

# MK-101-24 OWNERS MANUAL & OPERATING INSTRUCTIONS



MK-101-24

Revision 101	10.2011
Manual Part No. 169689	

**Caution:** Read all safety and operating instructions before using this equipment. This owners manual **MUST** accompany the equipment at all times.

## INTRODUCTION

Congratulations on your purchase of a MK-101-24 Tile 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-101-24 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 Tile Saw safely and correctly. Please take a few minutes to familiarize yourself with the saw by reading and reviewing this manual.

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

Regards,

MK Diamond

### NOTE THIS INFORMATION FOR FUTURE USE:

<b>MODEL NUMBER:</b>	
<b>SERIAL NUMBER:</b>	
<b>PURCHASE PLACE:</b>	
<b>PURCHASE DATE:</b>	

**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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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 MESSAGES

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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!

## SAFETY PRECAUTIONS

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**ALWAYS** read this Owner's Manual before operating the machine.



**ALWAYS** keep the Blade Guard in place.



### 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.



### KEEP CHILDREN AWAY

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

**MAKE THE WORKSHOP KID PROOF**

Make the workshop 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. TABLE 1, Page 9 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage 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.



**ALWAYS** wear approved eye protection.



**ALWAYS** wear approved respiratory protection.

**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.

**NEVER STAND ON THE TOOL**

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

**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 FEED**

**ALWAYS** feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

**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.

**CALIFORNIA PROPOSITION 65 MESSAGE**

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**WARNING**

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 and
- 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/consilic.html>

<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 those dust masks that are specially designed to filter out microscopic particles.

**HAZARD SYMBOLS**

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**ELECTRICAL SHOCK**

**NEVER** touch electrical wires or components while the engine is running. They can be sources of electrical shock which could cause severe injury or burns.

**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.

 **WARNING**

Sawing and drilling generates 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).

 **WARNING**

Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions

## ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS

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

### WARNING

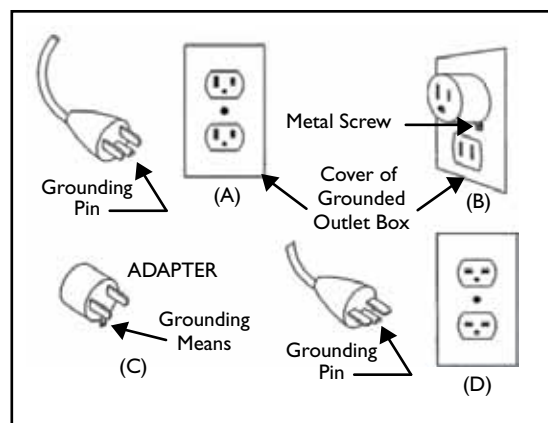
In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that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



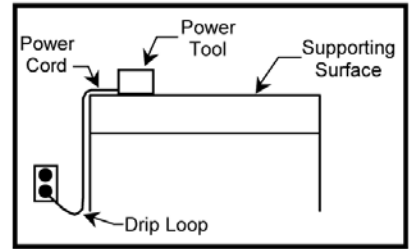
**Circuit and Adapter Information**



 **WARNING**

To avoid the possibility of the appliance plug or receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping onto 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.

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.




**Drip Loop Information**

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.

