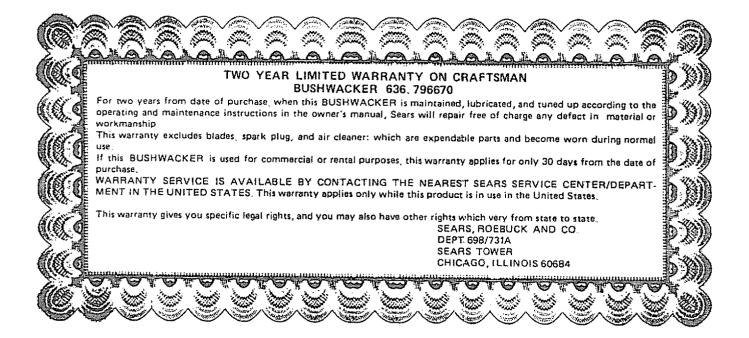


Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.



SAFETY RULES AND PRECAUTIONS

- Before each operation, make sure that the screws are not loose or missing, that the components are not damaged, and that the blades are not chipped off or cracked. If a blade is chipped or cracked replace it with a new one.
- 2. Do not attempt engine or blade adjustments or refueling before allowing the engine and muffler to cool.
 - a. Do not remove the fuel tank cap while the engine is running or when it is still hot.
 - b. Clean off fuel tank cap area before refueling. Do not smoke while refueling.
 - c. Take care not to spill any fuel. If it is spilled, wipe it off.
 - d. Never operate on gasoline only. As this engine is of 2-cycle type, use mixed fuel whose mixture ratio is 16:1 (1 gal. gasoline to 8 oz. oil) and a proper lubrication oil such as Sears Catalog Number 36555.
- Do not operate the machine when your physical condition is not good. Never touch the plug cap during operation to protect yourself from electric shock.
- Never operate the machine wherever ventilation is not enough.
- 5 Before starting the engine, make sure that the blade does not touch anything In startup of the engine, be careful not to turn the blade toward bystranders. Position BUSHWACKER securely. (In startup, place BUSHWACK-ER in a level place so as to prevent the blade from moving)
- 6 Wear safe clothes (safety shoes, goggles, earmuffs, gloves, etc.) Never wear loose clothing or jewelry while operating your BUSHWACKER.

- 7. Do not admit any persons or animals within the working area (30 feet or less from the site). When plural operators work together in the same place, maintain at least a 30 feet distance from each other and exchange warning shouts if necessary. Pay special attention to keep by-standers, especially children away from the working site.
- Stop the engine and pay special attention to the blades whenever you carry the BUSHWACKER from one place to the next before and after operation.
- 9. Never let any child handle the machine.
- Use BUSHWACKER only for cutting of young trees, grass, etc. of which diameter is 0.2" or less. Never use BUSHWACKER to cut metals or other hard materials.
- 11. Never operate BUSHWACKER in a bad weather condition (rain, snow, strong wind, abnormal atmospheric temperature, etc.)
- 12. Keep this manual in place so that one can refer to it repeatedly for safety operation and to teach possible users how to operate the machine.



CAUTION: The operation of any BUSH-WACKER can result in Foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before commencing power tool operation. We re-

commend Wide Vision Safety Mask for over spectaclas or standard safety glasses, available at Sears Retail or Catalog Stores.

KNOW YOUR BUSHWACKER

Your new BUSHWACKER has been carefully packed at the factory to prevent damage during shipping and storage, however, even with the best of preventative measures, damage does sometimes occur. It is recommended that you follow the check out procedures listed below:

