

IMPORTANT MANUAL

Do Not Throw Away

SEARS

**Operator's
Manual**

Model No.
358.798960
358.798980

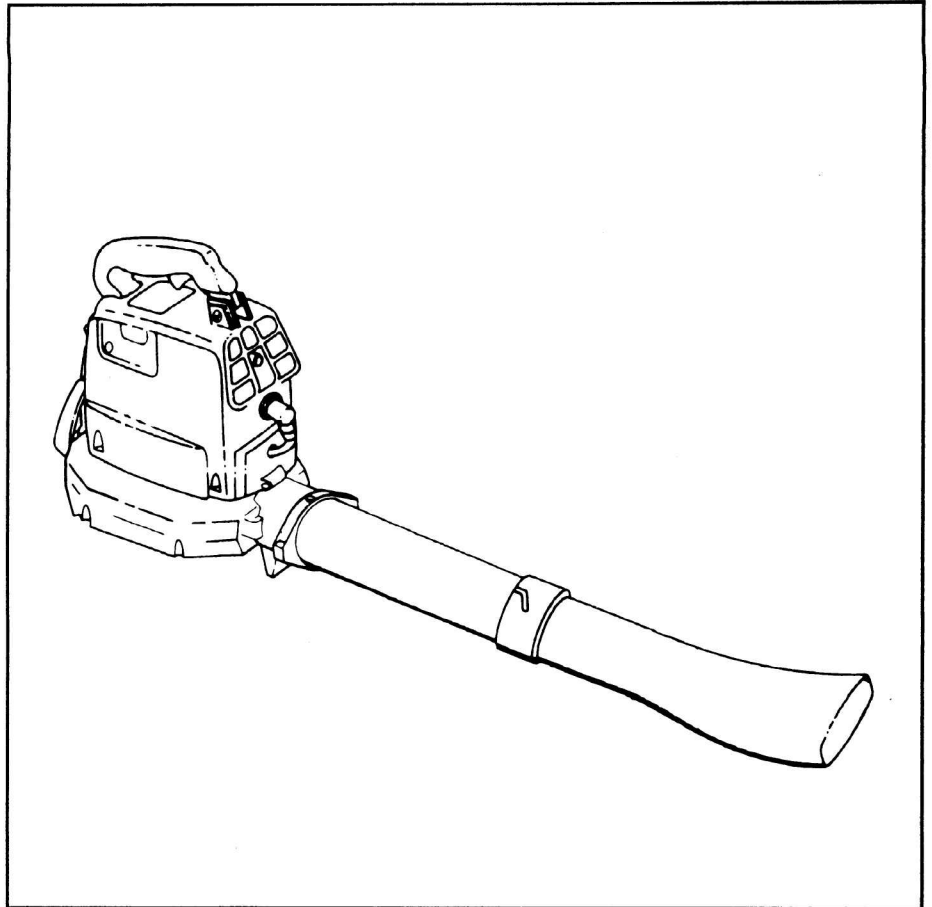
**CUSTOMER
ASSISTANCE
1-800-235-5878**

HOURS (CST)
Mon. - Sat. 7 a.m. - 7 p.m.
Sun. 10 a.m. - 7 p.m.



WARNING

Read the operator's manual and follow all warnings and safety instructions. Failure to do so can result in serious injury.



Always Wear Eye Protection

CRAFTSMAN®
32cc 2-CYCLE ENGINE
170 mph Air Velocity
GASOLINE BLOWER/VAC

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

SAFETY RULES



CAUTION

Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs.

OPERATOR SAFETY

- Always wear eye protection to prevent rocks or debris from being blown or ricocheting into eyes and face which can result in blindness and/or other serious injury.
- Always wear a respirator or facemask when working with the unit in dusty environments.
- Always wear heavy, long pants, boots, and gloves. (To avoid shock of static electricity, do not wear rubber gloves.) Do not go barefoot or wear short pants, sandals, jewelry, loose clothing, or clothing with loosely hanging straps, ties, tassels, etc.; they can be caught in moving parts. Secure hair so it is above shoulder length.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Keep others including children, animals, bystanders and helpers at least 30 feet (10 meters) away. Stop the engine immediately if you are approached.
- Inspect the area before starting the unit. Remove all debris and hard objects such as rocks, glass, wire, etc. that can ricochet, be thrown, or otherwise cause injury or damage during operation.

UNIT/MAINTENANCE SAFETY

- Disconnect spark plug before performing maintenance except for carburetor adjustment.
- Use only genuine replacement parts as recommended by SEARS to avoid creating a hazard and/or voiding your warranty.
- Check air intake openings, blower tubes, elbow tube, and vacuum tubes frequently, always with the engine stopped. Keep vents and tubes free of debris which can accumulate and restrict proper air flow.
- Use only quality SEARS accessories and replacement parts as recommended for this unit.
- Have all maintenance and service not explained in this manual performed by your SEARS Service Center.

FUEL SAFETY

- Mix and pour fuel outdoors.
- Keep away from sparks or flames.
- Use a container approved for fuel.
- Do not smoke or allow smoking near fuel or the unit or while using the unit.
- Wipe up all fuel spills before starting engine.
- Move at least 10 feet (3 meters) away from fueling site before starting engine.
- Stop engine and allow unit to cool before removing fuel cap.

OPERATION SAFETY

- Stop the engine before opening the vacuum inlet door or attempting to insert or remove the vacuum tubes. The engine must be stopped and the impeller blades no longer turning to avoid serious injury from the rotating blades.

- Inspect the entire unit before each use for worn, loose, missing, or damaged parts. Do not use until the unit is in proper working order.
- Keep the outside surfaces free of oil and fuel.
- Never start or run unit inside a closed room or building. Breathing exhaust fumes can kill.
- Never use for spreading chemicals, fertilizers, or any other material which may contain toxic substances.
- Do not set the unit on any surface except a clean, hard area to start the engine or while the engine is running. Debris such as gravel, sand, dust, grass, etc. could be picked up by the air intake and thrown out through the discharge opening, damaging the unit, property, or causing serious injury to bystanders or the operator.
- Avoid dangerous environments. Do not use in unventilated areas or where explosive vapors or carbon monoxide build up could be present.
- Avoid situations which could set the vacuum bag on fire. Do not vacuum discarded cigars or cigarettes or ash from fireplaces, barbecue pits, brush piles, etc. To avoid spreading fire, do not use blower near leaf or brush fires, fireplaces, barbecue pits, ashtrays, etc.
- Do not overreach or use from unstable surfaces such as ladders, trees, steep slopes, rooftops, etc. Use extra care when cleaning on stairways. Keep firm footing and balance at all times.
- Never place objects inside the blower tubes; always direct the blowing debris away from people, animals, glass, and solid objects such as trees, automobiles, walls, etc. The force of air can cause rocks, dirt, or sticks to be thrown or to ricochet which can hurt people or animals, break glass, or cause other damage. Do not allow the unit to be used as a toy.
- Never place any object in the air intake opening as this could restrict proper air flow and cause damage to the unit.
- Never run unit without the proper equipment attached. When used as a blower, always install a blower tube. When used as a vacuum, always install vacuum tubes and vacuum bag assembly.
- Use only for jobs explained in this manual.

TRANSPORTING AND STORAGE

- Stop the unit before transporting.
- Allow the engine to cool, and secure the unit before storing or transporting in a vehicle.
- Empty the fuel tank before storing or transporting the unit. Use up any fuel left in the carburetor by starting the engine and letting the engine run until it stops.
- Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Store the unit out of the reach of children.

SAFETY NOTICE

Exposure to vibrations through prolonged use of gasoline powered hand units could cause blood vessel or nerve damage in the fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feelings in the fingers, hands or joints, discontinue the use of this unit and seek medical attention. An anti-vibration system does not guarantee the avoidance of these problems. Users who operate power tools on a continual and regular basis must monitor closely their physical condition and the condition of this unit.



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS – ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

SAFETY RULES



WARNING

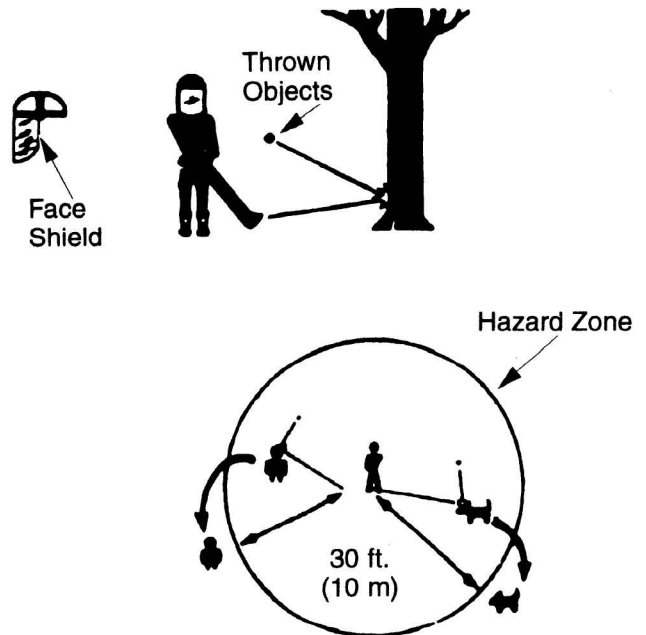
This power unit can be dangerous! This unit can cause serious injury or blindness to the operator and others. The warnings and safety instructions in this manual must be followed to provide reasonable safety and efficiency in using this unit. The operator is responsible for following the warnings and instructions in this manual and on the unit. Read the entire operator's manual before assembling and using this unit! Restrict the use of the power unit to persons who read, understand and follow the warnings and instructions in this manual and on the unit. Never allow children to use this tool.

This unit is designed for blower and vacuum use only. Never use any other attachments with this unit except the optional gutter attachment.



WARNING

Blower can throw objects violently. You can be blinded or injured. Wear eye and leg protection.



Hazard zone for blown objects. Blower can throw objects violently. Others can be blinded or injured. Keep people and animals 30 feet (10 meters) away.

Read Operator's Manual. Follow all warnings and instructions. Failure to do so can result in serious injury.



Operator's
Manual

CONGRATULATIONS on your purchase of a Sears Craftsman Gasoline Blower. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problems you cannot easily remedy, please contact your nearest Sears Service Center/Department or call the 1-800 number listed on the front of this manual. Sears has competent, well trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your unit properly. Always observe the "SAFETY RULES."

MODEL NUMBER:	358.798960 358.798980
DATE CODE/SERIAL NO.:	_____
DATE OF PURCHASE:	_____
THE MODEL AND SERIAL NUMBER WILL BE FOUND ON THE PRODUCT.	
YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.	

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears Store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for, and using your unit.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this Operator's Manual.

PRODUCT SPECIFICATIONS

AIR VELOCITY	170mph
AIR VOLUME.....	350 cu. ft./min.
ENGINE	32cc 2-cycle Air-Cooled
ENGINE RPM	
Operating.....	7000-7600
Idle.....	3800-4600
FUEL/OIL MIX RATIO	40:1 (3.2 oz. per gallon gas)
IGNITION	Solid State (Air gap 010" to .014")
IGNITION TIMING.....	Non-adjustable, fixed
SPARK PLUG.....	Champion (RCJ-8Y)
SPARK PLUG GAP.....	.025"

SPECIAL NOTICE

For users on U.S. Forest Land and in some states, including California (Public Resources Codes 4442 and 4443), Idaho, Maine, Minnesota, New Jersey, Oregon, and Washington: Certain internal combustion engines operated on forest, brush, and/or grass-covered lands in the above areas are required to be equipped with a spark arrestor, maintained in effective working order, or the engine must be constructed, equipped, and maintained for the prevention of fire. Check with your state or local authorities for regulations pertaining to these requirements. Failure to follow these requirements is a violation of the law. This unit is not factory-equipped with a spark arrestor; however, a spark arrestor is available as an optional part. If a spark arrestor is required in your area, contact your SEARS Service Center/Department for the correct kit.

