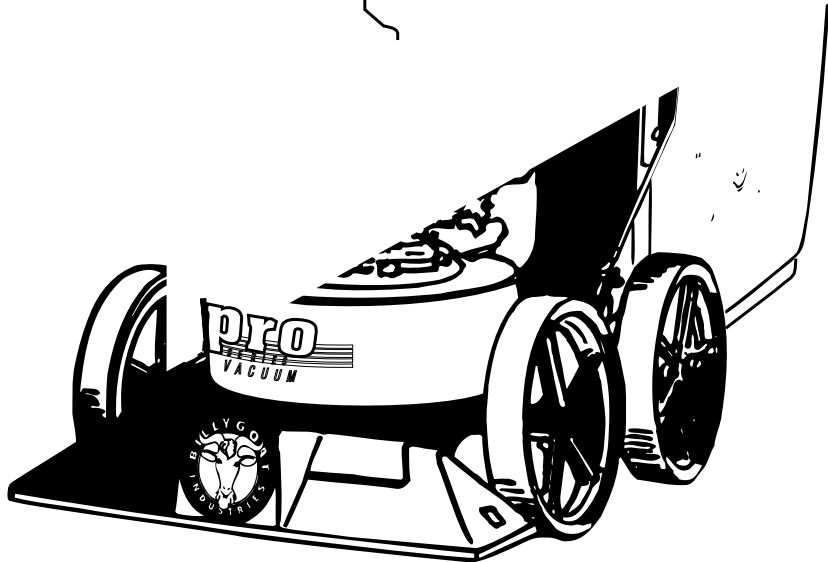




CE



NO
P/N
(STD
Exter
used
surfac

OPTION

STANDARD DEBRIS BAG COVER
P/N 890021

For use in leaves and grass in non-dusty conditions.

DEBRIS BAG COVER
P/N 900801

Directs dust downward away from operator.

ZIPPERLESS QUICK BAG
P/N 890309

For non dusty conditions that are damaging to zippers.

CASTER KIT
P/N 890412

For use on hard surface

*Thank You for Selecting
The Powerful KD VACUUM*

Operator Owner's Manual

KD511IC, KD511H, KD511HS, KD611

3

Specifications

	KD511IC	KD511H	KD511HS	KD611
ENGINE: H.P.	5.0 (3.73 kW)	5.5 (4.11 kW)	5.5 (4.10 kW)	6.0 (4.48 kW)
ENGINE: TYPE	B&S I/C	HONDA OHV	HONDA OHV	B&S INTEK I/C
ENGINE: FUEL CAP	1.5qt. (1.4 L)	2.01qt. (1.9 L)	2.01qt. (1.9 L)	1.6qt. (1.5 L)
ENGINE: OIL CAP	0.63qt. (0.6 L)	0.69qt. (0.65 L)	0.69qt. (0.65 L)	0.69qt. (0.65 L)
WEIGHT: UNIT	103# (46.7 kg)	112# (50.8 kg)	122# (55.3 kg)	145# (65.8 kg)
WEIGHT: SHIPPING	126# (57.2 kg)	135# (61.2 kg)	145# (65.8 kg)	168# (76.2 kg)
WEIGHT: ENGINE	24.38# (11.05 kg)	36# (16.3 kg)	36# (16.3 kg)	28# (12.7 kg)

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

5

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.



WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING: DO NOT

1. **DO NOT** run engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless 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, furnace, or water heater which use a pilot light or devices which can create a spark.
4. **DO NOT** refuel indoors where area is not well ventilated. 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 gasoline has evaporated.
9. **DO NOT** transport unit with fuel in tank.
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 NOT** run engine at excessive speeds. This may result in injury & /or damage to unit.

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** check for 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 muffler 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 any forest 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 laws 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.

WARNING: DO

1. **ALWAYS 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. **DO** pull starter 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 starting unit.

6 TABLE OF CONTENTS

SAFETY INSTRUCTIONS	2
GENERAL SAFETY	3
ASSEMBLY	3
PARTS BAG & CONTROLS	4
LABELS	4
OPERATION	5 - 7
MAINTENANCE	8 - 9
PARTS DRAWING & LIST	10 - 12
TROUBLESHOOTING	12
WARRANTY PROCEDURE	

Part No. 890033



7

SOUND

Sound tests conducted were in accordance with 2000/14/EEC and were performed on 2/21/2002 under the conditions listed:

NOTE: Sound power level listed is the highest value for any model in this manual. Please refer to serial plate on the unit for the sound power level for your model.

