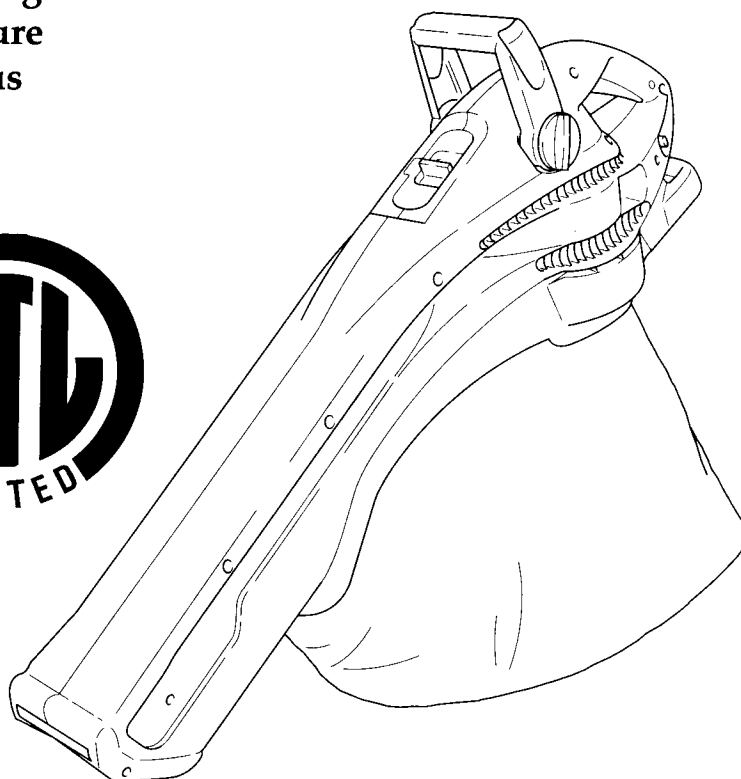


**IMPORTANT MANUAL**

**Do Not Throw Away**



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



## **OPERATOR'S MANUAL**

**MODEL :**

**BV1200**

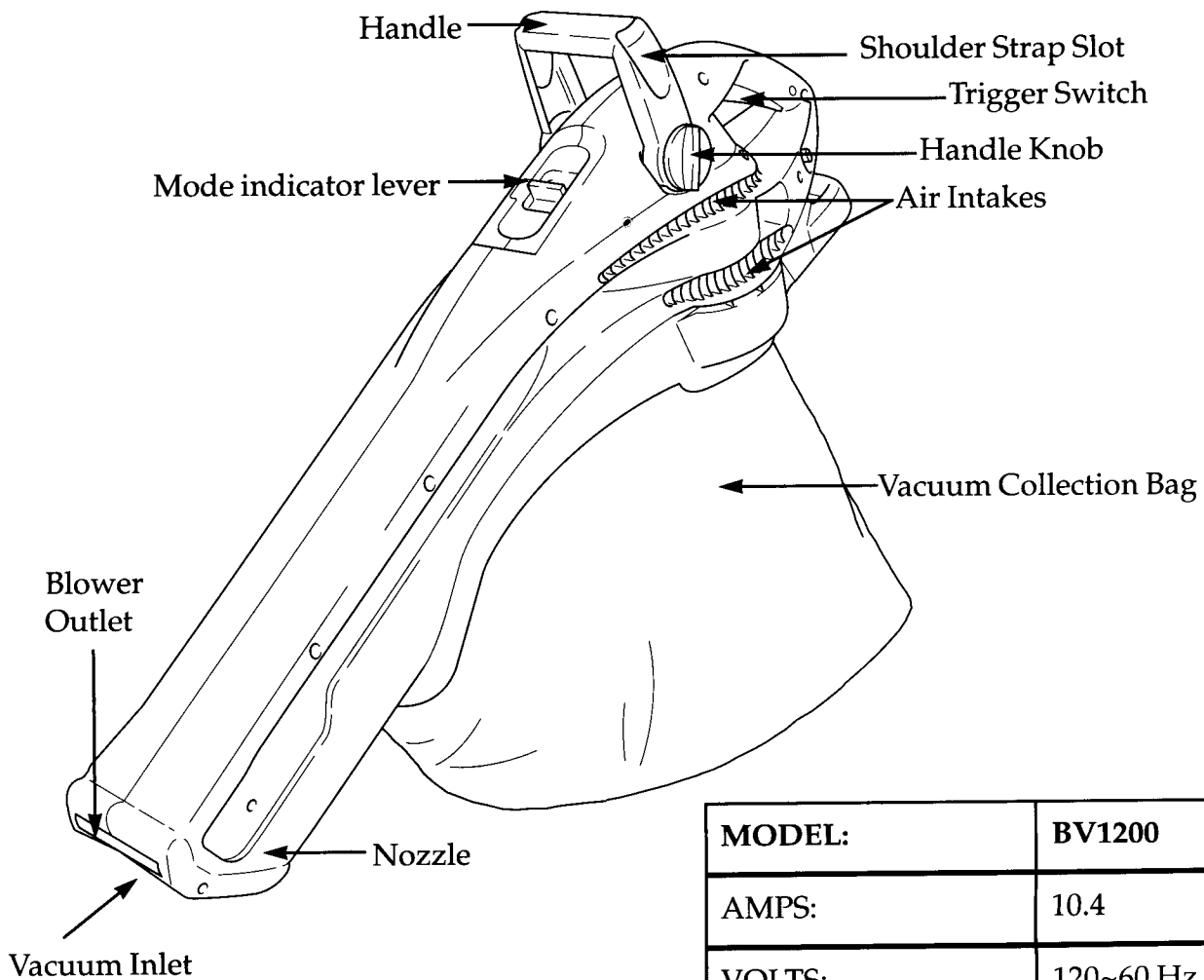
**Electric Vacuum/Blower**

*Always Wear Eye Protection*

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## SPECIFICATIONS



<b>MODEL:</b>	<b>BV1200</b>
<b>AMPS:</b>	10.4
<b>VOLTS:</b>	120~60 Hz
<b>WEIGHT:</b>	5.2 Kg

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 this 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 this unit.
5. **Never run the unit without the proper equipment attached.** 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 10.
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 openings** as this could restrict proper air flow and cause damage to the unit.
9. **Never run the unit without the proper equipment attached.** 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.**
14. **Release the trigger before unplugging.**