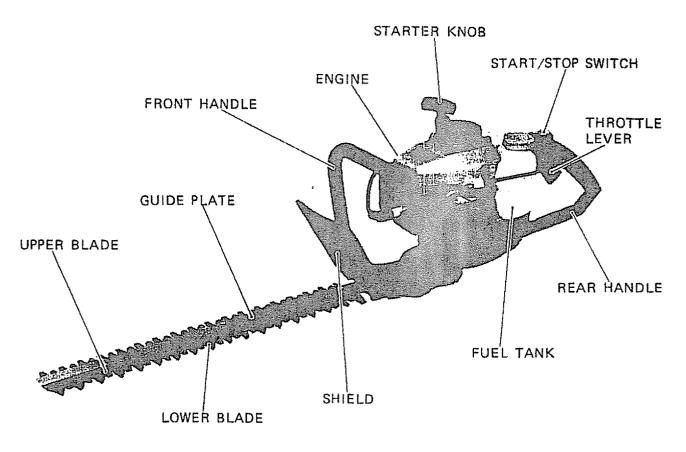
Remove all items from the carton, lay them out and check the parts to be sure that you have everything required for assembly. Also check carefully for any visible damage. (IN THE EVENT THAT SOMETHING IS DAMAGED OR MISSING OR BOTH, NOTIFY YOUR SEARS STORE IMMEDIATELY.)

You should familiarize yourself with the various parts of your BUSHWACKER before attempting to assemble or operate the unit. Refer to drawing below.

SPECIFICATIONS

	TYPE	2 cycle air-cooled		OVERALL LENGTH	18"
	DISPLACEMENT	20.3 cc (1.24 Cu. In.)	ш	TOOTH PITCH	0.98"
ш	CARBURETOR	Diaphragm type	AD	ENGINE RPM	8000 rpm
NIGIN	FUEL TANK CAPACITY	17.5 U.S. fl. oz. (0.5£)	BL	CUTTING STROKES	32.2 times/sec (8000 rpm)
ш	SPARK PLUG	NGK BM7A or CHAMPION CJ 6.			
	LUBRICATION	Fuel oil Mixed 16 to 1 (1 gal. gasoline to 8 oz. oil)		CLUTCH TYPE	Dry Centrifugal
DR	YWEIGHT	10.5 lbs (4.8 kg)	1	CLUTCH ENGAGE-	3800 rpm ±200 rpm
DI	MENSION	35.5 x 8.7 x 8.6 in.		BLADE DRIVE	Double cam drive

*SEARS CATALOG NUMBER-36402



* Specifications are subject to change without notice.

PREPARING FOR OPERATION

Fuel and oil mixture

Inspect the fuel tank and fill with clean, fresh fuel of the proper mixture. This engine requires a mixture of 16 parts gasoline to 1 part oil (1 gal gasoline to 8 oz oil) Use 71-36555 Craftsman Engine Oil or a high grade two cycle engine oil.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

DO NOT MIX GASOLINE AND OIL DIRECT-LY IN THE ENGINE FUEL TANK.

IMPORTANT: Failure to follow proper fuel mix instructions could result in serious damage to the engine.

CAUTION:

When preparing fuel mixture, mix only the amount needed for the job you are to do Do not use fuel mixture that has been stored longer than two (2) months Fuel mixture stored longer than this will cause hard starting and poor performance. If fuel mix has been stored longer than this time it should be replaced and filled with a fresh mixture.

CAUTION! NEVER over Fill Fuel Tank

NEVER add fuel to the tank in a closed un-ventilated area. DO NOT add fuel to this unit near an open fire or sparks. BE SURE to wipe off spilled fuel before attempting to start the engine.

DO NOT attempt to refuel an extremely hot engine.

Check points before operation

CHECK for loose bolts, nuts and fittings

Clean the air filter of all dirt, etc. before the operation.

