2

OPTIONAL ACCESSORIES

SHREDDER KIT P/N 890209. Shreds leaves, dramatically reducing total volume.

HOSE KITS For vacuuming in hard to reach areas.

Heavy Duty Vacuum Hose Kit P/N 900943. 4" (102mm) x 10' (3.05m)

Homeowners Vacuum Hose Kit P/N 900942.

4" (102mm)  $\times$  10' (3.05m)

NOZZLE WEAR PLATES P/N 900810. Extends nozzle Fe when used along curbs and hard surfaces.

STANDARD TURF DEBRIS BAG P/N 900806. Standard on TKD models. For use in leaves and grass in non-dusty conditions.

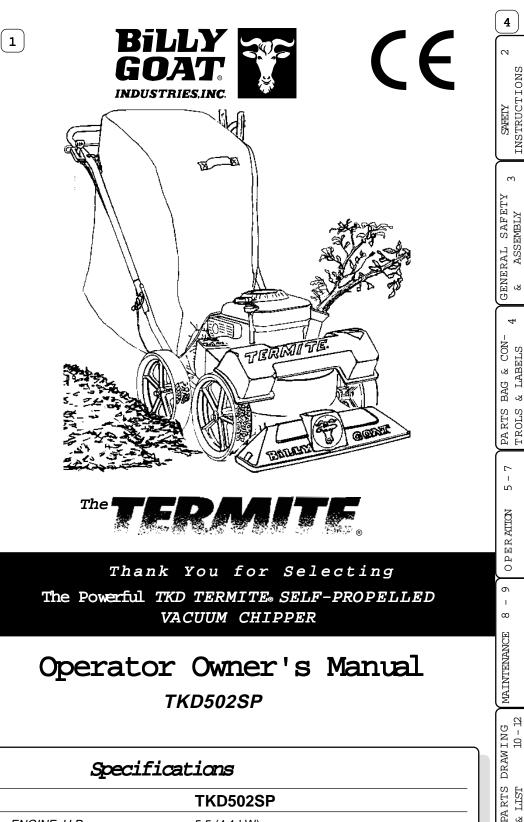
OPTIONAL DEBRIS BAGS

FELT DEBRIS BAG P/N 900803 For use in dusty conditions.

HEAVY DUTY DEBRIS BAG P/N 900798 Reinforced lower panel.

DEBRIS BAG COVER P/N 900801 Directs dust down ward, away from operator.

ZIPPERLESS BAG P/N 890221 For non dusty conditions that are damaging to zippers.



ENGINE: H.P. ENGINE: TYPE ENGINE: FUEL CAP. ENGINE: OIL CAP. WEIGHT: UNIT WEIGHT: SHIPPING ENGINE WEIGHT: 5.5 (4.1 kW) B&S DIAMOND PLUS 1.6 qt. (1.5 L) 0.63 qt. (0.6 L) 133# (60.3 kg) 156# (70.8 kg) 26# (11.8 kg)

UNIT SIZE:

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

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PROCEDURE

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**VIERS** 

# IN THE INTEREST OF SAFETY



BEFORE STARTING ENGINE, READ AND UNDERSTAND THE "ENTIRE OPERATOR'S MANUAL & ENGINE MANUAL."

THIS SYMBOL MEANS WARNING OR CAUTION. DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE MAY OCCUR UNLESS INSTRUCTIONS ARE FOLLOWED CAREFULLY.

#### NOT WARNING: DO

1. DO NOTrun engine in an enclosed area. Exhaust gases contain carbon monoxide, an odor less and deadly poison.

2 DO NOT place hands or feet near moving or rotating parts.

3. DO NOT store, spill or use gasoline near an open flame, or devices such as a stove, firnace, or water heater which use a pilot light or devices which can create a spark

4 DO NOT refuel indoors where area is not wellventilated. Outdoor refueling is recommended.

5. DO NOT fill fuel tank while engine is running. Allow engine to cool for 2 minutes before refueling. Store fuel in approved safety containers.

6. DO NOT remove fuel tank cap while engine is running.

7. DO NOT operate engine when smell of gasoline is present or other explosive conditions exist.

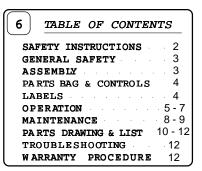
8 DO NOT operate engine if gasoline is spilled. Move machine away from the spill and avoid creating any ignition until the qasoline has evaporated.

9. DO NOT transport unit with fuel in tark.

10. DO NOT smoke when filling fuel tank.

11. DO NOT choke carburetor to stop engine. Whenever possible, gradually reduce engine speed before stopping.

12. DO NOTrun engine at excessive speeds. This may result in injury & /or damage to unit.



Part No. 890207

13. DO NOT tamper with governor springs, governor links or other parts which may change the governed engine speed.

14. DO NOT tamper with the engine speed selected by the engine manufacturer.

15. DO NOT checkfor spark with spark plug or spark plug wire removed. Use an approved tester.

16. **DO NOT** crank engine with spark plug removed. If engine is flooded, place throttle in "FAST" position and crank until engine starts.

17. DO NOT strike flywheel with a hard object or metal tool as this may cause flywheel to shatter in operation. Use proper tools to service engine.