Manufactured under one or more of the following U.S. patents: 5,269,665; 5,211,144; 5,174,255; 5,035,586; 4,940,028; 4,846,123; 4,674,146; 4,474,327; 4,413,371; 4,404,706; 4,402,106; 4,387,852; 4,325,163; 4,286,675; Re.33,050; D349,983; D322,971; D304,510; D299,074; D266,355; D263,547. Other U.S. and foreign patents pending.

FULL TWO YEAR WARRANTY ON SEARS BEST CRAFTSMAN GAS BLOWER

For two (2) years from date of purchase, when this Gas Blower is maintained, lubricated, and tuned up according to the instructions in the owner's manual, Sears will repair, free of charge, any defects in material or workmanship.

This warranty excludes blower tubes, spark plug and air cleaner, which are expendable parts and become worn during normal use.

If this Blower is used for commercial purposes, this warranty applies for 90 days from date of purchase. If this Blower is used for rental purposes this warranty applies for 30 days from date of purchase. This warranty applies only while this product is in use in the United States.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE BLOWER TO THE NEAREST SEARS SERVICE CENTER IN THE UNITED STATES.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SEARS, ROEBUCK AND CO., D/817WA, HOFFMAN ESTATES, IL 60179

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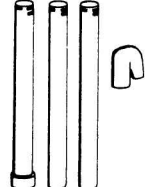


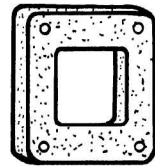

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ACCESSORIES

These accessories and attachments were available when the unit was originally purchased. They are also available at most Sears retail outlets and service centers. Most Sears stores can order these items for you when you provide the model number of your unit.

Accessories						
Safety Goggles	Spark Plug	Gutter Attachment Kit	Vacuum Attachment Kit	Gas Can	Air Filter	Sears 2-Cycle Engine Oil
						

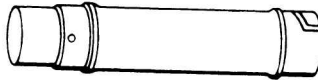
CARTON CONTENTS

Parts packed separately in carton

358.798960

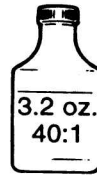
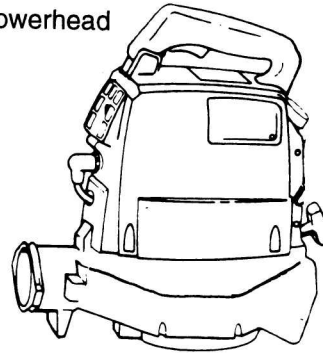


Flare Nozzle

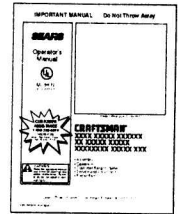


Blower Tube

Powerhead



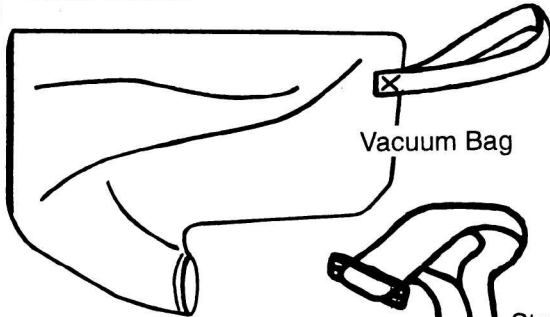
2-Cycle Engine Oil



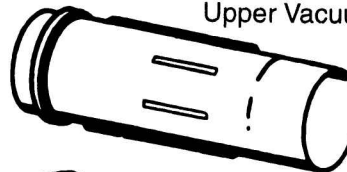
Operator's Manual

Parts packed separately in carton

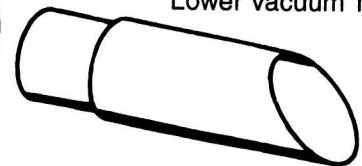
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Vacuum Bag



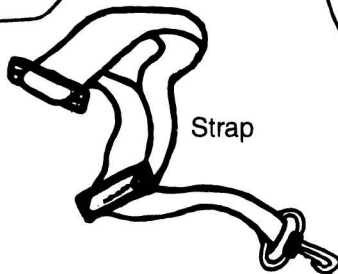
Upper Vacuum Tube



Lower Vacuum Tube

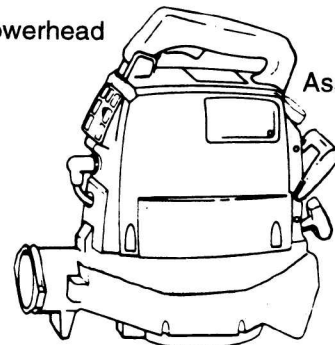


Elbow Tube



Strap

Powerhead



Assist Handle



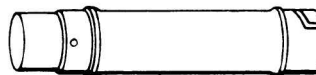
2-Cycle Engine Oil



Operator's Manual



Flare Nozzle



Blower Tube

ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

- Standard Screwdriver

TO REMOVE BLOWER FROM CARTON

- Remove carton contents included with Blower.
- Remove your Blower from the packing material.
- You may use the opened packing material as a work surface.

- After removing the contents from the carton, check parts against the Carton Contents list.
- Examine the parts for damage. Do not use damaged parts.
- *Notify Customer Assistance at 1-800-235-5878 immediately if a part is missing or damaged.*

NOTE – It is normal to hear the fuel filter rattle in an empty fuel tank.

ASSEMBLY

HOW TO ASSEMBLE YOUR BLOWER



WARNING

Stop the engine before opening the vacuum inlet door or attempting to insert or remove the vacuum tubes. The engine must be stopped and the impeller blades no longer turning to avoid serious injury from the rotating blades.

BLOWER TUBE ASSEMBLY (Fig. 1)

- Locate the two locking tabs on the side of the blower tube.
- Align the grooves on the nozzle with the locking tabs on the blower tube and push the nozzle onto the blower tube.
- Turn the nozzle clockwise until the parts snap into place and are firmly tightened.
- Align grooves on the blower tube with locking tabs in the blower outlet (inset) and push the blower tube into the blower outlet.
- Turn the blower tube clockwise until the parts snap into place and are firmly tightened.
- Turn flare nozzle and blower tube counterclockwise for removal.

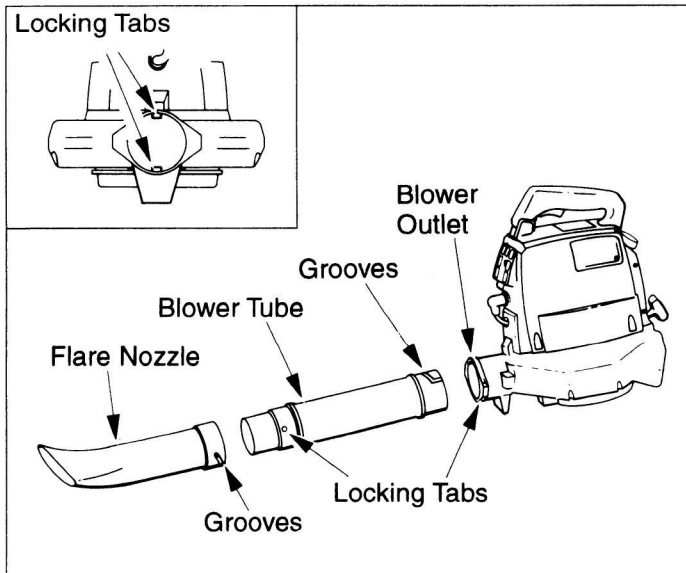


Figure 1

VACUUM TUBE ASSEMBLY (Fig. 2 & 3)

- Remove the blower tube from the engine.
- Set the unit, blower outlet up, on a flat surface. Open the vacuum inlet cover as follows:
 - Insert a screwdriver into latch area.
 - Gently tilt the tip of the screwdriver forward towards the blower outlet and open the vacuum inlet cover with your other hand.
- Hold open vacuum inlet cover and align the grooves on the upper vacuum tube with the locking tabs inside the vacuum inlet. Insert the upper vacuum tube and turn clockwise until parts snap together.
- Assemble the vacuum tubes by aligning the slanted end of the lower vacuum tube with the blower outlet as shown. Push the two tubes together until they are snug.

NOTE – The bottom end of the lower vacuum tube is cut at an angle. Make sure slanted end of vacuum tube is aligned with blower outlet.

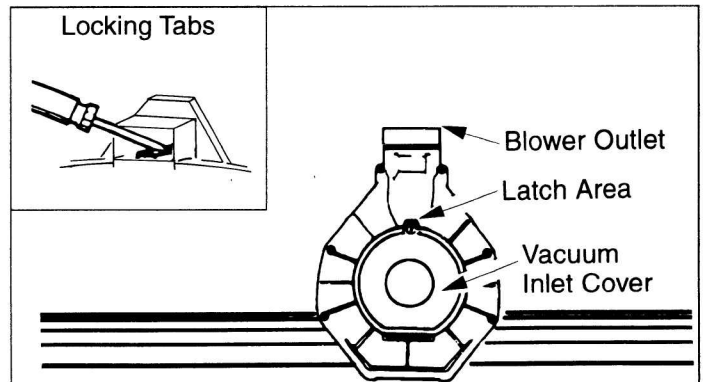


Figure 2

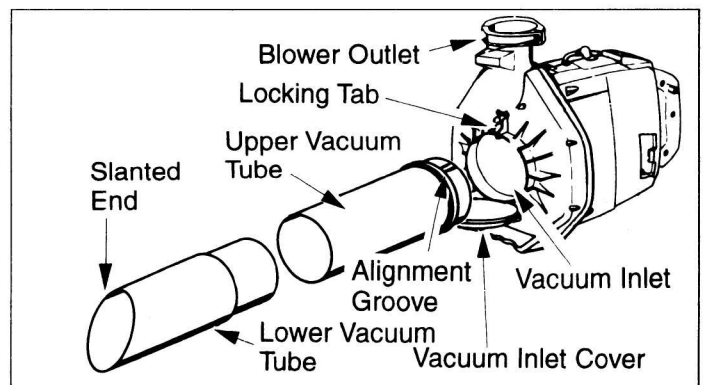


Figure 3

ASSEMBLY

VACUUM BAG ASSEMBLY (Fig. 4, 5, 6 & 7)

- Open the zipper on the large end of the vacuum bag.
- Insert the elbow tube, grooved end first, through the zipper opening in the vacuum bag. Then, push the grooved end of the elbow tube through the vacuum bag tube opening in the other end of the vacuum bag. Make sure the vacuum bag tube opening is flush against the tube flange.
- Close the zipper on the vacuum bag. Make sure the zipper is closed completely and the zipper seam is tucked toward the inside of the vacuum bag.

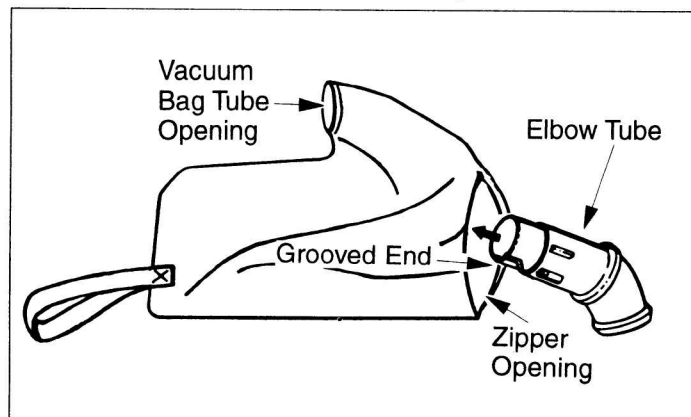


Figure 4

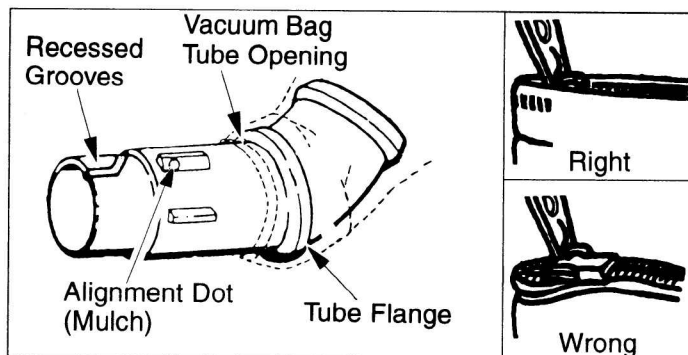


Figure 5

- To attach the vacuum bag, align the grooves on the elbow tube with the locking tabs inside the grooves in the blower outlet. Be sure to align the dot marked mulch on the elbow tube with the dot on the blower housing. Insert elbow tube into blower outlet; twist elbow tube counterclockwise until parts snap together. Assure bent end of elbow points downward toward vacuum tube.
- Adjust the vacuum bag at the elbow tube to remove any twists.
- Slide the looped strap over the end of vacuum tube as shown in Figure 6.

