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-377 Saw. 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-377 Saw 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-377 Saw safely and correctly. Please take the time to familiarize yourself with the MK-377 Saw by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your MK-377 Saw, 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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIAL NUMBER:</td>
<td></td>
</tr>
<tr>
<td>PURCHASE PLACE:</td>
<td></td>
</tr>
<tr>
<td>PURCHASE DATE:</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number) and mail it in as soon as possible.
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MK-377 SAW

SAFETY

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.

- 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.

- DO NOT USE IN DANGEROUS PLACES
  DO NOT use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.
MK-377 SAW

SAFETY

KEEP CHILDREN AWAY
All visitors and children should be kept a safe distance from work area.

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.

USE THE RIGHT TOOL
DO NOT force a tool or an attachment, to do a job that it was not designed to do.

USE THE PROPER EXTENSION CORD
If using an extension cord make sure it is in good condition first. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage that will result in a loss of power and overheating. Page 9 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

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.

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

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.

MAINTAIN TOOLS WITH CARE
Keep tools clean for the best and safest performance. Always follow maintenance instructions for lubricating, and when changing accessories.

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

ALWAYS place the power ON/OFF switch in the OFF position when the saw is not in use.
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 part. A guard or any other part that is damaged should be carefully checked to determine if 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.

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 operate this equipment when not feeling well due to fatigue, illness or taking medicine.

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


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.

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.

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.

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


**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, 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

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.

⚠️ **WARNING**

Sawing and drilling generate dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200).
To avoid the possibility of the appliance or plug receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping into the receptacle or plug. A "drip loop," shown in the picture below, should be arranged by the user to properly position the power cord relative to the power source. Use the drip loop as a way to prevent GFCI and plug from getting wet.

The "drip loop" is that part of the cord below the level of the receptacle (or the connector, if an extension cord is used). This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

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

---

**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.
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.
**WARNING**

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

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

**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.

**WARNING**

To reduce the risk of electrocution, keep all connections dry and off the ground. **DO NOT** touch the plug with wet hands.

**WARNING**

Use of under sized 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.

---

**EXTENSION CORD LENGTH**

<table>
<thead>
<tr>
<th>Nameplate Amperes</th>
<th>115V</th>
<th>250V</th>
<th>25'</th>
<th>50'</th>
<th>75'</th>
<th>100'</th>
<th>150'</th>
<th>200'</th>
<th>300'</th>
<th>400'</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.1 - 8</td>
<td>16</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.1 - 12</td>
<td>14</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1 - 15</td>
<td>12</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.1 - 20</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SAFETY LABEL LOCATIONS

Safety labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement.

Decal/Label | Location | Description
---|---|---
A | Motor - Back | Caution - Receptacle is for Water Pump Only
B | Motor - Side | Caution - Use with GFCI only
C | Motor - Top | Service/ Warranty
D | Motor Post | Warning - Silica Warning
E | Cutting Head – Top | Warning - Read Owners Manual
F | Table | Notice - Voltage/extension cords

TILE SAW SPECIFIC WARNINGS

**WARNING**

Wear eye protection.
Use splash guard for every operation for which it can be used.
Disconnect saw before servicing, when changing cutting blades, and cleaning.
Replace damaged cutting blade before operating.
PRODUCT SPECIFICATIONS

The MK-377 is a versatile Tile Saw. Operated and used according to this manual, the MK-377 will provide years of dependable service.

General Description

The MK-377 Tile Saw is engineered as a tabletop wet tile saw. The saw includes a powerful 120V electric motor. The saw is capable of cutting tile up to fourteen (14) inches in length. The saw can cut an object two (2) inches thick in one pass.

Motor Specifications

Motor specifications for the MK-377 are listed in the table below.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Amperage</td>
<td>5</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>RPM</td>
<td>5500 rpm</td>
</tr>
<tr>
<td>Horse Power</td>
<td>1/2 hp</td>
</tr>
</tbody>
</table>

Blade Capacity

The MK-377 uses a seven (7) inch (178mm) diameter, wet cutting continuous rim, MK Diamond blade with a five-eighths (5/8) inch (15.875 mm) arbor.