18. DO NOT operate engine without a muffler. Inspect periodically and replace, if necessary. If engine is equipped with m uffler deflector, inspect periodically and replace, if necessary, with correct deflector.

19. DO NOT operate engine with an accumulation of grass, leaves, dirt or other combustible material in the muffler area.

20. DO NOT use this engine on anyforest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed on the muffler. The arrester must be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal haws apply on federal lands.

21. DO NOT touch hot muffler, cylinder, or fins because contact may cause burns.

22. DO NOT run engine without air cleaner or air cleaner cover.

23. DO NOT operate during excessive vibration!

24. DO NOT leave machine unattended while in operation.

25. DO NOT park machine on a steep grade or slope.



1. ALW AYS DO remove the wire from the spark plug when servicing the engine or equipment TO PREVENT ACCIDENTAL STARTING.

2 **DO** keep cylinder fins and governor parts free of grass and other debris which can affect engine speed.

3. D O pull star ter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.

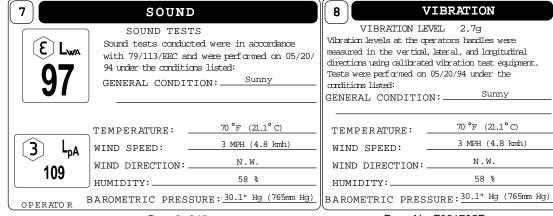
4. DO examine muffler periodically to be sure it is functioning effectively. A worn or leaking muffler should be repaired or replaced as necessary.

5. **DO** use fresh gasoline. Stale fuel can gum carburetor and cause leakage.

6. DO check fuel lines and fittings frequently for cracks or leaks. Replace if necessary

7. Follow engine manufacturer operating and maintenance instructions.

8 **Inspect** machine and work area before star ting unit.



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# **9** GENERAL SAFETY

#### For your safety and the safety of others, these directions should be followed:

Do not operate this machine without first reading owner's manual and engine manufacturer's manual.



Use of Ear Protection is recommended while operating this machine.

Use of Eye and Breathing protection is recommended when using this machine, especially in dry and dusty conditions. Optional bag cover directs dust toward ground, away from the operator.

**•DO NOT** place hands or feet inside nozzle intake opening, near debris outlet or near any moving parts.

**•DO NOT** start engine without debris bag and quick disconnect connected firmly in place to exhaust outlet.

**•DO NOT** start or operate machine with debris bag zipper open.

-DO NOT operate during excessive vibration.

**-DO NOT** remove bag until engine has been turned off and has come to a complete stop.

**•DO NOT** remove hose kit cap on nozzle until engine has been turned off and has come to a complete stop.

DO NOT operate machine with hose cap, bag or hose removed.
DO NOT use this machine for vacuuming exclusively sand, dust, fine dirt, rock, glass, string like material, grain, rags, cans, metal, bark or water.

**DO NOT** operate this machine on slopes greater than 20%. **DO NOT** pick up any hot or burning debris, or any toxic or explosive material.

-DO NOT allow children to operate this equipment.

# **10** ASSEMBLY



Read all safety and operating instructions before assembling or starting this unit.

PUT OIL IN ENGINE BEFORE STARTING.

Your Billy Goat is shipped from the factory in one carton, completely assembled except for the debris bag, upper handle, bag quick disconnect, tamper and bag support assembly.

1. **ASSEMBLE** upper handle securely to lower handle stubs using handle screws (item 8), knob wing 5/16-18 (item 73), and nut lock 5/16-18 (item 74).

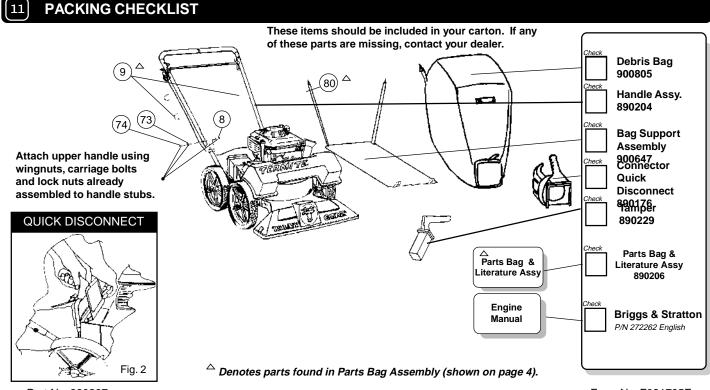
2. **CONNECT** bag support assembly (item 78), to rear axle (item 33), of unit and to both sides of upper handle using clips on strap (item 80).

3. **UNFOLD** the debris bag (item 1), and fasten bag neck to bag quick disconnect (item 83). Attach firmly to housing exhaust (item 52), see fig. 2.

4. **ATTACH** upper bag hanger straps to loops (item 11), pre-assembled to upper handle.

5. **ATTACH** throttle assy. (item 2), to handle, using cable clamps (item 9).

