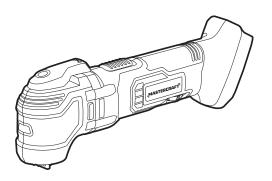


# OSCILLATING MULTI-TOOL WITH 14 ACCESSORIES

054-7966-2



### **IMPORTANT:**

Read and understand this instruction manual thoroughly before using the product.

INSTRUCTION MANUAL



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### NOTE:

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



### **SAVE THESE INSTRUCTIONS**

 This manual contains important safety and operating instructions. Read all instructions and follow them with use of this product.

### model no. 054-7966-2 | contact us 1-800-689-9928

### **TECHNICAL SPECIFICATIONS**

Rated Voltage	20V d.c.	
Maximum Oscillation Rate	0-16,000 OPM (no load)	
Oscillation Angle	±1.8°	

<sup>\*</sup>Maximum battery voltage without workload; with workload nominal voltage is 18V.

### **SAFETY GUIDELINES:**



### WARNING!

Safety symbols in this Instruction Manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitutes for proper accident prevention measures.



### **WARNING!**

This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

### **KNOW YOUR TOOL**

To operate this tool, carefully read this Instruction Manual and all labels affixed to the multi-tool before using. Keep this instruction manual available for future reference.

#### **IMPORTANT**

This tool should only be serviced by a qualified service technician. For more information, call the toll free helpline at 1-800-689-9928.

### READ ALL INSTRUCTIONS THOROUGHLY.

#### **SAVE THESE INSTRUCTIONS.**

### **GENERAL POWER TOOL SAFETY WARNINGS**



### **WARNING!**

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

### SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### **WORK AREA SAFETY**

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

 Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### **ELECTRICAL SAFETY**

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.
   Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

### PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.
   Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a
  key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dustrelated hazards.

Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

### **POWER TOOL USE AND CARE**

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or remove the battery pack. if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

### **BATTERY TOOL USE AND CARE**

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a **connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact, If contact accidentally occurs, flush with water, If liquid contacts eves, additionally seek **medical help.** Liquid ejected from the battery may cause irritation or burns.

- Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130°C (265°F) may cause explosion.
- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

### **SERVICE**

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

### SAFETY WARNINGS FOR MULTI-TOOL

- Hold the power tool by insulated gripping surfaces, when performing an operation
  where the cutting tool may contact hidden wiring. Cutting tool contacting a "live" wire may
  make exposed metal parts of the tool "live" and could give the operator an electric shock.
- A suitable breathing respirator must be worn while sanding lead paint, some woods and metal to avoid breathing the harmful/toxic dust or air.
- Always wear safety goggles and a dust mask when sanding, especially when sanding over-head.
- The machine is not suitable for wet sanding.
- Do not use sanding paper larger than needed. Extra paper extending beyond the sanding pad can cause serious lacerations.
- Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more securely than by hand.
- Keep hands away from the cutting range. Do not reach under the workpiece. Contact with the blade can lead to injuries.
- Keep your hands away from the motor-housing vents. Hot air comes from the vents during
  operation.

### ADDITIONAL SAFETY GUIDELINES FOR CORDLESS MULTI-TOOL

 The label on your tool may include the following symbols. The symbols and their definitions are as follows:

VVolts
A Amperes
Hz Hertz
W Watts
minMinutes
/min ormin <sup>-1</sup> Revolutions or reciprocations per minute
$\sim$ Alternating current
===or d.cDirect current
n <sub>0</sub> No-load speed
Class II Construction
OPMOscillations per minute
Grounding terminal
WARNING-To reduce the risk of injury, user must read instruction manual.
WARNING-To reduce the risk of injury always wear eye protection.



### **WARNING!**

To reduce the risk of electric shock or damage to the charger and battery, use only the Mastercraft abd batteries and chargers listed.

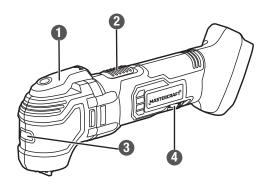
BATTERY PACK	CHARGER
	010110211
054-3124-0, 054-7553-4, 054-7557-6, 054-2434-8	054-3126-6, 054-7559-2

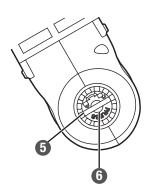
- For best results, your battery tool should be stored and used in a location where the temperature is more than 5°C (41°F) but less than 40°C (104°F). Do not store outside or in vehicles.
- Protect your hearing. Wear appropriate personal hearing protection during use. Under some
  conditions and durations of use, noise from this product may contribute to hearing loss.