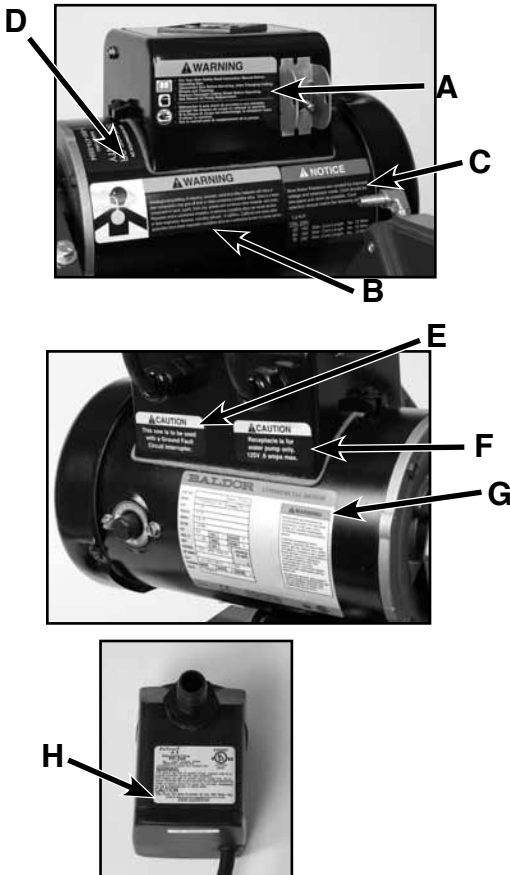
To choose the proper extension cord,

- 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 MINIMUM GAGE FOR LENGTH			
VOLTS	TOTAL LENGTH OF CORD IN FEET		
	25 ft. AWG	50 ft. AWG	75-100 ft. AWG
115v	12	10	8
230v	14	14	12

**SAFETY LABEL LOCATIONS**

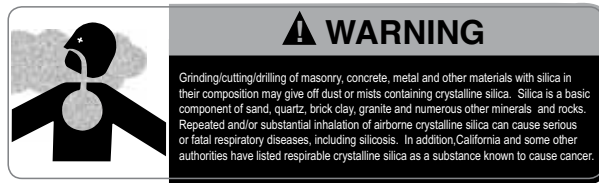
Safety labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement.



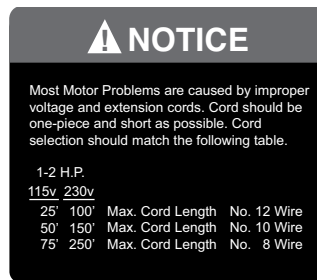
Label A



Label D



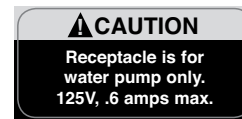
Label B



Label C



Label E



Label F

Tile Master Label Sheet Part#166012

Decal/Label	Location	Description
A	Motor-Side	Warning - Read and Follow Operating Instructions
B	Motor - Front	Warning - Silica Warning
C	Motor - Side	Notice - Receptacle is for Water Pump Only
D	Motor - Back	Service/ Warranty
E	Motor - Side	Caution - Use with GFCI only
F	Motor - Side	Caution - Receptacle for water pump
G	Motor - Side	Motor Specifications
H	Water Pump	Pump Specifications

**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**

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The MK-101-24 is a versatile Tile Saw. Operated and used according to this manual, the unit will provide years of dependable service.

The MK-101-24 is engineered as a table top or stand mounted wet tile saw. The saw include a powerful 120V totally enclosed capacitor start motor with a thermal protective overload.

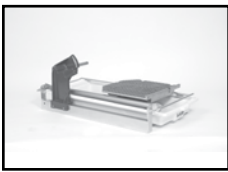
<b>Specifications for the MK-101-24</b>	
<b>Voltage</b>	120V
<b>Overall Amperage</b>	14.5
<b>Frequency</b>	60Hz
<b>Blade RPM</b>	3400
<b>Horse Power</b>	1-1/2 Hp
<b>Weight</b>	98lbs
<b>Blade Capacity</b>	10" (254 mm)
<b>Arbor Size</b>	5/8" (16 mm)
<b>Depth of Cut (10" Blade)</b>	3" (76 mm)
<b>Length of Cut</b>	24"
<b>Diagonally Cuts</b>	18" Tile
<b>LxWxH (inches)</b>	42" x 21-1/2" x 23"
<b>LxWxH (mm)</b>	1,014 x 546 x 584
<b>Part #</b>	169612

**UNPACKING**

Your MK-101-24 has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

**CAUTION** Use proper lifting techniques when lifting the MK-101-24.

In your container, you will find one (1) MK-101-24 frame and water basin, one (1) MK-101-24 Cutting Head, one (1) 10-inch wet cutting continuous rim diamond blade, one (1) adjustable cutting guide, one (1) electric water pump, one (1) blade wrench, one (1) splash guard, one (1) cooling transfer tube, one (1) flow adjusting clamp, one (1) drain plug, one (1) owners manual, one (1) pump manual and one (1) warranty card.



