



⚠ WARNING: Read the Operator's Manual and Follow All Warnings And Safety Instructions. Failure To Do So Can Result In Serious Injury.

For Household Use Only



OPERATOR'S MANUAL

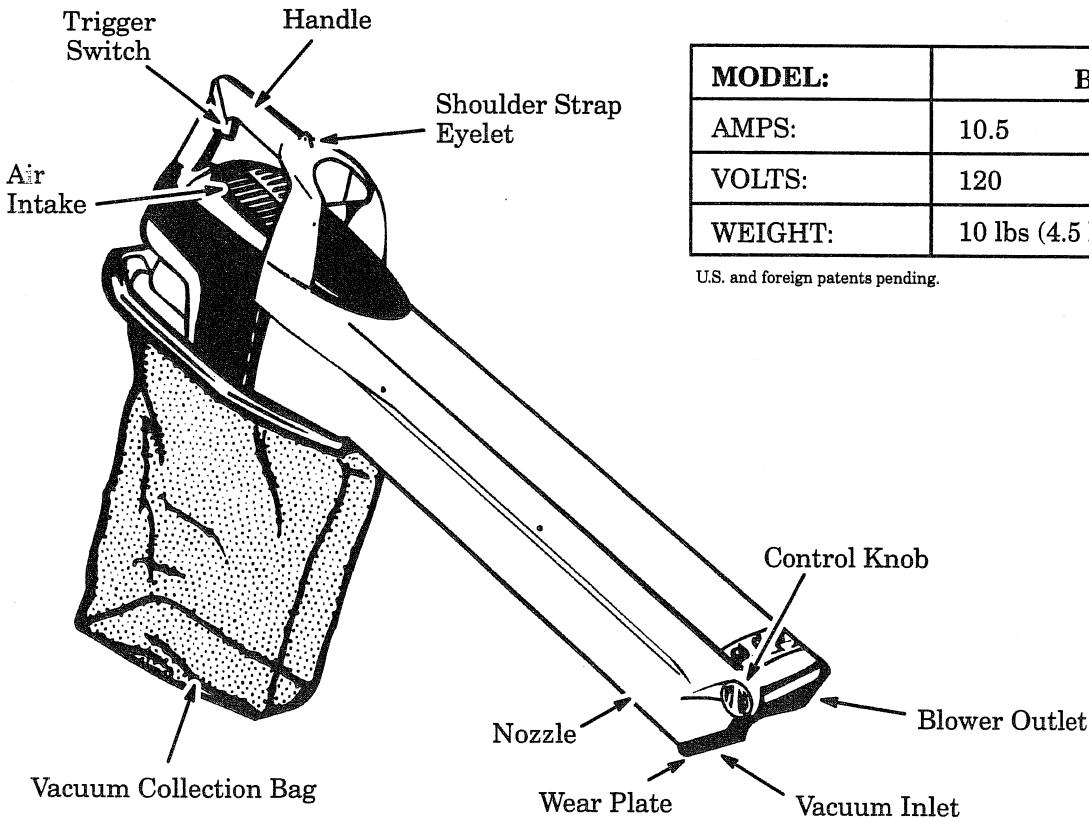
MODEL: BV1150

Electric Vacuum/Blower
Always Wear Eye Protection

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SPECIFICATIONS



MODEL:	BV1150
AMPS:	10.5
VOLTS:	120
WEIGHT:	10 lbs (4.5 kg) (as a blower)

U.S. and foreign patents pending.

WARNINGS AND SAFETY INSTRUCTIONS

Failure to follow all Safety Rules and Precautions can result in serious injury.

WARNING: The warnings and safety instructions in this manual must be followed to reduce the risk of fire, electric shock, or injury, and to provide reasonable safety and efficiency in using this tool. 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 the unit! Restrict the use of this tool to persons who read, understand, and follow the warnings and instructions in this manual and on the unit.