6. **INSTALL** tamper in chipper hopper (see page 7).7. **CONNECT** spark plug wire



Part No. 890207



Form No. F021795E

#### CONTROLS 12 13 PARTS BAG & LITERATURE ASSY P/N 890206 Δ Throttle Owner's Literature Checklist Manual Control Chec **Owner's** Clamp Cable 1" Manual 9 900813 Qty. 2 Start 890207 Literature Check Literature position Parts Bag Parts Bag С 890267 Н Literature Literature Briggs 0 KD/TKD KD/TKD engines have К Е Accesso-Accessoa primer ries 900713 ries button Ý carburetor with no choke. FAST **Strap Bag Support** Û (80) 900642 Qty. 1 Û Stop Warranty Warranty SLOW Card Card position 400972 STOP EU Declaration EU Declaration of Conformity & of Conformity EU Distributor & EU Distributor List List 890261 15 14 **INSTRUCTION LABELS ENGINE LABELS** These labels should be included on your Vacuum. If any of these labels are damaged, replace them before putting this equipment into operation. Item and part numbers are given to help in ordering replacement labels... A WARNING **Briggs & Stratton** Label Danger STOP ENGINE AND ALLOW TO COOL BEFORE REFUELING. Keep Hands and Feet . Label Do Not Fill While Away Engine Is Hot Item 29 Part Item 63 Part No.400268 No.400424 $\overline{O}(\cdot)$ OIL CHAIN EVERY 10 HOURS Label Oil Chain Label Danger Chipper For Wood Label Ear Eye Breathing Item No. 45 Only Item 48 Part No. 890152 Item No. 37 Part No. 890254 Part No. 830502 - 🗜 🔶 PULL TO ENGAGE CLUTCH ↓ + RELEASE TO DISENGAGE CLUTCH Label Clutch Item No. 99 Part No. 900328 Label Warning Guards Label Danger Flying Material Item 100 Part No.900327 Item 62 Part No.810736 Label Read Owner's Manual Item No 123

Part No. 890207

Debris Bag Label item 1

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LABELS

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CONTROLS

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Part No. 890301

#### **OPERATION** 16

**INTENDED USE:** This machine is designed for vacuuming leaves, grass clippings and other types of organic litter and for chipping brush, limbs, corn and sunflower stalks and palm fronds.

Debris mixed with cans, bottles and small amounts of sand can be vacuumed; however, it is not this machine's primary purpose. Vacuuming cans, bottles and sand will affect the longevity of your machine.

Do not operate if excessive vibration occurs. If excessive vibration occurs, shut engine off immediately and check for damaged or worn impeller, loose impeller bolt, loose impeller key, loose engine or lodged foreign objects. Note: See parts list for proper impeller bolt torque specifications. (See trouble shooting section on page 12).



Like all mechanical tools, reasonable care must be used when operating machine.

Inspect machine work area and machine before operating. Make sure that all operators of this equipment are trained in general machine use and safety.

# PUT OIL IN ENGINE BEFORE STARTING.

# STARTING

**ENGINE:** See engine manufacturer's instructions for type and amount of oil and gasoline used. Engine must be level when checking and filling oil and gasoline.

**ENGINE SPEED:** Controlled by throttle lever on the handle. Under normal conditions, operate at minimum throttle to accomplish your current cleaning task.

FUEL VALVE: Move fuel valve to "ON" position (when provided on engine).

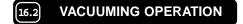
CHOKE: See Primer.

PRIMER: Push primer per engine instructions.

THROTTLE: Move remote throttle control to fast position. Pull starting rope to start engine.

#### IF YOUR UNIT FAILS TO START:

See Troubleshooting on page 12.



### VACUUM NOZZLE HEIGHT ADJUSTMENT: is

raised and lowered by lifting slightly upward on handle and up on height adjustment rod located at left rear of machine.

FOR MAXIMUM PICKUP: Adjust nozzle close to debris, but without blocking airflow into the nozzle. NOTE: Never bury nozzle into debris



### **CLEARING A CLOGGED NOZZLE**

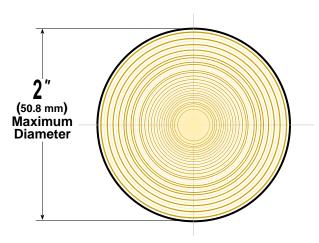
& EXHAUST: Turn engine off and wait for impeller to stop completely and disconnect spark plug wire. Wearing urable gloves, remove clog. Danger, the clog may contain sharp materials. Reconnect spark plug wire.

# **CHIPPING OPERATION**



Wearing Eye Protection and Durable Gloves is recommended while operating chipper. Use caution when using chipper

Your TERMITE . chipper is designed to process tree branches and limbs up to 2" (50.8mm) diameter.



Several small branches can be grouped together and fed together into the chipper (see fig 2.).

When feeding forked branches, squeeze forks together and feed into chipper entrance (DO NOT overload). If forks are too large, use a pair of loppers to trim forks down to size. A lopper storage bracket is provided on every unit (loppers are not included).

#### CLEARING A CLOGGED CHIPPER HOPPER 16.8

Under normal circumstances, allow time for machine to clear all wood from chipper hopper before stopping engine. Otherwise, remaining pieces of wood will jam inside of chipper when engine stops. See Tamper on page 7.

Disconnect spark plug wire.

Remove debris bag quick disconnect from debris outlet on machine.

Wearing durable gloves, access impeller through debris outlet on fan housing and rotate impeller counter

clock wise to dislodge and remove jam and remove debris from hopper with tongs or equivalent.

Reconnect debris bag quick disconnect to machine. Reconnect spark plug wire.

