Caution: Read all safety and operating instructions before using this equipment. This parts list MUST accompany the equipment at all times.
INTRODUCTION

Congratulations on your purchase of a MK-1503 Wet Stone Polisher. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-1503 should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-1503 safely and correctly. Please take the time to familiarize yourself with the MK-1503 by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your Grinder, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

<table>
<thead>
<tr>
<th>MODEL NUMBER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIAL NUMBER:</td>
</tr>
<tr>
<td>PURCHASE PLACE:</td>
</tr>
<tr>
<td>PURCHASE DATE:</td>
</tr>
</tbody>
</table>

WARRANTY: For your 90 day warranty to be effective, complete the online Product Registration as soon as possible. Visit www.mkdiamond.com/registration/
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Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life. Safety warnings and guidelines do not by themselves eliminate danger. They are not substitutes for proper accident prevention procedures and good judgement.

**SAFETY MESSAGES**

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol (⚠️) and one of three words: DANGER, WARNING, or CAUTION.

**DANGER** You WILL be KILLED or SERIOUSLY INJURED if you DO NOT follow directions.

**WARNING** You CAN be KILLED or SERIOUSLY INJURED if you DO NOT follow directions.

**CAUTION** You CAN be INJURED if you DO NOT follow directions. It may also be used to alert against unsafe practices.

**DAMAGE PREVENTION AND INFORMATION MESSAGES**

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the word NOTE, as in the example below.

**NOTE:** Equipment and/or property damage may result if these instructions are not followed.

**GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS**

In order to prevent injury, the following safety precautions and symbols should be followed at all times!

**ALWAYS** read this Owner’s Manual before operating the machine. DO NOT operate or service this equipment before reading this entire manual. Read and understand all warnings, instructions and controls on the machine. Know how to stop the equipment quickly in case of emergency. It is the operators responsibility to use this machine under safe working conditions and conform with federal, state and local codes or regulations pertaining to safety, air, pollution, noise etc...

**ALWAYS** keep the Blade and Belt Guards in place. DO NOT operate this machine with any guard or safety device removed. A Guard, or any damaged part should be repaired or replaced immediately.

**NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job. Non-slip foot wear is recommended.
PERSONAL PROTECTIVE EQUIPMENT

ALWAYS wear approved respiratory, head, ear and eye protection when operating this machine.

ACCIDENTAL STARTS!

Before starting the engine/motor, be sure the ON/OFF switch is in the OFF position to prevent accidental starting. Place the ON/OFF switch in the OFF position before performing any service operation. ALWAYS place the power ON/OFF switch in the OFF position when the machine is not in use.

ROTATING PARTS

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the motor with covers, shrouds, or guards, removed.

HOT PARTS!

Engine components can become extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running, or immediately after it is turned off. Never operate the engine with heat shields removed.

OVER SPEED

NEVER tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

ELECTRICAL SHOCK

NEVER touch electrical wires or components while the engine is running. Exposed, frayed or worn electrical wiring and plugs can be sources of electrical shock which could cause severe injury or burns. Do not touch the plug with wet hands.

ALWAYS avoid inhalation of and skin contact with silica dust and/or mist. Provide proper dust removal. Use dust-collection system when applicable.

NEVER operate the machine in an explosive atmosphere or near combustible materials. Sparks from the cutting-action of this machine can ignite flammable materials, liquids, gases or dust.

This equipment should not be operated by persons under 18 years of age.

KEEP CHILDREN AWAY

All visitors and children should be kept a safe distance from work area. Maintain a safe operating distance to other personnel.

MAKE THE WORKSHOP KID PROOF

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

DO NOT FORCE THE TOOL

A power tool will do a job better and safer operating at the rate for which it was designed. DO NOT force a tool or an attachment to do a job that it was not designed to do.
USE PROPER APPAREL

DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

SECURE WORK

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

DO NOT OVERREACH

Keep proper footing and balance at all times by not overreaching.

DISCONNECT TOOLS

Power tools should always be disconnected before servicing, adjusting or when changing accessories, such as blades, bits, cutters, and the like.