Tile Types

The MK-377 can cut a variety of tile types including stone, ceramic, slate, granite, marble, porcelain, and lapidary products.

NOTE: The MK-377 is not designed to cut plastic or metals.
UNPACKING

⚠️ CAUTION  Use proper lifting techniques when lifting the MK-377

Remove the MK-377 and accessory box from the carton.

**CONTENTS**
- One (1) MK-377 cutting surface & water pan
- One (1) MK-377 cutting head
- One (1) 7-inch wet cutting blade
- One (1) splash guard
- One (1) blade nut wrench
- One (1) extended rip guide
- One (1) electric water pump
- One (1) cooling transfer tube
- One (1) flow adjusting clamp
- One (1) shaft wrench
- One (1) owners manual
- One (1) owners manual
- One (1) pump manual
- One (1) warranty card

TRANSPORT

⚠️ CAUTION

1. The MK-377 weighs approximately thirty (30) pounds; use care when transporting.
2. Never transport the MK-377 with water in the Water Pan.

The MK-377 is designed with a rigid frame and removable Cutting Head making the saw easily transportable. To lift the saw, grasp the front and back of the frame at the lift points shown below.
Follow the assembly instructions to prepare your MK-377 for operation.

**CUTTING HEAD INSTALLATION**

(A) Loosen the Blade Guard Retaining Knob

(B) Remove the Blade Guard Wingnut and then remove the Blade Guard

(C) Locate and remove the three Cutting Head Retaining Screws using a Phillips Screwdriver

(D) Align the Cutting Head Retaining Holes to the holes on the Post

(E) Install the three Cutting Head Retaining Screws using a Phillips Screwdriver

(F) Install the Blade Guard and tighten Wingnut and Retaining Knob

**DIAMOND BLADE INSTALLATION**

NOTE: When installing the Retaining Screw, do not "cross-thread" and DO NOT over tighten the screw.

(A) Loosen the Blade Guard Retaining Wingnut

(B) Loosen the Blade Guard Retaining Knob and open the Blade Guard

(C) Place the Shaft Wrench on the Motor Shaft (NOTE: the Outer and Inner Flanges and the Blade Nut are removed in the photo above) rotate blade shaft so shaft wrench is engaged.
(D) Place the Blade Wrench on the Blade Retaining Nut and remove the Blade Retaining Nut and Outer Flange

(E) Install Diamond Blade onto Blade Shaft

(F) Verify the Directional Arrow of the Blade faces outward and matches the Directional Arrow of the Blade Guard

(G) Install the Outer Flange and Retaining Nut; install the Shaft Wrench and Blade Wrench as shown in Steps C and D and tighten the Retaining Nut

(H) Close the Blade Guard and tighten the Blade Guard Retaining Knob

(I) Tighten the Blade Guard Retaining Wingnut
ADJUSTABLE CUTTING GUIDE INSTALLATION

NOTE: The Adjustable Cutting Guide can be used on either side of the Diamond Blade.

(A) Loosen Adjustable Cutting Guide retaining thumbscrew and place it over the Movable Cutting Table and Ruler/Stop

(B) Place the Adjustable Cutting Guide onto the Movable Cutting and tighten the retaining thumbscrew

SPASH GUARD INSTALLATION

(A) Remove Thumbscrew and washer from back of Blade Guard

(B) Install the Thumbscrew through the Washer and Splashguard then align to the hole found on back of the Blade Guard and tighten

PRE-START INSPECTION

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

(A) Ensure the ON/OFF Switch is in the OFF position

(B) Inspect the Pump Assembly for damage - ensure the cord is free of cracks or cuts

(C) Inspect the Diamond Blade for damage – verify the blade is correct for the type of material being cut
WATER PUMP PREPARATION

(A) Press the end of the Cooling Transfer Tube onto the Water Pump

(B) Connect the Cooling Transfer Tube to the inlet connection of the Blade Guard

(C) Place the Water Pump in the Water Pan with the suction down and insert the Pump Cord to the clip in the back. Ensure pump is against back of water pan.

(D) Fill the Water Pan with clean water covering Pump suction (this should be done periodically during cutting)

(E) Connect the Water Pump power cord to the connection found on the back of the motor

(D) Inspect the MK-377 for damage – ensure the cord is free of cracks or cuts

(E) Verify the Movable Cutting Table moves freely
SETUP FOR OPERATION

1. Before connecting the MK-377 to a power supply, be sure the voltage, cycle and phase meet the requirements of table below.
2. If using an extension cord, make sure the length and wire gauge correspond to the requirements listed in the table on page 10. An extension cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.
3. Before connecting the MK-377 to a power supply, be sure the voltage, cycle and phase of the job site power source meet the requirements in the table below.
4. Use an approved Ground Fault Circuit Interrupter (GFCI).
5. Do not cover the motor vents as this could lead to motor overheating.

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>120v</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYCLE</td>
<td>60Hz</td>
</tr>
<tr>
<td>PHASE</td>
<td>1-phase</td>
</tr>
</tbody>
</table>

NOTE: In order to avoid breaker tripping, a 20 amp circuit breaker should be used.

(A) Plug MK-377 into the GFCI (A GFCI should always be used when operating the MK-377)

(C) Plug the GFCI into the power source
ADJUSTMENT & OPERATION

⚠️ CAUTION  DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.

(A) Loosen the retaining thumbscrew and place the Adjustable Cutting Guide to the desired cut length and tighten thumbscrew

(B) Place the tile against the Ruler/Stop and Cutting Guide

(C) Turn the motor ON and verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow)

(D) Perform the cut. Turn the motor OFF when work is complete
CLEANUP

(A) Ensure the ON/OFF Switch is in the OFF position. Remove the Cutting Assembly from the Water Pan

(B) Dispose of the contents of the Water Pan and clean the pan. Replace the Cutting Assembly.

(C) Clean the Water Pump of all debris. (Refer to water pump manual for more detail)

(D) Fill the Water Pan with clean water

(E) Run the MK-377 until clear water is seen at the blade cooling ports (Approx. 1 minute)

(F) Dispose of the contents of the Water Pan and clean the MK-377 with soap and clear water

(G) Clean the Guide Bar

(H) Clean the Roller Wheel Guide Rail

(I) Clean the Roller Wheels

CAUTION

Ensure the saw is disconnected before completing the remainder of the cleanup process.

CAUTION

To extend the life of the MK377, lubricate the Motor Shaft with light oils such as, 3 in 1, WD-40, etc.

NOTE: Dispose of wastewater in accordance with applicable Federal, State and Local laws.
CAUTION To extend the life of the MK-377, the following procedure should be performed after each use. Lubricate all points listed below with light oils such as 3 in 1, WD-40, etc.

(Lubricate the Guide Bar)

(Lubricate the Roller teel Assembly)

LOCKOUT

The MK-377 is equipped with a lockout device that can be used during maintenance and troubleshooting to render the saw in operable. The lockout can also be used to prevent unauthorized use.

(A) Locate the Lockout Pin in the center of the ON/OFF Switch toggle (the Lockout Pin has "Remove To Lock" highlighted)

(B) Lockout the Saw by removing the Lockout Pin

MAINTENANCE

Monthly Maintenance

The following maintenance should be performed monthly.

(A) Remove and clean the Inner and Outer Flanges and the Blade Retaining Nut

(B) Clean the Motor Shaft

(C) Lubricate the Motor Shaft
BLADE DRESSING

Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or "glazed" over. This will reduce grinding efficiency and may cause the blade to "wander" or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part# 152972) and by following the steps below.

(A) Setup the MK-377 for operation (See Setup, Adjustment and Operation)
(B) Set the Adjustable Cutting Guide to cut a 1/16-strip
(C) Position the Dressing Stick against the Adjustable Cutting Guide and the Ruler/Stop
(D) Turn the motor ON. Verify proper cooling flow on both sides of the blade
(E) Push the Dressing Stick into the Blade in a smooth even motion to perform a cut, repeat 7 or 8 times to dress the Blade
MOTOR BRUSH CHANGE-OUT

WARNING
Disconnect the tool before servicing and when changing accessories, such as blades and bits.

(A) Locate and loosen one Motor Brush Housing Cover using a flat head screwdriver

(B) Remove the Motor Brush Housing Cover

(C) Remove the old Motor Brush

(D) Clean the Motor Brush Housing using a Q-tip

(E) Align and install the new Motor Brush

(F) Install Motor Brush Cap and tighten using a flat head screwdriver

(G) Install the second Motor Brush (Repeat Steps C to F)
TROUBLESHOOTING

Blade will not cut properly.

(A) Check for Smoothness or "Glazing" (Dress blade if needed)

(B) Check for proper rotation

(C) Ensure the Blade Core is not bent and Arbor is not out of round

(D) Verify the blade is correct for the material being used

COOLING FLOW

(A) Check that the Cooling Flow Adjusting Valve is FULL open

(B) Remove the Cooling Transfer Tube from the Blade Guard inlet and clean

(C) Check the cooling flow Adjusting Clamp is open
"Rodding" cooling channels is performed by inserting a small wire rod through the cooling inlet on top of the Blade Guard and directing the rod out through each of the cooling flow tubes located on the underside of the Blade Guard. The cooling channels should be "rodded" until all ports are free of foreign debris.

**NOTE:**

- **(D)** Remove the Blade Guard Intake Fitting
- **(E)** Clean the Blade Guard Intake Fitting
- **(F)** Locate the Blade Guard Cooling Channels
- **(G)** Rod Cooling Channels and recheck flow

**MOVABLE CUTTING TABLE DOES NOT MOVE CORRECTLY**

- **(A)** Check the Guide Bar and Roller Wheel Guide Frame is clean - clean if dirty
- **(B)** Check the Movable Cutting Table Roller Wheels for wear replace if necessary
BLADE STOPS TURNING

(A) Check the ON/OFF Switch is in the ON position

(B) Verify all plugs are fully connected

(C) Check to see if the Ground Fault Circuit Interrupter (GFCI) tripped

(D) Verify the circuit breaker is at least 20 amps - if not, move to 20-amp circuit

(B) Verify circuit breaker not tripped; if it is tripped, reset it once only

(C) Check power source voltage is 120v - if not 120v, move to another circuit
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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: There is a $25.00 minimum order when ordering direct from MK Diamond. A $6.00 charge will be added to orders having a net billing value under $50.00. All purchases must be made using VISA, MasterCard or American Express.

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 twelve (12) months.
- 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 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. For technical questions, call – 800 474-5594 or 310 257-2845.

PACKAGING INSTRUCTIONS
- Remove the Cutting Head and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: Saw, Diamond Blade, Blade Guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- 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 to you or visit our web site at www.mkdiamond.com. For technical questions, call – 800 474-5594.
CONTACT:
Please contact MK Diamond Products, Inc. Customer Service Department with any questions you might have regarding distributors, parts or service.
Telephone: (800) 421-5830
Fax: (310) 539-5158
E-mail: Customer_Service@MKDiamond.com
Customer Service Hours: Monday through Friday, 6AM-4PM PST

MK Diamond Products, Inc.
1315 Storm Parkway
Torrance, CA 90501

MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY

MK DIAMOND PRODUCTS, INC. will guarantee every machine they build, to be free from defects in material and workmanship for (1) one year from date of purchase. The obligation of MK DIAMOND PRODUCTS, INC. under this warranty is limited to the repair or replacement of any parts which, under normal use, prove to be defective in material or workmanship. The parts involved or the unit in question should be returned to MK DIAMOND PRODUCTS, INC. or to a point designated by us, transportation prepaid.

This warranty does not obligate us to bear the cost of labor or transportation charges in connection with replacement or repair of defective parts. Likewise, it shall NOT apply to any unit which has been subjected to misuse, neglect or accident. This warranty does NOT apply to any machine which has been repaired or altered outside our factory.

This warranty does NOT obligate MK DIAMOND PRODUCTS, INC., with respect to items not of our manufacture, such as engines, motors, hydraulics, etc., which are subject to their own guarantees and warranties.

We shall in no event be liable for consequential damages or contingent liabilities arising out of failure of any equipment or parts to operate properly.

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MK Diamond may have patents, patent applications, trade marks, copyrights of other intellectual property right covering this product in this document.

This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

The information and specifications included in this publication were in effect at the time of approval for printing.