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# (fig. 2) Note: Dry wood is harder to chip than green wood.

MULCH

Wood chips made from branches in your own yard make excellent mulch. A thick blanket of wood chips around plants and flowers keeps weeds out and moisture in (see fig. 3).

## 16.10 COMPOST

Vacuumed leaves, grass and other organic material from your own yard can be emptied into a pile or composter to provide enriched soil for later use as fertilizer in gardens and flower beds (see fig. 3).

Note: Allow green chips to dry before spreading around living plants.



# **16.11** FOLDING HANDLE

By removing the debris bag, quick disconnect and leaving the bag support tray in place, the operator's handle can be folded down to save space when transporting or storing unit (see fig 4).



16.3 DEBRIS BAG

(fig. 4) Push Model Shown

Debris bags are normal replaceable wear items.

**Note:** Frequently empty debris to prevent bag overloading with more weight than you can lift.

An optional bag and dust cover is available for use where debris will be vacuumed in dusty conditions (see Optional Accessories shown on page 1.)

**DO NOT place bag on or near hot surface**, such as engine. Run engine at 1/2 throttle for first 1/2 hour to condition new bag. Your new bag requires a break-in period to condition the pores of the material against premature blockage. The entire bag surface serves as a filter, and must be able to breath to have good vacuum performance.

Be sure engine has come to a complete stop before removing or emptying bag.

This vacuum is designed for picking up trash, organic material and other similar debris (see Safety Warnings page 2-3). However, many vacuums are used where dust is mixed with trash. Your unit can intermittently vacuum in dusty areas. Dust is the greatest cause of lost vacuum performance. However, following these rules will help maintain your machine's ability to vacuum in dusty conditions:

•Run machine at idle to quarter throttle.

•The debris bag must be cleaned more frequently. A vacuum with a clean, pillow soft bag will have good pickup performance. One with a dirty, tight bag will have poor pickup performance. If dirty, empty debris and vigorously shake bag free of dust.

•Machine or pressure-wash debris bag if normal cleaning does not fully clean bag. Bag should be thoroughly dry before use.

Having one or more spare debris bags is a good way to reduce down time while dirty bags are being cleaned.

•DO NOT leave debris in bag while in storage.

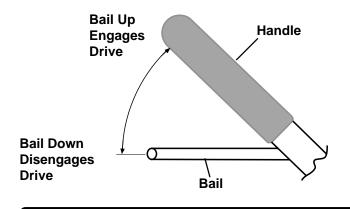
## (16) **OPERATION** continued

### 16.6 PROPULSION

This vacuum is self-propelled. To engage the drive, lift operator's bail against operator's handle. The drive is disengaged by releasing the operator's bail.

**GROUND SPEED** can be varied by applying slight downward pressure to handle during operation (to allow drive wheels partial slippage) or by changing the engine rpm.

For improved control in confined areas, this machine can be freewheel pushed forward or backward by releasing the operator's bail and pushing machine.



Before turning machine off, use the Tamper to slowly push remaining pieces of wood through the chipper. This can prevent any remaining wood from jamming in the chipper when machine is turned off.



Tamper Storage Position.



Do not leave tamper on the ground, store tamper in the chipper hopper.

## 16.4 HANDLING & TRANSPORTING:

Using two people to lift machine is recommended. Lift holding the handle and front of nozzle. Secure in place during transport.

# 16.5 STORAGE

Never store engine indoors or in enclosed poorly ventilated areas with fuel in tank, where fuel fumes may reach an open flame, spark or pilot light, as on a furnace, water heater, clothes dryer or other gas appliance.

# If engine is to be unused for 30 days or more, prepare as follows:

Be sure engine is cool. Do not smoke. Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine. Drain fuel outdoors, into an approved container, away from open flame. Run engine until fuel tank is empty and engine runs out of gasoline.

**NOTE:** Fuel stabilizer (such as Sta-Bil) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 min. after adding stabilizer to allow it to reach the carburetor.



Do not store with debris in bag.

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16.12

TAMPER

# <sup>17</sup> MAINTENANCE



Use only a qualified mechanic for any adjustments, disassembly or any kind of repair.



WARNING: TO AVOID PERSONAL INJURY, ALWAYS TURN MACHINE OFF, MAKE SURE ALL MOVING PARTS COME TO A COMPLETE STOP.

#### DISCONNECT SPARK PLUG WIRE BEFORE SERVICING UNIT.



ENGINE: See engine manufacturer operator's instructions.





RECONNECT SPARK PLUG WIRE, GUARDS, BAG, CAPS AND / OR HOSE BEFORE STARTING ENGINE.

#### 17.1 IMPELLER REMOVAL and CHIPPER ADJUSTMENT

#### **IMPELLER REMOVAL**

1. Wait for engine to cool and disconnect spark plug.

2. Drain fuel and oil from the engine.

**3.** Remove bag, bag tray, quick release, upper handle and clutch cable from upper handle. Do not kink, stretch, or break control cables, control housings, or end fittings while removing handles.

**4**. Remove chain guard, chains and jackshaft assembly (see page 9, Drive Chain).

**5**. Remove housing top plate by removing bolts around outside of housing.

**6.** Leaving engine fastened to top plate, remove impeller bolt and lock washer and slide impeller off crankshaft (A puller may be required).