MAINTAIN TOOLS WITH CARE

Keep tools clean and maintained for the best and safest performance. Always follow maintenance instructions and examine the machine before use. If any abnormal vibrations or noises occurs, turn off machine immediately and have the problem corrected before further use.

REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

KEEP WORK AREA CLEAN

Cluttered work areas and benches invite accidents. Keep area around machine clear of obstructions which could cause persons to fall.

DO NOT USE IN DANGEROUS PLACES

DO NOT operate equipment in dangerous or hazardous environments. DO NOT use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

USE RECOMMENDED ACCESSORIES

Consult the owner’s manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury. Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.

ALWAYS ensure that the machine is on level ground before using.

NEVER STAND ON THE TOOL

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

TRANSPORT

When loading or unloading the machine, use caution. Remove the blade prior to hoisting, loading and transporting the machine.
CHECK FOR DAMAGED PARTS
Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced. Always check the machine for loose bolts before starting.

DIRECTION OF ROTATION
A blade or cutter should always be installed so that rotation is in the direction of the arrow imprinted on the side of the blade or cutter. It should correspond with the rotational direction of the motor. Always feed work into a blade against the direction of rotation.

NEVER LEAVE A TOOL UNATTENDED
TURN POWER OFF - Do not leave a tool until it comes to a complete stop. ALWAYS turn a power tool OFF when leaving the work area, or, when a cut is finished.

NEVER disconnect any "emergency or safety devices". These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm, or even death! Disconnection of any of these devices will void all warranties. Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.

NEVER use this machine with any cutter designed for woodworking.

NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.

NEVER operate this equipment under the influence of drugs or alcohol.

On belt driven equipment, overtensioning of belts will result in premature crank and/or bearing failure.

Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.

ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.

DO NOT lend or rent this equipment without including the Owner's Manual and the Engine/Motor Manufacturer's Manual.

Check the chemical properties of the material to be cut/grinded and follow all EPA/OSHA Regulations.
SILICA DUST WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow respiratory precautions.

Use appropriate NIOSH-approved respiratory protection where dust hazard may occur. Paper masks or surgical masks without a NIOSH approval number are not recommended because they do little to protect the worker. For more information about respirator programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at:
http://www.cdc.gov/niosh/topics/respirators

Observe OSHA regulations for respirator use (29 C.F.R.§1910.134).

CALIFORNIA PROPOSITION 65 MESSAGE

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

• Lead, from lead-based paints
• Crystalline silica, from bricks and cement and other masonry products
• Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:
http://www.osha.gov/dsg/topics/silicacrystalline/index.html
http://www.cdc.gov/niosh/docs/96-112/
http://oehha.ca.gov/prop65/law/P65law72003.html
http://www.dir.ca.gov/Title8/sub4.html
http://www.P65warnings.ca.gov

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.
ELECTRIC MOTOR SAFETY

For maintenance care and operation of the electric motor, refer to your electric motor instruction booklet furnished with the electric motor. Protect the electric motor from dust as much as possible and keep ventilating openings clean. Before plugging in the machine, make sure that the outlet voltage is within the voltage marked on the machine's data plate.

CAUTION

DO NOT spray water on the electric motor. DO NOT touch the plug with wet hands. To reduce the risk of electrocution, keep all connections dry and off the ground.

DO NOT operate electric motor in an explosive environment.

DO NOT EXPOSE TO RAIN
DO NOT expose to rain or use in damp locations.

WARNING

If operating the equipment in damp locations is unavoidable, ALWAYS use a Ground Fault Circuit Interrupter, ALWAYS wear rubber gloves and footwear in damp conditions.

DO NOT abuse the cord. Never use the cord to carry the equipment or to pull the plug from the outlet. Keep the cord away from heat, sharp edges, and moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground. A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for this machine. Receptacles are available having built-in GFCI protections and may be used for this measure of safety. When using an extension cord, GFCI should be installed closest to the power source, followed by the extension cord and lastly, the machine.