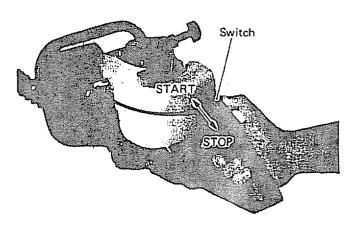
PRECAUTIONS DURING OPERATION

- 1. If the blades have stopped on account of a branch caught during the trimming, be sure to stop the engine and eliminate the branch. Refrain from cutting too hard or too thick a branch (over ¼" in diameter).
- When the machine is running, never touch the blades. Never point the blades toward a person.
- 3 Hold BUSHWACKER firmly with both hands.
- 4. The engine speed must not be excessive but just enough to do the cutting

- 5. To avoid a burn, do not touch the engine during the operation or immediately after stopping the engine. Handle the engine after it is completely cooled.
- Never operate BUSHWACKER on unstable ground or standing on tiptoe. Never use it while climbing a ladder.
- Do not use the BUSHWACKER continuously for a long time. It is normal to take a break of 10 to 20 minutes after every 50-minute operation.
- 8. Never leave the BUSHWACKER running unattended.
- 9. If there is any trouble during operation, be sure to stop the engine first. (Move the switch to STOP.)

STARTING AND STOPPING

 When starting the engine, set the switch to START. (Figure 1)





 The choke control is a "Lever" type. (See. Figure 2). To choke the engine, push the choke lever to "Close" position. NOTE: If the engine is warm, it may be started with the choke lever mid-way between "OPEN" and "CLOSE", depending on the individual engine.

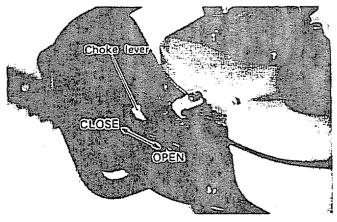


Figure 2

3. Pull the throttle lever a little, push the throttle knob and lock the throttle lever at the starting position. (Figure 3)

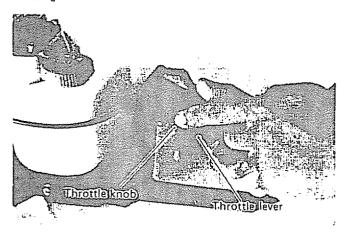
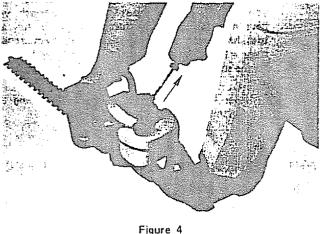


Figure 3

4. Pull the recoil starter several times. (At this time, hold the machine securely so as to keep it fixed.) (Figure 4)

The carburetor is not filled with fuel. Pull the starter 7 to 8 times to feed up fuel from tank to carburetor.

- Caution: Never let go of the starter rope from its fully extended state. Return the starter rope to its original position while holding it securely.
 - Be careful not to break the starter rope,



- 5. After starting, open the choke lever by degrees to the full and reset the throttle lever to the low speed, while checking the engine operating state.
- Caution: In starting of the engine and during operation, be fully careful to keep bystanders or obstacles off the operating side and confirm safety requirements for operation.
- 6. After starting the engine, warm up the engine (for about 5 minutes at medium speed). Immediately after starting, speed up the engine slowly. Never open the throttle fully

without a load, otherwise the engine will run at a high speed reducing engine life.

Stopping the Engine

- Reduce the engine rpm to idle by releasing the throttle. 1
- 2. Set the stop switch to stop. (Figure 1)

Blade sharpening

If the edges are rounded and do not cut well any more. grind off only the shaded portions. Do not grind the contact surfaces (sliding surfaces) of the top and bottom edges. (Figure 5)

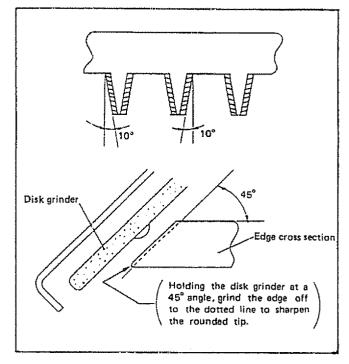


Figure 5

- Note: 1) Before grinding, be sure to secure the blade firmly
 - 2) Wear gloves, protective glasses, etc.
 - 3) An edge ground too much at a time or ground many times will loose its hardened layer. It becomes rounded and dull very quickly in use. Order replacement blades from Sears Repair parts.