A. OPERATOR SAFETY

1. **Always wear eye protection** when operating, servicing, or performing maintenance on your unit to prevent rocks or debris from being blown or ricocheting into eyes and face which can result in blindness or serious injury.
2. **Always wear heavy, long pants and 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. Be especially careful to keep hair or loose clothing away from the air intake near the trigger switch.
3. **Keep hair, fingers, and all other parts of the body away from openings and moving parts.** Use of rubber gloves is recommended.
4. **Do not operate the unit when you are tired, ill, upset, or if you are under the influence of alcohol, drugs, or medication.**
5. **Keep children, bystanders, and animals away from the work area a minimum of 30 feet (10 meters) when starting or operating the unit.**
6. **Inspect the area before using 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. As a vacuum, the unit is designed to pick up material such as leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs. *Do not attempt to vacuum water or other liquids to avoid the possibility of electrical shock.*

B. TOOL SAFETY

1. **Stop the motor and disconnect the power source** before attempting to install or remove the vacuum bag.
2. **Inspect the entire unit** before each use for worn, loose, missing, or damaged parts. Do not use the unit until it is in proper working order.
3. **Have all internal service, repairs, and maintenance** not explained in this Operator's Manual performed by an Authorized Service Dealer to avoid creating a hazard or voiding your warranty.
4. **Always have your Authorized Service Dealer replace a damaged impeller.** Parts that are chipped, cracked, broken, or damaged in any other way can fly apart and cause serious injury. Have damaged parts replaced before using the unit.
5. **Never run the unit without the proper equipment attached.** When used as a vacuum, always install the vacuum collection bag.
6. **Do not use** any accessory or attachment other than those recommended by the manufacturer for use with your unit.

C. ELECTRICAL SAFETY

1. **Avoid dangerous situations.** Do not use in the presence of flammable liquids (such as gasoline) or gases to avoid creating a fire or explosion and/or causing damage to the unit.
2. **Do not use in wet locations or around swimming pools, hot tubs, etc.** To avoid the possibility of electrical shock, do not handle plug or unit with wet hands or expose to ice, snow, rain, water, etc. *To avoid death by electrocution, electrical shock, or damage to the unit, do not attempt to vacuum water or other liquids. This is **not** a wet/dry vac.*
3. **Inspect insulation and connectors on unit and power cord before each use.** Do not use with damaged cord or plug. If unit is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, do not use until damage is repaired by an Authorized Service Dealer.
4. **Never carry the unit by the power cord or yank the power cord** to disconnect the unit.
5. **Do not use unit if the trigger does not turn it on and off properly.** Repairs to trigger must be made by an Authorized Service Dealer.
6. **Use extension cords specifically marked as suitable for outdoor use.** Match wire gauge to the cord length. See Figure 3.
7. **Avoid any body contact with any grounded conductor,** such as metal pipes or wire fences, to avoid the possibility of electrical shock.
8. **Unplug unit** and allow the impeller to stop before servicing or cleaning the unit.
9. **Do not attempt to repair the unit.** Repairs must be performed by an Authorized Service Dealer.
10. **Never immerse any part of the unit into any liquid.**
11. **Do not plug into any receptacle** other than the one intended for use with your unit.

D. OPERATION SAFETY

1. **Keep others including children, animals, bystanders, and helpers a minimum of 30 feet (10 meters) away.** Stop the motor immediately if you are approached. Never point the blower nozzle toward children, animals, bystanders, automobiles, windows, etc. Do not allow the unit to be used as a toy or by children. Close attention is necessary when used near children.
2. **Avoid accidental starting.** Be sure to keep your hand and fingers away from the trigger while connecting the unit to the power source or when carrying a unit connected to the power source.
3. **Inspect the area before using 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. As a vacuum, the unit is designed to pick up material such as leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs. *Do not attempt to vacuum water or other liquids to avoid the possibility of electrical shock.*

4. **Stop the unit and disconnect it from the power source when not in use.**
5. **Avoid dangerous environments.** Do not use in unventilated areas or where dust or explosive vapors can build up.
6. **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.
7. **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 or by children. Close attention is necessary when used near children.
8. **Never place any object in the air intake opening** as this could restrict proper air flow and cause damage to the unit.
9. **Never run the unit without the proper equipment attached.** When used as a vacuum, always install the vacuum collection bag.
10. **Always use the shoulder strap** to avoid loss of control.
11. **Never use for spreading chemicals, fertilizers, or any other substances** which may contain toxic materials.
12. **Avoid situations which could set the collection 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.
13. **Use only for jobs explained in this manual.**

*If situations occur which are not covered in this manual, use care and good judgement.
Contact your Authorized Service Dealer if you need assistance.*