WARNING

The water pump requires a GFCI. To reduce risk of electrical shock when operating the machine with the pump plugged into the 3-pole receptacle on the motor, connect the machine to a GFCI outlet. See the pump manual and informational tags enclosed separately for all pump information.
In order to prevent potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

**WARNING**

In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided – if it will not fit the outlet; have the proper outlet installed by a qualified electrician
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool’s plug
- Repair or replace a damaged or worn cord immediately

**WARNING**

This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A. The tool has a grounding plug that looks like the plug illustrated in Sketch A. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

**NOTE:** Use of a temporary adapter is not permitted in Canada.
The polisher requires a Ground Fault Circuit Interrupter (GFCI). To reduce the risk of electrocution, keep all connections dry and off the ground. A GFCI is provided as an integral part of the power cord for the tool. Receptacles are available having built-in GFCI protectors and may be used with this equipment. When using an extension cord, the GFCI in the power cord and extension cord connections need to be kept dry and off the ground.

**WARNING**

To avoid the possibility of the in-line GFCI getting wet, position it to the side of the work area. A “drip loop” shown in the picture below, should be arranged by the user to properly protect the GFCI.

The “drip loop” is that part of the cord below the level of the GFCI or the connector, if an extension cord is used. This method of positioning the cord prevents water traveling along the power cord, coming in contact with the GFCI, extension cord connections or receptacle.

If the GFCI, plug or receptacle get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine all components for presence of water.

**NOTE:**

Drip Loop Information - Raise GFCI and plug off the floor with a cardboard carton or brick or other non-conductive support to prevent water from traveling along the power cord.
WARNING

Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. **DO NOT** use damaged extension cords. Examine extension cords before using and replace if damaged. **DO NOT** abuse extension cords and **DO NOT** yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

**ALWAYS** make certain that the power source required for the electric motor is correct and always use the correct NEMA configuration plug. Motors can burn out when the line voltage falls 10% below the voltage rating of the motor. Failure to use proper voltage will cause the motor to overheat. Make certain that the correct size grounded (3-wires) extension cord is used.

**WARNING**

Use of undersized extension cords result in low voltage to the motor that can result in motor burnout and premature failure. MK Diamond warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords, will be repaired or replaced totally at the customer’s expense. There will be no warranty claim.

To choose the proper extension cord,

- Locate the length of extension cord needed in the table below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

<table>
<thead>
<tr>
<th>MOTOR SPECS</th>
<th>EXTENSION CORD LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>Voltage</td>
</tr>
<tr>
<td>120V 1 Ph</td>
<td>16</td>
</tr>
</tbody>
</table>
PRODUCT SPECIFICATIONS
The MK-1503 is a versatile Wet Stone Polisher. Operated and used according to this manual, the MK-1503 will provide years of dependable service.

General Description
The MK-1503 is engineered as a handheld variable speed Wet Polisher. The polisher is designed with a powerful 120V motor in a rugged plastic housing. MK Wet Polisher Part# 172057, Stone Kit Part # 172057-MKS & Lapidary Kit Part # 172057-MKL.

Motor Specifications
Motor specifications for the MK-1503 are listed in the table below.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperage</td>
<td>7</td>
</tr>
<tr>
<td>Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>RPM</td>
<td>700-3000 rpm</td>
</tr>
<tr>
<td>Weight</td>
<td>6.5 lbs.</td>
</tr>
</tbody>
</table>

Polishing Pad Capacity
The MK-1503 uses a three (3), four (4), or five (5) inch (76, 102, or 127 mm) diameter, wet polishing pad.

Tile Types
The MK-1503 can polish all variety of tile types including Porcelain, Terracotta, Marble, Quarry and Slate, or almost any other non-ferrous material

Replaceable Motor Brushes
The MK-1503 is equipped with replaceable motor brushes to extend operating life.