### **PACKAGE CONTENTS:**

Cordless multi-tool, 9 pcs sanding paper ( 60 grit x 3, 120 grit x 3, 180 grit x 3), 1 pc bi-metal plunge-cut blade, 1 pc HCS (high carbon steel) semi-circle blade, 1 pc scraper, 1 pc carbide grout-removal blade, 1 pc sanding pad, and instruction manual

### **KEY PARTS DIAGRAM**





No.	Description
1	Quick-release lever
2	On/off switch
3	LED worklight

No.	Description
4	Variable-speed dial
5	Accessory plate
6	Flange bolt

Before attempting to use this tool, become familiar with all of its operating features and safety requirements. For optimum performance and safety, read the following operating instructions carefully before using.



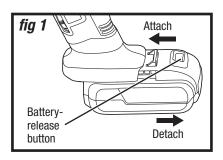
### WARNING!

- Remove the cordless multi-tool from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.
- If any part of the multi-tool is missing or damaged, do not attach the battery pack to the tool or use the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.
- Do not allow familiarity with the cordless multi-tool to cause a lack of alertness. A fraction of a second of carelessness is
  enough to cause severe injury.

### **OPERATING INSTRUCTIONS**

### TO ATTACH BATTERY PACK (fig 1)

- 1. Make sure that the multi-tool is turned off.
- Align the raised rib on the battery pack with the groove on the bottom of the multi-tool, and then attach the battery pack to the multi-tool as shown.
- Make sure that the latch on the battery pack snaps into place and that the battery pack is secured to the multi-tool before beginning operation.

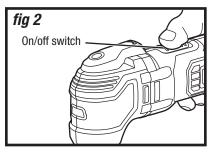


### TO DETACH THE BATTERY PACK (fig 1)

- 1. Make sure that the multi-tool is turned off.
- 2. Depress the battery-release button located on the front of the battery pack to release the battery pack.
- 3. Pull the battery pack forward to remove it from the tool.

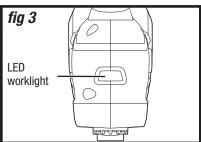
### **ON/OFF SWITCH (fig 2)**

- 1. To turn the tool on, push the on/off switch forward.
- 2. To turn the tool off, pull the on/off switch backward.



### LED WORKLIGHT (fig 3)

The LED worklight, located on the front of the multi-tool, provides additional light on the surface of the workpiece for operation in lower-light areas. The LED worklight will illuminate when the switch is pushed forward. The LED worklight will turn off when the switch is pulled backward.

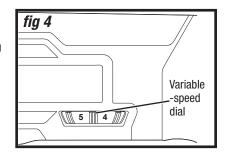


**NOTICE:** When placing a battery pack on the tool, be sure that the raised rib on the battery pack aligns with the groove on the cordless multi-tool and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.

### **VARIABLE-SPEED DIAL (fig 4)**

The variable-speed feature on this multi-tool allows you to match the proper speed to the material being cut, sawed, scraped, or sanded, thereby enhancing the overall performance of your tool and helping to save the application tool from undue wear.

The variable-speed dial is used to adjust the speed of the application tool. Turn the dial to increase or decrease the speed of the tool. Position "0" selects the slowest speed; position "5" selects the fastest speed. Adjust the speed for optimum performance.



### **SELECTING THE ACCESSORY**

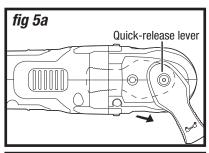
Accessory		Material	Application
	Sanding pad & sanding paper	Bare or painted wood, plaster, and other surfaces, depending on sandpaper grit	
	HCS semi- circle blade	Wood, plastic, drywall, soft metals	
	Carbide grout- removal blade	Tile or tile crevice, grout, plaster, porous concrete, and masonry	
	Scraper	Paint & varnish, bonded carpet, soft adhesives, vinyl flooring, wood, and other floor coverings	
	Bi-metal plunge- cut blade	Wood, plastic, drywall, soft metals, and other materials	

### INSTALL THE OPEN-LOOP ACCESSORY (fig 5)

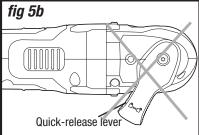
- 1. Make sure that the on/off switch is in the OFF position and remove the battery pack.
- 2. Turn the quick-release lever counterclockwise until you hear a "click" sound (fig 5a). If the quick-release lever is not turned to the correct position, it may kick back to the locked position leaving no space to install the open-loop accessory onto the accessory plate (fig 5b).
- 3. Ensure that the accessory plate and the drive shaft are clean. Align the grooves on the suitable accessory with the ribs on the accessory plate. Put the accessory onto the accessory plate (fig 5c).
  - The blade should never be attached so that it is facing backwards, as operation in this position may cause serious injury (fig 5d).
- 4. Turn the quick-release lever back to lock the drive shaft. Make sure that the flange bolt is in the locked position.

