THE GIANT-VAC

'Chip-n-Vac'

MODELS 55HV - 6-BV - 6-BVC

ASSEMBLY INSTRUCTIONS AND OPERATOR'S MANUAL

Congratulations!

You have just purchased one of the finest pieces of outdoor power equipment on the market today. If properly cared for, your Giant-Vac Chip-n-Vac will provide years of dependable service. Please read and follow this instruction manual carefully in order to get the most out of your new equipment.

First, inspect your machine upon delivery. Each Giant-Vac product leaves our factory in excellent condition; occasionally, however, some damage may occur during shipment. If any such damage is found upon initial inspection, *immediately* notify the transport carrier who delivered your machine, as they are solely responsible for the damage as well as any subsequent adjustments.

Your Giant-Vac Chip-n-Vac requires very little assembly. Simply follow the instructions contained within this manual to begin enjoying the benefits of your new unit.

CALIFORNIA PROPOSITION 65 WARNING

Gasoline and Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

As an owner of off-road gasoline or diesel engine equipment and/or as an employer, you also may have an obligation under the California Occupational Safety and Health Act or under Proposition 65 to warn persons exposed to gas and diesel engine exhaust and/or other Proposition 65 chemicals in and around your workplace. See California Health and Safety Code section 25249.5, Title 22 of the California Code of Regulations at Section 1200 *er seq.,* and Title 8 of the California Code of Regulations Section 5194.

REV 1 – 1/00

Manual No. 3079057 (1/2000)

1 SAFETY RULES REGARDING YOUR GIANT-VAC *'CHIP-N-VAC'*

IMPORTANT!

READ THE FOLLOWING SAFETY RULES *CAREFULLY* BEFORE ASSEMBLING AND OPERATING UNIT:

- **Regard your Giant-Vac Chip-n-Vac as a piece of power equipment and teach this regard to all who will operate this unit. Never allow children or young teenagers to operate the unit.**

- **Be sure to assemble the unit completely. If any parts are discovered missing during assembly, contact your dealer immediately; do not attempt to operate unit with missing parts.**

- **Always wear appropriate safety equipment when operating this unit. Proper eye, ear, and breathing protection is a must.**

- **Be sure you know how to stop the unit at a MOMENT'S NOTICE. Refer to the operation section of this manual.**

- **Do not operate with any guards or component parts removed from unit.**

- **Unless there is very good artificial light, use only during daylight.**

- **While in operation, keep all parts of body away from intake section of unit. Never insert any body part or other foreign object in any opening while the machine is running.**

- **The unit is designed with a safety feature that will not allow the unit to operate without the debris bag in place. DO NOT ATTEMPT TO DEFEAT THIS FEATURE.**

- **When operating unit, keep people and pets a safe distance away. Instruct children to keep away from the area of operation at all times.**

FAILURE TO FOLLOW THESE RULES CAN RESULT IN CHRONIC HEALTH PROBLEMS, SERIOUS INJURY, OR EVEN DEATH.

2 UNIT ASSEMBLY

HANDLE ASSEMBLY:

Please refer to Parts list for correct part identification and placement

UPPER HANDLE:

- Remove protective wax sheet from pivot joint between Lower handles (Parts List Ref. #43) and Upper handle (#47).

- Swing upper handle out, aligning it with angle of lower handles.

- Tighten Knob nuts (#51) securely. ***Note: This Knob nut pivot joint has been specially designed to allow for convenient, space saving storage of unit while in transport or when not in use. Simply loosen knob nuts and fold upper handle over engine.***

- Install eyebolts (#52) into top set of holes in upper handle by first threading one 5/16 hex nut (#54) roughly three quarters of the way down the length of eyebolt thread. Next, slide bolt through hole from outside of handle, securing with lockwasher (#53) and second nut (#54). Note: align eye of bolt in a vertical position.

  Note: At this point, operator may adjust height of handle assembly for most comfortable operation. Simply remove upper set of bolts securing lower handles to Mounting brackets (#39), realign handles in one of the three additional mounting positions, and replace bolts. **Be sure to tighten securely.**

THROTTLE CONTROL:

- Attach Throttle control (#58) to left side of upper handle (when viewed from operator's perspective) by inserting one 1/4-20x2 hex bolt (#59) through left side of hole in throttle control mounting bracket.

- Slide bolt through outside of hole, securing with lockwasher (#60) and hex nut (#61).