MK-101-24 Frame and Water Basin



MK-101-24 Cutting Head



Diamond Blade



Adjustable Cutting Guide



Electric Water Pump



Cooling Transfer Tube



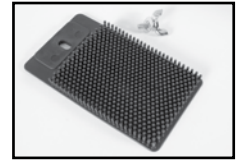
Flow Adjusting Clamp



Drain Plug



Blade Wrench



Splash Guard



Owners Manual



Pump Manual



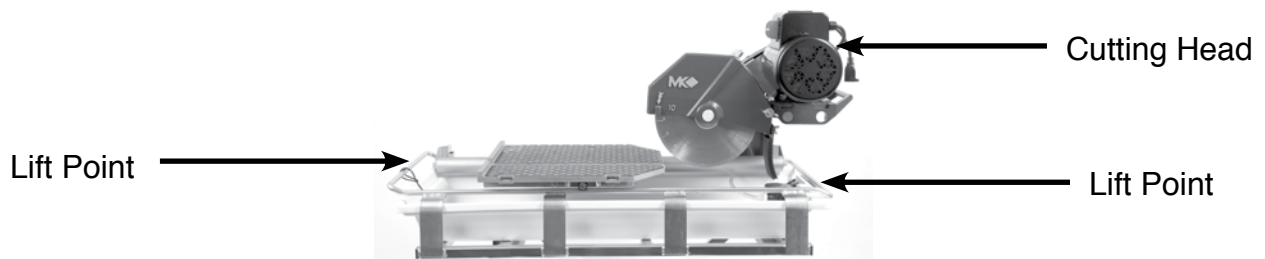
Warranty Card

**TRANSPORT**

**CAUTION**

1. The MK-101-24 weighs approximately ninety-eight (98) pounds.
2. Never transport the MK-101-24 with water in the Water Basin.

The MK-101-24 is designed with a rigid frame and removable Cutting Head. Two people are required to transport the MK-101-24 with the Cutting Head installed. Remove the Cutting Head if one person is transporting the saw (see Cutting Head Installation and Removal in the following section).



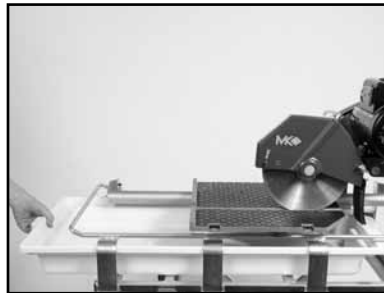
**STAND (Optional)****CAUTION**

The MK-101-24 weighs approximately ninety-eight (98) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.

If using the MK Diamond Stand, Part # 168244, follow these steps.



(A)  
Open the stand and place on flat surface



(B)  
Remove Water Basin,  
place saw on stand



(C)  
Ensure saw frame is  
positioned properly



(D)  
Reinstall the Water Basin

## Cutting Head Installation

Follow the assembly instructions to prepare your MK-101-24 for operation.

**NOTE:** If the cutting head is installed, go to the next step.



(A)

Ensure Cutting Head Stop is in upward position.



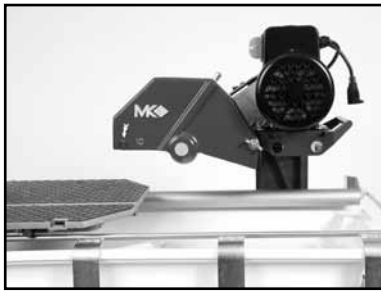
(B)

Align Cutting Head rear Pivot Hole to the Post Pivot Shaft and slide onto shaft.



(C)

Install the Cutting Head onto the Post Pivot Shaft and install the Adjusting Knob.