SAVE THESE INSTRUCTIONS

E. MAINTENANCE SAFETY

1. **Maintain the unit according to recommended procedures.**
2. **This unit is Double Insulated.** See the "DOUBLE INSULATION" section. **Have all internal service performed by an Authorized Service Dealer** to avoid creating a hazard and/or voiding your warranty.
3. **Disconnect the power source before servicing,** cleaning, performing maintenance, or storing the unit.
4. **Use only genuine replacement parts** as recommended by the manufacturer to avoid creating a hazard and/or voiding your warranty.
5. **Never douse the unit with water** or other liquids or squirt with a water hose. Clean with a damp sponge and mild soap. See "MAINTENANCE—STORAGE."
6. **Check air intake and blower openings frequently,** *always* with the unit stopped and the power source disconnected. Keep vents and tubes free of debris which can accumulate and restrict proper air flow.
7. **Do not attempt to repair the unit.** Repairs must be performed by an Authorized Service Dealer.
8. **Do not burn, incinerate, or expose this unit to extreme heat.**
9. **Store the unit unplugged in a high, cool, dry, indoors area out of the reach of children.**

NOTES

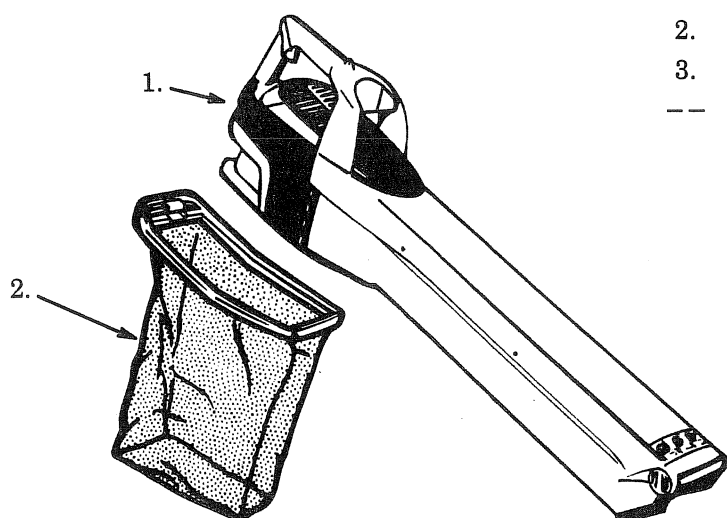
KNOW YOUR UNIT

A. INTRODUCTION

Your electric vacuum/blower is a high performance product designed for tough jobs.

Special Features include:

- Top and rear handle for stability
- Trigger Switch
- Vacuums large and difficult items
- Shoulder Strap for added control
- Convenient storage
- Large vacuum bag



B. UNPACKING INSTRUCTIONS

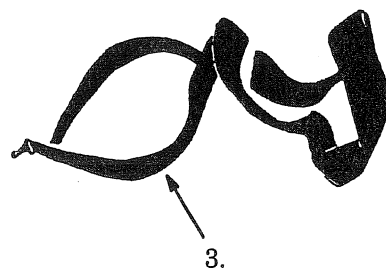
1. Remove contents from the carton if you have not done so.
2. Check parts against the Carton Contents List.
3. Examine parts for damage. Do not use damaged parts.
4. *Notify your Authorized Service Dealer immediately if a part is missing or damaged.*

KEY

NO. CARTON CONTENTS

QTY

1.	Electric Vacuum/Blower	1
2.	Vacuum Bag	1
3.	Shoulder Strap	1
--	Operator's Manual (not shown)	1



C. DOUBLE INSULATION CONSTRUCTION

Your unit is **Double Insulated** to help protect against electric shock. Double insulation construction consists of two separate "layers" of electrical insulation.

Tools and appliances built with a double insulation system are not intended to be grounded. No grounding means is provided on this unit, nor should a means for grounding be added to this unit. As a result, your unit can be plugged into any standard 120 volt electrical outlet.

Safety precautions must be observed when operating any electrical tool. The double insulation system only provides added protection against injury resulting from an internal electrical insulation failure.