PRUNING SHEARS BRACKET (6-B-V-C ONLY):

- Attach Pruning shears bracket (#55) to left side of handle assembly by inserting one 5/16 x 1-3/4 hex bolt (#44) out through hole in bracket.

- Slide bolt through remaining hole in upper handle, between throttle control and knob nut.

2 UNIT ASSEMBLY (cont.)

- Secure with lockwasher (#45) and nut (#46). Note: align length of bracket in a horizontal position.

DEBRIS BAG ATTACHMENT

- Fasten snap clips on rear of bag to eyebolts on upper portion of handlebar assembly.

- Slip mouth of bag onto debris discharge chute (square scoop-shaped opening extending from rear of vac housing), making sure that tension pull strap around bag opening is forward of bag anti-slip bar (u-shaped bar welded to sides and bottom of discharge chute).

- Pull back firmly on strap slack to tighten mouth of bag around discharge chute.
  Note: Tighten mouth of bag securely to depress safety switch*****.

  *** IMPORTANT NOTE: THIS UNIT IS DESIGNED WITH A SAFETY LOCKOUT SYSTEM THAT WILL NOT ALLOW THE UNIT TO OPERATE WITHOUT DEBRIS BAG IN PLACE AND TIGHTENED SECURELY TO DISCHARGE CHUTE. DO NOT ATTEMPT TO DEFEAT THIS SAFETY FEATURE.**

Assembly of your Giant-Vac *'Chip-n-Vac'* is now complete. Please read the remainder of this manual in order to get the best and safest results from your new unit.

3 UNIT OPERATION

STARTING THE ENGINE

IMPORTANT NOTE: The procedures outlined within this section are general guidelines, and are in no way meant to replace or supercede engine manufacturer's operating instructions. In order to obtain optimum performance from your engine, refer to your engine manual.

BEFORE STARTING ENGINE:

- Be sure that the unit is completely assembled, all fasteners are tightened securely, and all safety guards and components are in place.

- Be sure to check engine's **oil** and **gasoline***. (See engine manual for recommended oil and gasoline specifications.) ***Never*** check the engine while it is running or while you are smoking. Check only when engine is cold.

**** All machines are shipped without oil or gasoline unless otherwise noted.***

TO START ENGINE :

- Set throttle control up to full position. Depress fuel prime button firmly three times. (Button is located on lower left side of engine front, opposite muffler)

- Bracing unit with left hand, grasp recoil handle and pull briskly with right. (You may have to pull several times before engine starts. If engine fails to start within a reasonable number of attempts, discontinue and check engine manual for further instructions.)

- After engine starts, move throttle control down to half.

CAUTION! Impeller is mounted directly to engine shaft; starting engine will immediately result in high velocity air intake and discharge. Be sure debris bag is properly secured to discharge chute, also be sure zipper on debris bag is fully closed. Failure to check may result in personal injury and/or property damage.

TO SHUT ENGINE DOWN :

- Allow engine to idle for 2-3 minutes before shutting down.

- Set throttle control down to 'stop' position.

IMPORTANT NOTE*: If you experience problems with your engine that cannot be satisfactorily resolved by following the instructions contained within the engine manual, contact your local engine dealer, or call the toll-free service number listed in the repair section of the engine manual. All engine service, warranty or otherwise, is required to be performed by a manufacturer-authorized service center. Giant-Vac Mfg., Inc. is neither authorized nor responsible for any type of warranty engine service, nor is it equipped to perform any such service.*

3 UNIT OPERATION (cont.)

OPERATING THE VACUUM

TO ADJUST HEIGHT OF VACUUM INTAKE:

- Relieve weight from back side of unit by raising handle slightly.
- Pull spring-loaded height adjustment T-handle fully out of Height adjustment cam assembly (#23).
- Raise or lower rear of unit until desired clearance between vacuum intake and ground is achieved.
- Release T-handle into hole in cam assembly closest to it.