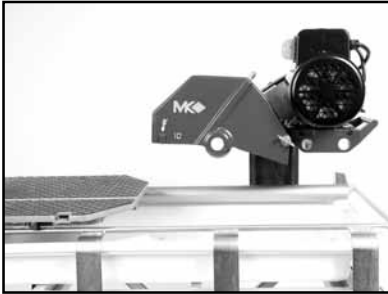
For maximum cutting length, the Cutting Head should be in the front pivot hole and the Post should be in the rear post retaining hole.

**NOTE:** For small tiles (6" tile or smaller) the Cutting Head should be in the rear pivot hole and the Post should be in the forward post retaining hole. For large tiles and maximum cutting length, the Cutting Head should be in the front pivot hole and the Post should be in the rear post retaining hole.

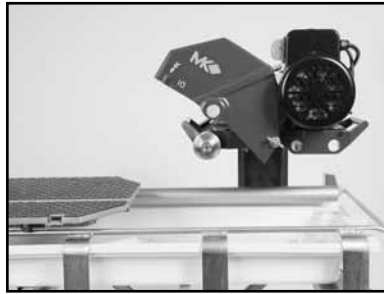
**NOTE:** Move Cutting Head Stop in upward position when using rear pivot hole and in the down position when using front pivot hole, refer to page 24.

## Diamond Blade Installation

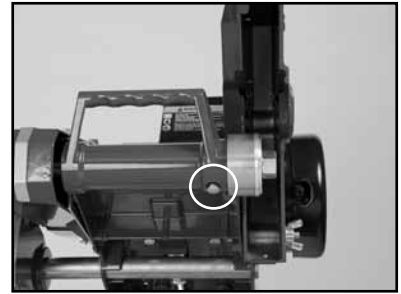
**NOTE:** When installing the Retaining Nut, do not “cross-thread” and DO NOT over tighten.



(A)  
Position Movable Cutting Table to the front of the saw.



(B)  
Raise the Blade Guard by loosening the wingnut.



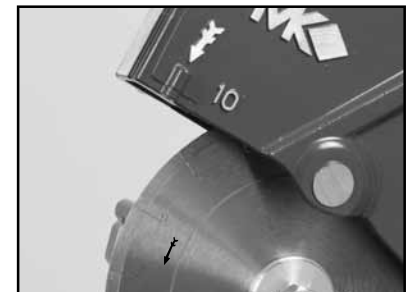
(C)  
Locate the Shaft Lock push button on the underside of the Cutting Head.



(D)  
Depress and hold the Shaft Lock pushbutton and remove Retaining Nut and Outer Flange using the Blade Wrench.



(E)  
Install Diamond Blade onto Blade Shaft.



(F)  
Verify the Blade is seated on the Blade Shaft and direction of rotation is correct.

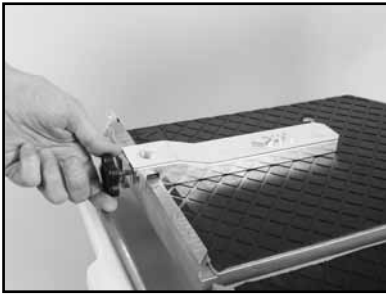


(G)  
Install Retaining Nut and Outer Flange, depress and hold the Shaft Lock pushbutton and tighten Retaining Nut.



**Adjustable Cutting Guide Installation**

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



(A)  
Place the Adjustable Cutting Guide onto the Movable Cutting Table Ruler/Stop and tighten the retaining thumbscrew.

**Splash Guard Installation**



(A)  
Install the retaining thumbscrew through the washer and Splash Guard then align to the hole found on back of the Blade Guard.



(B)  
Install the Splash Guard onto the Blade Guard.

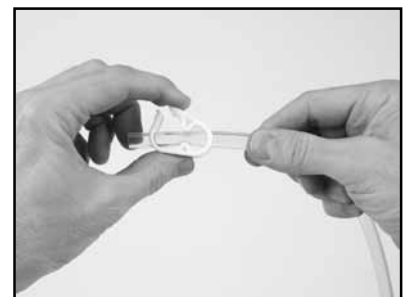
**Water Pump Preparation**



(A)  
Install Water Pump Discharge Fitting.