⚠ WARNING

All electrical repairs to this unit, including housing, switch, motor, etc., must be diagnosed and repaired by an Authorized Service Dealer. Replacement parts for a double insulated appliance must be identical to the parts they replace. A double insulated appliance is marked with the words "DOUBLE INSULATION" or "DOUBLE INSULATED." The symbol (square within a square) may also be marked on the appliance. Failure to have the unit repaired by an Authorized Service Dealer can cause the double insulation construction to become ineffective and result in serious injury.

ASSEMBLY

PREPARATION

Your Operator's Manual has been developed to help you assemble the unit and to understand its safe operation. It is important that you read your manual completely to become familiar with the unit *before* you begin assembly.

A. VACUUM BAG ASSEMBLY

1. Catch the spindle portion of the bag frame in the frame hook on the underside of housing. Figure 1.
2. Lift the bag frame handle until the bag frame latch snaps into place on the bottom of the unit. Figure 1.
3. To remove the vacuum bag, press the bag frame latch and lower the bag frame handle. Then, move the bag frame forward and remove it from the frame hook.

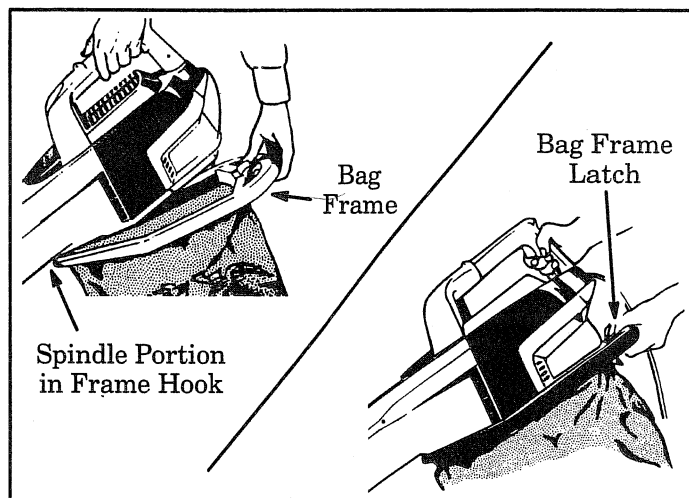


Figure 1

B. SHOULDER STRAP

1. Hold the unit in an upright position, resting the bottom of the tube on the ground.
2. Place the shoulder strap over your shoulder and head. The shoulder strap should rest on your shoulder, and the snaphook should be positioned on your front side just below your waist.
3. Attach the snaphook to the shoulder strap eyelet on the top side of the handle. Figure 2.

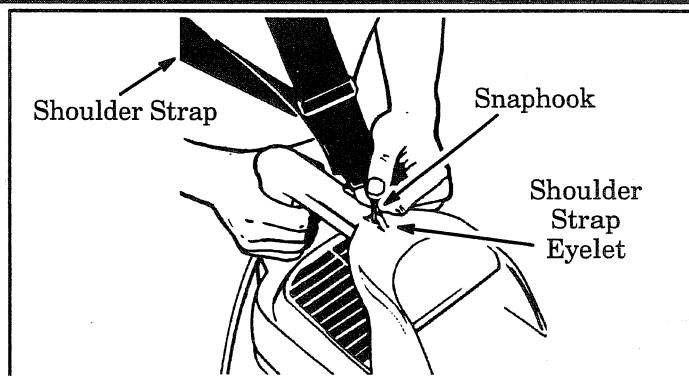


Figure 2

C. EXTENSION CORD

1. **Use only a 120 A.C. voltage supply** as shown on the nameplate of the unit to power your blower.
2. **The extension cord used to reach the power source must be:**
 - a. **Specifically marked as suitable for outdoor use.** *The cord must be marked with the suffix "WA."*
 - b. **Heavy enough to carry the current from the power source the full length of the extension cord to the unit.** Otherwise, loss of power and overheating can occur causing damage to the unit. Refer to Figure 3 for minimum wire gauge recommendations. *The cord must be marked with the proper wire gauge.* (Appropriate extension cords are available.)
 - c. **In good condition.** Cord insulation must be intact with no cracks or deterioration. Plug connectors must be undamaged.

NOTE: Do not use multiple cords.

3. **Secure extension cord to unit as follows:**
 - a. Tie the extension cord to the pigtail plug on the unit. Figure 4.

- b. Connect the extension cord receptacle to the pigtail plug. Figure 4.