GENERAL RULES TO OBSERVE BEFORE AND DURING OPERATION:

- Inspect your unit before each and every use. Check for ripped or worn bag, bent wheels, loose fasteners, and repair or replace prior to operation. **DO NOT OPERATE A DEFECTIVE UNIT – SERIOUS INJURY OR DEATH CAN RESULT.**
- Clear the entire work area of all debris that could cause damage to or become entangled in the unit. Rocks and large branches can wedge themselves between the impeller and housing, causing engine seizure, impeller damage, or personal injury. If in doubt, remove it.
- Do not start unit until you are ready to begin debris removal, and promptly shut off unit as soon as operation is complete.
- Set unit initially at approximately half throttle to begin debris removal. Increase as needed. For wet or frozen debris, increase throttle to full.
- Use proper discretion in selecting your debris removal pattern, especially on uneven terrain. Avoid steep hills, especially if surface is wet. Do not travel straight down slopes exceeding 14 degrees. If tires begin to slip when climbing a slope, the grade is too steep for safe operation. Angle the unit to a less steep slope until tires stop slipping and traction is regained.
- Be keenly aware of your surroundings while operating unit – children and pets can pop out of nowhere.
- Learn to listen to your machine – being aware of what a well-running unit sounds like can alert you to a potential problem. A straining engine, a clanging impeller means that trouble is almost sure to follow.
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3 UNIT OPERATION (cont.)

OPERATING THE CHIPPER *(6-B-V-C ONLY)*

CAUTION: Regard the chipper feature of this unit as a dangerous instrument. Failure to wear proper safety equipment, or practice safe operation, can result in serious injury. READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO OPERATE CHIPPER.

- **NOTE: DO NOT OPERATE THE CHIPPER UNLESS DEBRIS BAG IS SECURELY IN PLACE AND ZIPPER IS FULLY CLOSED.** Because of the high discharge velocity, debris can become dangerous flying projectiles, causing serious injury.

- It is best to gather up all the debris you desire to chip into a pile before operating the unit, to avoid leaving the unit unattended.

- Start engine and set throttle at approximately 3/4 full. Remove chipper chute push bar, and begin slowly feeding debris into the chipper chute. **CAUTION: DO NOT PLACE HANDS OR FINGERS INTO THE CHIPPER CHUTE.** Use the push bar to feed lengths of debris shorter than the chute into the chipper blade.

- This unit is designed to accept clippings and debris from trees and shrubs. **DO NOT ATTEMPT TO FEED ANY OTHER TYPE OF MATERIAL INTO THE UNIT, ESPECIALLY METAL. DOING SO CAN CAUSE EXTENSIVE DAMAGE TO THE UNIT, AS WELL AS SERIOUS PERSONAL INJURY.**

- This machine is designed to handle debris up to 2” in diameter. **DO NOT ATTEMPT TO FEED LARGER MATERIAL INTO THE MACHINE.** It can become jammed in the chipper chute.

- Before shutting the unit down, be sure to clear the chipper chute of any debris by pushing the chipper chute push bar fully into the chute. Also, allow the chipper to run a minute or two after the last debris has been inserted, to allow the chipper to clear itself out.

4 UNIT MAINTENANCE

IMPORTANT NOTE: Before performing any maintenance adjustments or repairs, stop engine and remove spark plug wire.

GENERAL UNIT MAINTENANCE (all models)

- Inspect unit thoroughly before each and every use. Tighten any loose fasteners, repair or replace any broken, bent, or worn parts *prior to operation*. **DO NOT OPERATE A DEFECTIVE UNIT – SERIOUS INJURY OR DEATH CAN RESULT.**

- Promptly replace debris bag if it is ripped, worn or has a defective zipper. **DO NOT OPERATE UNIT WITH DEFECTIVE BAG – SERIOUS INJURY OR DEATH CAN RESULT.**

- Keep unit free from accumulations of grass, leaves or excessive grease. **Any accumulation of these combustible materials may result in a fire.**

- Grease height adjustment cam assembly bearings every 50 hours of use.

- If possible, keep unit in closed, dry storage when not in use.

CHIPPER BLADE SHARPENING/REPLACEMENT *(6BVC)*

As with all cutting surfaces, the chipper blade on your Chip-n-Vac can eventually become dull. This blade can be removed for sharpening. Also, incorporated into the design of the Chip-n-Vac is a replacement chipper blade that doubles as a shear plate for the chipper. These two blades can be interchanged as needed. Either of these procedures can be performed as follows:

PRELIMINARY SETUP:

- Remove the spark plug wire to prevent inadvertant starting of unit while maintenance is being performed. **Draining the engine of all fluids is also recommended, as the engine base will be rotated to access and remove impeller.**

- Remove the engine base from the unit housing (by means of the 5/16 x 3/4” bolts, lockwashers, and nuts securing housing to the rear housing plate), exposing the impeller.