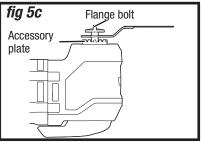
### REMOVE THE OPEN-LOOP ACCESSORY

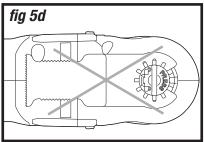
- 1. Make sure that the on/off switch is in the OFF position and remove the battery pack.
- 2. Turn the guick-release lever counterclockwise until you hear a "click" sound.
- 3. Remove the accessory from the tool.



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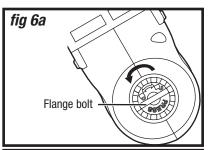


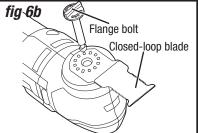
### INSTALL THE CLOSED-LOOP ACCESSORY (fig 6)

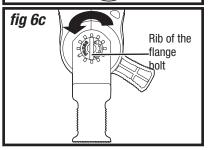
- 1. Make sure that the on/off switch is in the OFF position and remove the battery pack.
- Turn the quick-release lever counterclockwise until you hear a "click" sound (fig 5a). Press and turn the flange bolt 90° clockwise and pull out to remove it (fig 6a).
- 3. Ensure that the accessory plate and the drive shaft are clean.
- Align the grooves on the suitable accessory with the ribs on the accessory plate. Put the accessory onto the accessory plate (fig 6b).
- Insert the flange bolt into the hole and make the rib of flange bolt parallel to the length of the multi-tool (fig 6c). Press and turn the flange bolt counterclockwise for 90° to lock the flange bolt.
- 6. Turn the quick-release lever back to lock the accessory.

### REMOVE THE CLOSED-LOOP ACCESSORY (fig 6)

- Make sure that the on/off switch is in the OFF position and remove the battery pack.
- Turn the quick-release lever counterclockwise until you hear a "click" sound. Press and turn the flange bolt 90° clockwise and pull out to remove it.
- 3. Remove the accessory from the tool.







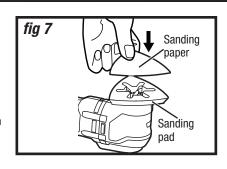


#### WARNING!

- Check that the accessories are correctly attached. Use only original Mastercraft® accessories and other approved open-loop
  accessories (e.g., Skil®, Kobalt®, Bosch®, Dewalt®, etc.). Incorrectly or insecurely fastened accessories can come loose
  during operation and cause a hazard.
- Always wear protective gloves when changing accessories. The edges of the accessories are sharp and can become very hot after working.
- Check that the accessories are correctly attached. Use only original Mastercraft® accessories and other approved closed-loop accessories (e.g., Skil®, Bosch®, etc.). Incorrectly or insecurely fastened accessories can come loose during operation and cause a hazard.

### **INSTALL THE SANDING PAPER (fig 7)**

- 1. Follow the directions for attaching the sanding pad to the multi-tool.
- Align the sanding paper with the sanding pad and use your hand to press it firmly onto the sanding pad.
- Press the sanding paper firmly against a smooth surface for a short period and then turn on the tool. The burr will form a non-slip bond with the outer edge of the sanding paper felt. This will avoid premature wear.



If one point has become worn, pull off the sanding paper, turn it 120° and place it on the sanding pad again.

### **CUTTING**

Saw blades are ideal for making precise cuts in tight areas, close to edges or flush to a surface.

- 1. Select a medium to high speed for making the initial plunge.
- 2. Start at medium speed for increased control.
- 3. After making your initial cut, you may increase speed for faster cutting.

#### SCRAPING

The tool is suitable for scraping and removing surface coverings.

- For scraping, select a high-speed setting.
- To remove surface coverings, place the scraping blade vertically on the workpiece. Turn the tool on and cut down through the covering.
- Place the tool at a flat angle (not more than 20°) and apply a light, forward pressure to remove the covering.

#### SANDING

Sanding accessories are suitable for the dry sanding of wood, metal, surfaces, corners and edges, and hard to reach areas.

- 1. Work with the complete surface of the sanding pad, not with only the tip.
- Sand with a continuous motion and light pressure. Do not apply excessive pressure. Excessive pressure will result in poor handling, vibration, unwanted sanding marks and premature wear on the sanding sheet.

The following suggestions may be used as a general guide for abrasive selection, but the best results will be obtained by sanding a test sample of the workpiece first.

Grit	Application
Coarse	For rough wood or metal sanding and rust or old finish removal
Medium	For general wood or metal sanding
Fine	For final finishing of wood, metal, plaster, and other surfaces

#### MAINTENANCE

The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air. Before each use:

- Inspect the cordless tool and the trigger switch for damage.
- · Check for damaged, missing, or worn parts.
- Check for loose screws, misalignment or binding of moving parts, or any other condition that may
  affect the operation.
- If abnormal vibration or noise occurs, turn the cordless tool off immediately, and have the problem corrected before further use.