(B)  
Press one end of the Cooling Transfer Tube onto the Water Pump Discharge Fitting.



(C)  
Slide Cooling Flow Adjusting Clamp onto the Cooling Transfer Tube.

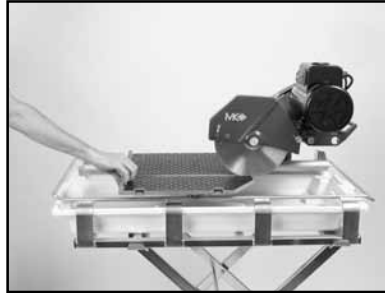


## Pre-start Inspection

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.



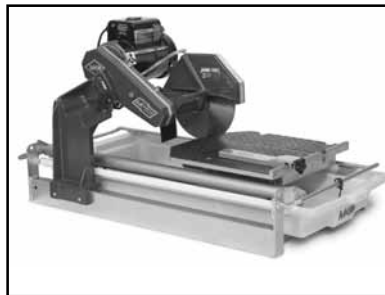
(B)  
Verify the Movable Cutting Table moves freely.



(C)  
Inspect the Diamond Blade for damage – verify the blade is correct for the material being cut.



(D)  
Inspect the Pump Assembly for damage – ensure the cord is free of cracks or cuts.



(E)  
Inspect the MK-101-24 for damage – ensure the cord is free of cracks or cuts.

## Connecting the Water Pump



### WARNING

1. To prevent the possibility electrical shock, the MK-101-24 MUST be de-energized when connecting the Water Pump.
2. To prevent the possibility of electrical shock, use only MK Diamond qualified replacement parts.

### NOTE:

To prevent pump damage, the Water Pump must be disconnected during dry cutting operations.



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



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

## Water Pump Setup for Operation

The Water Pump can be setup for operation in two ways, External Water Source or Re-circulation.

**NOTE:** If using a dry blade for operation, DO NOT connect the water pump.

### External Water Source

This is the preferred method of cooling.



(A)

Remove the Drain Plug. Place empty container under hole for water drainage.

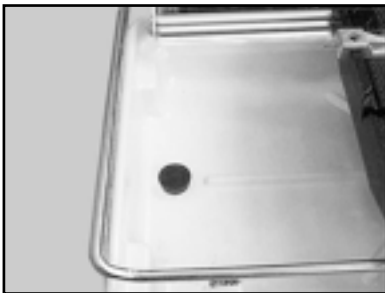


(B)

Place the Water Pump in an external container and fill until water completely covers the Water Pump suction.

### Re-circulation

**NOTE:** When using the re-circulation method, the water should be changed often for longer pump life



(A)

Ensure the Drain Plug is installed in the Water Basin.



(B)

Place Water Pump in Water Pan. Fill the Water Basin until water completely covers the Water Pump suction.

## SETUP FOR OPERATION



### CAUTION

1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing its intended function. Check for binding and proper alignment of moving parts. Check for damaged, broken, or missing parts.
2. Verify the On/Off switch is in the OFF position.
3. Before connecting the MK-101-24 to a power supply, be sure the voltage, cycle and phase of the job site power source meet these requirements.

VOLTAGE:	120V
CYCLE:	60hz
PHASE:	1-phase

4. If using an extension power cord, make sure, the length and wire gauge correspond to the requirements listed in on page 9. An extension power 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.
5. Use an approved Ground Fault Circuit Interrupter (GFCI)
6. Do not cover the motor vents as this could lead to motor overheating.

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

**PORTABLE GENERATOR**

If using a portable generator, ensure the generator meets the following minimum requirements:  
 5 KW 120/240 volts 41.7/20.8 amps Single Phase

**ELECTRIC RECEPTACLE**

**NOTE:** A GFCI wall socket is the preferred protective device.



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



(B)  
Plug MK-100 into the GFCI.