MINIMUM WIRE GAUGE RECOMMENDATIONS					
AMPS	VOLTS	25 FT.	50 FT.	100 FT.	150 FT.
10 - 12	120	16 A.W.G.*	16 A.W.G.*	14 A.W.G.*	12 A.W.G.*

*American Wire Gauge

Figure 3

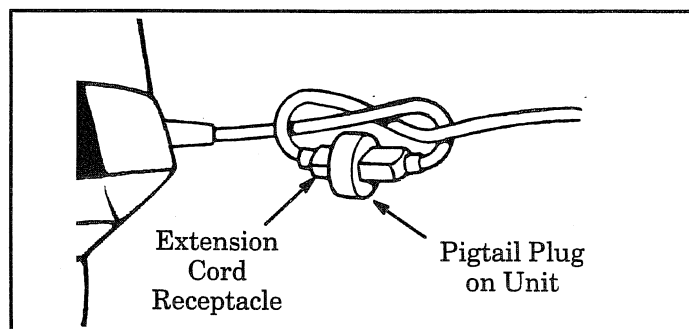


Figure 4

D. PRE-OPERATION CHECKS

Before operating your unit, always:

1. ✓**CHECK OVER WARNINGS AND SAFETY INSTRUCTIONS** in this Operator's Manual. Make certain you completely understand and follow each one.

2. ✓**CHECK THE UNIT FOR LOOSE SCREWS OR FITTINGS.**

Have all internal service performed by your **Authorized Service Dealer** to avoid creating a hazard and/or voiding your warranty.

USING YOUR UNIT

A. OPERATOR SAFETY

As a **blower**, the unit is designed to sweep debris, grass, straw, leaves, or small twigs. Never use for spreading or misting chemicals, fertilizers, or any other materials which may contain toxic substances.

Your **vacuum** is only designed to pick up material such as leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs.

⚠ DANGER

Do not attempt to vacuum water or other liquids. Vacuuming water or other liquids will cause damage to the unit and could result in injury, including death by electrocution.

⚠ WARNING

Avoid situations that could catch 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.

⚠ WARNING

Always stop the unit and disconnect the power source before unclogging or performing any maintenance on the unit.

1. **Read your Operator's Manual.** Make sure you completely understand and can follow all warnings and safety instructions in the manual *before* operating the unit.
2. **Always wear eye protection** when operating, servicing, or performing maintenance to your unit. Rocks or debris can be blown or ricocheted into eyes and face which can result in blindness or other serious injury.
3. **Always wear a respirator or facemask** when working in dusty environments.
4. **Always wear heavy, long pants and 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. Be especially careful to keep hair or loose clothing away from the air intake near the trigger switch.

5. **Check the unit before each operation.** Look for worn, loose, missing, or damaged parts. Do not use the unit until it is in proper working order.
6. **Inspect the area before using 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. As a vacuum, the unit is designed to pick up dry material such as leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs. *Do not attempt to vacuum water or other liquids to avoid the possibility of electrical shock.*
7. **Keep children, bystanders, and animals safely away.** *Before starting the unit and during operation, make certain children, people, and animals are a minimum of 30 feet away from the work area.*
8. **Always use a properly adjusted shoulder strap to avoid loss of control.**
9. **Check air openings and tubes frequently,** always with the motor stopped and the power source disconnected. Keep openings free of debris which can accumulate and restrict proper air flow.
10. **Do not plug unit into any receptacle** other than a normal 120 volt household outlet.
11. **Never immerse any part of the unit into any liquid.**
12. **Use the correct operating position.** Figure 6. 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.
13. **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, or cause other damage.
14. **Never run the unit without the proper equipment attached.** When using your unit as a vacuum, always install the vacuum bag.

-B. BLOWING – VACUUMING – JET VACUUM

▲ WARNING

Never run the unit without the proper equipment attached. When using your unit as a vacuum, always install the vacuum bag. The unit can be used as a blower without the vacuum bag.

Your unit is designed to change from a blower to a vacuum to a jet vacuum simply by turning a dial. See the following instructions and illustrations to select the desired mode of operation.

● BLOWER

Turn the dial to position 1 (the number 1 will be visible in the dial window). Figure 5. In this position, your unit will blow debris from lawns, patios, sidewalks, driveways, paths, bushes, borders, etc.