Adjustments

SPARK PLUG MAINTENANCE - If the spark plug electrode area has an excess of carbon buildup, the efficiency of the plug will be seriously reduced. REMOVE THE CARBON WITH A SPARK PLUG CLEANER OR WIRE BRUSH.

After cleaning the spark plug RESET THE ELECTRODE GAP TO .024-028 .

Carburetor

Proper adjustment of the carburetor is very important to the operation of this engine. The carburetor has been carefully adjusted at the factory and therefore should not require any further adjustment.

Adjustment of Engine Idling

If the blade happens to run in idling, adjust the cable adjuster of the throttle wire to stop blade movement in idling.

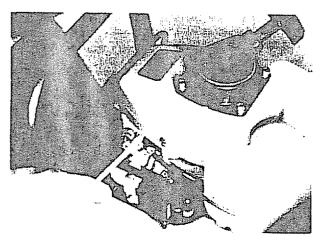


Figure 6

STORAGE AFTER OPERATION

- Clean every part, repair faulty sections, and apply a thin coat of oil on metal parts to prevent rust. In cleaning the machine, always use a clean cloth. Never use strong solvents, such as gasoline.
- If the BUSHWACKER will not be used for a long period of time, drain the fuel from the tank, then start the engine and keep the engine running until it consumes all the fuel left in the carburetor.
- 3. Store the BUSHWACKER in a clean and dry place. Always keep children away from the machine.
- 4 Remove the spark plug, inject a small amount of engine oil through the spark plug hole. Then pull the recoil starter a few times to put a thin coat of oil on the cylinder. Install the spark plug again when the piston has stopped at a top dead center.

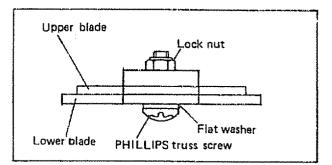
It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Follow these instructions:

BLADE ADJUSTMENT

(Performed with engine stopped.)

The blades wear with use when you notice a decrease in cutting performance adjust the blades as follows,



Cross-sectional view of blades

- (1) Loosen lock nut.
- (2) Tighten truss head screw lightly until it stops turning. Then turn it back one-fourth to one half turn.
- (3) Tighten lock nut. Lubricate the blades after adjustments.
- (4) Start the engine and operate the blades at high the speed for a minute or so,
- (5) Stop the engine and carefully feel the blades with your hand. If they are just warm to the touch, you have made the proper adjustments, but if they are too hot for you to keep touching them, repeat steps #1. #2 and #3 above backing off slightly more on the screw.
- Note: Never fail to stop the engine before making the adjustments.

PREVENTATIVE MAINTENANCE CHECK LIST AND STORAGE TIPS

Be sure the engine and all other parts are clean.

Check all nuts, bolts, screws, etc. making sure they are tightened and secured as they should be.

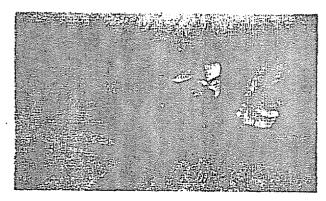
Inspect carefully for any fuel or oil leaks.

Check the air cleaner assembly for excessive dust or dirt. If the filter requires cleaning, use the following procedure: Remove the filter and wash in soap and water or blow off with compressed air. DO NOT clean filter in gasoline or other flammable solvent.

Inspect the muffler exhaust port (tail pipe). If there is any clogging, remove carbon particles adhering to it.

MAINTENANCE

 In every 10-20 hours, inject one or two ounces of grease through a grease nipple installed in the gear case of the BUSHWACKER. Be sure the engine is stopped while greasing the gear case.



- Figure 7

2 Stop the engine before lubricating the blades during the cutting operation. Frequent lubrication using a light weight oil during cutting will greatly add to blade life.