Serial Number and Product Specification Label Location
The Serial Number and Product Specification Label is located on the left side of the MK-1503 as shown.
**UNPACKING**

Your MK-1503 Wet Polisher has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

**CONTENTS**

| NOTE: | The contents of your container will vary depending on if you purchased the standard unit or the Kit. |

In your container, you will find one (1) MK-1503, one (1) Handle, one (1) D-Handle, one (1) Shroud, two (2) Motor Brushes, one (1) Shaft Wrench, one (1) Allen Wrench, one (1) Clamp Ring, one (1) Rubber Backer Pad, one (1) Owner's Manual, one (1) Warranty Card. Kits Only: Stone Kit: one (1) set of Polishing Pads. Lapidary Kit: one (1) Cup Wheel, one (1) Flat Grinding Wheel, one (1) Felt Pad, one (1) set of Resin Diamond Discs.

<table>
<thead>
<tr>
<th>MARK-1503</th>
<th>Handle</th>
<th>D-Handle</th>
<th>Shroud</th>
<th>Motor Brushes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft Wrench</td>
<td>Allen Wrench</td>
<td>Clamp Ring</td>
<td>Rubber Backer Pad</td>
<td>Owner's Manual</td>
</tr>
<tr>
<td>Warranty Card</td>
<td>Polishing Pad Set (Stone Kit Only)</td>
<td>Cup Wheel (Lapidary Kit Only)</td>
<td>Flat Grinding Wheel (Lapidary Kit Only)</td>
<td>Felt Pad (Lapidary Kit Only)</td>
</tr>
<tr>
<td>Resin Diamond Discs (Lapidary Kit Only)</td>
<td></td>
<td></td>
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</tbody>
</table>
Polishing pads are designed to achieve a monument quality finish on all straight or shaped surfaces. The unique design of the polishing pads allows for rapid and even surface removal rates of the material being polished with minimal effort. When used correctly, these pads provide a clear advantage over all other polishing methods.

**Important Points in the Polishing Process**

Polishing pads are designed for use with water only, to minimize the wear on the pads and prevent hazardous dust. Water acts to cool the polishing pad material, flush away grindings, and eliminate hazardous dust.

Never skip grit sizes during the polishing process. Skipping polishing pads of different grit sizes will result in an unsatisfactory finish to the polished surface.

Diamond polishing pads wear out prematurely due to the overworking of the material or by not using a sufficient amount of water. Failure to spend adequate time polishing with each grit size pad will result in an unsatisfactory finish.

Selection of the flexible Velcro™ (rubber) backer pads for shaping and curved work is highly recommended. Use the rigid backer pad for the straight edge and flat face material.

⚠️ **CAUTION**

Handle
You have a choice of using a straight Handle or D-Handle.

(A) Slide on Motor Cover.

(B) Place D-Handle on polisher. Insert bolt and tighten.

(C) Or install the straight handle by rotating clockwise to tighten. It may be installed on left or right side.

**NOTE:** The Motor Cover is designed to protect the user from the heat of the gear box.

Pre-start Inspection
Prior to beginning work, a pre-start inspection of the polisher should be performed.

(A) Verify the ON/OFF Switch is in the OFF position.

(B) Inspect for missing or damaged components.

(C) Test and reset the GFCI. If it does not test and reset properly, replace immediately.

**NOTE:** The indicator light on the GFCI should glow red. The red light should go out when the TEST button is pressed. This indicates that the GFCI is functioning properly. Press the RESET to reactivate the GFCI.
Setup

Shroud

(A) Place Shroud on polisher.  
(B) Open hose clamp and place around shroud. Secure Shroud by tightening clamp.

Speed Adjustment

On the rear of the polisher, there is a speed adjustment dial. Refer to the speed chart for settings.

<table>
<thead>
<tr>
<th>SPEED ADJUSTMENT VS. RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

NOTE:  DO NOT operate the tool at low speeds under heavy load for extended periods of time. This may cause the motor to overheat.

Setup for Operation

NOTE: 1. Hook & Loop Backer Pads may be used from MK Diamond's line of products such as diamond polishing discs, sandpaper discs and felt buffing discs. Choose the correct Backer Pad for the job being performed; rubber Backer Pads for contours edges and bullnose surfaces. Rigid Backer Pads for straight edges and lat surfaces.  
2. Located on the top of the gear box is a shaft lock button. Press it to stop shaft from spinning when installing backer plate. Do not press shaft lock button when polisher is running.
1. Choose the correct Polishing Disc for the material to be polished (start with a 50, 120 or 220 coarse grit Pad).