● VACUUM

Turn the dial to position 2 (the number 2 will be visible in the dial window). Figure 5. In this position, your unit will pick up material such as leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs.

● JET VACUUM

Turn the dial to position 3 (the number 3 will be visible in the dial window). Figure 5. The jet vacuum setting is intended to be used to collect debris which is damp or stubborn. In this position, a small jet of air is directed toward the ground. This jet of air loosens stubborn material, allowing it to be picked up by the vacuum.

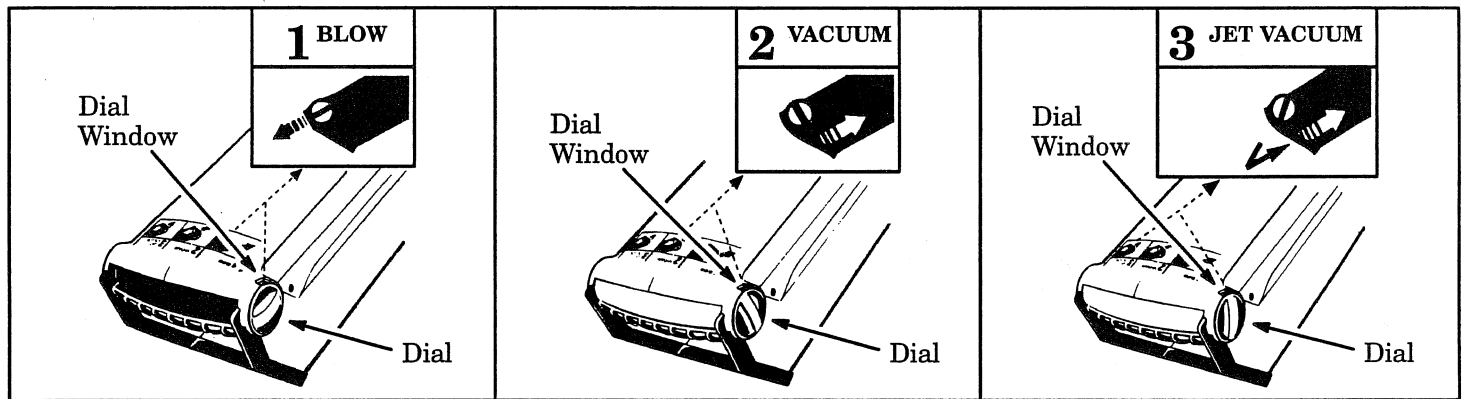


Figure 5

C. OPERATING TIPS

▲ WARNING

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.

1. Always work going away from solid objects such as walls, large stones, automobiles and fences.
2. Clean corners by starting in corners and moving outward to straight areas to prevent an accumulation of debris which could fly into face.
3. Be careful when working near plants. The force of the air could damage tender plants.
4. Uses For Your Blower/Vac:
 - a. Sweeping debris or grass clippings from driveways, sidewalks, patios, etc.
 - b. Blowing grass clippings, straw, leaves, etc. into piles.
 - c. Removing debris from corners, around joints, and between bricks.
 - d. Vacuuming leaves, grass, small twigs, bits of paper, etc., and large or difficult items such as paper cups, small cans, pine cones, and gumballs.
5. Move the unit slowly back and forth over debris to be vacuumed. Avoid forcing the nozzle into a pile of debris as this can clog the unit.

6. If the unit becomes clogged:

- a. Stop the unit and disconnect the power source. Do not attempt to remove obstructions when the unit is running.
- b. Carefully reach into the vacuum inlet and clear out debris.



Figure 6

GENERAL MAINTENANCE

A. MAINTAIN UNIT WITH CARE

▲ WARNING

This blower is provided with double insulation. Use only identical replacement parts. All electrical repairs to the unit, including housing, switch, motor, etc., must be diagnosed and repaired by an Authorized Service Dealer. Failure to do so can cause the double insulation construction to become ineffective and result in serious injury to the operator.

1. Keep air vents and tubes free of debris to avoid overheating the motor. Figure 7. Prevent foreign objects from entering the tubes.
2. If an object is drawn into the unit through the air intake, do the following:
 - a. Disconnect the unit from the power source.
 - b. Locate and remove the object(s).
 - c. Inspect the unit for damage. If damaged, do not operate the unit; injury to operator or others and/or further damage to the unit can occur. Have the unit repaired by your Authorized Service Dealer. Do not attempt to make repairs yourself.
3. Clean the unit and labels using a soft cloth. Figure 7.
4. Remove debris from the air intake vents using a soft brush. Figure 7.
5. Always empty the vacuum bag after use.
6. If the unit vibrates abnormally, stop the motor immediately. Abnormal vibration usually indicates a mechanical problem and continued operation could lead to injury to the operator or others and/or damage to the unit.
7. Do not attempt to repair the unit. Repairs must be performed by your Authorized Service Dealer.

8. If the unit fails to operate, disconnect the cord from the unit and the power source. Make sure the cord is undamaged and that house fuses are not blown or circuit breakers tripped. If the unit still fails to operate, take or send it to your Authorized Service Dealer. Do not attempt to make repairs yourself.
9. Never immerse any part of unit into any liquid.
10. The unit is equipped with self-lubricating bearings. Periodic relubrication is not required.
11. Unplug the unit from power source when servicing, cleaning, or storing the unit.
12. Do not plug extension cord into any receptacle other than a normal 120 volt household outlet.
13. Do not incinerate or expose unit to extreme heat.

▲ WARNING

Maintain the unit according to recommended procedures.

▲ WARNING

Avoid all types of detergents, cleaners, or solvents. Never submerge the unit or douse it with water or any other liquid.

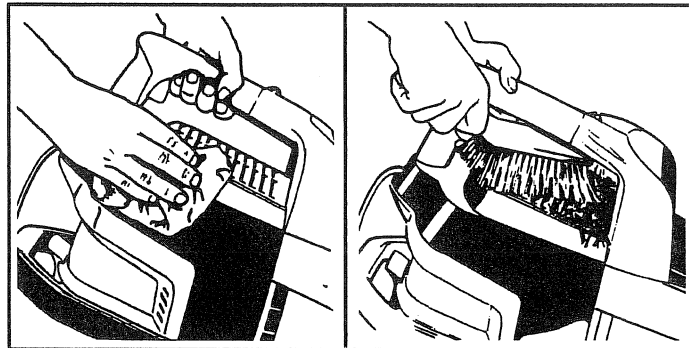


Figure 7

B. STORAGE

1. Unplug unit from power source when servicing, cleaning, or storing the tool.
2. Clean the unit and labels before storing. Make sure the unit is unplugged from the power source. Pay particular attention to the air intake and air vents; keep them free of debris. Use a mild detergent and sponge dampened with warm water to clean the plastic surfaces. Avoid all other types of detergents, cleaners, or solvents; they can contain chemicals, such as aromatic oils (lemon, pine) or kerosine, that can seriously damage the plastic housing. Do not spray the unit with water.
3. Never immerse any part of the unit into any liquid.
4. Never douse or squirt the unit with water or any other liquids.
5. Store indoors in a cool, high, dry location out of the reach of children.

NOTE: The unit can be hung on the wall by the bag frame handle. Figure 8.

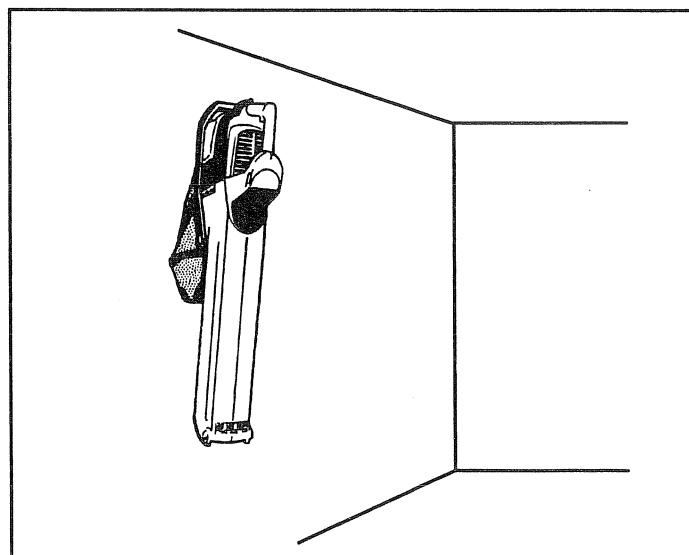


Figure 8

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