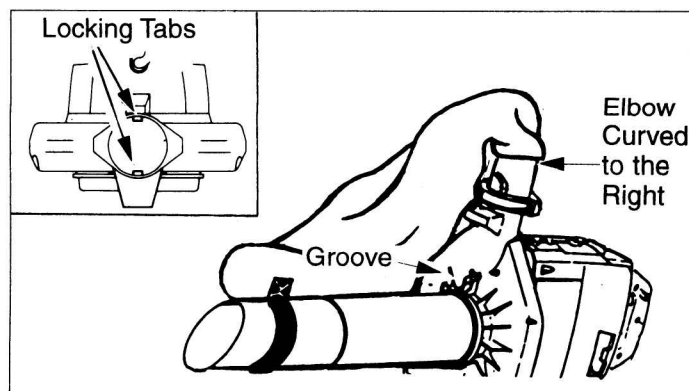


Figure 6

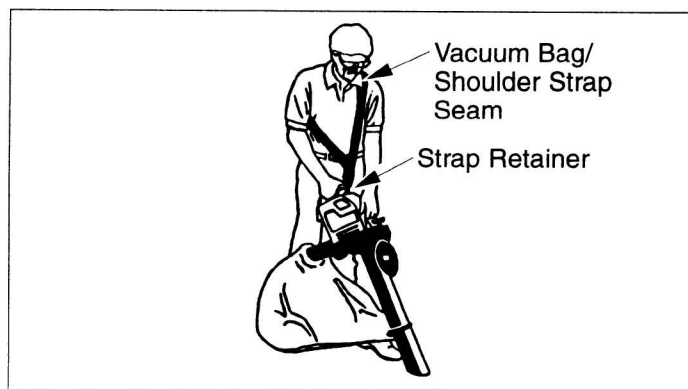


Figure 7

SHOULDER STRAP ADJUSTMENT (Fig. 7)

- Place vacuum bag strap around your back and over your left shoulder. Snap vacuum bag hook onto the strap retainer in the top handle.
- Adjust the shoulder strap until the vacuum tube is suspended off the ground.

BLOWER CONVERSION

- Stop the engine. Allow the engine to cool.
- Remove the vacuum tubes and vacuum bag assembly.
- Secure the vacuum inlet cover. Make sure that the latch on the vacuum inlet cover is securely fastened.
- Reinstall the blower tubes as shown in the "Blower Tube Assembly" section.

CHECK LIST

- Check all fasteners. Make sure they are tight and there are no loose parts.

OPERATION

KNOW YOUR BLOWER (Fig. 8)

READ THIS OPERATOR'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR BLOWER. Compare the illustrations with your unit to familiarize yourself with the location of the various controls and adjustments. Save this manual for future reference.

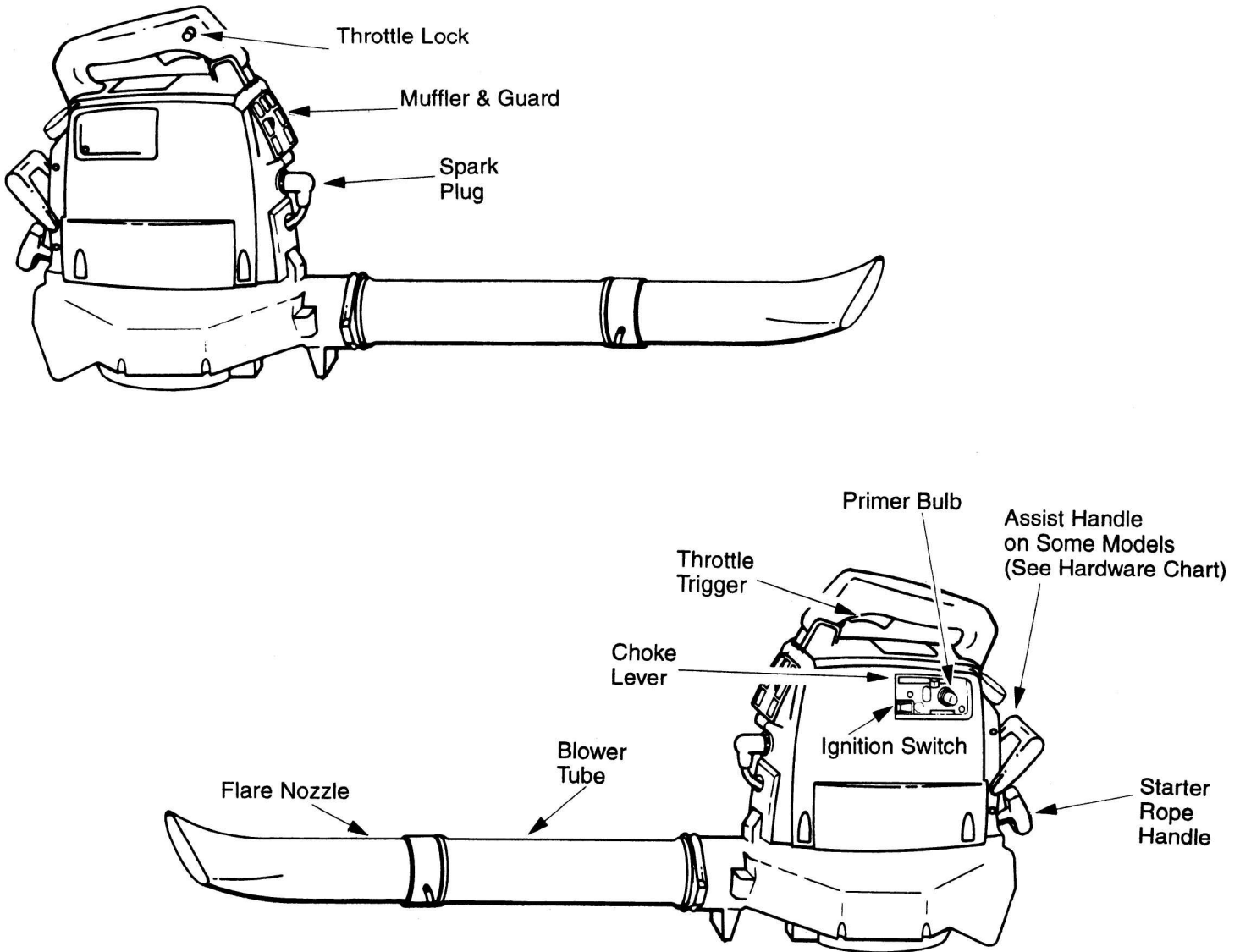


Figure 8

The **CHOKE LEVER** is used for starting a cold engine.

The **STARTER ROPE HANDLE** is used for starting the engine.

The **THROTTLE LOCK** is used to hold the throttle in the run and starting position.

The **PRIMER BULB** is used to circulate fuel to the carburetor.

The **THROTTLE TRIGGER** controls engine speed.

The **IGNITION SWITCH** is used to stop/start the engine.

The **FLARE NOZZLE** is used to disperse the air flow over a wider area.

OPERATION

HOW TO USE YOUR BLOWER/VAC

STOPPING YOUR ENGINE

- Move ignition switch to the "STOP" position.
- If engine does not stop, turn choke knob to full.

THROTTLE CONTROL GROUP (Fig. 9 & 10)

THROTTLE TRIGGER

- The throttle trigger allows for variable control of engine speed.
- The throttle trigger is actuated by the index finger on your right hand.

THROTTLE LOCK

- The throttle lock allows for faster engine speeds during starting.
- The throttle lock is engaged by the following steps:
 - Grasp the top handle and squeeze the throttle trigger fully and hold.
 - Depress the throttle lock with your thumb and hold.
 - Release your grip on the throttle trigger while continuing to hold the throttle lock.

NOTE – Verify the throttle trigger stays in the advanced position.

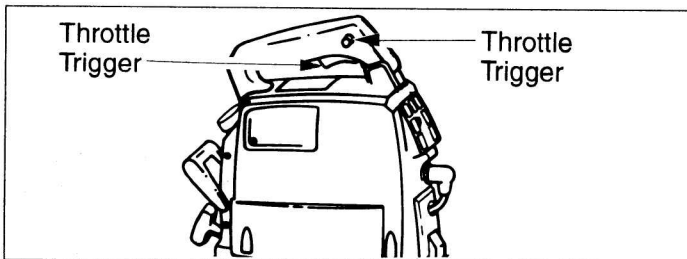


Figure 9

PRIMER BULB

- The primer bulb is used to circulate fuel to the carburetor.
- The primer bulb is activated by pressing on it with your thumb.

CHOKE

- The choke provides additional fuel when starting a cold engine.
- The choke is actuated by turning the choke knob.
- The choke has three positions: Off, half and full.

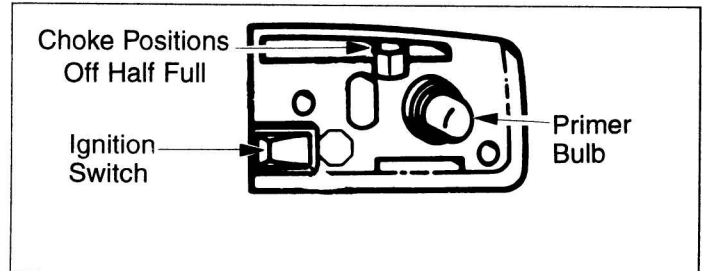


Figure 10

OPERATION SAFETY

BLOWER SAFETY

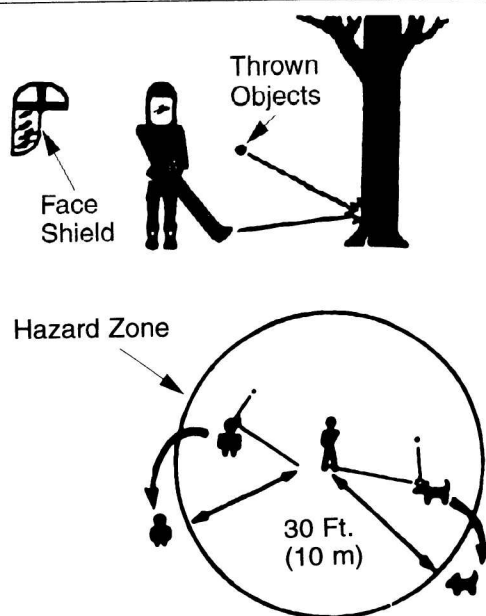


WARNING

The blower causes objects to be thrown violently. The operator must wear a safety face shield or goggles. Always wear heavy, long pants and boots. Keep others at least 30 feet (10 meters) away.

This unit will throw objects. Keep others including children, animals, bystanders and helpers at least 30 feet (10 meters) away from the operator and unit. Stop the engine if you are approached. In areas where other people and animals are present, such as near sidewalks, streets, houses, etc., it is strongly recommended that the operator use the buddy system; that is, have another person serve as a "look-out," keeping himself and others at least 30 feet (10 meters) away from the operator.

Do not assemble or disassemble the vacuum tube while the engine is running. Inserting or removing the vacuum tube while the engine is running can result in serious injury. Always stop the engine and disconnect the spark plug before unclogging the unit or performing any maintenance on the vacuum bag.