- **A** Install the Backer Pad onto the Spindle (Do not cross-thread)
- **B** Tighten the Backer Pad while pressing shaft lock bottom.
- **C** Plug the GFCI into a power outlet and test the GFCI for proper operation.
- **D** Verify the Cooling Flow Control Valve is closed.
- **E** Connect Cooling Supply Line to a water supply.

**Pad Installation for Polishing**

**NOTE:** 
1. Choose the correct Polishing Disc for the material to be polished (start with a 50, 120 or 220 coarse grit Pad).

- **A** Align the Velcro Polishing Disc to the Backer Pad. Press disc evenly and firmly onto the Backer Pad.
- **B** Verify the Polishing Disc is centered on the Backer Pad and the Cooling Ports are not covered.
Material Setup

(A) If necessary, clamp the material to be polished to a work surface.

Polishing Operation

NOTE: Do not force the polisher. The weight of the unit supplies adequate pressure therefore letting the polishing pad and polisher do the work. Applying additional pressure will only slow the motor, rapidly wear out the polishing pad and greatly reduce the polishing speed. Excessive pressure will overload the motor causing possible damage from overheating.

Excessive pressure may overheat the motor. If this occurs, turn off the polisher and wait until the polishing disc comes to a complete stop. Then remove the polisher from the work piece. Remove the polishing disc, then (with your hand removed from the vent area) turn on the polisher and let it run free, without load, to cool the motor.

Do not polish one spot too long. When used in one spot for extended periods, 50 and 100 grit polishing pads will remove excessive material, making the surface uneven.

(A) Place the ON/OFF Switch in the ON position.

(B) Adjust water flow (excessive water flow can result in internal electrical problems).

(C) Using the coarse grit disc, remove all rough scratches and cut marks.
Once all of the large scratches and marks have been removed, use the finer grit polishing discs (400, 800, 1800 and 3500) for a quality finish. For a higher luster/color, finished surface, use the extremely fine 8500 grit polishing disc.

**NOTE:** Once all of the large scratches and marks have been removed, use the finer grit polishing discs (400, 800, 1800 and 3500) for a quality finish. For a higher luster/color, finished surface, use the extremely fine 8500 grit polishing disc.

(D) After working the area, shut the water supply off.

(E) Place the ON/OFF Switch in the OFF position.

(F) Dry surface then rub the surface with a lumber crayon to determine the depth of the remaining scratches.

**NOTE:** After working the area, shut the water supply off.

(G) Repeat Steps A through F until all large scratches have been removed.

(H) Change to fine grit discs for a quality finish.

(I) Repeat Steps A through F using fine grit discs to complete polishing of the surface.

**NOTE:** For a mirror finish, make a paste of cerium oxide and water (or tin oxide and water) apply the paste to a felt wheel and run the wheel against the surface using only slight pressure. Once the paste dries, wash the surface with water and dry.
Motor Brush Change-Out

(A) Unscrew & remove the water control housing.

(B) Remove the Motor cover.

(C) Remove the Motor Brush.

(D) Ensure the Motor Brush Housing is free of all carbon pieces.

(E) Insert the new Motor Brush Assembly.

(F) Using a flat blade screwdriver install the Motor Brush Housing cover and water control housing.

(G) Repeat Steps A through E for second Motor Brush Assembly.

**NOTE:** Ensure the Motor Brush Assembly remains correctly seated at all times.
Loss of Cooling Flow

(A) Verify the Water Flow Control Valve is open.

(B) Ensure the Water Supply Line is connected properly.

Electrical Problems

(A) Verify the ON/OFF Switch is in the ON position.

(B) Verify all electrical connections and ensure the GFCI is not tripped.

(C) Verify circuit breaker is not tripped, if it is tripped – reset the circuit breaker once.

(D) Check power source voltage is 120V, if it is not 120v – move to another circuit.

(E) Inspect the Motor Brushes.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OUTPUT SHAFT</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WOODRUFF KEY</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>SPLASH GUARD</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>HOSE CLAMP</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>SCREW</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>WASHER</td>
<td>4</td>
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## ACCESSORIES

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ORDERING INFORMATION

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

When ordering direct from MK Diamond, please have the following information ready before calling:
• The Model Number of the saw
• The Serial Number of the saw
• Where the saw was purchased and when
• The Part Number for the part(s) being ordered
• The Part Description for the part(s) being ordered

NOTE: Standard orders are $50.00 or more when ordering direct from MK Diamond. A $6.00 charge will be added to orders having a net billing value under $50.00. A nominal handling fee of $5.00 may apply to some orders.

All parts may be ordered by calling toll free to – 800 421-5830 or 310 539-5221 and asking for Customer Service. For technical questions, call – 800 474-5594.

RETURN MATERIALS POLICY

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous 90 day.
• Have the Model Number of the saw
• Have the Serial Number of the saw
• Have the location of where the saw was purchased
• Have the date when the saw was purchased
• Contact Customer Service for approval to return the item(s)
• Obtain a Returned Goods Number (RGA) authorizing the return
• Follow the packaging instructions in the following section
• Ensure the RGA number is on the outside of the returned package
• Ensure your item(s) are prepaid to the destination
For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service.

PACKAGING INSTRUCTIONS

• Remove any discs or backer plates
• Dry the unit before shipping
• Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
• Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at 800 421-5830 or 310 539-5221 for the Authorized Service Center closest too you or visit our web site at www.mkdiamond.com. For technical questions, call – 800 474-5594.
MK DIAMOND PRODUCTS LIMITED WARRANTY

Please complete the warranty registration card and return. Any problems encountered should be directed to MK Diamond Customer Service department at (800) 630-7682 M-F 8am - 5pm PST.

MK Diamond warrants to the original retail purchaser for a period of 90 days except as noted, from the date of purchase all products covered by this Warranty to be free of defects in materials and workmanship.

This Warranty shall not apply to any parts that have been subjected to misuse or improper service, that had been damaged in transit or handling, or that have been altered or repaired by unauthorized representatives. This Warranty does not cover defects caused by or resulting from misuse, abuse, neglect or damage caused by accident or the failure to provide reasonable maintenance. This Warranty is void if the product or any of its individual components is altered or modified by the purchaser or if the product is used in a manner or with a blade not recommended by the manufacturer.

Any claim arising under this Warranty must be submitted by the original purchaser within the warranty period specified above, and shall include proof of purchase. During said warranty period MK Diamond shall, at its option, either replace or repair, at no charge to the original purchaser, any parts or components that are found to be defective by MK Diamond. MK Diamond shall not be responsible for or obligated to pay for freight or other transportation related costs or expenses in connection with any defective products or components that are either returned to MK Diamond’s facility or any authorized repair station and/or any replacement products or components that are shipped from MK Diamond pursuant to this Warranty.

Parts and labor needed to maintain products and the replacement of components due to normal wear and tear are the purchaser’s responsibility and are not covered by this Warranty. All products or components replaced under warranty become the property of the manufacturer. All replacement parts will be considered to be part of the original product and any warranty on such parts will expire coincidentally with the original Warranty. MK Diamond will pay for parts and labor in connection with warranty repairs conducted by MK Diamond or its authorized repair centers. Replacement part(s) installed by anyone else will be provided without a charge for such replacement part(s), but this Warranty will not apply to labor charges in connection therewith.

IN NO EVENT SHALL ANY LIABILITY UNDER THIS WARRANTY EXCEED THE REPLACEMENT COST OF ANY DEFECTIVE PRODUCT OR COMPONENT THEREOF, AND MK DIAMOND SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER DAMAGE OR LOSS NOT EXPRESSLY ASSUMED AS SET FORTH HEREIN.

The foregoing constitutes an expressed warranty on the terms set forth above and is the only warranty or warranties applicable to the products it covers. All other warranties, including, without limitation, the implied warranty of merchantability and/or fitness for a particular purpose or use being denied. This limited warranty is expressly in lieu of all other warranties, whether expressed or implied.
MK-1503
OWNER'S MANUAL & OPERATING INSTRUCTIONS