7. Retain shim washers used at end of crankshaft for use at impeller reinstallation (see fig. 7). However, your unit may or may not have required the use of shim washers.

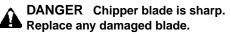
**8.** If impeller slides off freely, proceed to (step 11 or step 15). **(Do not drop impeller)**.

**9.** If impeller does not slide off crankshaft, place two crowbars between impeller and housing on opposite sides. Pry impeller away from engine until it loosens. *Using a penetrating oil can help loosen a stuck impeller.* 

**10.** If the impeller cannot be loosened, obtain a 1" (25.4mm) longer bolt of the same diameter and thread type as the impeller bolt. Invert engine and impeller and support engine above ground to prevent recoil damage. Thread longer bolt by hand into the crankshaft until bolt bottoms. Using a suitable gear or wheel puller against the bolt head and the impeller back-plate (near the blades), remove impeller from shaft.

#### CHIPPER BLADE REMOVAL AND SHARPENING

#### Chipper blades are normal replaceable wear items.



Depending on the type and amount of wood being chipped, the chipper blade will eventually get dull, losing it's cutting ability. Evidence of a dull blade is a noticeably reduced chipping ability or a rough cut on end of branch.

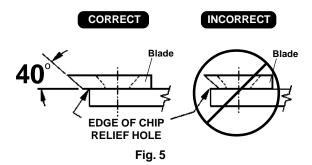
**Note:** The chipper blade gap is factory set and should be checked each time impeller is removed from engine crankshaft and reset if required. If reassembly requires a different quantity of shim washers, Billy Goat® shim washer must be used.

**11.** Using a 3/16" Allen wrench and 1/2" open end wrench, remove chipper blade from impeller.

**12**. Sharpen blade by lightly grinding the cutting edge of the blade at **40 degrees** (see fig. 5). It is not necessary to remove all nicks from the cutting edge. *CAUTION:* Be careful to avoid heat buildup in the blade during sharpening. This will reduce it's heat- treated hardness properties and will reduce blade life. Evidence of too much heat build-up is a change of color along sharpened edge.

**13**. The same chipper blade can be sharpened several times. However, blade replacement is required when blade no longer overhangs the chip relief hole in impeller back plate or if increased vibration occurs (see fig. 5).

14. Chipper blade installation is in reverse order of removal.



**15**. To reinstall impeller, use a new impeller bolt and lockwasher and use exactly the same crankshaft impeller shim washers as were removed during disassembly (unless they were damaged). *However, your unit may or may not have required the use of shim washers.* 

**16**. Tighten impeller bolt. Torque impeller bolt to 50 Ft. Lbs. (68 N·m) (see item 51 on page 11).

**17**. Slowly rotate impeller to insure proper chipper blade clearance. Check to see that gap between chipper blade and anvil surface (on lower side of housing top plate) measures between 0.040"(1.02mm) and 0.080"(2.03mm).

**18.** If gap is less than 0.040"(0.51mm), add shim washer 890130 (0.060"{1.52mm} thick) and/or 890131 (0.020"{1.02mm} thick), whichever is required. If gap is more than 0.080"(2.03mm), remove one or more shim washers as needed to obtain correct gap (see fig. 6 & fig. 7). The chipper will function at up to a maximum of 0.125"(3.18mm) gap.

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17.1

#### MAINTENANCE continued

#### IMPELLER REMOVAL and CHIPPER

**19**. If chipper blade properly clears anvil surface, proceed to step 20. If not, return to (step 14) and add or subtract shim washers as needed to obtain a correct gap.

**20.** Reinstall engine, impeller and jackshaft assembly components onto housing in reverse order of removal (see drive section on page 9).

**21.** Before connecting spark plug wire, slowly pull engine starting rope to insure that impeller rotates freely.

22. Reinstall spark plug wire.



fig. 6



fig. 7

Follow these hourly Maintenance Schedule maintenance intervals. Every Every 5 hrs Every 10 Every 25 Maintenance Operation Use or (Daily) hrs hrs Engine (See Engine Manual) Check for excessive vibration Clean Debris Bag Check bag strap tightness Inspect for loose parts Inspect for worn or damaged parts Lubricate Chains and Clutch Inspect Chains and Clutch

### 17.3) DRIVE

Chains are normal replaceable wear items. A new chain should not be used on worn sprockets. Sprockets should be replaced when replacing chains.



Stop engine and disconnect spark plug wire before making adjustments.

#### CHAIN ADJUSTMENTS

- 1. Remove chainguard (item 118) and 3 screws (item 81 & 71).
- 2. Inspect chains (items 87 & 88), for wear, (see chain replacement), lubrication and correct adjustment.

**3.** If adjustments are required, loosen 4 carriage bolts (item 90), that hold bearing brackets for jackshaft assembly.

**4.** Adjusting all (3) chains at same time is necessary and can be done by pulling jackshaft (item 93), up and forward.

**5.** Tension chains - similar to bicycle chain tightness with about 1/8" (3.2mm) deflection with light hand pressure midway between sprockets. A slightly loose chain is better than an over tightened chain. DO NOT over tighten.

**6.** With chains aligned and tensioned, and jackshaft (item 93), square and level, tighten carriage bolts (item 90).

7. Completely rotate drive wheels around several times to insure there are no excessively tight areas in the chain.

- 8. Repeat steps 4 thru 7 if chains need readjustment.
- 9. Reinstall chainguard (item 118).

#### CHAIN REPLACEMENT

**1.** With chain guard removed, loosen carriage bolts (item 90), that hold jackshaft (item 93), and bearing plates (item 101).

**2.** To replace inner chain (item 88), remove jackshaft assembly and install replacement chain.

**3.** To replace wheel chains (item 87), slide bearing plates (item 101), toward engine to loosen chains. Remove front wheels. Reinstall replacement chains with wheels and onto jackshaft sprockets.

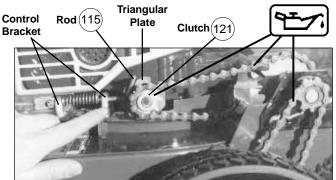
- 4. See steps 4 thru 7 for chain alignment and adjustment.
- 5. Reinstall chainguard (item 118).

### CLUTCH ADJUSTMENT

The clutch control cable is pre-adjusted at the factory, so when the bail is released, rod (item 115), engages clutch assembly (item 121), to stop forward drive motion and allow forward and backward free-wheeling. When the bail is held against handle, the clutch rod moves away from clutch assembly to allow drive engagement.

If drive will not disengage, adjust and align control bracket so that rod (item 115) fully contacts triangular plate on clutch assembly when bail is released (see fig. 8).

See lubrication intervals on Maintenance Schedule.



Fia. 8

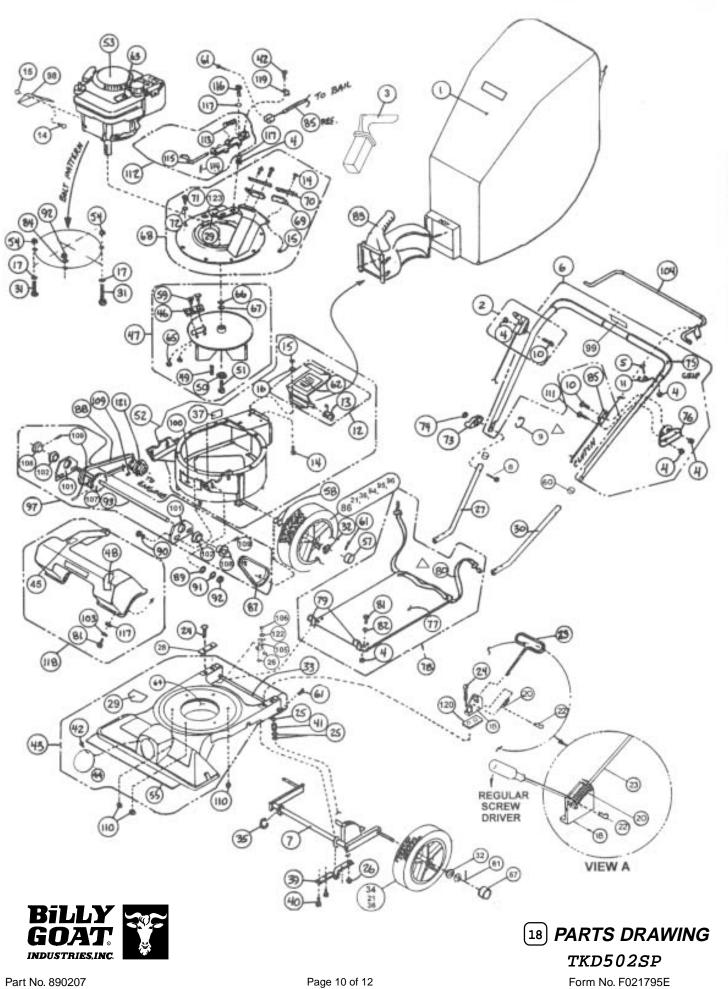
Part No. 890207

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MAINTENANCE



	Item	19 PARTS	Description	TKD502SP		
	No.	LIST	Description	Part No.	Qty.	
	1		(service assy) (incl. (2) of 4,5 & 11)	900806	1	
	2	TAMPER	BLY (INCL. 1 ea items 4, 10)	900514-02 890229	1	
	4	NUT LOCK (1/4 - 20				
	5	SCREW CAP ( 1/4 - 2	20 x 1-1/2 HEX )	*8160001 *8041008	9 2	
	6	HANDLE ASS'Y (incl.	890204	1		
	7 8	AXLE REAR - FRAM SCREW HANDLE 5/		900956 900547	1	
	8	CLAMP CABLE PLAS		900547 900813	2	
	10	SCREW CAP 1/4 - 20		*8041009	2	
	11	ROD - BAG LOOP		800178	2	
	12		S'Y (incl. items 13, 62)	890148	1	
	13 14	SPRING DOOR EXH		890142	1	
	14	SCREW CAP #10 - 2 NUT LOCK #10 NC	4 X 5/8	*8059135 *8164005	7	
	16	WASHER #10 FC		*8171001	2	
	17	WASHER LOCK 3/8	INT.	*8180011	2	
	18	BRACKET - HEIGHT	ADJUSTMENT	900932	1	
	19 20			000120	4	
	20	SPRING TIRE - ONLY (PER A		900136 900659	1	
	21	PIN - HAIR COTTER		900859	1	
	23	ROD SHORT HEIGH		890110	1	
	24	BOLT - CARRIAGE 5		*8024050	4	
	25	WASHER - FLAT 5/16		*8172008	12	
	26 27	NUT LOCK 5/16 - 18 HANDLE STUB	HΕX	*8160002 900911	5	
	27	PLATE HANDLE SUF	PPORT	900911 900933	1	
	20	LABEL DANGER CU		400424	2	
	30	HANDLE STUB		900912	1	
	31		6 X 2 1/2 WASHER FACE	900564	2	
	32	WASHER HUB CAP		900927	4	
	33 34	ROD BAG SUPPORT	「KD501SP 「(incl. items 21, 36 ) TREADED	900646 900760	1	
	34 35	WASHER 0.75 "CAST	I (IIIOL ILEIIIS Z I, SU ) INEADED	900760	2	
	36		TY PER WHEEL ASS'Y)	900498	2	
	37	LABEL EAR EYE BR	EATHING	890254	1	
	38			890189	2	
	39		PLATE BRACE REAR			
	40 41	SCREW CAP 1/4 - 20 SPACER	J X 1/2	*8041002 900926	4	
	42	SCREW SELF TAPPI	ING 10 - 24 x 1/2	*8123086	2	
	43		NOZZLE MAINFRAME ASS'Y (incl. one of items 29, 44, 42, 55, 64)			
	44	PLUG				
	45	LABEL OIL CHAIN	830502	1		
	46 47	BLADE CHIPPER IMPELLER ASS'Y (in	890101 890208-S	1		
	47	LABEL CHIPPER	890208-3	1		
	49	KEY 3/16 SQ. x 1.25	9201080	1		
	50	WASHER LOCK 3/8	400502	1		
	51	SCREW CAP 3/8 - 24	810962	1		
	52	HOUSING ASS'Y (ind	890202	1		
	53	ENGINE 5.5 H.P. Br	RIGGS & STRATTON DIAMOND PLUS	890186	1	
	54	NUT LOCK 3/8 16		*8160003	2	
	55	ROD BUMPER	900939	1		
	56					
	57	CAP HUB		900486	4	
	58	WASHER FLAT 1/2 S		*8172011	4	
	59 60	CAP END 1"	D. 5/16 - 18 x 3/4 GR. 8	890103 890132	2	
	61	PIN COTTER 3/32 x 3	3/4	*8197016	6	
	62	LABEL DANGER FLY	/ING MATERIAL	810736	1	
	63	LABEL HOT ENGINE		400268	1	
	64	GUARD FOAM INSE	900977	1		
	65 66	NUT KEPS 5/16 -18 WASHER SHIM 0.06	0" (1.52mm)	890104 890130	2	
	67	WASHER SHIM 0.00		890130	0-1	
	68		ncl. items 14, 15, 29, 69, 70, 71, 72)	890188	1	
	69	GUARD FLAPPER	890119	2		
	70	PLATE FLAPPER EN	890127	2		
	71 72		18 x 1/2 HEX HD. GR. 5	890149 890150	9 9	
	72	KNOB WING 5/16 - 1	WASHER LOCK CONICAL 5/16 KNOB WING 5/16 - 18			
	74	NUT LOCK 5/16 - 18		890108 *8161041	2	
	75	GRIP HANDLE		400570	2	
	76	BRACKET LOPPER		890161	1	
	77	PLATE BAG SUPPOR		900640	1	
	78 79	BAG SUPPORT ASS BAR SUPPORT HOC	'Y (incl. items 4, 77, 79, 80, 81, 82)	900647 900641	1	
		STRAP BAG SUPPO		900642	1	
	80 1			*8041004	6	
<u>~</u>	80 81	SCREW CAP 1/4 - 20				
	81 82	WASHER 1/4 SAE		*8172007	4	
4	81 82 83	WASHER 1/4 SAE CONNECTOR QUICH	K	890176	1	
4	81 82	WASHER 1/4 SAE				

\* Denotes standard hardware item that may be purchased locally.

△ Denotes parts found in parts bag assembly.

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		_				_		
	[19]	Item No.	Description		TKD502SP Part No.	Qty.		
	Parts List	86 87	WHEEL WITH SPROCKET ASS'Y CAST (21, 36, 3) CHAIN 52 PITCH	94, 95, 96)	890242 890239	2		
	continued from	88	CHAIN 40 PITCH		900323	1		
	page 11.	89 90	WASHER FLAT 5/16 (3/8 ID x 7/8 x 1/16) BOLT CARRIAGE 5/16 -18 x 3/4		*8171003 *8024039	4		
		91 92	WASHER SPRING LOCK 5/16 NUT REGULAR 5/16-18		*8177011 *8142002	4 5	* Denotes	
		93	JACKSHAFT		900320	5 1	standard hardware item	
		94 95	SPROCKET (PER ASSEMBLY) (SIZE # 65A26) SCREW SELF TAP 1/4-14 x 3/4 (PER ASSEMBLY)		890238 800505	1 5	that may be purchased	
	96 97		WASHER LOCK EXTERNAL TOOTH (PER ASSE		*8181007	5	locally.	
		98	JACKSHAFT ASS'Y (INCLUDE. 93, 101, 102, 107, 1 SHIELD MUFFLER TKDSP	08, 109)	890197 890190	1 1		
		99 100	LABEL CLUTCH LABEL-WARNING GUARDS		900328	1	Denotes parts found	
		101	BEARING PLATE		900317	2	in parts bag assembly.	
	102 103 104 105 106 107 108		BEARING BALL (WITH SNAP RING) WASHER LOCK 1/4		900321 *8177010	2 2		
			ROD BAIL CLUTCH ASS'Y (INCLUDE. GRIP) BAR BRACE HANDLE		900969 900768	1		
			SCREW CAP 5/16-18 x 3/4		*8041026	1		
			SPROCKET - 17 TOOTH SPROCKET - 8 TOOTH		900303 900302	1 2		
		109 110	ROLL PIN 3/16 DIA. x 1 1/4 LG. LOCKNUT 5/16 - 18 FLANGE		*8195166 850164	4 5		
		111	SCREW CAP 1/4 - 20 x 1 1/4	5)	*8041007	1		
		112 113	BRACKET CONTROL ASS'Y (INCL. 113, 114, 11 SPRING	5)	900221 900136	1 1		
		114 115	ROLL PIN 1/8" DIA. x 1 1/4 LG. ROD CLUTCH		*9195106 900208	1 1		
		116	SCREW CAP 1/4-20 x 1" LG.		*8041006	2		
		117 118	WASHER 1/4" FLAT (5/16 ID x 3/4 OD x 1/16) GUARD CHAIN ASS'Y TKDSP		*8171002 890195	6 1		
		119 120	CLIP-CLUTCH CABLE PLATE BRACE HT. ADJ. KD / TKD		900999 900756	1		
		121	CLUTCH DOUBLE RELEASE		900307	1		
		122 123	WASHER FENDER 5/16 LABEL READ OWNER'S MANUAL		*8172020 890301	1		
1	20) TROUB			uesting Service Re	eview These S	ugge	stions	
l	Problem						Solution	
ſ		till not vacuum or has poor racuum performance.       Dirty debris bag. Nozzle height set too high or to missing. Clogged nozzle or exhaust. Excessive         Poor chipping performance.       Extremely hard wood. Dull or damaged chipper         Ingine stalls or labors when       Feeding branches into chipper too rapidly. Engin				-	Shake bag clean or wash. Adjust nozzle height.	
	vacuum performance.			puantity of debris.	Checkfor hose kit cap. Unclog nozzle or exhaust (see page 5). Allow air to feed with debris.			
	Poor chipping performa			blade.	Avoid extremely hard wood. Sharpen or replace chipper blade (see page 8).			
ł	5			e service may be	Feed branches at a slowerrate. Service engine.			
ł	chipping.     required.       Abnormal vibration.     Loose or out of balance impeller or loose enginered.       Engine will not start     Throttle in off position. Out of gasoline. Bad or		required. Loose or out of balance impeller or loose engine	nr loose engine		Check impeller and replace if required. Check Engine.		
-				Check stop switches, thattle, and gasoline. Connect spark plug wire.				
	5	Spark Plug wire disconnected. Dir ty air cleaner.			Clean or replace air cleaner. Or contact a qualified service person.			
	No self propelling.		Operator's bail not releasing clutch. Broken or o	it of adjustment	Adjust clutch cable. Adjust bracket control assembly. Replace any			
			clutch cable.W orn or broken clutch assembly. Be	acket control.	worn or dam	aged or	r malfunctioning parts.	
-	assembly (item 112) out of adjustment.           Self propelled drive will not         Clutch cable out of adjustment. Clutch not hibrin		ated and is locked-	Adjust clutch cable. See page 9 Clutch Adjustment. Oil clutch.				
-	release. up. Engine is locked, will not Debr is locked in chipper blade, hopper or inside		impollon Thering	Soo 2000 5	Close	ing a clogged chipper hopper. Contact an engine		
l	pull over.	D.	problem.	препег. муле			regine problems.	
		Engine Service and Warranty					ANTY PROCEDURE	
10	Contact yo	our nea	rest engine manufacturer's authorized servicing dealer.				CARD and send the upper part to Billy Goat. tated 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				
Γ.	Image: Serial Plate         Record your machine model, serial number and date-of-purchase and where purchased							
ISLI	Image: Certain conditions of the condition of the conditis and the condition of the condition of the condition							
PA RTS LISI								
PA I					0		this is not available, the invoice or receipt.	
ц Ц				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.				
되								
ъ s к								
SHOOTING, PROCEDU				The decision by the Quality / Service department at Billy Goat headquarters to approve or reject a Warranty claim is final and binding.				
ROC								
01	Operator	lbs	s kg kW min <sup>-1</sup> @	Note: 1			Claim, it is necessary to quote the Model	
ЗLЕ NTY	Uperator			& Serial number who are printed on the Billy Goat Serial Plate.      BILLY GOAT INDUSTRIES INC.				
Purchase Purchased Date from					P.O. BOX 30	8 (1803	S JEFFERSON LEE'S SUMMIT, MO. 64063 / USA 666 FAX: 816-524-6983	
TF W AI	Part No. 890207			Page 12 of 12			Form No. F021795E	

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