Use Only Good Quality Replacement Parts

OPERATOR SAFETY

- Read your Operator's Manual. Make sure you completely understand and can follow all warnings and safety instructions in the manual before operating.
- Always wear a respirator or facemask when working in dusty environments.
- Always wear eye protection to prevent rocks or debris from being blown or ricocheting into eyes and face which can result in blindness or other serious injury.
- Always wear heavy, long pants, boots, and gloves. (To avoid shock of static electricity, do not wear rubber gloves.) Do not go barefoot or wear short pants, sandals, jewelry, loose clothing, or clothing with loosely hanging straps, ties, tassels, etc. Secure hair so it is above shoulder length.

UNIT SAFETY

- Inspect the entire unit before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.
- Check air intake opening, blower tubes, vacuum tubes, and elbow tube frequently, always with engine stopped and spark plug disconnected. Keep vents and discharge tubes free of debris which can accumulate and restrict proper air flow.
- Never place objects inside blower tubes; always direct blowing debris away from people, animals, glass, and solid objects such as trees, automobiles, walls, etc. The force of air can cause rocks, dirt, or sticks to be thrown or to ricochet which may hurt people or animals, break glass, etc.
- Never run the unit without the proper equipment attached. When using your unit as a blower always install

blower tubes. When using your unit as a vacuum, always install vacuum tubes and vacuum bag assembly. Make sure vacuum bag assembly is completely zipped.

- When using the unit as a vacuum, always use the shoulder strap to avoid loss of control.
- Use only quality SEARS accessories and replacement parts as recommended for this unit.

BLOWER/VACUUM SAFETY

- As a blower, the unit is designed to sweep debris, grass, straw, leaves, small twigs, or light snow. It can also be used for fast drying wet outdoor areas such as a patio, sidewalk, carport, etc. Never use for spreading or misting chemicals, fertilizers, or any other materials which may contain toxic substances.
- As a vacuum, the unit is designed to pick up dry material such as leaves, grass, small twigs, and bits of paper. Do not attempt to vacuum stones, gravel, metal, broken glass, or any other debris which may cause damage to the impeller. Do not attempt to vacuum water or any other liquids. Vacuuming water or other liquids will cause damage to the engine. Avoid situations that could catch the vacuum bag on fire. Do not operate near an open flame. Do not vacuum discarded cigars or cigarettes or ash from fireplaces, barbecue pits, brush piles, etc.
- Inspect area before starting engine. Remove all debris and objects such as rocks, glass, wire, large sticks, etc. that can cause damage during operation.
- Use the correct operating position. Do not overreach or use from unstable surfaces such as ladders, trees, steep slopes, roof tops, etc. Keep firm footing and balance at all times.

OPERATION

OPERATING TIPS



WARNING

Do not use the unit as a blower without the blower tubes properly attached to avoid flying debris and/or impeller contact which can cause serious injury.

Always wear eye protection to prevent rocks or debris from being blown or ricocheting into the eyes and face which can result in blindness or serious injury.

Do not use the unit as a vacuum without the vacuum tube and vacuum bag properly attached to avoid flying debris and/or impeller contact which can cause serious injury. Always make sure the vacuum bag is completely zipped before the engine is started.

BLOWER TIPS

- Always work going away from solid objects such as walls, trees, automobiles, and fences.
- Clean corners by starting in corners and moving outward to flat areas to prevent an accumulation of debris which could fly into face.
- Be careful when working near plants. The force of the air could damage tender plants.
- Direct air flow by directing the nozzle down or to one side.
- Vary the air flow by adjusting your grip on the throttle trigger.
- While using the model 358.798980 use the assist handle located on the back of the unit when working above the waist or when a two-handed grip is desired.
- Uses for your blower:
 - Sweeping debris or grass clippings from driveways, sidewalks, patios, parks, parking lots, barns, stadiums, etc.
 - Blowing grass clippings, straw, or leaves into piles.
 - Fast drying wet outdoor areas such as a patio.
 - Removing debris from corners, around joints, and between bricks.
 - Blowing light snow from driveways, sidewalks, or patios.

VACUUM TIPS

- When using your unit as a vacuum, best results are achieved when the unit is operated at full throttle. Engage the throttle lock before beginning vacuuming procedures.
- Move the unit slowly back and forth over debris to be vacuumed. Avoid forcing the vacuum tube into a pile of debris as this can clog the unit.
- The vacuum can pick up objects that are too big to pass through the impeller. This type of object will fall out of the vacuum tubes when the engine is stopped.
- If the unit becomes clogged:
 - Stop the engine and disconnect the spark plug wire. Do not attempt to remove obstructions with the engine running.
 - Wait until the impeller has completely stopped turning, then remove the vacuum tube.
 - Carefully reach into the vacuum opening and clear out debris.
- The vacuum bag must be properly emptied and maintained to avoid deterioration and obstruction of air flow which will reduce the performance of the vacuum.
 - Empty the vacuum bag after each use.
 - Remove the vacuum bag/elbow from the unit by turning it in a clockwise direction. Do not store vacuum bag containing leaves, grass, etc.
 - Wash the vacuum bag once a year as follows:
 - Turn the vacuum bag inside out.
 - Hang it up.
 - Thoroughly hose it down.
 - Let vacuum bag hang until dry.

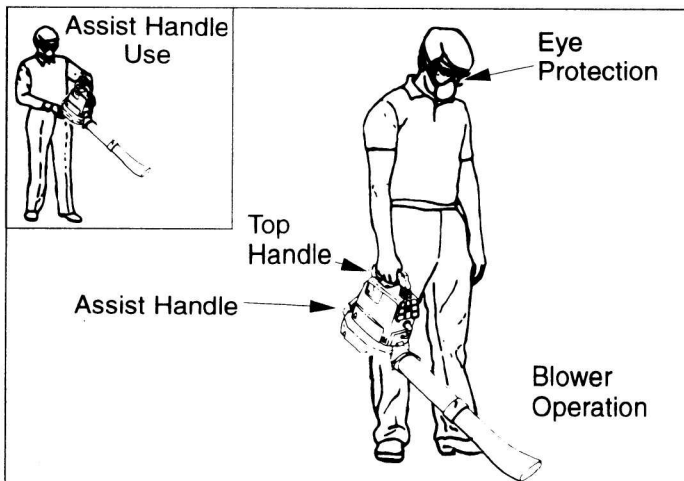


Figure 11

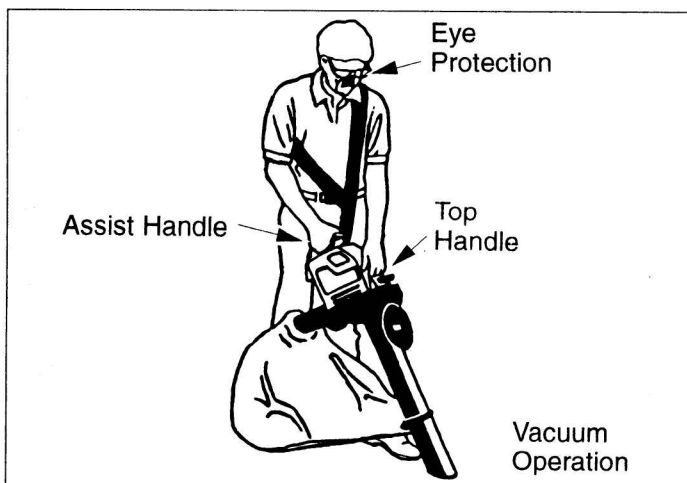


Figure 12

OPERATION

BEFORE STARTING ENGINE



WARNING

Be sure to read the fuel safety information in the safety rules section on page 2 of this manual before you begin.

If you do not understand the fuel safety section do not attempt to fuel your unit; seek help from someone who does understand the fuel safety section or call the customer assistance helpline at 1-800-235-5878.

GASOLINE

The two-cycle engine on this product requires a fuel mixture of regular unleaded gasoline and a high quality 40:1 2-cycle engine oil (AIR-COOLED) for lubrication of the bearings and other moving parts. The correct fuel/oil mixture is 40:1 (see Fuel Mixture Chart). Too little oil or the incorrect oil type will cause poor performance and may cause the engine to overheat and seize.

Gasoline and oil must be premixed in a clean approved fuel container. Always use fresh regular unleaded gasoline.

This engine is certified to operate on unleaded gasoline.

IMPORTANT – Experience indicates that alcohol blended fuels called gasohol (or using ethanol or methanol) can attract moisture, which leads to oil/gas 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, then run the fuel out of the carburetor and fuel lines by starting the engine and letting it run until it stops. 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.

FUEL STABILIZER

Fuel stabilizer 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 the fuel mix ratio found on the stabilizer container. Run engine at least 5 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. You do not have to drain the fuel tank for storage if you are using fuel stabilizer.

CRAFTSMAN 40:1 2-cycle engine oil (AIR-COOLED) is specially blended with fuel stabilizers. If you do not use this Sears oil, you can add a fuel stabilizer (such as CRAFTSMAN No. 33500) to your fuel tank.

40:1 2-CYCLE AIR-COOLED ENGINE OIL

CRAFTSMAN 40:1 2-cycle engine oil (AIR-COOLED) is strongly recommended. This oil is specially blended with fuel stabilizers for increased fuel stability (extends fuel life up to 5 times longer) and reduced smoke.

If CRAFTSMAN 40:1 2-cycle engine oil (AIR-COOLED) is not available, use a good quality 2-cycle engine oil (AIR-COOLED) that has a recommended fuel mix ratio of 40:1.

IMPORTANT! Do not use:

- AUTOMOTIVE OIL
- BOAT OILS (NMMA, BIA, etc.)

These oils do not have proper additives for 2-cycle engines (AIR-COOLED) and can cause engine damage.

GASOLINE AND OIL MIXTURE

Mix gasoline and oil as follows:

- Consult chart for correct quantities.
- Do not mix gasoline and oil directly in the unit's fuel tank.

FOR ONE GALLON:

- Pour 3.2 ounces of high quality, 40:1 2-cycle engine oil (AIR-COOLED) into an empty, approved one gallon gasoline container.
- Add one gallon of regular unleaded gasoline to the gallon container, then securely replace the cap.
- Shake the container.
- The mixture is now ready for use. Fuel stabilizer can be added at this time if desired; follow mixing instructions on the label.

FUEL MIXTURE CHART

40:1 Fuel:Oil Mix Ratio

<u>Gasoline</u>	<u>Oil (fl. oz.)</u>
1 gallon	3.2
2.5 gallons	8.0

NOTE – Fuel containers may hold more than the specified amount. If too much gasoline is in the container, the resulting gas-to-oil fuel mixture will not be correct for proper engine operation.

OPERATION

STOPPING YOUR ENGINE

- Move the ignition switch to the "Stop" position.
- If engine does not stop, move the choke lever to the "Full Choke" position.



WARNING

When starting the engine, hold the unit as shown in Figure 13. Do not set the unit on any surface except a clean, hard area while the engine is running. Debris such as gravel, sand, dust, grass, etc. could be picked up by the air intake and thrown out through the discharge opening, damaging the unit or property or causing serious injury to bystanders or operator.

For safe starting and operation, follow all safety precautions in this operator's manual and labels on the unit. Dress properly before starting engine.

On mulch bladed units, blades are noisy during start-up.

Avoid any contact with the muffler. A hot muffler can cause serious burns.

BASIC STARTING PROCEDURE (Fig. 13 & 14)

COLD ENGINE START AND WARM ENGINE START AFTER RUNNING OUT OF FUEL

- Fuel engine with 40:1 fuel mix (3.2 oz. to 1 gallon gas). Move 10 feet (3 meters) away from fueling site.
- Move ignition switch off of the "Stop" position.
- Activate throttle lock.
- Press primer bulb 6 times.
- Actuate choke by moving the choke lever to the "Full Choke" position.
- Hold the unit in the starting position as shown. When using the unit as a blower, make sure the blower end is directed away from people, animals, glass, and solid objects. When using the unit as a vacuum, make sure the vacuum end is directed away from people, animals, glass, and solid objects and that you support the vacuum tube off the ground during starting.
- Pull starter rope sharply five times.