- Remove the impeller from the engine shaft by first removing the bolt and washers securing the impeller to the shaft, then sliding the impeller off the shaft. This may require the use of a prybar placed between the rear of the
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impeller and the rear housing plate and applying a generous amount of pressure. (Soaking the shaft with a liberal amount of penetrating oil beforehand can greatly reduce the amount of force needed to free the impeller.) If the impeller still cannot be removed, an Impeller puller may be required (Giant-Vac model 5811-P; part #31599).

SHARPENING THE CHIPPER BLADE:

- Remove nuts, washers, and bolts securing the chipper blade to the impeller.

- Grind the cutting surface lightly and evenly at a **40 degree angle** until sharp. Reinstall the blade onto the impeller, making sure the entire cutting surface extends just beyond the edge of the chip relief slot in the impeller. (Failure to do this may result in debris being caught in the impeller.)

INTERCHANGING THE CHIPPER BLADES:

- Remove the blades from both the impeller and the engine base plate, **making careful note as to how they are attached. Especially note that the *blunt end of the blade* (the end opposite the cutting edge) of the shear plate/replacement blade meets the impeller chipper blade as it rotates. Also, be sure to note the number and location of the blade shims that may have been used, as these serve to adjust the cutting gap tolerance crucial to effective chipper operation.**

- Swap the blades**, INSTALLING EACH EXACTLY THE WAY THE OTHER WAS REMOVED.**

  NOTE: INCORRECT INSTALLATION OF EITHER OF THE BLADES CAN RESULT IN SERIOUS DAMAGE TO THE UNIT, AS WELL AS SERIOUS PERSONAL INJURY.

CHECKING AND ADJUSTING BLADE GAP:

- Reinstall the impeller onto the engine shaft, securing with bolt and washers.

- Position the cutting blade on the impeller directly over the shear plate/replacement blade.

- Measure the gap between the two surfaces with a feeler gauge. **CORRECT GAP WIDTH IS .050-.080.**

- If adjustment is needed, it can be achieved by either removing or adding shims between the shear plate/replacement blade and the engine base plate (additional shims can be obtained through your Giant-Vac dealer - see parts list for part

numbers). **Note: impeller must be removed in order to add or remove shims.** Be sure to replace all chipper blade mounting hardware, tightening securely.

- Further check blade clearance by replacing engine base assembly into vac housing (replace all hardware - finger tight only), pulling recoil rope, and listening, as the impeller rotates, for any sound that may indicate contact between blade and shear plate. **(IMPORTANT NOTE: BE SURE TO WEAR SAFETY EYEWEAR WHEN PERFORMING THIS STEP - TEMPERED STEEL BLADES CAN SHATTER IF THEY CONTACT EACH OTHER AT ANY SPEED.)** If no contact is detected, tighten all hardware securely.

GIANT-VAC WARRANTY

GIANT-VAC, INC., here-in-after called Giant-Vac, warrants each new Giant-Vac to the original retail purchaser of the new Giant-Vac equipment to be free from manufacturing defects in normal service for a period of 1 year, unless it is used for rental purposes, which limits the warranty to 30 days. This warranty does not apply to engines, tires or other parts that are purchased and warranted by their manufacturer. Items such as bags, grass catchers, hoses and blades are not warranted, as these are considered expendable items. This warranty does not include equipment failures due to normal wear.

Any obligation under this warranty is expressly limited to the replacement or repair, at an authorized servicing Giant-Vac dealer, or at a point designated by us, of such parts as appear to us to have been defective. All defective parts have to be returned freight prepaid before credit will be issued.