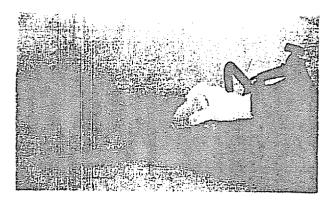


Figure 8

MEMO

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Figure 7

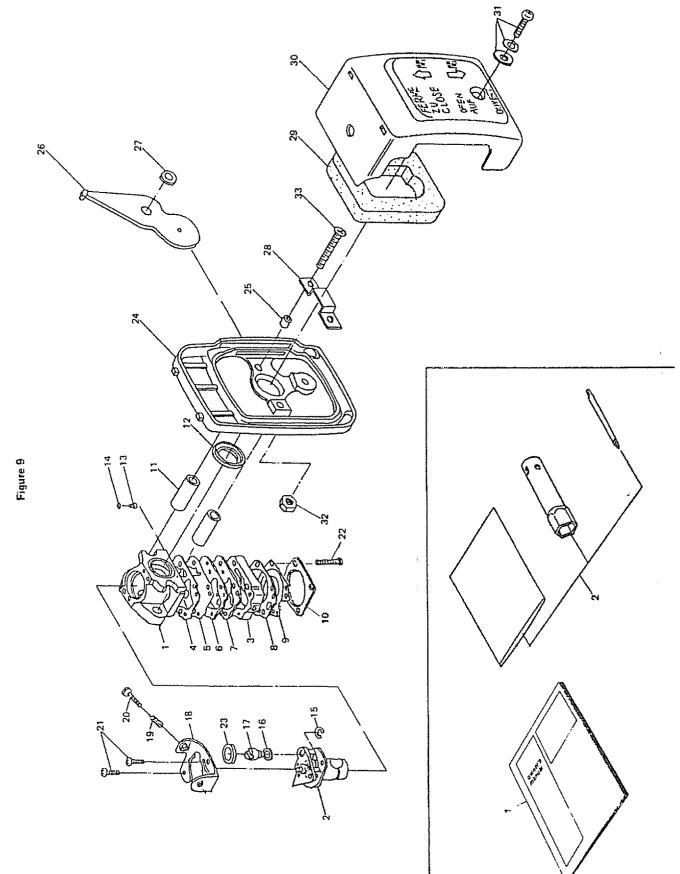
DESCRIPTION	Bearing	Screw (M3 × 5)	Plate, rod slide	Feit	Lower blade	Lower case	Bolt (M5 x 16) (Washer/Spring washer)	Bolt (M5 x 20) (Washer/Spring washer)	Washer	Screw																																
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PART NO.	901-081	900-040	030-110	118-101.	118-134	118-104	900-257	900-258	008-250	008-247																																
KEY NO.	43	44	45	99	47	48	49	50	51	52																ar)																
DESCRIPTION	Rear handle ass'y (incl. 2~15)	Screw (M4 × 10)	Holder, cable	Plate, wire	START/STOP switch	Throttle lever	Shap ring	Pin, lever	Spring	Fixing knob	Rear handle (L)	Screw (M4 x 16)	Screw (M4 x 30)	Rear handle (R)	Hexagon nut (M4)	Plain washer (M6)	Spring washer (MG)	Bolt (M6 x 50)	Hexagon nut (MG)	Plain washer (MG)	Spring washer (MG)	Bolt (M6 × 40)	Drum	Drum collar	Upper case	Bolt (M6 x 30) (Washer/Spring washer & washer)	Front handle (incl. shield)	Bolt (M6 x 15) (Washer/Spring washer)	Flange nut (M5)	- Lock nut (M6)	Hexegon U-nut (MG)	Guide plate	Nipple, gresse (MG)	Bearing	Bearing	Pinian	Gear, crank	Crank	Hod ass'y	Screw (M5 × 10)	Screw (M5 x 16)	Upper blade
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PART NO.	118-110	900-140 N	118-121	118-111	118-001	118-115	902-050	118-112	118-114	118-113	118-109	900-141A	900-142 h	118-108	900-100/	900-321	900-320	900-348	900-301	900-321	900-320	900-347	027-142	027-146	118-103	900-349	118-130	900-340	900-203	900-301	000-006	118-132	902-001	901-101	901-061	118-102	118-131	118-135	118-100	900-256	900-255	118-133
KEY NO.	4	7	e	4	5 C	9	Ŀ	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42