Sound level of 96 dBA at operator position



111 dB

(KD511H MODEL)

GENERAL CONDITION:	Sunny
TEMPERATURE:	45° F (7.2° C)
WIND SPEED:	5 MPH (8.1 kmh)
WIND DIRECTION:	South West
HUMIDITY:	60 %
BAROMETRIC PRESSURE:	30.18" Hg (767mm Hg)

OPERATOR

Page 2 of 8

8

VIBRATION

VIBRATION LEVELS 1.5g

Vibration levels at the operators handles were measured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment. Tests were performed on 05/19/95 under the conditions listed:

GENERAL CONDITION:	Sunny
TEMPERATURE:	62° F (16.7° C)
WIND SPEED:	5 MPH (8.0 kmh)
WIND DIRECTION:	South
HUMIDITY:	67 %
BAROMETRIC PRESSURE:	30.06" Hg (764mm Hg)


Form No. F022502C

GENERAL SAFETY

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



 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.

ASSEMBLY

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

 **PUT OIL IN ENGINE BEFORE STARTING**



PACKING CHECKLIST

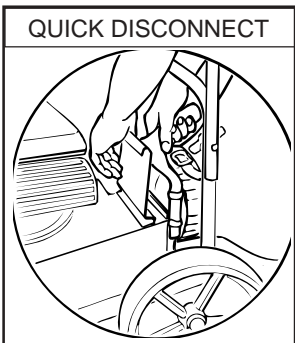
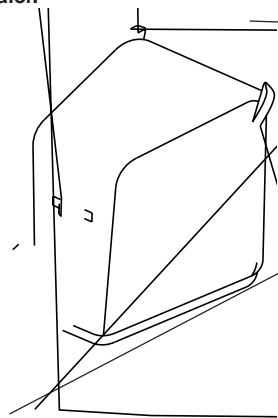
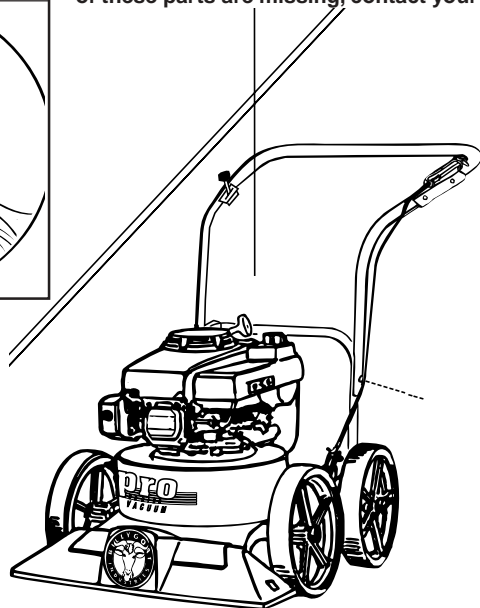


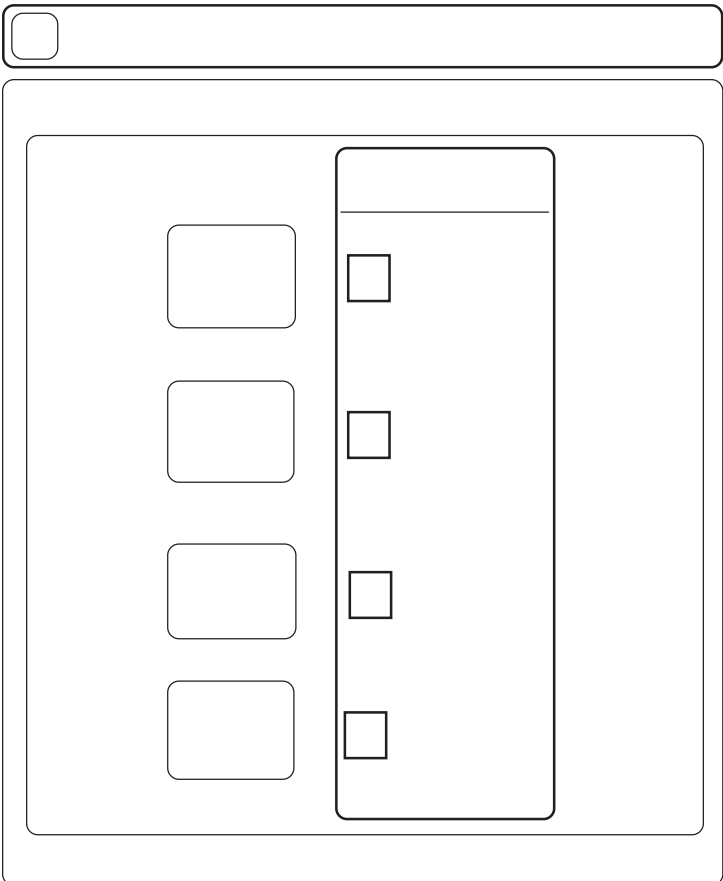
Fig. 2

These items should be included in your carton. If any of these parts are missing, contact your dealer.