## 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.

*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

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## NOTES

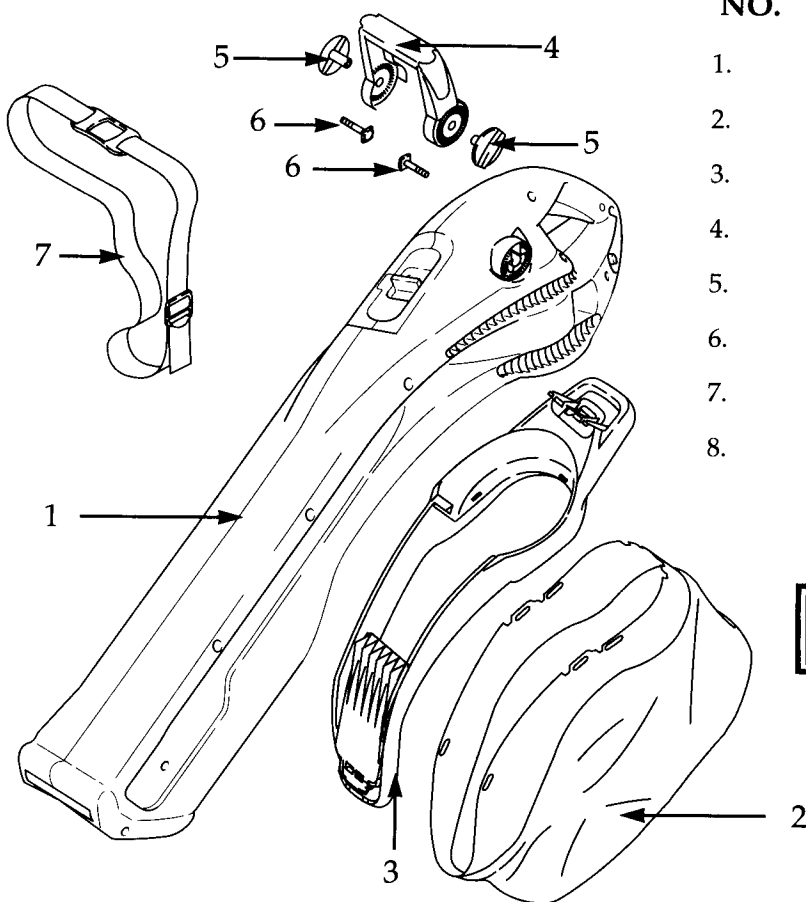
# KNOW YOUR UNIT

## 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
- Large vacuum bag

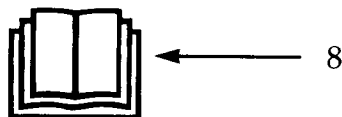


## B. UNPACKING INSTRUCTIONS

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.	Vacuum Bag Frame	1
4.	Handle	1
5.	Handle Knobs	2
6.	Handle Bolts	2
7.	Shoulder Strap	1
8.	Operator's Manual	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 TO VACUUM BAG FRAME ASSEMBLY

1. With the bag frame on the ground. Figure 1.
2. Locate clip at the back of the debris bag into the slot nearest to the bag frame handle and 'click' into place. Figure 1
3. Push remaining clips into the slots provided. Figure 1.
4. Ensure the bag is fitted securely to the bag frame.

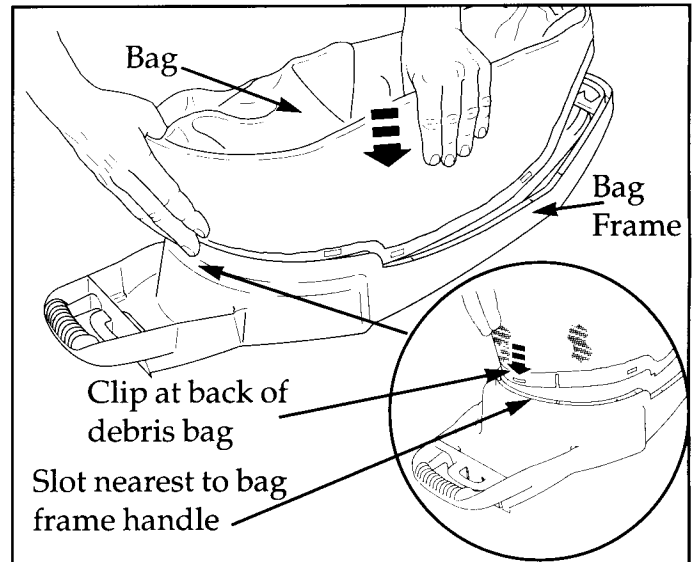


Figure 1

### B. VACUUM BAG TO UNIT ASSEMBLY

1. Ensure the debris fin on vacuum bag is horizontal. Figure 2.
2. Hold the unit in an upright position, resting the bottom of the nozzle on the ground. Figure 3.
3. Catch the spindle portion of the bag frame in the frame hook on the underside of housing. Figure 2.
4. Lift the bag frame handle until the bag frame latch snaps into place on the bottom of the unit. Figure 3.
5. 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 4