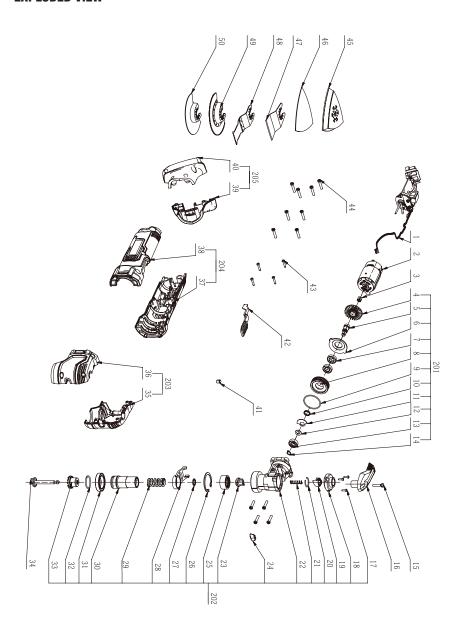
#### WARNING

- Do not allow brake fluids, gasoline, petroleum-based products, penetrating oil, etc., to come into contact
  with plastic parts. These substances contain chemicals that can damage, weaken, or destroy plastic.
- When servicing, use only identical replacement parts. The use of any other parts may create a hazard or
  cause damage to the product.
- Use only accessories that are recommended for this cordless multi-tool by the manufacturer. Accessories
  that may be suitable for one tool may become hazardous when used with another tool.
- To ensure safety and reliability, all repairs should be performed by a qualified service technician.

### **TROUBLESHOOTING**

Problem	Possible Causes	Solution	
The multi-tool does not work and the LED worklight is flashing.	The switch is in the "on" position when attaching the battery pack.	Turn off the multi-tool first and then restart the tool.	
	Battery is depleted.	Charge the battery pack.	
The multi-tool does not work.	Battery is overloaded.	Decrease the load on the tool and then restart the tool again.	
	Battery pack is not installed properly.	Confirm battery is locked and secured to the tool.	
	The battery is overheated.	Cool the battery and then restart the tool again.	
The motor is overheating.  Be sure the cooling vents are free of dust and obstacles.		Clean and clear vents. Do not cover with hand during operation.	
The flange bolt falls out from the tool.	The flange bolt is not correctly installed.	Open the quick-release lever, insert the flange bolt into the hole, lock the flange bolt and then turn the quick-release lever back to lock the accessory.  Refer to "INSTALL THE CLOSED-LOOP ACCESSORY" part for detailed information.	

If the problem remains unsolved after performing the checks described above, call the toll-free helpline at 1-800-689-9928.



No.	Part No.	Description	Į	No.	No. Part No.
1	2830549000	Electric Assembly		29	29 3660282000
2	2826032000	Motor Assy		30	30 3550773000
3	3125163000	Spring Connector		31	31 5700252000
4	3125160000	Fan		32	32 5660188000
5	3553036000	Eccentric Shaft		33	33 3550817000
6	3706980000	Bearing Clamping Plate		34	34 3550818000
7	5700012000	Ball Bearing		35	35 3322662000
3	3553281000	Bearing Support	36		3322663000
)	5690180000	0 ring	37		3322660000
10	3551802000	Bush	38		3322661000
11	3704682000	Counterweight	39		3130246000
12	3700352000	Washer	40		3130247000
13	5700205000	Ball Bearing	41		5700214000
14	5660144000	Circlips For Shaft	42		3126265000
15	5620450000	Pan Head Screw	43		5610241000
6	3129774000	Lever	44		5610248000
7	5620080000	Screw	45		2823580000
18	3129775000	Case Cover	46		3810485000
19	3420680000	Cam	47		3810549000
20	5660166000	C Ring	48		3810543000
21	3660313000	Spring	49		3810717000
22	3422270000	Drive Housing	50		3810552000
23	3420646000	Clamp Block	201		2826722000
24	3126886000	LED Cover	202		2825974000
25	5700310000	Needle Bearing	203		3900200000
26	5660234000	Circlip For Hole	204		3900202000
27	3680119000	Magnet Ring	205		3900201000
28	3420644000	Lever			

If any parts are missing or damaged, or if you have any questions, please call the toll-free helpline at 1-800-689-9928.

This Mastercraft product is quaranteed for a period of 3 years from the date of original retail **purchase** against defects in workmanship and materials, except for the following components:

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of 2 years from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: Accessories, which are guaranteed for a period of 1 year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

### These warranties are subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product that are expected to become inoperative or unusable after a reasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel. lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer):
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- q) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners: and
- this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

### Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

### Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from

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