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636, 796670
PARTSLIST-MODEL
BUSHWACKER
SEARS

Figure 8

DESCRIPTION	Heat insulator (incl. 47)	Nut (M5)	Heat insulator packing	Gasket (WY)	Spacer	Plate	Woodruff key	Filter	Body ass'y filter	Clip filter	Filter felt	Retainer filter	Packing filter	Holder clamping bolt ass'y (M6x14)	Tapping screw (A) (M5x16)	Tapping screw (B) (M5x20)	Washer	Bolt ass'y (M6x16)	Washer (MG)	Screw (M5x16)	Screw ass'y (M5x25)	Screw ass'y (M5x18)	Bolt (Socket head) (M5x18)	Screw (M6x20)	± Screw ass'y (M5x22)	Label	Label	Throttle wire	Clutch compl. (incl. 79 \sim 83)	Holder	Clutch shoe	Clutch bolt	Spring (Clutch)	Washer (A)	Washer (B)	Washer (MS)	Labet								
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PART NO.	EC02E-0309A	00217-0500-0	EC02ER-3128A	EC02E-3112A	118-124	EC02E-5111/1	00532-0310-1	EC01A-6040	5-2328	43-53	125-59	108-147	106-17	NB23-2001	EC02E-5102	EC02E-5113	EC03F-3995 N	00113-0616-0/	00312-0600-0	00431-0516-0	00435-0525-0	00436-0518-0	0119-05987-0	00411-0620-0	EC02-9522	EC02ER-5120	EC02ER-5121	EC02ER-0903	NB16-2051	NB02A-201A	NB26-2102	NB26-2103	NB16F-2104	NB02A-206	NB02A-207	00312-0500-0	EC04-9112								
KEY NO.	46	47	48	49	20	51	52	53	54	55	56	57	83	59	60	61	62	63	64	65	66	67	88	71	72	£7	74	75	76	11	78	79	80	81	82	83	64								
DESCRIPTION	Crank case compl. (incl. 2~4)	Oil seal	Ball bearing	Crank case packing	Cylinder	Spark plug (NGK BM7A or CHAMPION CJ 6)	Cylinder packing	Cylinder cover	Crank shaft compl.	Piston	Piston pin	Piston ring	Clip	Fun cover	Recoil starter compl.	(incl. 17~27)	Starter knob	Spiral spřing	Starter rope	Reel	Dog	Starter case	Wave washer	Starter pulley	Retainer	Washer	Center screw (M5)	Muffler ass'v	Muffler gasket	Muffler clamping bolt	Muffler cover	Spark arrester	Fuel tank	Fuel tank cap compl.	Spacer	Rubber tube	Hose clamp	Clamp	Magneto compl. (incl. 40, 41)	Fly wheel	Ignition coll	Plug cap compl. (incl. 44)	Gromet	Plug cap spring	Lead compl. (B)
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PART NO.	EC02E-S0120A	0440-12999-1	0600-12992-0	EC02E-1103A	EC02EH-1107B	0650-14981-0 /	EC02E-1104B	EC02ER-5116A-RB	EC02E-0201D	EC02E-21048	EC02E-2106	EC02E-2107	0565-07999-0	EC02ER-5119-AB	EC02E-0512		5215005140	5215005020	5215005130	5215005030	5215005040	5215005010	5215005050	5215005150	5215005110	5215005120	5215005060	EC02ER-0312	EC01A-3020	EC02EF-3164	EC02ER-3133A-TA	EC02E-3145/1	EC02ER-61068	5216004002	EC01R-6501	EC02EH-0610	EC01A-6070	EC06A-0412	EC02ER-0702	1110-0340000	1140-0470000	EC02-090B	EC01A-7001	0654-00998-2	EC06A-0726
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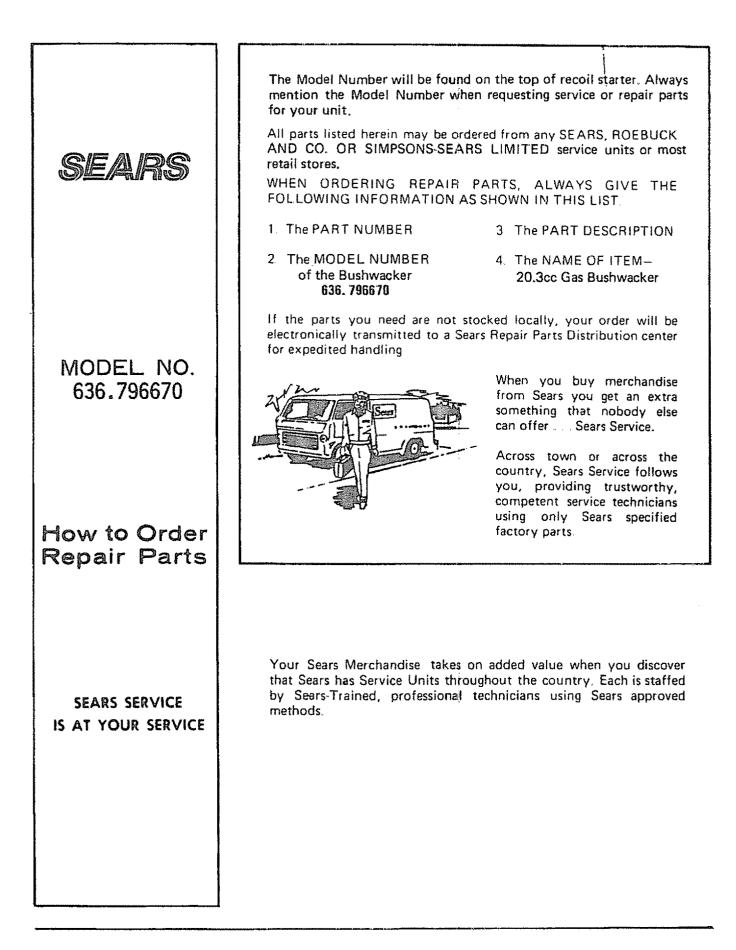
SEARS BUSHWACKER PARTSLIST-MODEL 636. 796670