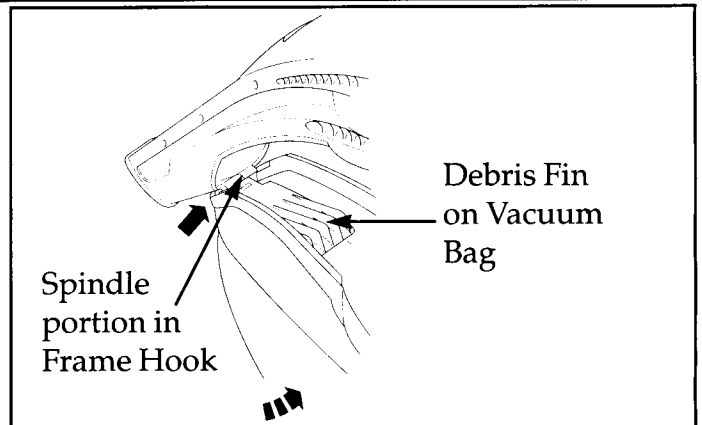


Figure 2

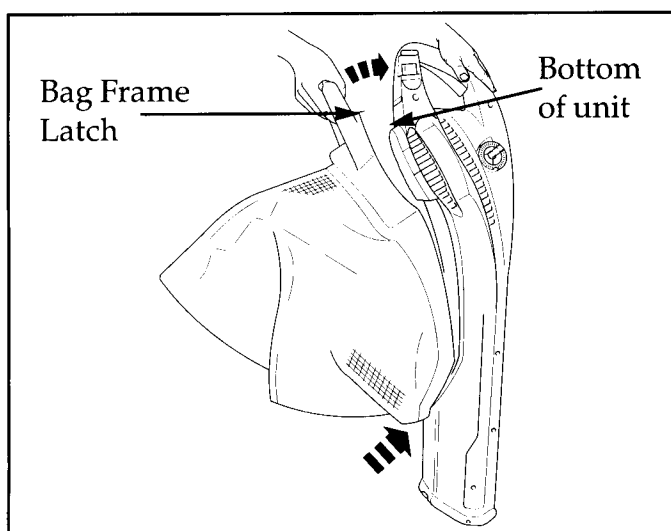


Figure 3

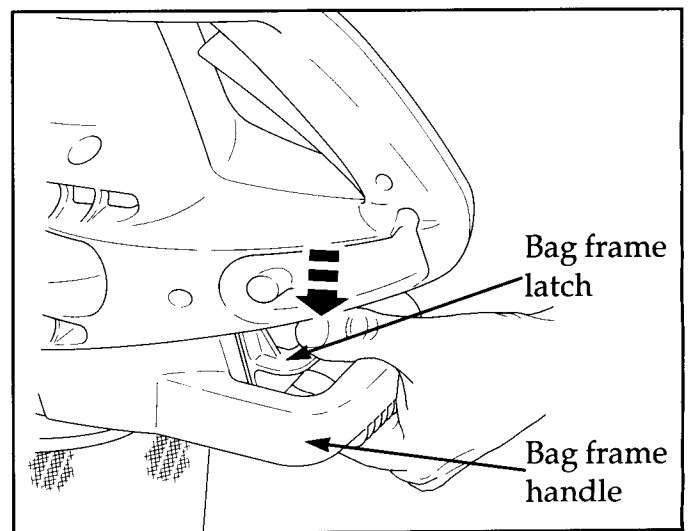


Figure 4

## C. HANDLE TO UNIT ASSEMBLY

1. With the unit on the ground place the handle bolt in the location slot and slide into place. Figure 5.
2. Repeat on the other side.
3. Locate handle onto handle bolts on each side of the product. Figure 6.
4. Secure handle by turning handle knobs clockwise. Figure 6.
5. The handle can be adjusted by turning handle knobs 3 full turns anti-clockwise, moving handle to position required and securing handle by turning handle knobs clockwise. Figure 6.