NOTE – The engine may sound as if it is trying to start before the 5th pull. If so, go to the next step immediately.

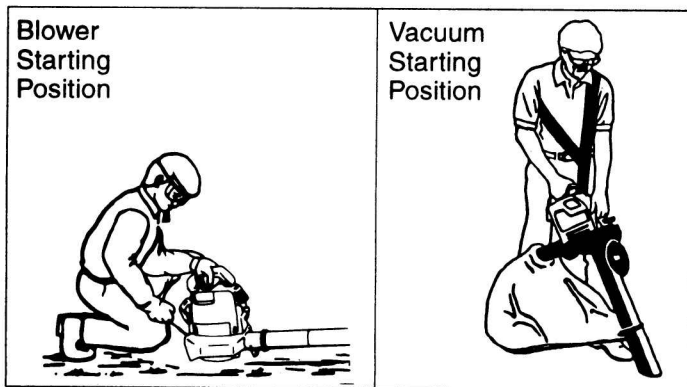


Figure 13

NOTE – When pulling the starter rope, do not use the full extent of the rope. Do not let the starter snap back. Hold the handle and let the rope rewind slowly.

- Move the choke lever to the "Half Choke" position.
- Pull the starter rope sharply until the engine runs, but no more than six pulls.

If the engine still has not started, it is probably flooded. Flooded engines can be cleared of excess fuel with the following procedure.

- Move the choke lever to the "Off" position.
- Press primer bulb 6 times.
- Squeeze and hold the throttle trigger.
- Pull starter rope to clear the engine of excess fuel.

Starting could require pulling the starter rope handle many times depending on how badly the unit is flooded. If engine still fails to start, refer to the "Trouble Shooting" chart.

Once the engine starts, allow the engine to run 15 seconds, then move the choke lever to "Off Choke". Allow the engine to run for 30 more seconds at "Off Choke" before releasing the throttle lock.

NOTE – If the engine dies with choke lever at "Off Choke" position, move the choke lever to "Half Choke". Pull starter rope three times. Move choke lever to "Off Choke" position, pull the rope until engine runs. Run engine 30 seconds with throttle trigger fully squeezed.

- Release throttle lock by squeezing the trigger.
- To stop the engine, move the ignition switch to the "Stop" position.

STARTING A WARM ENGINE

- Move the ignition switch off of the "Stop" position.
- Activate throttle lock.
- Press primer bulb 6 times.
- Move choke lever to the "Off Choke" position.
- Squeeze throttle trigger.
- Pull starter rope until engine starts.
- Release the throttle lock by squeezing the trigger.

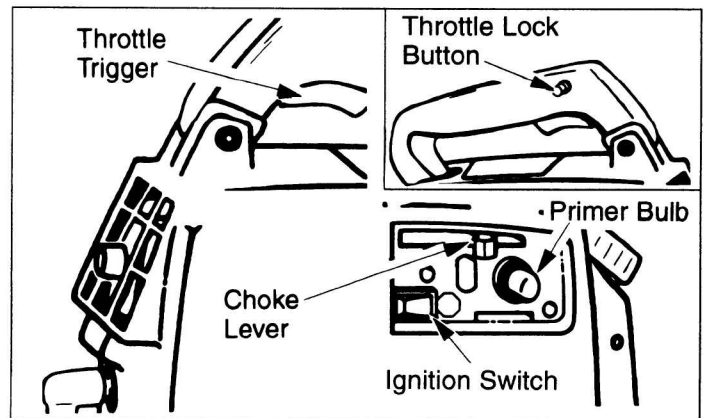


Figure 14

DIFFICULT STARTING OR FLOODED ENGINE

The engine may be flooded with too much fuel if it has not started after 20 pulls.

Flooded engines can be cleared of excess fuel with the following procedure:

- Move ignition switch off of the "Stop" position.
- Activate the throttle lock.
- Move the choke lever to the "Off Choke" position.
- Squeeze and hold the throttle trigger.
- Pull starter rope handle until engine starts.
- Release the throttle lock by squeezing the trigger.

Starting could require pulling starter rope handle many times depending on how badly unit is flooded. If engine still fails to start, refer to "TROUBLE SHOOTING" chart or call the 1-800 number listed on the front cover of this manual.

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE

Fill in dates as you complete regular service	Before Use	After Use	Every 5 Hrs.	Yearly	Service Dates			
Check for damaged or worn parts	✓							
Check for loose fasteners & parts	✓							
Clean unit & labels		✓						
Clean air filter			✓					
Replace spark plug				✓				
Replace fuel filter				✓				

GENERAL RECOMMENDATIONS

The warranty on this blower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain blower as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year, replace the spark plug, replace air filter. A new spark plug and clean or new air filter element assures proper air-fuel mixture and helps your engine run better, last longer and reduces harmful emissions.
- Follow maintenance schedule in this manual.



WARNING

Disconnect the spark plug before performing maintenance except for carburetor adjustments.

Inspect the entire unit. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.

BEFORE USE

CHECK FOR DAMAGED OR WORN PARTS

- Tighten, repair or replace parts as necessary.
- Fuel cap – replace broken or leaking fuel cap.

CHECK FOR LOOSE FASTENERS AND PARTS

- Blower Tube
- Blower Nozzle
- Vacuum Inlet Cover
- Blower Outlet
- Vacuum Bag

AFTER USE

CLEAN UNIT AND LABELS

- Clean the unit and labels using a damp cloth with a mild detergent.
- Wipe off the unit with a clean dry cloth.

CUSTOMER RESPONSIBILITIES

EVERY 5 HOURS CLEAN AIR FILTER (Fig. 15)



CAUTION

To avoid creating fire hazard and producing harmful emissions, do not clean filter in gasoline or other flammable solvent.

The holes in the air filter must be fitted over the posts on the air filter cover. When installing the air filter/cover assembly, be sure that the filter does not hang on the choke lever screw.

A dirty air filter decreases the life and performance of the engine and increases fuel consumption and harmful emissions.

Always clean after 5 tanks of fuel or 5 hours of operation, whichever is less. Clean more frequently in dusty conditions.

- Move the choke lever to the "Full" position.
- Remove the air filter cover on top of the unit (under the handle) by depressing the air filter cover latch.
- Wash the air filter in soap and water.
- Squeeze the air filter dry.
- Add 4 or 5 drops of oil to the air filter. Avoid soaking the air filter with oil.
- Squeeze the air filter to distribute oil.
- Reassemble the air filter onto the cover.
- Reassemble air filter/cover assembly to unit. Return choke lever to the "Off" position.

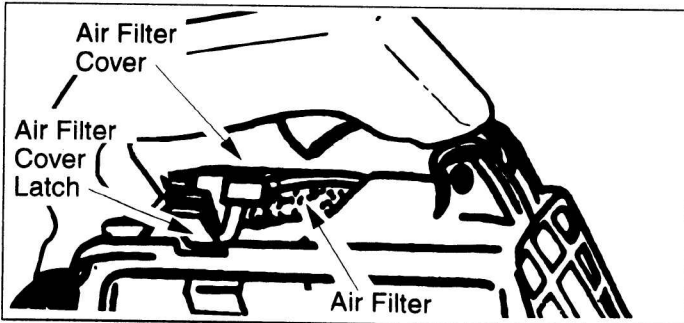


Figure 15

YEARLY REPLACE SPARK PLUG (Fig. 16)

The spark plug should be replaced each year to ensure the engine starts easier and runs better.

Spark plug gap should be .025".

- Pull off the spark plug boot.
- Remove and discard the spark plug.
- Replace with correct spark plug and tighten with spark plug wrench (10-12 lb-ft).
- Cover spark plug with spark plug boot.

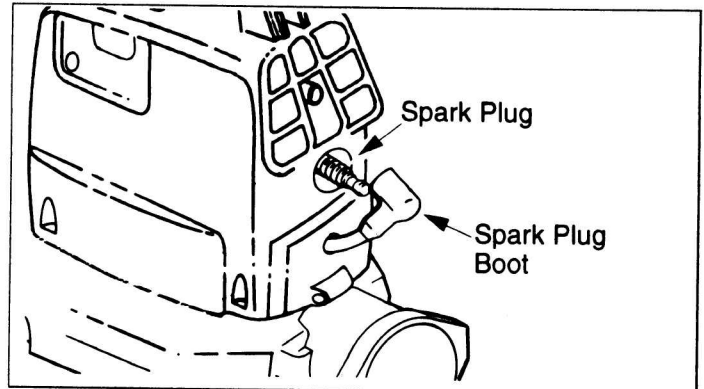


Figure 16

CUSTOMER RESPONSIBILITIES

REPLACE FUEL FILTER (Fig. 17 & 18)

The fuel filter should be replaced after each season. Never operate your unit without a fuel filter. Be careful not to damage fuel line while removing the fuel filter.

- Run fuel tank dry of fuel before proceeding with this step.
- Remove fuel cap and allow it to hang to side of motor.
- Using a small pair of needle nose pliers, grasp fuel cap retainer, holding it in tank opening and pull out.
- With cap out of tank, use a small section of bent wire similar to that shown in the illustration to catch fuel line and slowly pull from tank. When fuel filter appears in opening, grasp with fingers and remove from tank.
- Once filter is out of tank, hold fuel line close to fuel filter. Remove fuel filter by twisting and pulling at the same time.
- Replace fuel filter.
- Reverse process for installation.

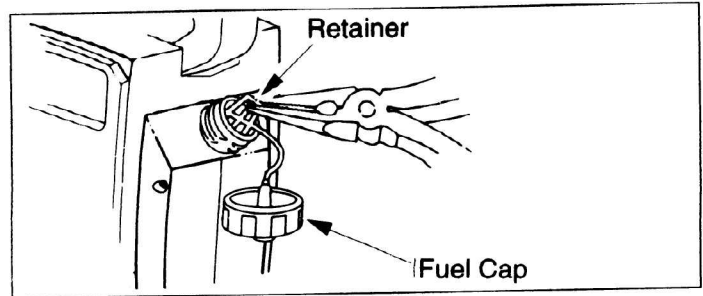


Figure 17

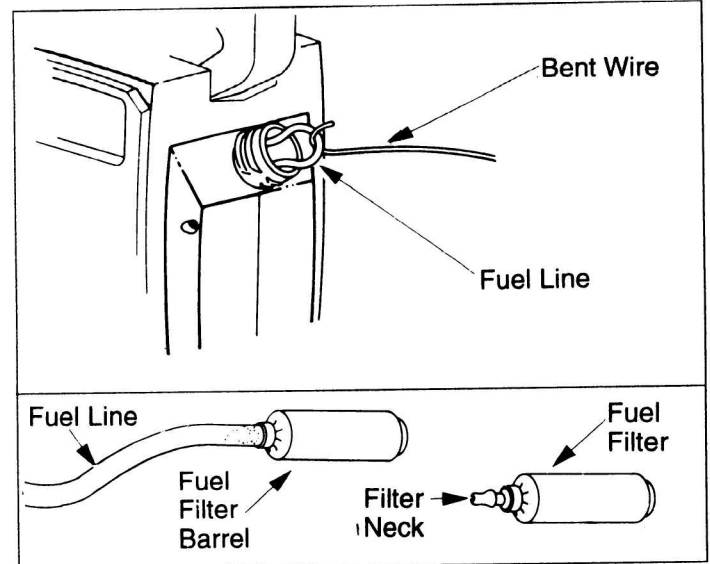


Figure 18

SERVICE AND ADJUSTMENTS

STARTER ROPE (Fig. 19, 20, 21, 22, 23, 24 & 25)



WARNING

Do not remove the pulley when replacing the starter rope. Always wear eye protection when servicing the starter rope. The recoil spring, located beneath the pulley, is under tension. If the spring pops out, serious injury can result.

Replace the starter rope if the rope breaks or is badly worn.

NOTE – When replacing an unbroken rope, cut the rope and allow the rope to rewind onto the pulley.