SEARS BUSHWACKER PARTSLIST-MODEL 636. 796670

Figure 9

QTY. DESCRIPTION	1 Owner's manual	1 Tool kit																															
	5	8																															
PART NO.	5209500101	EC01A-0904																															
KEY NO.	-	7																															
DESCRIPTION	Carburator compl. (incl. 2 ~27)	Vaive assembly-throttle	Body assembly-pump	Gasket-pump	Diaphragm-pump	Plate-pump	Gaskat-plate	Gasket-motering diaphragm	Diaphragm assembly matering	Cover-metering disphragm	Sleeve-mounting	Ring-packing	Jet (#44)	Ring-"O"	Ring-spring retaining	Washer	Swivel *	Braket-idle adjust	Spring idle adjust	Screw-idle adjust	Screw-collar throttle	Screw-metering cover	Wire holder	Air cleaner plate	Spacer	Choke lever	Rubber seat	Prevent plate	Element	Air cleaner cap	Screw assembly (M5x12)	Nut (M5)	Screw assembly (M5×55)
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PART NO.	EC02ER-0606	34-514	5-2288	92-268	95- 9 9	157-280	92-257	92-146.	95-526	21-158	122-211	16-103	112-183	16-104	16-71	136-90	52-30	167-91	98-323	96-314	96-3237	96-325 l ^J	EC02E-3123	EC02E-3104B	EC02E-3108	EC02E-3141A	EC02E-3114A	EC01A-3072A	EC02E-3106	EC02ER-3130	00436-0512-0 N	00217-0500-0 N	00431-0555-0 N
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