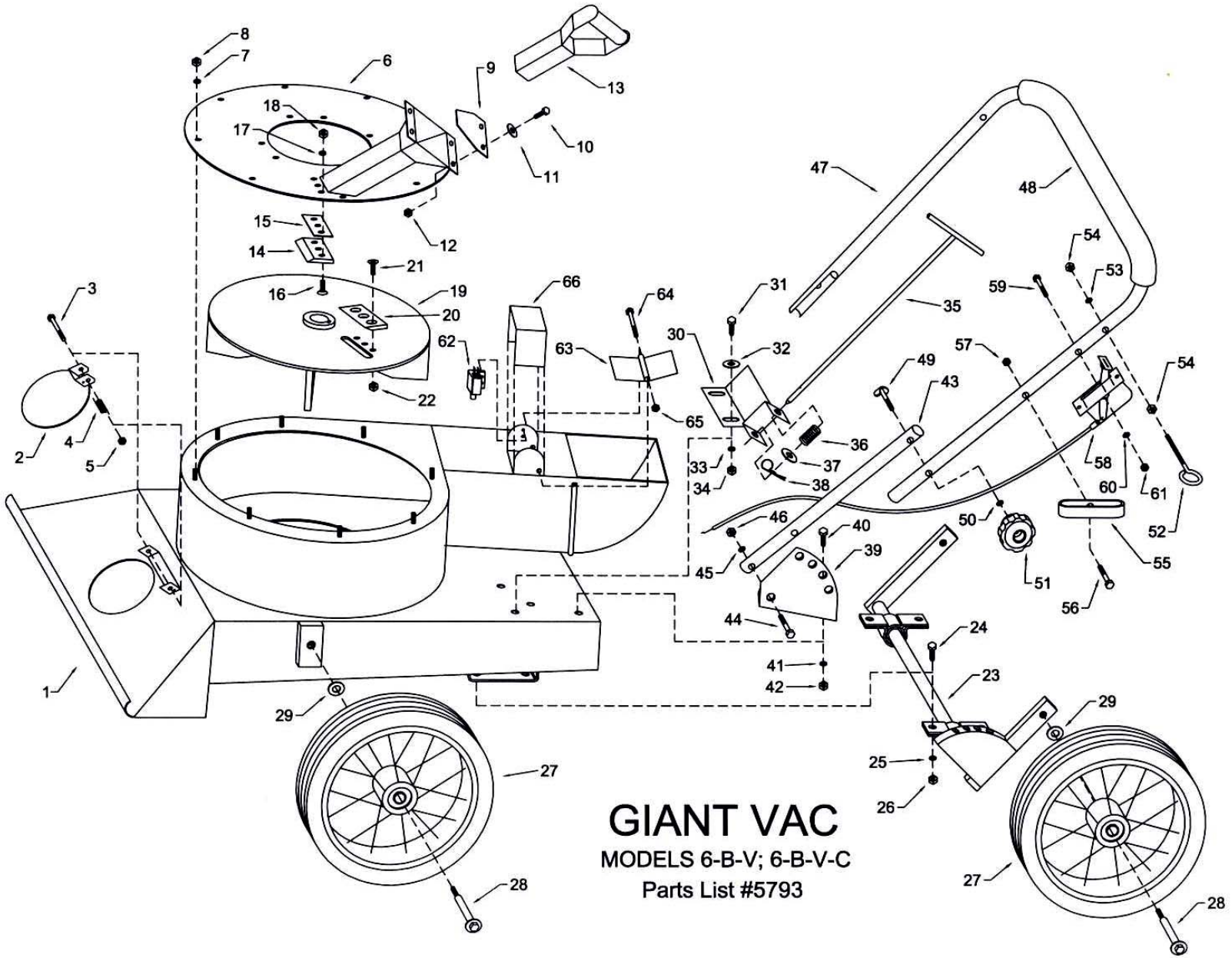
We shall not be liable for transportation charges in connection with the replacement or repair of defective parts.

This warranty does not apply to a Giant-Vac upon which repairs or alterations have been made by others except with our prior written approval.

We shall not be liable for consequential damages or contingent liabilities for the fitness of any Giant-Vac for any particular purpose.

We make no other express, implied or statutory warranty, nor is anyone authorized to make any in our behalf.