Engine Manual Per Model

Check	<input type="checkbox"/>	Debris Bag
Check	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	



WARNING
EXPLOSIVE FUEL
STOP ENGINE AND ALLOW TO COOL BEFORE REFUELING.

DANGER
KEEP HANDS and FEET AWAY

DANGER

HONDA GXV 160
MAX. 5.5HP 163cc
4.0KW 163cm³

- Be sure to fill crankcase with recommended oil before using. For detailed explanation, see the OWNER'S MANUAL.
- Remplir le carter avec de l'huile recommandée avant démarrage. Pour l'explication détaillée, voir le manuel d'utilisateur.
- Vor Anlassen des Motors Ölstand prüfen. Lesen Sie Bitte die Bedienungsanleitung sorgfältig durch.

HONDA MOTOR CO., LTD. MADE IN JAPAN.

IN U.S.A. USE UNLEADED GASOLINE ONLY
IMPORTANT ENGINE INFORMATION
BRIGGS & STRATTON
CORPORATION FAMILY
DISPLACEMENT 163cc MODEL 12VOH

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.

16.1 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: Operated with throttle control (Honda only).

PRIMER: Push primer per engine instructions (B&S only).

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.

16.2 VACUUMING OPERATION

VACUUM NOZZLE HEIGHT ADJUSTMENT: is raised and lowered by pulling slightly upward on handle and pulling height adjust rod (item 23) up 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 durable gloves, remove clog. **Danger,** the clog may contain sharp materials. Reconnect spark plug wire.

16.3 HANDLING & TRANSPORTING:

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

16.4 DEBRIS BAG

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.
- 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.

16.5 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.

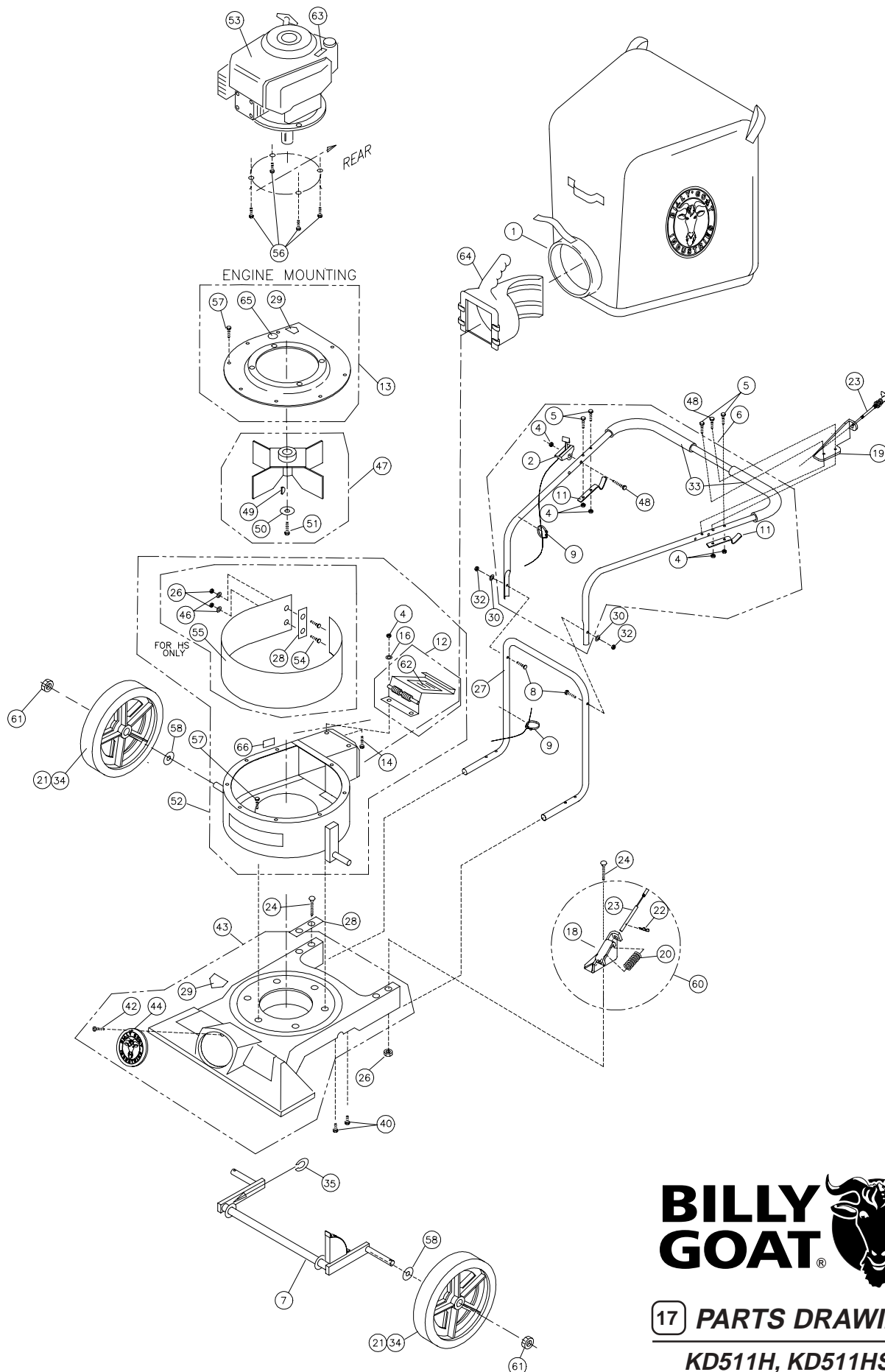


Do not store with debris in bag.

16.6 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.



18

* Denotes standard hardware item that may be purchased locally.

ITEM NO.	DESCRIPTION	KD511C Part No.	QTY	KD511H Part No.	QTY	KD511HS Part No.	QTY	KD611 Part No.	QTY
1	PRO DEBRIS BAG (service)	890023	1	890023	1	890023	1	890023	1
2	THROTTLE	850270	1	850270	1	850270	1	850270	1
3									
4	NUT LOCK (1/4 - 20)	*8160001	6	*8160001	6	*8160001	6	*8160001	6
5	SCREW CAP (1/4 - 20 x 1-1/2 HEX)	*8041008	4	*8041008	4	*8041008	4	*8041008	4
6	HANDLE ASSY (incl. items 4(5),5(5),11(2),75(2),76)	900054	1	900054	1	900054	1	900054	1
7	AXLE HEIGHT ADJUST	890389	1	890389	1	890389	1	890389	1
8	SCREW HANDLE 5/16 - 18 x 1 - 1/2	*8041030	2	*8041030	2	*8041030	2	*8041030	2
9	CLAMP CABLE	900407	2	900407	2	900407	2	900407	2
10	SCREW CAP 1/4 - 20 x 1 3/4	*8041009	1	*8041009	1	*8041009	1	*8041009	1
11	BAR BAG SUPPORT	900039	2	900039	2	900039	2	900039	2
12	DOOR EXHAUST ASS'Y (incl. item 62)	890148	1	890148	1	890148	1	890148	1
13	PLATE TOP ASS'Y (incl. items 14, 15, 29, 48, 57)	890402	1	890402	1	890402	1	890402	1
14	BOLT-CARRIAGE 1/4x3/4	*8024021	2	*8024021	2	*8024021	2	*8024021	2
15									
16	WASHER 1/4 FC ZP	*8171002	2	*8171002	2	*8171002	2	*8171002	2
17									
18	BRACKET - HEIGHT ADJUSTMENT	890021	1	890021	1	890021	1	890021	1
19	PLATE UPPER HEIGHT ADJUST	890005	1	890005	1	890005	1	890005	1
20	SPRING	900136	1	900136	1	900136	1	900136	1
21	TIRE - ONLY (PER ASSY)	900507	1	900507	1	900507	1	900507	1
22	PIN - HAIR COTTER	900471	1	900471	1	900471	1	900471	1
23	CABLE HEIGHT ADJUSTMENT	890019	1	890019	1	890019	1	890019	1
24	BOLT - CARRIAGE 5/16 - 18 x 4 1/2	*8024054	4	*8024054	4	*8024054	4	*8024054	4
25									
26	NUT LOCK 5/16 - 18 HEX	*8160002	4	*8160002	4	*8160002	6	*8160002	4
27	HANDLE LOWER KD510	890346	1	890346	1	890346	1	890346	1
28	PLATE HANDLE SUPPORT	900933	1	900933	1	900933	2	900933	1
29	LABEL DANGER CUT FINGER	400424	2	400424	2	400424	2	400424	2
30	WASHER FLAT CUT 5/16	*8171003	2	*8171003	2	*8171003	2	*8171003	2
31									
32	NUT LOCK 5/16 - 18 THIN HT.	*8161041	2	*8161041	2	*8161041	4	*8161041	2
33	GRIP HANDLE	400570	2	400570	2	400570	2	400570	2
34	WHEEL ASS'Y (incl. items 21)	900509	4	900509	4	900509	4	900509	4
35	WASHER 0.75 "C"	900997	0-1	900997	0-1	900997	0-1	900997	0-1
36									
37	SCREW SM 1/4x3/4 TYPE A	-	-	-	-	*8122082	4	-	-
38	PLATE SKID (incl. items 54)	-	-	-	-	890413	1	-	-
39									
40	SCREW CAP 1/4 - 20 x 1 - 1/4	*8041007	4	*8041007	4	*8041007	4	*8041007	4
41									
42	SCREW SELF TAPPING 10 - 24 x 1/2	*8123086	1	*8123086	1	*8123086	1	*8123086	1
43	NOZZLE MAINFRAME ASS'Y (incl. one of items 29,44,42)	890391	1	890391	1	890391	1	890391	1
44	PLUG	900146	1	900146	1	900146	1	900146	1
45									
46									
47	IMPELLER ASS'Y (incl. items 46, 59)	900215	1	900003	1	900003	1	900215	1
48	SCREW CAP 1/4-20 X 2	8041010	1	8041010	1	8041010	1	8041010	1
49	KEY	900162	2	900162	2	900162	2	900162	2
50	WASHER LOCK 3/8 TWISTED TOOTH	400502	1	400502	1	400502	1	400502	1
51	SCREW CAP 3/8 -24 x 1 (HARDENED)(TORQ.50 FT-LBS)(68N.m)	900154	1	900154	1	900154	1	900154	1
52	HOUSING ASS'Y (incl. items 12, 14, 15, 16, 66)	890371-S	1	890371-S	1	890417-S	1	890371-S	1
53	ENGINE HONDA 5.5 H.P. GXV160 KN12	-	-	900615	1	900615	1	-	-
	ENGINE BRIGGS & STRATTON 5 H.P. QUANTUM IC	890403	1	-	-	-	-	-	-
	ENGINE BRIGGS & STRATTON 6.0 HP INTEK EDGE							890387	1
54	BOLT CARRIAGE 5/16-18x3/4"	-	-	-	-	8024039	2	-	-
55	LINE PVC	-	-	-	-	900732	1	-	-
56	SCREW CAP 3/8 - 1-1/2 TAPTITE	890408	3	-	-	-	-	890408	3
	SCREW CAP 5/16 - 24 x 1"	-	-	400164	3	400164	3	-	-
57	SCREW CAP 1/4 - 20 x 1/2 WHH	890359	15	890359	15	890359	15	890359	15
58	WASHER FLAT 1/2 SAE	*8172011	4	*8172011	4	*8172011	4	*8172011	4
59	SCREW SOCKET HD. 5/16 - 18 x 3/4 GR. 8								
60	HGT ADJUST ASSY (INCL. ITEMS 18, 20, 22, 23)	890013	1	890013	1	890013	1	890013	1
61	1/2-13 CAP NUT NP W/PATCH	890530	4	890530	4	890530	4	890530	4
62	LABEL DANGER FLYING MATERIAL	810736	1	810736	1	810736	1	810736	1
63	LABEL DO NOT FILL WHEN ENGINE IS HOT	400268	1	400268	1	400268	1	400268	1
64	CONNECTOR BAG QUICK	890176	1	890176	1	890176	1	890176	1
65	LABEL READ OWNER'S MANUAL	890301	1	890301	1	890301	1	890301	1
66	LABEL EAR/EYE BREATHING	890254	1	890254	1	890254	1	890254	1



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.



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

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.W. Jefferson St.
Lee's Summit, MO
64082-2312 / USA
Tel (816) 524-9666
Fax (816) 524-6983

Model <input style="width: 90%;" type="text"/>	Serial No. <input style="width: 90%;" type="text"/>
Unit(Weight) <input style="width: 30%;" type="text"/> lbs. <input style="width: 30%;" type="text"/> kg	Engine Power <input style="width: 30%;" type="text"/> kW <input style="width: 30%;" 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 who are printed on the Billy Goat Serial Plate.

BILLY GOAT INDUSTRIES INC.
1803 S.W. JEFFERSON STREET LEE'S SUMMIT, MO 64082-2312 / USA
PHONE: 816-524-9666 FAX: 816-524-6983 www.billygoat.com

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>