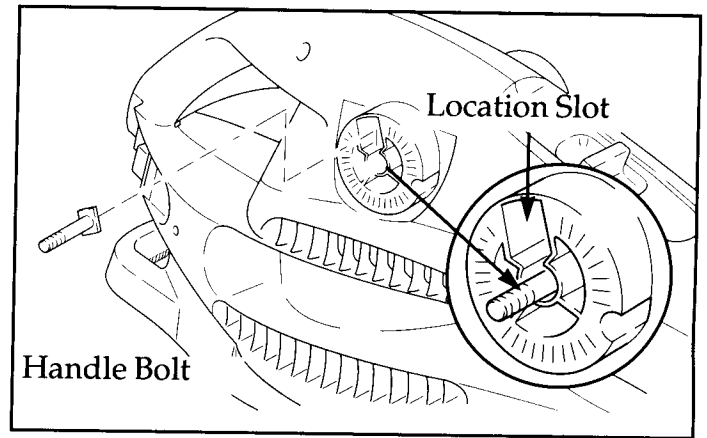


Figure 5

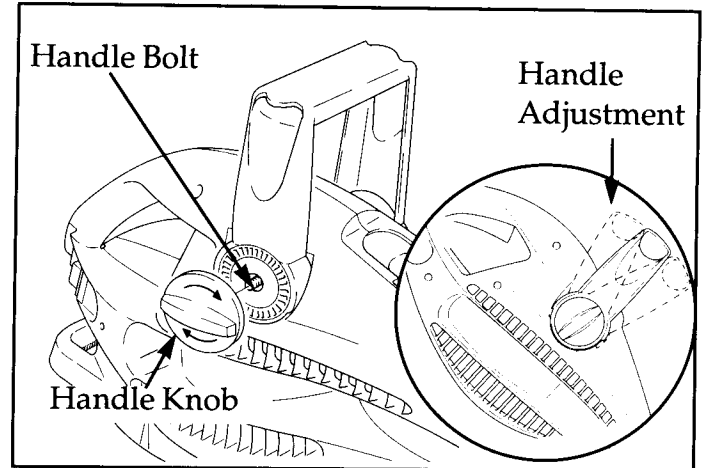


Figure 6

## D. SHOULDER STRAP

1. With the unit on the ground, thread the shoulder strap through the slot in the handle. Figure 7.
2. Thread strap through the buckle. Figure 8.
3. Hold the unit in an upright position, resting the bottom of the nozzle on the ground. Figure 9.
4. Place the shoulder strap over your shoulder and head. Adjust the shoulder strap to ensure the shoulder pad is in the most comfortable position. The handle should be positioned on your front side just below your waist. Figure 9

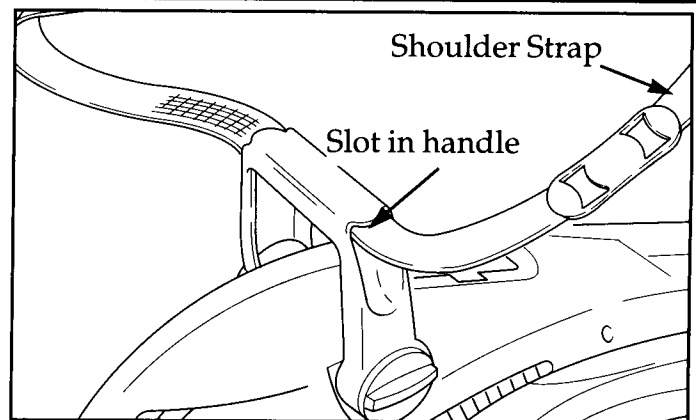


Figure 7

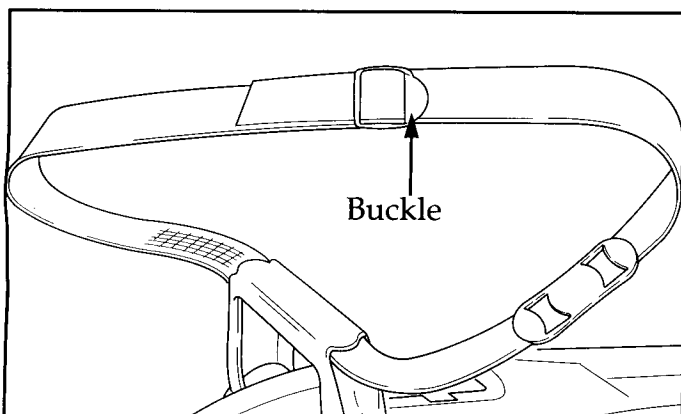


Figure 8

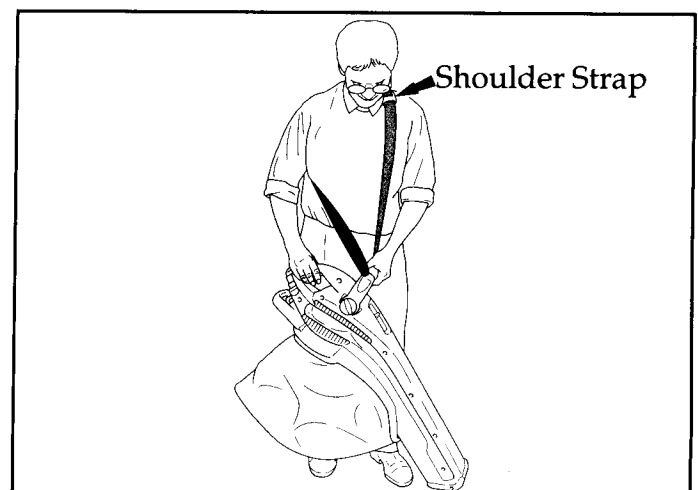


Figure 9

## E. 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 to 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 10 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. Form loop in extension cord and push loop through the slot. Figure 11.
  - b. To secure, position loop over the hook and pull the cord back through the slot. Figure 12.
  - c. Tie the extension cord to the pigtail plug on the unit. Figure 13.
  - d. Connect the extension cord receptacle to the pigtail plug. Figure 13.

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 10

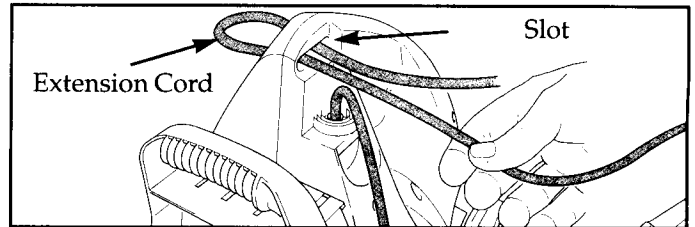


Figure 11

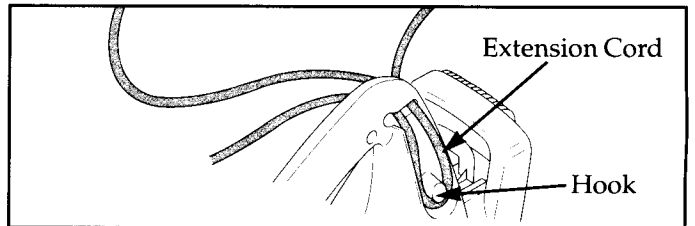


Figure 12

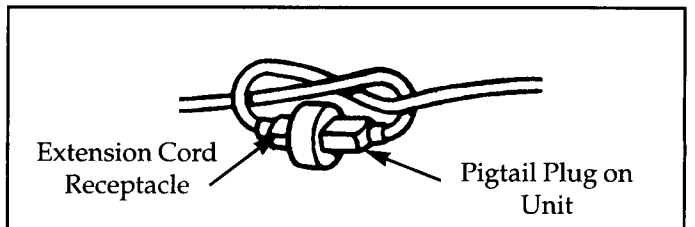


Figure 13

## F. 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 material 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 cones, 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 16. 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.** Always install the vacuum bag.

## B. BLOWING - VACUUMING - JET VACUUM



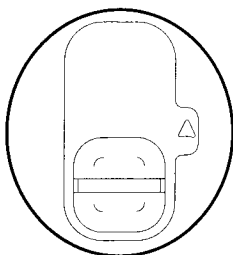
### WARNING

Never run the unit without the proper equipment attached. Always install the vacuum bag.

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

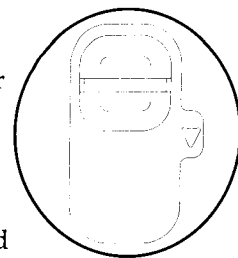
- **BLOWER**

Slide the lever to position 1. Figure 14. In this position, your unit will blow debris from lawns, patios, sidewalks, driveways, paths, bushes, borders, etc.



- **VACUUM**

Slide the lever to position 2. Figure 14. 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**

Slide the lever to position 3. Figure 14. 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 towards the ground. This jet of air loosens stubborn material, allowing it to be picked up by the vacuum.

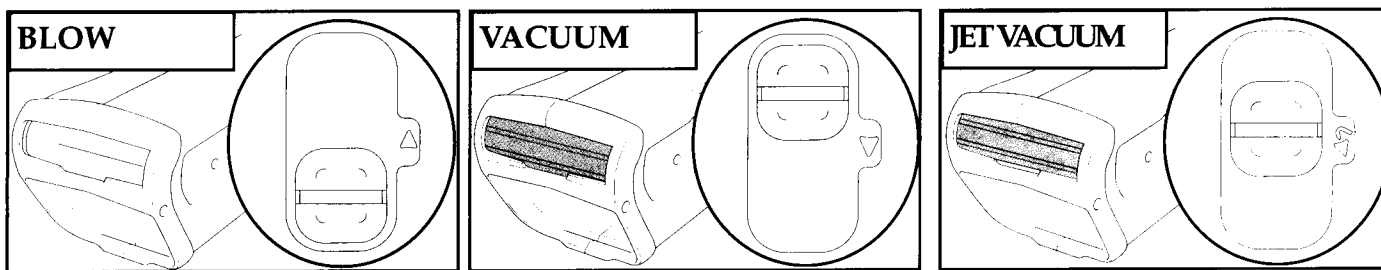
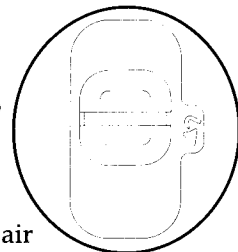


Figure 14

## C. EMPTYING THE VACUUM BAG



### WARNING

Always stop the unit before emptying the vacuum bag.



### WARNING

Do not place your hands in the vacuum bag when emptying. Sharp debris could result in injury.

1. 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 4.
2. Empty debris bag holding the bag frame handle at the top of the bag and the fabric handle at the bottom of the bag. Figure 15.
3. Flip the debris fin on the vacuum bag back into the horizontal position. Figure 2.
4. Re-fit the debris bag by holding the unit in an upright position. Figure 3.
5. Catch the spindle portion of the bag frame in the frame hook on the underside of housing. Figure 2.
6. Lift the bag frame handle until the bag frame latch snaps into place on the bottom of the unit. Figure 3.

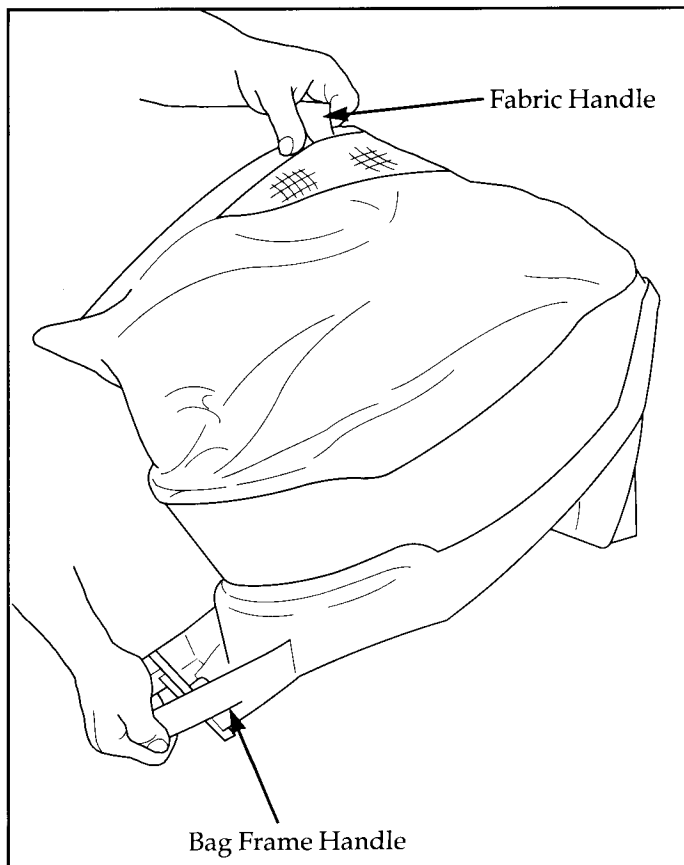


Figure 15

## D. 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.

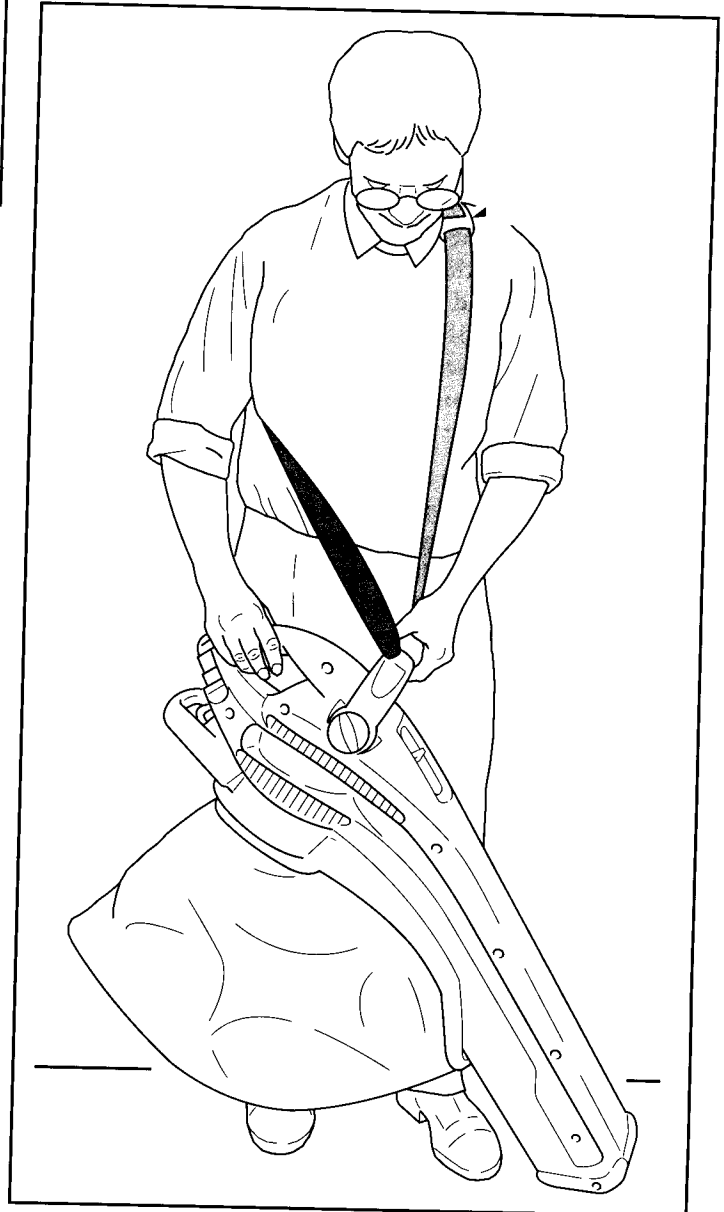


Figure 16

# 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 17. 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 damaged 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 17.
4. **Remove debris from the air intake vents** using a soft brush. Figure 17.
5. **Remove debris from collection chute** using a soft brush. Figure 17.
6. **Remove debris from the debris fin** with a suitable tool. Figure 17.
7. **Always empty the vacuum bag after use.**
8. **If the unit vibrates abnormally, stop the motor immediately.** Abnormal vibrations usually indicate a mechanical problem and continued operation could lead to injury to the operator or others and/or damage to the unit.
9. **Do not attempt to repair the unit.** Repairs must be performed by your Authorized Service Dealer.

10. **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.
11. **Never immerse** any part of unit into any liquid.
12. **The unit is equipped with self-lubricating bearings.** Periodic relubrication is not required.
13. **Unplug the unit from power source** when servicing, cleaning, or storing the unit.
14. **Do not plug extension cord** into any receptacle other than a normal 120 volt household outlet.
15. **Do not incinerate or expose 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 liquids.

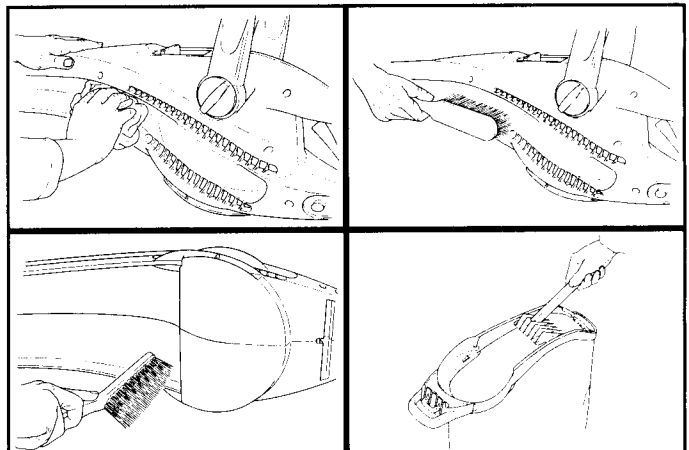


Figure 17

## 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, air vent, collection chute and debris fin; 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 oil (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.