jefferson Street Lee's Summit, MO 64082 / USA
PHONE: 816-524-9666 FAX: 816-524-6983 WEBSITE: www.billygoat.com