REPAIR OR REPLACE STARTER ROPE

- Disconnect spark plug wire from the spark plug.
- Set unit, blower outlet up, on a flat surface. Open the vacuum inlet cover as follows:
 - Insert a screwdriver into the latch opening. (Inset).
 - Gently twist the screwdriver while opening the vacuum inlet cover with your other hand.
- Remove the impeller nut and washers while holding the impeller and cutter blades.

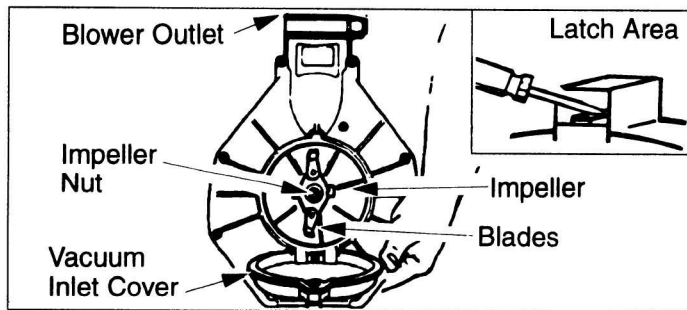


Figure 19

- Remove the 4 impeller shroud screws. Then, remove the 2 engine shroud screws located by the spark plug. Remove the impeller shroud from the engine shroud.

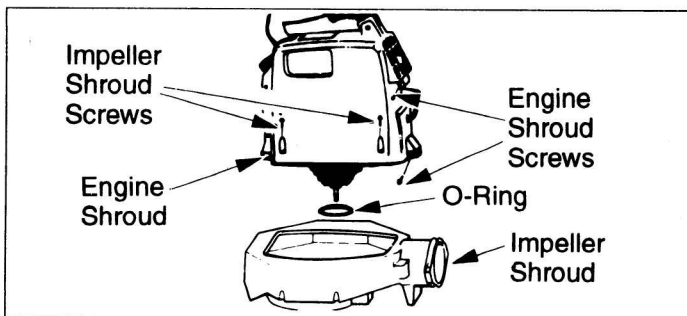


Figure 20

- Remove the 5 screws from the pulley housing, then remove the pulley housing and pulley from the engine.

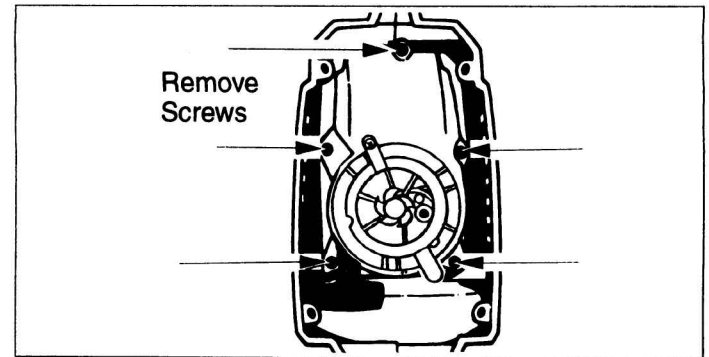


Figure 21

- Remove the rope retainer screw from pulley; then, remove the broken piece of rope, if any.
- Grasp the pulley ratchet and wind the pulley clockwise until the pulley stops. Then, slowly unwind the pulley counterclockwise until the pulley notch is aligned with the pulley housing notch, then unwind pulley one complete turn. Insert the hex wrench into the hole formed by the aligned notches.
- Move away from the fuel tank and melt the ends of the new rope.
- Allow each melted end to drip once; then while the rope is still hot, pull each melted end through a clean rag to obtain a smooth, pointed end.

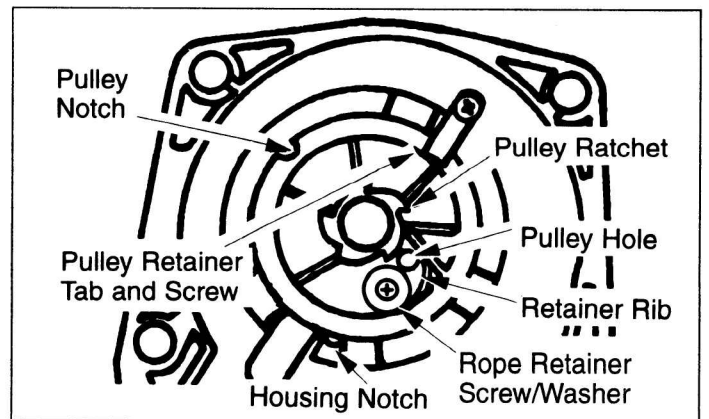


Figure 22

- Insert one end of the rope through the handle and secure with a knot. Leave 3/16" pigtail behind the knot.
- Insert the other end of the rope through the metal grommet, then under the rope guide.

**FOR CALIFORNIA RESIDENTS ONLY WHEN
SEEKING SERVICE IN CALIFORNIA**

**CALIFORNIA EMISSION CONTROL
WARRANTY STATEMENT**

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Sears, Roebuck and Co., USA, are pleased to explain the emissions control system warranty on your 1995 lawn and garden equipment engine. In California, new utility and lawn and garden equipment engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Sears must warrant the emission control system on your lawn and garden equipment engine for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your lawn and garden equipment engine.

Your emission control system includes parts such as the carburetor and the ignition system.

Where a warrantable condition exists, Sears will repair your lawn and garden equipment engine at no cost to you. Expenses covered under warranty include diagnosis, parts, and labor.

MANUFACTURER'S WARRANTY COVERAGE--

The 1995 and later utility and lawn and garden equipment engines are warranted for two years. If any emission related part on your engine (as listed above) is defective, the part will be repaired or replaced by Sears.

OWNER'S WARRANTY RESPONSIBILITIES--

As the lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Sears recommends that you retain all receipts covering maintenance on your lawn and garden equipment engine, but Sears cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the lawn and garden equipment engine owner, you should be aware that Sears may deny you warranty coverage if your lawn and garden equipment engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications, or the use of parts not made or approved by the original equipment manufacturer.

You are responsible for presenting your lawn and garden equipment engine to a Sears authorized repair center as soon as a problem exists. Warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call Sears at 1-800-473-7247.

WARRANTY COMMENCEMENT DATE--

The warranty period begins on the date the lawn and garden equipment engine is delivered.

LENGTH OF COVERAGE--

Sears warrants to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause the failure of a warranted part for a period of two years.

WHAT IS COVERED--

REPAIR OR REPLACEMENT OF PARTS--

Repair or replacement of any warranted part will be performed at no charge to the owner at an approved Sears servicing center.

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call Sears at 1-800-473-7247.

WARRANTY PERIOD--

Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for 2 years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part.

DIAGNOSIS--

The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective if the diagnostic work is performed at an approved Sears servicing center.

CONSEQUENTIAL DAMAGES--

Sears may be liable for damages to other engine components caused by the failure of a warranted part still under warranty.

WHAT IS NOT COVERED--

All failures caused by abuse, neglect, or improper maintenance are not covered.

ADD-ON OR MODIFIED PARTS--

The use of add-on or modified parts can be grounds for disallowing a warranty claim. Sears is not liable to cover failures of warranted parts caused by the use of add-on or modified parts.

HOW TO FILE A CLAIM--

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call Sears at 1-800-473-7247.

WHERE TO GET WARRANTY SERVICE--

Warranty services or repairs shall be provided at all Sears authorized service centers.

MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION RELATED PARTS--

Any Sears approved replacement part used in the performance of any warranty maintenance or repair on emission related parts will be provided without charge to the owner if the part is under warranty.

EMISSION CONTROL WARRANTY PARTS LIST--

1. Carburetor
2. Ignition System
 - a. Spark Plug, covered up to maintenance schedule.
 - b. Ignition Module

MAINTENANCE STATEMENT--

The owner is responsible for the performance of all required maintenance as defined in the owners manual.

SERVICE AND ADJUSTMENTS

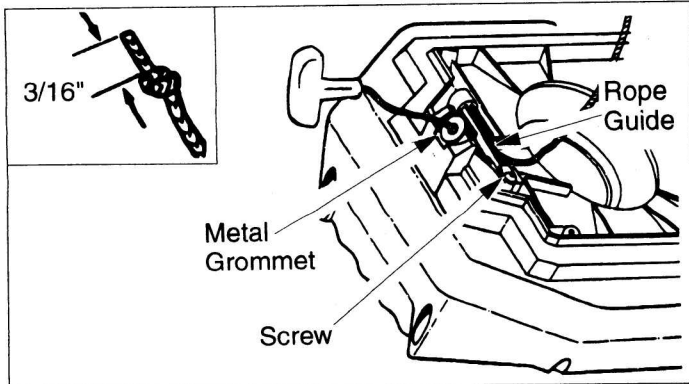


Figure 23

- Guide rope inside the pulley, then through pulley hole. Figure 23.
 - Wrap rope counterclockwise around the pulley ratchet and tuck the loose end back under the rope, leaving about a 1 inch tail next to the retainer rib. The end of the rope should not go more than 1/4" past the end of the retainer rib.
 - Install and tighten the retainer screw/washer. Figure 24.
- NOTE** – Do not overtighten the retainer screw. Overtightening the screw can cause the screw post to strip out. Tighten the screw until the bottom of the washer either (1) is snug against the rope or (2) contacts the top of the screw post.
- Pull the rope tightly around the pulley ratchet.
 - Slightly pull the rope to relieve the pressure on the hex wrench. Remove the hex wrench and allow the rope to rewind slowly.
 - Reassemble the pulley housing to the engine. Tighten screws securely.

NOTE – Be sure the rubber o-ring is installed onto the pulley housing. See Figure 20.

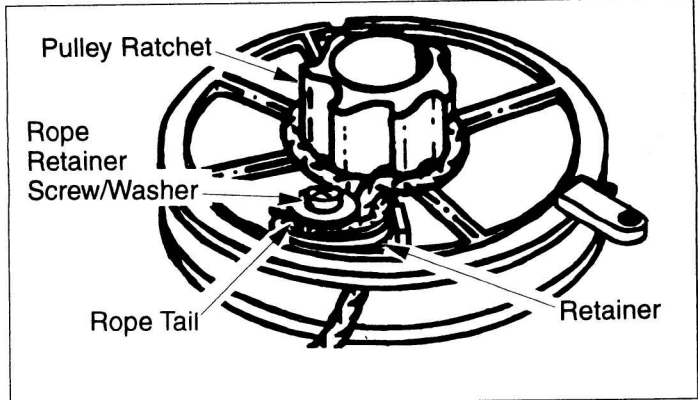


Figure 24

- Align the hole in the impeller with the impeller shaft, making sure the flat sides are aligned.
- NOTE** – When re-assembling the impeller housing to the engine shroud, be sure not to overtighten screws. Overtightening the screws can strip out the impeller housing.
- Assemble parts by reversing the first four steps under "Repair or Replace Starter Rope".

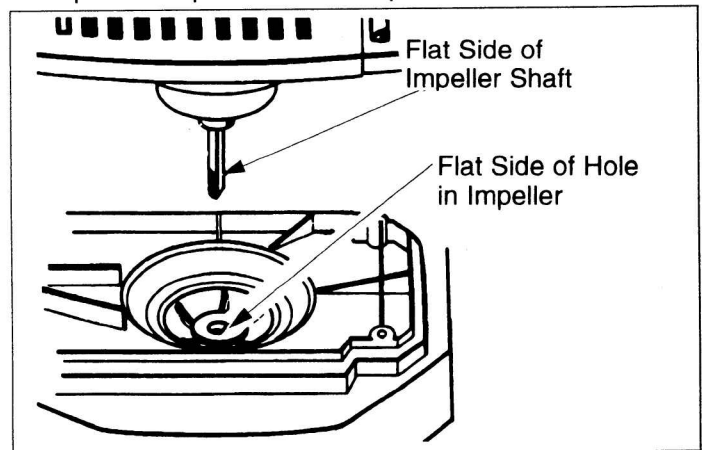


Figure 25

SERVICE AND ADJUSTMENTS

CARBURETOR ADJUSTMENTS

Carburetor adjustment is critical and if done improperly can permanently damage the engine as well as the carburetor. Please read all instructions and consult the Trouble Shooting section of this manual before beginning this process. If the engine does not operate according to these instructions after repeating the adjusting steps, do not use the unit. For further assistance, please call our customer assistance helpline at 1-800-235-5878.



WARNING

The impeller will be spinning during this procedure. Wear your protective equipment and observe all safety instructions.

Keep others away when making carburetor adjustments.

The mixture setting is a highly critical adjustment. If set incorrectly, permanent damage will occur to the engine. Do not run engine at full throttle for prolonged periods while making the mixture adjustment.

If engine does not start, it may be flooded. If in doubt, read the section on flooded engine in the starting section of this manual prior to beginning any adjustments.

- Engine will not continue to run at idle position. See "Idle Speed Adjustment" and "Mixture Adjustment."
- Engine dies or hesitates when it should accelerate. See "Acceleration Check."
- Loss of power which cannot be corrected by cleaning air filter. See "Mixture Adjustment."

NOTE – There are two adjustments on the carburetor.

- The Idle Speed Adjustment is marked "Idle".
- The Mixture Adjustment is marked "Mix".

CARBURETOR PRESETS (Fig. 26)

If your engine will not start due to suspected improper carburetor adjustment, the following presets may be required. If used, it is recommended that all steps within the adjustment procedure be completed in order to assure a properly set carburetor. If presets are not needed, proceed to section "Idle Speed Adjustment."

When making adjustments, be careful not to force the plastic limiter caps beyond the stops or damage will occur.

Very small adjustments can affect engine performance. It is important to make slight adjustments and test performance before proceeding. Each adjustment should be no more than 1/16th of a turn.

- Turn the mixture screw counterclockwise to the limiter stop.
- Turn idle speed screw clockwise 1/2 turn.
- If engine fails to start after performing carburetor presets, the unit may be flooded. Review the "Difficult Starting" section of the manual. If problems continue call the 1-800 number listed on the front cover of this manual for further assistance.
- Start the engine and operate for three (3) minutes to warm up. Go to "Adjusting Procedure."

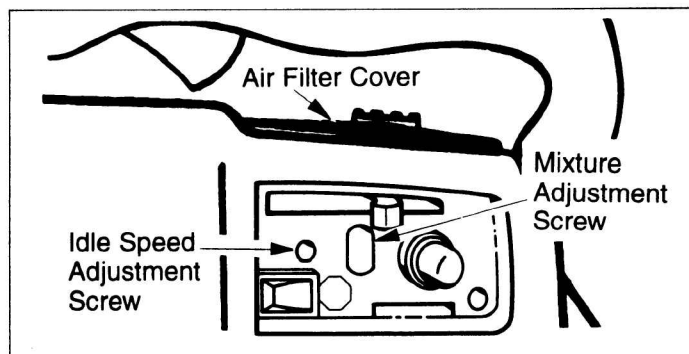


Figure 26

ADJUSTING PROCEDURE IDLE SPEED ADJUSTMENT "IDLE"

- Allow engine to idle.
- Adjust the idle speed until the engine continues to run without stalling.
 - Turn screw clockwise to increase engine speed.
 - Turn screw counterclockwise to slow engine down.
- No further adjustments are necessary if engine idles and performance is satisfactory.

MIXTURE ADJUSTMENT "MIX"

IMPORTANT – Do not operate engine at full throttle for prolonged periods while making mixture adjustments as damage to the engine can occur.

- Turn the mixture screw counterclockwise until it stops. If the engine accelerates and runs smoothly, no further adjustments are necessary. If not continue to next step.
- Turn the screw slowly the minimum amount clockwise until the engine runs smoothly.
- If the engine accelerates and runs smoothly, no further adjustments are necessary.

ACCELERATION CHECK

- If the engine dies or hesitates instead of accelerating, turn the mixture screw the width of the slot in the adjusting screw counterclockwise until you have smooth acceleration.
- Check the idle speed for stability. Adjust as necessary.
- Recheck for smooth acceleration and stable idle.
- Repeat process as necessary for acceptable performance.

STORAGE

Immediately prepare your unit for storage at the end of the season or it will not be used for 30 days or more.



WARNING

Allow the engine to cool, and secure the unit before storing or transporting in a vehicle.

Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

Store unit with all guards in place. Position so that any sharp object cannot accidentally cause injury to passers by.

Store the unit out of the reach of children.

GAS BLOWER STORAGE INSTRUCTIONS

If your blower is to be stored for a period of time, clean it thoroughly prior to storage. Remove any dirt, leaves, oil, grease, etc. Store in a clean dry area.

- Clean the entire unit.
- Clean air filter. Refer to "Customer Responsibilities."
- Lightly oil external metal surfaces to prevent rust from forming.
- Re-assemble all loose parts, being sure that all handles and guards are in place and are securely fastened.
- Replace any damaged parts.

ENGINE

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur to fuel system components. Follow these instructions:

- Drain the fuel from the unit into an approved fuel container.
- Drain the fuel lines and carburetor by starting the engine and letting it run until it stops.
- Allow the engine to cool before storage.

IMPORTANT – It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel line or tank during storage. Also, experience indicates that alcohol blended fuels called gasohol (or using ethanol or methanol) can attract moisture and leads to oil/gas separation and formation of acids during storage which will damage your engine. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer.

Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to the gasoline in the fuel tank or fuel storage container. Always follow the mix instructions found on stabilizer containers. Run engine at least 5 minutes after adding stabilizer to allow the stabilizer to reach the carburetor.

CRAFTSMAN 40:1 2-cycle engine oil (AIR-COOLED) is specially blended with fuel stabilizer. If you do not use this Sears oil, you can add a fuel stabilizer (such as CRAFTSMAN No. 33500) to your fuel tank.

- Remove spark plug and pour 1 teaspoon of 40:1 2-cycle engine oil (AIR-COOLED) through the spark plug opening. Slowly pull the starter rope 8 to 10 times to distribute oil to inner engine surfaces.
- Replace spark plug with a new one of the recommended type and heat range. Refer to "Product Specifications."
- Clean air filter. Refer to "Customer Responsibilities."
- Re-install all covers and hardware removed for access; tighten all screws and fasteners.
- Check entire unit for loose screws, nuts, and bolts. Replace any damaged, broken, or worn parts.
- Lightly oil external metal surface to prevent rust from forming.
- Use fresh fuel having the proper gasoline to oil ratio at the beginning of the next season.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your fuel system will cause problems.
- Store your unit in a well ventilated area and covered, if possible, to prevent dust and dirt accumulation. Do not cover with plastic. Plastic cannot breathe and will induce condensation and eventual rust or corrosion.

IMPORTANT – Never cover unit while engine and exhaust areas are still warm.

TROUBLE SHOOTING POINTS

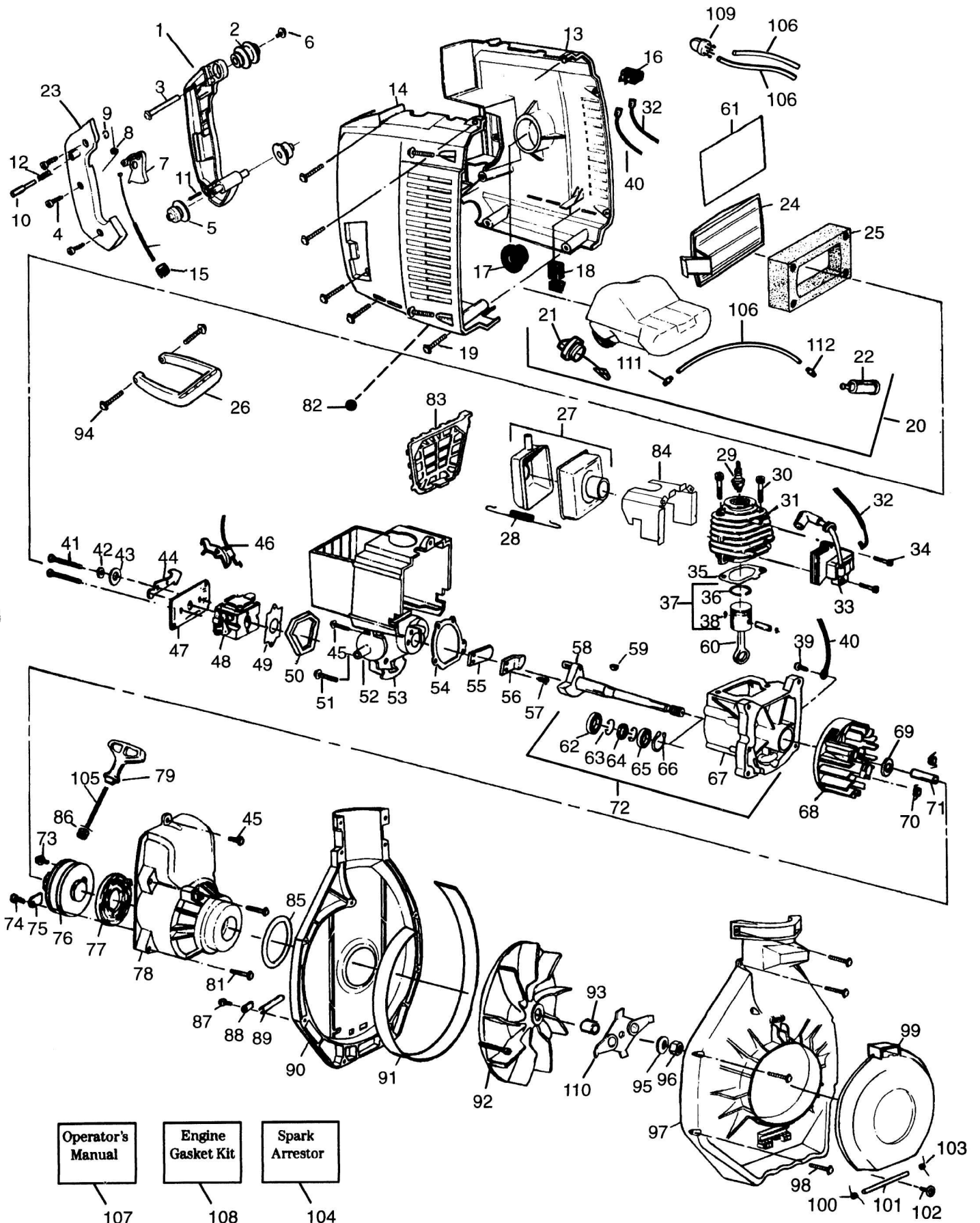
TROUBLE SHOOTING CHART

SYMPTOM	CAUSE	CORRECTION
Engine will not start or will only run only for a few seconds after starting.	<ol style="list-style-type: none"> 1. Fuel tank empty. 2. Engine flooded. 3. Spark plug not firing. 4. Fuel not reaching carburetor. 5. Carburetor requires adjustment. 6. None of the above. 	<ol style="list-style-type: none"> 1. Fill tank with correct fuel mixture. 2. See "Starting Instructions." 3. Install new plug/check ignition switch. 4. Replace fuel filter; inspect fuel line. 5. See "Carburetor Adjustments." 6. Contact your SEARS Service Center/Dept.
Engine will not idle properly.	<ol style="list-style-type: none"> 1. Carburetor set too fast or too slow. 2. Carburetor requires adjustment. 3. None of the above. 	<ol style="list-style-type: none"> 1. See "Carburetor Adjustments." 2. See "Carburetor Adjustments." 3. Contact your SEARS Service Center/Dept.
Engine will not accelerate, lacks power, or dies under a load.	<ol style="list-style-type: none"> 1. Air filter dirty. 2. Spark plug fouled. 3. Carburetor requires adjustment. 4. Muffler outlets plugged. 5. None of the above. 	<ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Replace spark plug. 3. See "Carburetor Adjustments." 4. Contact your SEARS Service Center/Dept. 5. Contact your SEARS Service Center/Dept.
Engine smokes excessively.	<ol style="list-style-type: none"> 1. Air filter dirty. 2. Fuel mixture incorrect. 3. Carburetor requires adjustment. 	<ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Refuel with correct fuel mixture. 3. See "Carburetor Adjustments."
Engine runs hot.	<ol style="list-style-type: none"> 1. Fuel mixture incorrect. 2. Spark plug incorrect. 3. Carburetor set too lean. 4. None of the above. 	<ol style="list-style-type: none"> 1. See "Fueling Your Unit." 2. Replace with correct plug. 3. See "Carburetor Adjustments." 4. Contact your SEARS Service Center/Dept.