GIANT-VAC, INC.
P.O. BOX 195
SOUTH WINDHAM, CT. 06266
PHONE: 860-423-7741 • FAX: 860-423-2654


GIANT VAC
MODELS 6-B-V; 6-B-V-C
Parts List #5793

PARTS LIST NO. 5793 **GIANT-VAC MODELS 55HV - 6BV - 6BVC**

REF. #	PART #	DESCRIPTION	55HV	6BV	6BVC
1	10171	Vac housing & intake assembly	1	1	1
2	27310	Auxiliary intake cover plate	1	1	1
3	31706	1/4-20 x 2-1/2 hex bolt	1	1	1
4	31707	Torsion spring	1	1	1
5	31098	1/4-20 lock nut	1	1	1
6	10172	Engine base	1	1	----
6	10173	Engine base w/chipper chute	----	----	1
7	31003	5/16 lockwasher	8	8	8
8	31004	5/16-18 hex nut	8	8	8
9	20207	Chipper chute flap	----	----	2
10	31635	1/4-20 x 5/8 hex bolt	----	----	4
11	31317	1/4 flatwasher	----	----	4
12	31098	1/4-20 lock nut	----	----	4
13	20208	Chipper chute push bar	----	----	1
14	21565	Chipper blade	----	----	1
15	27277	1/16 blade spacer plate	----	----	Varies
15	27278	3/32 blade spacer plate	----	----	Varies
16	31648	5/16-18 x 1 hex flathead cap screw	----	----	3
17	31003	5/16 lockwasher	----	----	3
18	31004	5/16-18 hex nut	----	----	3
19	21580	Impeller – 55BV	1	----	----
19	21571	Impeller – 6BV	----	1	----
19	21572	Impeller – 6BVC	----	----	1
20	21565	Chipper blade	----	----	1
21	31702	5/16-18 x 3/4 hex flathead cap screw	----	----	3
22	31436	5/16-18 lock nut	----	----	3
23	33199	Rear axle/cam assembly	1	1	1
24	31400	5/16-18 x 3/4 hex bolt	4	4	4
25	31003	5/16 lockwasher	4	4	4
26	31004	5/16-18 hex nut	4	4	4
27	33200	12” steel spoked wheel	4	4	4
28	31698	Axle bolt (1/2 x 2-1/2 shank)	4	4	4
29	31703	Wheel spacer	4	4	4
30	37129	Height adjuster bracket	1	1	1
31	31400	5/16-18 x 3/4 hex bolt	2	2	2
32	31027	5/16 flatwasher	2	2	2
33	31003	5/16 lockwasher	2	2	2
34	31004	5/16-18 hex nut	2	2	2
35	37130	Height adjustment T-handle	1	1	1
36	31704	Spring	1	1	1
37	31034	3/8 flatwasher	1	1	1
38	31705	Large bridge pin	1	1	1
39	37132	Lower handle adjustment bracket - left	1	1	1
39	37133	Lower handle adjustment bracket - right	1	1	1
40	31400	5/16-18 x 3/4 hex bolt	2	2	2
41	31003	5/16 lockwasher	2	2	2
42	31004	5/16-18 hex nut	2	2	2
43	23221	Lower handle	2	2	2

REF. #	PART #	DESCRIPTION	55HV	6BV	6BVC
44	31002	5/16-18 x 1-3/4 hex bolt	4	4	4
45	31003	5/16 lockwasher	4	4	4
46	31004	5/16-18 hex nut	4	4	4
47	23221	Upper handle	1	1	1
48	31590	Foam handle grip	1	1	1
49	31709	5/16-18 x 2 curved head bolt	2	2	2
50	31003	5/16 lockwasher	2	2	2
51	31626	5/16-18 knob nut	2	2	2
52	31618	5/16-18 x 3-1/4 bent eye bolt	2	2	2
53	31003	5/16 lockwasher	2	2	2
54	31004	5/16-18 hex nut	4	4	4
55	27269	Pruning shears bracket	1	1	1
56	31294	5/16-18 x 1-1/2 hex bolt	1	1	1
57	31436	5/16-18 lock nut	1	1	1
58	35012	Throttle control	1	1	1
59	31710	1/4-20 x 2 hex bolt	1	1	1
60	31013	1/4 lockwasher	1	1	1
61	31030	1/4 hex nut	1	1	1
62	31480	Safety switch	1	1	1
62a	31582	#8-32x1/2 machine screw, lockwasher & nut	2	2	2
63	37131	Safety switch lever	1	1	1
64	31706	1/4-20 x 2-1/2 hex bolt	1	1	1
65	31098	1/4 lock nut	1	1	1
66	37134	Safety switch cover	1	1	1

ITEMS NOT SHOWN

39093	5.5HP Honda Engine	1	----	----
39079	6HP Briggs & Stratton Intek Engine	----	1	1
31006	5/16-18 x 1-1/2 hex bolt (engine mounting)	2	2	2
31811	5/16-24 x 1 hex bolt (engine mounting)	3	----	----
31631	5/16-18 x 2-1/4 hex bolt (engine mounting)	----	1	1
31003	5/16 lockwasher (engine mounting)	5	3	3
31004	5/16-18 hex nut (engine mounting)	2	3	3
31865	Engine shaft step bushing – 7/8” to 1”	1	----	----
31866	#6 Woodruff key – 5/32	1	----	----
31867	#8 Woodruff key – 5/32	1	----	----
31700	Impeller shaft key – 1/4 x 1/4 x 1-1/2	----	1	1
31701	3/8-24 x 2 Impeller bolt & washer group	1	1	1
31708	Safety switch wiring harness	1	1	1
836	Debris bag	1	1	1

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE