



## BLOWER VAC INSTRUCTION MANUAL

Model Number BV3100

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### PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON:

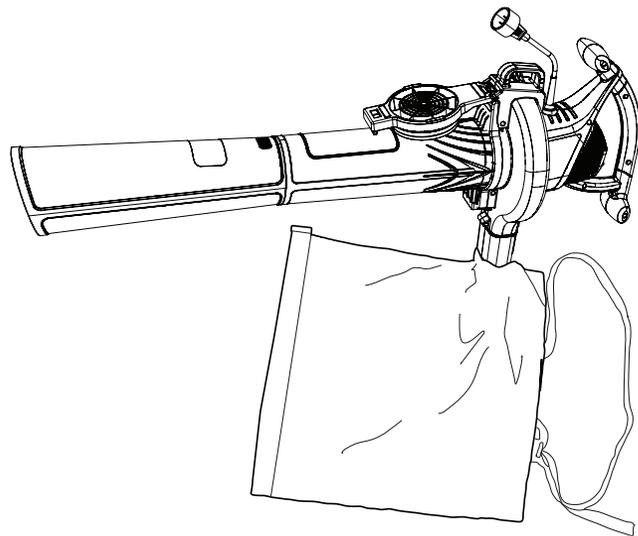
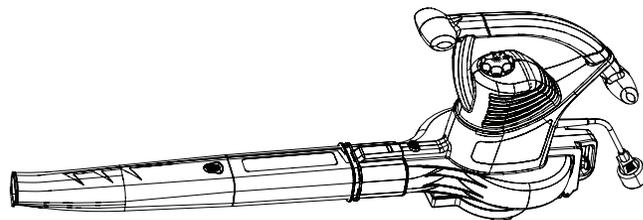
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If you can't find the answer or do not have access to the internet, call 1-800-544-6986 from 8 a.m. to 5 p.m. EST Mon. - Fri to speak with an agent.

Please have the catalog number available when you call.

**SAVE THIS MANUAL FOR FUTURE REFERENCE.  
VEA EL ESPAÑOL EN LA CONTRAPORTADA.  
POUR LE FRANÇAIS, VOIR LA COUVERTURE ARRIÈRE.**

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA. ADVERTENCIA: LEÁSE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.



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### SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

**⚠ DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**⚠ WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**NOTICE:** Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

## IMPORTANT SAFETY WARNINGS & INSTRUCTIONS

### ⚠ **WARNING: TO REDUCE RISK OF INJURY:**

- Before any use, be sure everyone using this unit reads and understands all safety instructions and other information contained in this manual.
- Save these instructions and review frequently prior to use and in instructing others.
- Do not point unit discharge at self or bystanders.
- Keep long hair and loose clothing away from openings and moving parts.

**⚠ WARNING:** When using an electric tool, basic safety precautions should always be followed to reduce risk of fire, electric shock, and personal injury, including the following.

**⚠ WARNING:** Some dust created by this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- compounds in fertilizers
- compounds in insecticides, herbicides and pesticides
- arsenic and chromium from chemically treated lumber

To reduce your exposure to these chemicals, wear approved safety equipment such as dust masks that are specially designed to filter out microscopic particles.

### **READ ALL AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING.**

## GENERAL SAFETY WARNINGS AND INSTRUCTIONS FOR ALL TOOLS

### ⚠ **WARNING: Read all safety warnings and all instructions.**

*Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

- **READ** and follow all instructions.
- **DO NOT** place inlet or outlet of vacuum near eyes or ears when operating.
- **THIS APPLIANCE IS PROVIDED WITH DOUBLE INSULATION.** Use only identical replacement parts. See instructions for servicing of double insulated appliances.

- **STORE IDLE TOOLS.** When not in use, the unit should be stored in a dry, high or locked-up place - out of reach of children.
  - **DON'T OVERREACH.** Keep proper footing and balance at all times.
  - **DO NOT** pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
  - **MAINTAIN TOOL WITH CARE.** Keep fan area clean for best and safest performance. Follow instructions for proper maintenance.
  - **DO NOT** attempt to repair the blower/vac. To assure product safety and reliability, repairs, maintenance, and adjustments should be performed by Black & Decker service centers or authorized service stations, always using Black & Decker replacement parts.
  - **DO NOT** operate blower/vac in a gaseous or explosive atmosphere. Motors in these tools normally spark, and the sparks might ignite fumes.
  - **DO NOT** use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
  - **USE EXTRA CARE** when cleaning on stairs.
  - **DO NOT** leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
  - **DO NOT** allow to be used as a toy. Close attention is necessary when used by or near children. Not recommended for use by children.
  - **DO NOT** attempt to clear clogs from tool without first unplugging it.
  - **USE ONLY** as described in this manual. Use only manufacturer's recommended attachments.
  - **DO NOT** use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
  - **DO NOT** pull or carry by cord, use cord as a handle, or pull cord around sharp edges or corners. Keep cord away from heated surfaces.
  - **DO NOT** unplug by pulling on cord. To unplug, grasp the plug, not the cord.
  - **DO NOT** put any objects into openings. Do not use with any opening blocked; keep free of dust, lint, hair and everything that may reduce air flow.
  - **KEEP** hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
  - **TURN OFF** all controls before unplugging.
  - **DO NOT** vacuum water, other liquids, or wet objects. Never immerse any part of the tool in liquid.
  - **DO NOT** handle plug or appliance with wet hands.
  - **KEEP CHILDREN, BYSTANDERS AND ANIMALS AWAY** from the work area a minimum of 30 feet (10 meters) when starting or operating the tool. Do not blow debris in directions of bystanders.
  - **INSPECT THE AREA** before using the tool. 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 tool is designed to pick up dry material such as leaves, grass, small twigs, and bits of paper. Do not vacuum stones, gravel, metal, broken glass, etc.
- ⚠ **WARNING: Shock Hazard.** To reduce the risk of electrical shock; do not expose to rain, do not use on wet surfaces. Store indoors.
- ⚠ **WARNING: Cut Hazard.** Turn off and unplug unit, then wait until fan stops or at least 10 seconds before removing the blower or vacuum tube assemblies.

## SAVE THESE INSTRUCTIONS

### Servicing of Double Insulated Appliances

Your Blower/Vac is double-insulated to give you added safety. In a double insulated appliance, two systems of insulation are provided instead of grounding. No grounding means is provided on a double insulated appliance, nor should a means for grounding be added to the appliance. Servicing a double insulated appliance requires extreme care and knowledge of the system and should be done only by qualified service personnel. 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 insulated or "double insulation". The symbol (square within a square) may also be marked on the appliance.

### ⚠ Safety Rules and Instructions: Extension Cords

Double insulated tools have 2-wire cords and can be used with 2-wire or 3-wire extension cords. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.) (C.S.A. in Canada). If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work. An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary.

To determine the minimum wire size required, refer to the chart:

Minimum Gauge for Cord Sets					
Volts	Total Length of Cord in Feet				
120V	0-25	26-50	51-100	101-150	
240V	0-50	51-100	101-200	201-300	
Ampere Rating					
More Than		Not more Than		American Wire Gauge	
0	-	6	18	16	16
6	-	10	18	16	14
10	-	12	16	16	14
12	-	16	14	12	Not Recommended

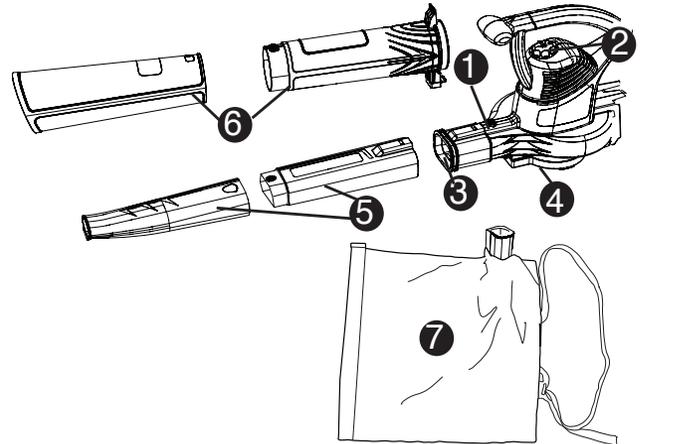
### ⚠ Safety Rules and Instructions: Polarized Plug

To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This equipment must be used with a suitable polarized 2 wire or 3 wire extension cord. Polarized connections will fit together only one way. Make sure that the receptacle end of the extension cord has large and small blade slot widths. If the plug does not fit fully into the extension cord, reverse the plug. If it still does not fit, obtain a suitable extension cord. If the extension cord does not fit fully into the outlet, contact a qualified electrician to install the proper outlet. Do not change the tool plug or extension cord in any way.

The label on your tool may include the following symbols.

V .....	volts	A .....	amperes
Hz .....	hertz	W .....	watts
min .....	minutes	~ .....	alternating current
— — .....	direct current	n <sub>o</sub> .....	no load speed
□ .....	double insulated	⊕ .....	earthing terminal
⚠ .....	safety alert symbol	.../min .....	strokes per minute

## COMPONENTS



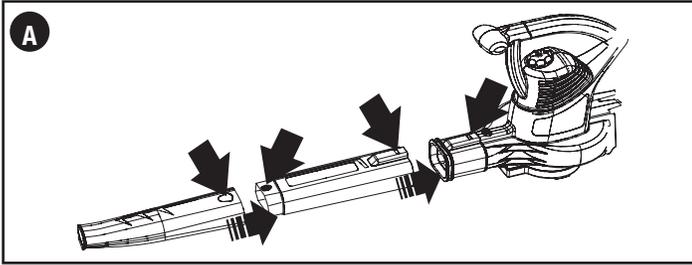
1. Blower Tube Release Button
2. On / Off Switch
3. Blower Opening
4. Fan Cover
5. Blower Tube (2 pieces)
6. Vacuum Tube (2 pieces)
7. Collection Bag

## BLOWER MODE ASSEMBLY

**NOTE:** Ensure the blower is switched off and disconnected from the power supply before attaching or removing the blower tubes. The tube assembly must be assembled to the housing before use.

### TUBE ASSEMBLY (FIGURE A)

- To attach the two piece blower tubes to the blower, line up the tube with the blower housing as shown in **figure A**. Push the tube into the blower housing until the lock lever engages the lock hole in the tube.
- To remove the tube depress the lock button and slide the tube off the housing neck.

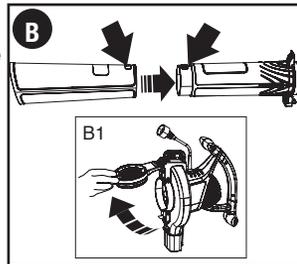


## VACUUM MODE ASSEMBLY

### VACUUM TUBE ASSEMBLY (FIGURES B, C, D)

**NOTE:** Ensure the vacuum is switched off and disconnected from the power supply before attaching or removing the vacuum tube. The vacuum tube and collection bag must be assembled to the housing before use. The vacuum tubes must be assembled together before use.

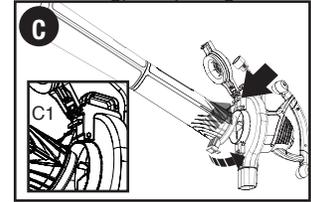
- Align the notches and the tabs on the two tube pieces. (**figure B**)
- Push the lower tube firmly into the upper tube, until the tabs click into place. (Never operate apart).



- Unlatch the fan cover from the bottom of the vacuum housing by pressing the release tab (located near the front of the vacuum housing) and pulling the cover open like a lid (**figure B1**).

**NOTE:** This interlock will disconnect the electric circuit automatically and the unit will not operate.

- Attach the vacuum tube assembly to the fan inlet on the vacuum housing (**figure C**), insert the vacuum tube support tab into the assembly slot (**figure C1**) on the blower housing.



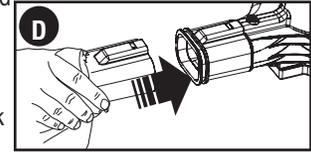
- Push the lock button to lock the vacuum tube in place.

**NOTE:** This interlock will connect the electric circuit automatically and the unit will operate.

### COLLECTION BAG ASSEMBLY (FIGURE D)

**NOTE:** Ensure the vacuum is switched off and disconnected from the power supply before attaching or removing the collection bag.

- Remove blower tube if attached.
- Push the collection bag on to the blower housing until the lock lever engages the lock hole as shown in **figure D**.



## OPERATION

**ALWAYS WEAR SAFETY GLASSES. WEAR A FILTER MASK IF THE OPERATION IS DUSTY. USE OF RUBBER GLOVES AND SUBSTANTIAL FOOTWEAR IS RECOMMENDED WHEN WORKING OUTDOORS. FOR HOUSEHOLD USE ONLY.**

**⚠ WARNING: CUT HAZARD.** When turning the tool off for tube installation or any other reason, wait 10 seconds for the fan to stop rotating before disassembly.

- Do not use in vacuum mode without the vacuum tubes and collection bag in place.
- Always switch off and remove the plug from the electrical supply when:
- Changing from blower to vacuum.

- The power supply cord has become damaged or entangled.
- You leave blower/vac unattended.
- Clearing a blockage.
- Checking, adjusting, cleaning or working on blower/vac.

**Use blower/vac only in daylight or good artificial light.**

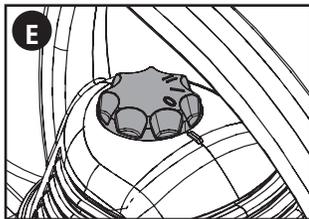
### SWITCHING ON AND OFF (FIGURE E)

**⚠ WARNING: USE BOTH HANDS TO GRIP THE PRODUCT FIRMLY WHEN SWITCHING ON.**

**⚠ WARNING: The tool will continue to run for approximately 5 seconds after it has been switched off.** Use both hands to grip the tool and let the motor come to a complete stop before setting the tool down.

Your blower vac is fitted with a two speed switch located on the top of the power head below the handle.

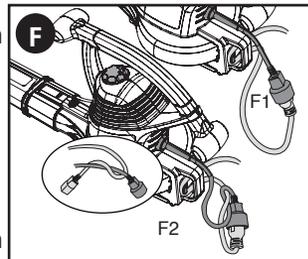
- To use in low speed, rotate on/off switch (2) clockwise to Position “I”.
- To use in high speed, rotate on/off switch (2) clockwise to Position “II”.
- To turn tool OFF, rotate on/off switch (2) counterclockwise to the off position “0”.



### EXTENSION CORD RETAINER (FIGURE F)

A cord retainer is incorporated into the rear of the power head. It can be used in two different ways:

- To use the cord retainer as shown in figure F1, insert the extension cord into the cord retainer housing from the side. Loop the extension cord around the retainer so it rests in the cord retainer. Then plug the cord from the power head into the extension cord.
- To use the cord retainer as shown in figure F2, loop the extension cord over the power head cord and plug the two ends into each other. Next, insert the extension cord into the cord retainer housing from the side. Loop the extension cord around the retainer so it rests in the cord retainer.

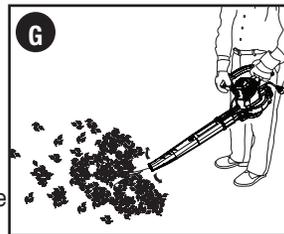


## BLOWER OPERATION

**⚠ CAUTION:** Always wear safety glasses. Wear a filter mask if the operation is dusty. Use of gloves, long pants and substantial footwear is recommended. Keep long hair and loose clothing away from openings and moving parts. **THIS BLOWER IS FOR HOUSEHOLD USE ONLY.**

**NOTE:** Ensure the blower is switched off and disconnected from the power supply before attaching or removing the blower tubes. The blower tube must be assembled to the housing before use.

- Hold the blower with both hands as shown in figure G and sweep from side to side with the nozzle several inches above the surface. Slowly advance keeping the accumulated pile of debris in front of you.



## VACUUM OPERATION

**NOTE:** Ensure the vacuum is switched off and disconnected from the power supply before attaching or removing the vacuum tube. The vacuum tube and collection bag must be assembled to the housing before use in vacuum mode.

- Position the vacuum tube slightly above the debris/leaves. Turn the unit on, then using a side to side sweeping motion the debris/leaves will be sucked up the tube, mulched and deposited into the collection bag (figure H) .



**⚠ CAUTION: NEVER REMOVE THE COLLECTION BAG WITHOUT FIRST TURNING OFF AND UNPLUGGING THE VACUUM.**

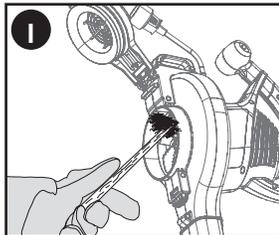
As the bag fills the power of the suction will decrease. To empty collection bag, switch off the vacuum and disconnect tool from the power supply. Remove the collection bag from the power head, unzip the collection bag to empty. Re-assemble before continuing to operate.

### WHAT TO DO IF THE UNIT JAMS: (FIGURE I)

**⚠ CAUTION: TURN OFF UNIT AND DISCONNECT TOOL FROM POWER SUPPLY.**

If the unit motor stops, the fan has become jammed. If this happens, turn the unit off and disconnect from power supply. Remove the bag and vacuum tube. Remove the jamming material using a small wooden stick. Do not use a metal implement or anything, which may damage the fan or scratch the plastic. Ensure the fan will turn by hand before reassembling the unit.

If the unit stops picking up debris or the performance substantially reduces it may have become clogged. Switch the unit off and disconnect from



power supply. Remove the vacuum tube and look down the tube to ensure no debris is blocking it. If necessary remove debris with a small wooden stick. Do not use a metal implement or anything, which may scratch or damage the tube. Remove the bag. If the bag is full, empty the bag. If necessary remove any debris from around the fan or unit outlet using a small wooden stick. Do not use a metal implement or anything which may damage the fan or scratch the plastic. Ensure the fan will turn by hand before reassembling the unit.

## MAINTENANCE

### CLEANING AND STORAGE

**⚠ WARNING: SHOCK HAZARD. DO NOT POUR OR SPRAY WATER ON THE TOOL IN AN ATTEMPT TO CLEAN.**

**⚠ CAUTION: TURN OFF UNIT AND DISCONNECT TOOL FROM POWER SUPPLY.**

Use only mild soap and a damp cloth to clean the tool. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid. Clean out any clippings which may have accumulated in the Blower/Vac. When used properly with dry leaves the fan chamber of your Blower/Vac should remain clean. If damp earth and debris are ingested some of the particles may build up on the inside of the fan chamber. If this happens the performance of the unit will decrease. This area can be cleaned out using a wooden stick as shown in figure I after disconnecting from the power source. Your Blower/Vac should be stored in a dry place.

Do not store the tool on or adjacent to fertilizers or chemicals. Such storage can cause rapid corrosion of the metal parts.

## ACCESSORIES

**⚠ WARNING:** DO NOT use this product with any type of accessory or attachment. Such usage might be hazardous.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This Class B digital apparatus complies with Canadian ICES-003.

## TROUBLESHOOTING

Problem	Possible Cause	Possible Solution
<ul style="list-style-type: none"> <li>• Unit will not start.</li> </ul>	<ul style="list-style-type: none"> <li>• Fan cover or vac tube not installed properly</li> <li>• Cord not plugged in.</li> <li>• Circuit fuse is blown.</li> </ul>	<ul style="list-style-type: none"> <li>• Install fan cover for blower mode or vac tube for vac mode.</li> <li>• Plug tool into a working outlet.</li> <li>• Replace circuit fuse. (If the product repeatedly causes the circuit fuse to blow, discontinue use immediately and have it serviced at a Black &amp; Decker service center or authorized servicer.</li> <li>• Replace circuit breaker. (If the product repeatedly causes the circuit breaker to trip, discontinue use immediately and have it serviced at a Black &amp; Decker service center or authorized servicer.</li> </ul>
	<ul style="list-style-type: none"> <li>• Circuit breaker is tripped.</li> </ul>	<ul style="list-style-type: none"> <li>• Have cord or switch replaced at a Black &amp; Decker service center or authorized servicer.</li> </ul>
	<ul style="list-style-type: none"> <li>• Cord or switch is damaged.</li> </ul>	
<ul style="list-style-type: none"> <li>• Unit jammed</li> </ul>	<ul style="list-style-type: none"> <li>• Debris blocking fan.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove vac tube and inspect inlet/outlet for clogs. Refer to "Cleaning and Storage Section - Maintenance"</li> </ul>

For assistance with your product, visit our website [www.blackanddecker.com](http://www.blackanddecker.com) for the location of the service center nearest you or call the BLACK & DECKER help line at **1-800-544-6986**.

## SERVICE INFORMATION

All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the Black & Decker location nearest you. To find your local service location, refer to the yellow page directory under "Tools—Electric" or call: **1-800-544-6986** or visit [www.blackanddecker.com](http://www.blackanddecker.com).

## FULL TWO-YEAR HOME USE WARRANTY

Black & Decker (U.S.) Inc. warrants this product for two years against any defects in material or workmanship. The defective product will be replaced or repaired at no charge in either of two ways.

The first is to return the product to the retailer from whom it was purchased (provided that the store is a participating retailer). Returns should be made within the time period of the retailer's policy for exchanges (usually 30 to 90 days after the sale). Proof of purchase may be required. Please check with the retailer for their specific return policy regarding returns that are beyond the time set for exchanges.

The second option is to take or send the product (prepaid) to a Black & Decker owned or authorized Service Center for repair or replacement at our option. Proof of purchase may be required. Black & Decker owned and authorized Service Centers are listed under "Tools-Electric" in the yellow pages of the phone directory. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state or province to province. Should you have any questions, contact the manager of your nearest Black & Decker Service Center. This product is not intended for commercial use.

**LATIN AMERICA:** This warranty does not apply to products sold in Latin America. For products sold in Latin America, check country specific warranty information contained in the packaging, call the local company or see the website for warranty information.

**FREE WARNING LABEL REPLACEMENT:** If your warning labels become illegible or are missing, call **1-800-544-6986** for a free replacement.



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Black & Decker (U.S.) Inc.,  
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