*If situations occur which are not covered in this manual, use care and good judgement.
If you need assistance, contact your SEARS Service Center/Department or the
CUSTOMER ASSISTANCE HELPLINE at 1-800-235-5878.*

REPAIR PARTS

Sears Blower – Models 358.798960 & 358.798980

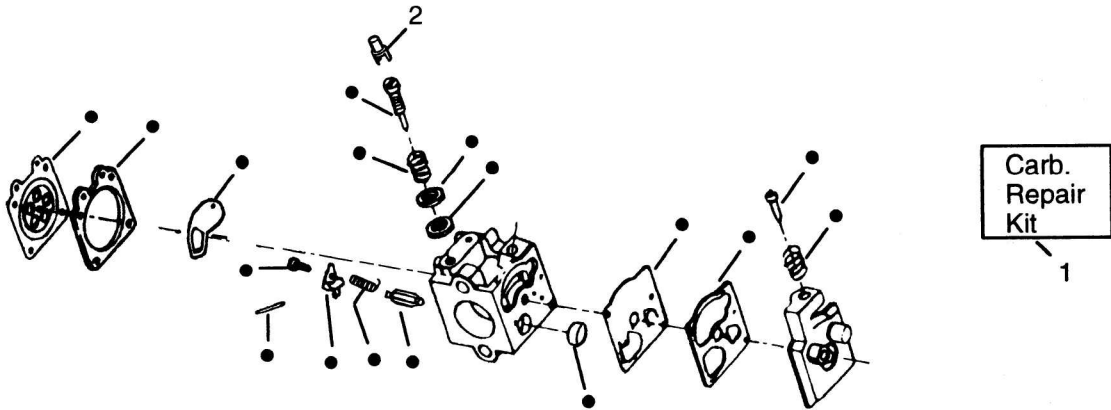


REPAIR PARTS

Key No.	Part No.	Description	Key No.	Part No.	Description
1	530-094712	Handle	57	530-016064	Screw
2	530-026994	Front Isolator	58	530-047669	Crankshaft
3	530-029111	Spacer	59	530-015126	Key
4	530-015635	Screw	60	530-010960	Connecting Rod Ass'y.
5	530-029130	Rear Isolator	61	530-047757	Decal-Instruction
6	530-015813	Screw	62	530-032103	Inner Bearing
7	530-029072	Trigger	63	530-015787	Ring
8	530-027597	Spring	64	530-019158	Crankshaft Seal
9	530-015702	"C" Clip	65	530-032102	Outer Bearing
10	530-029117	Throttle Lock Button	66	530-015789	Retaining Ring
11	530-015840	Pin	67	530-014016	Crankcase Ass'y (Incl. #62-65)
12	530-024772	Spring	68	530-039189	Flywheel Ass'y. (Incl. #70)
13	530-047746	Shroud-Left	69	530-347987	Washer
14	530-047756	Shroud-Right	70	530-023817	Spring
15	530-019168	Grommet	71	530-047701	Spacer-Flywheel
16	530-069718	Switch	72	530-047705	Crankcase/CrankshaftAssy. (Incl. 58, 62-67)
17	530-029129	Isolator-Engine Mount	73	530-016080	Screw
18	530-029089	Isolator-Tank	74	530-015496	Screw
19	530-015814	Screw	75	530-027523	Retainer
20	530-047747	Fuel Tank Ass'y.	76	530-069486	Starter Pulley (Incl. #73)
21	530-014347	Fuel Cap (Incl. O'Ring)	77	530-029395	Starter Spring
22	530-014362	Fuel Pick-up Ass'y.	78	530-069714	Fan Housing Kit (Incl. #71, 73-77, 79, 86 & 105)
23	530-014160	Handle Cover Ass'y. (Incl. #9, 10 & 12)	79	530-027569	Starter Handle
24	530-029728	Cover-Air Filter	81	530-015769	Screw
25	530-029112	Air Filter	82	530-047782	Cap - Model 358.798960
26	530-047754	Assist Handle - Model 358.798980	83	530-069303	Muffler Guard
27	530-069293	Muffler	84	530-029404	Air Baffle
28	530-029116	Spring	85	530-019167	"O" Ring
29	530-030075	Spark Plug	86	530-029182	Eyelet
30	530-001624	Screw	87	530-015805	Screw
31	530-069626	Cylinder	88	530-027523	Retainer
32	530-039194	Lead Wire	89	530-029119	Roll Pin
33	530-039137	Ignition Module	90	530-094710	Blower Housing (Upper)
34	530-015816	Screw	91	530-029173	Band
35	530-019178	Gasket	92	530-047702	Impeller
36	530-025875	Piston Ring	93	530-029118	Hub
37	530-069349	Piston Kit (Incl. #36,38, & Pin)	94	530-015843	Screw - Model 358.798980
38	530-015162	Retainer	95	530-015441	Washer
39	530-015306	Screw	96	530-001733	Nut
40	530-039196	Ground Wire	97	530-047736	Blower Housing (Lower) (Incl. #99-103)
41	530-015849	Screw	98	530-015814	Screw
42	530-015254	Wave Washer	99	530-047700	Door
43	530-015852	Spacer	100	530-015667	Spring
44	530-035406	Choke Shutter	101	530-015647	Pin
45	530-015771	Screw	102	530-015815	Screw
46	530-037492	Cable Assembly	103	530-015672	Spring
47	530-029115	Plate-Air Filter	104	530-069348	Spark Arrestor Kit
48	530-069730	Carburetor Ass'y. (WA219-B) (Incl. Limiter Cap)	105	530-069232	Rope Kit
49	530-019164	Gasket	106	530-069751	Line Kit
50	530-019165	Seal	107	530-083791	Operators Manual
51	530-015775	Screw	108	530-069294	Gasket Kit
52	530-029113	Ground Wire	109	530-047721	Purge Bulb
53	530-047696	Reed Block	110	530-095355	Mulch Blade
54	530-019166	Gasket	111	530-023877	Vent Fitting
55	530-027593	Reed Valve	112	530-047854	Vent Fitting
56	530-027594	Reed Stop			

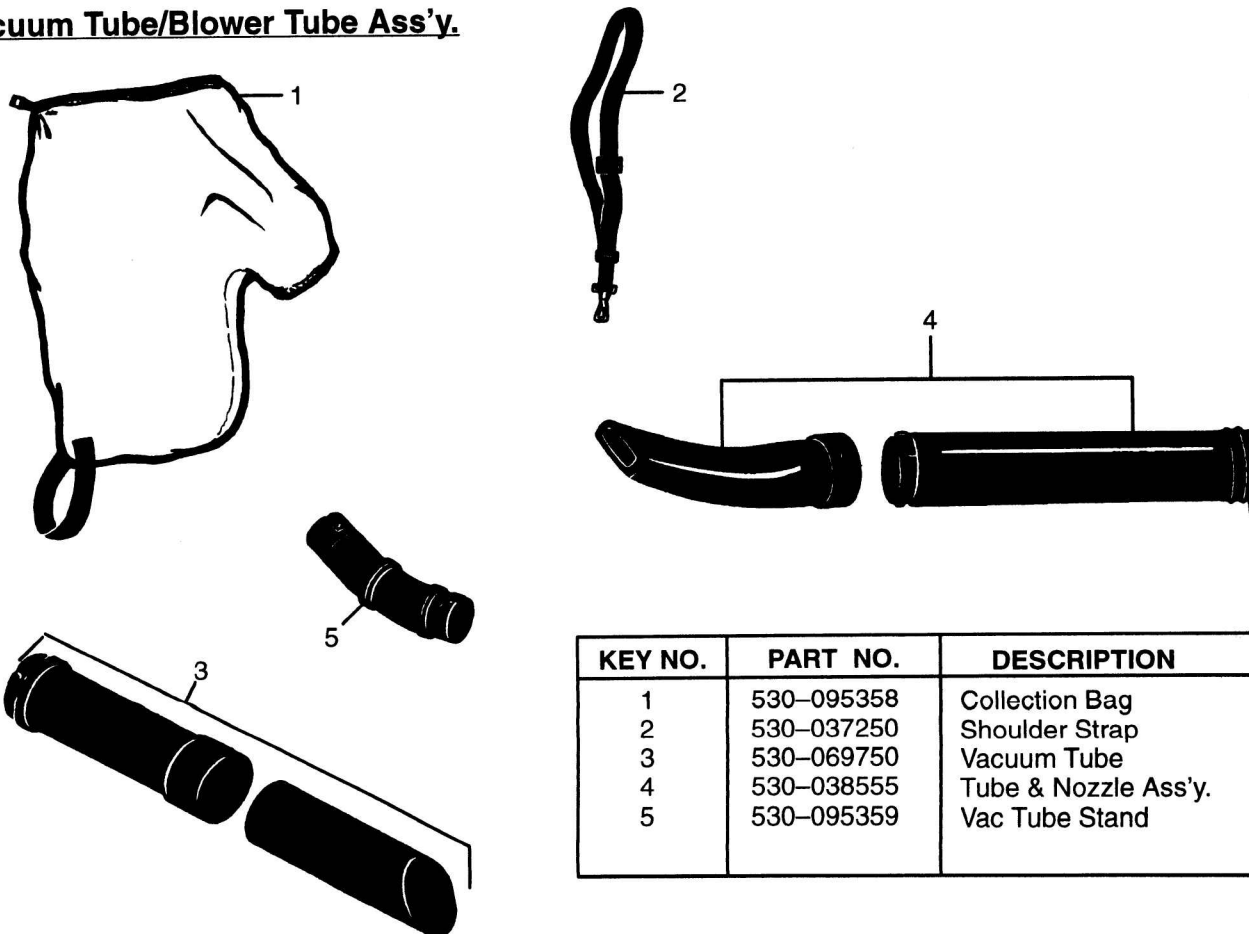
REPAIR PARTS

Carburetor Assembly Part Number 530-069730 (WA219-B)



Key No.	Part No.	Description
1	530-069729	Carburetor Repair Kit
2	530-038403	Limiter Cap-Single Needle

Vacuum Tube/Blower Tube Ass'y.



KEY NO.	PART NO.	DESCRIPTION
1	530-095358	Collection Bag
2	530-037250	Shoulder Strap
3	530-069750	Vacuum Tube
4	530-038555	Tube & Nozzle Ass'y.
5	530-095359	Vac Tube Stand

SEARS

Operator's Manual

Model No.
358.798960
358.798980

IF YOU NEED REPAIR SERVICE OR PARTS:

REPAIR SERVICE
1-800-4-REPAIR
(1-800-473-7247)

ORDERING PARTS
1-800-FON-PART
(1-800-366-7278)



**CUSTOMER
ASSISTANCE**
1-800-235-5878

HOURS (CST)
Mon. - Sat. 7 a.m. - 7 p.m.
Sun. 10 a.m. - 7 p.m.

CRAFTSMAN®

32 cc 2-CYCLE ENGINE 170 mph Air Velocity GASOLINE BLOWER/VAC

Each Gas Blower® has its own model number. The model number for your unit will be found on a decal attached to the unit.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

- PRODUCT – "GASOLINE BLOWER"
- MODEL NUMBER – 358.798460
358.798980
- PART NUMBER
- PART DESCRIPTION

Your Sears Merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained on Sears products, having the parts, tools and equipment to insure that we meet our pledge to you, we service what we sell.