(C)  
Plug the GFCI into the power source.

**Set Cutting Depth**

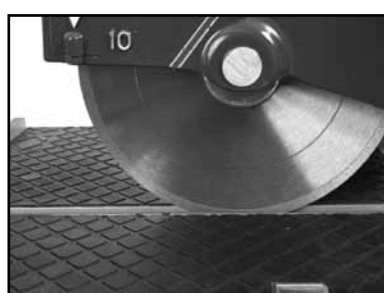


**CAUTION**

When loosening the Cutting Head Adjusting Knob, the Cutting Head will pivot down unless held.



(A)  
Loosen Cutting Head Adjusting Knob.



(B)  
Set cutting depth approximately 1/4 to 1/2 inch below the surface of the Movable Cutting Table.



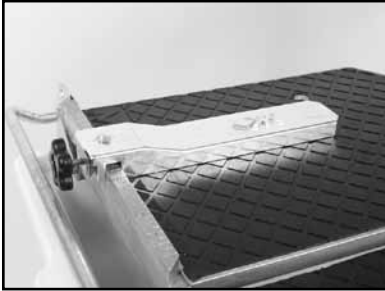
(C)  
Tighten the Adjusting Knob.

## Cutting Straight Edges



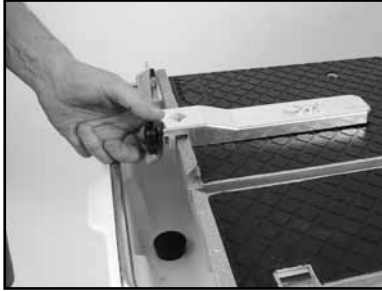
### CAUTION

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



(A)

Position the Adjustable Cutting Guide to desired cut length.



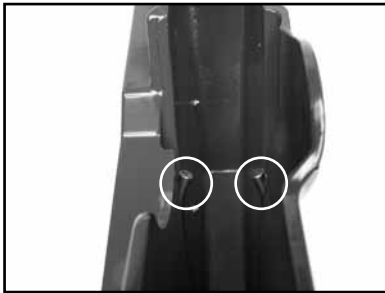
(B)

Tighten the retaining thumbscrew.



(C)

Place the tile against the Ruler/Stop and Cutting Guide. Turn the motor ON.



(D)

Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow).



(E)

Perform the cut. Turn the motor OFF when work is complete.

### Diagonal Cutting (Optional)

**NOTE:** To cut diagonal, the Dual 45° Flat Angle Guide (MK Diamond Part No. 134577-MK) should be used.

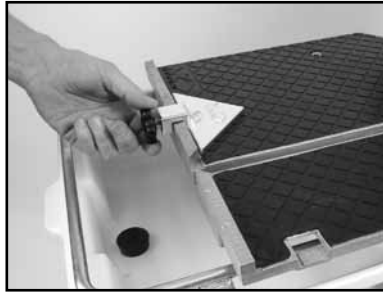


**CAUTION**

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



(A)  
Remove the Adjustable  
Cutting Guide.



(B)  
Position the Dual 45° Flat Angle  
Guide and tighten the  
retaining thumbscrew.



(C)  
Position the tile against the  
Guide and Ruler/Stop. Turn the  
motor on.



(D)  
Verify proper cooling flow on  
both sides of the blade (See  
Maintenance Section to  
increase/decrease flow).



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

### 45° Miter Cutting (Optional)

**NOTE:** To cut 45° Miters, the 45° Bullnose Miter Guide (MK Diamond Part No. 153201-MK) should be used.

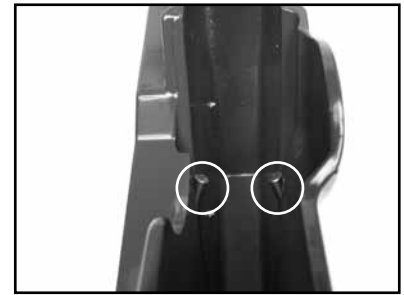
**CAUTION** **DO NOT FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.



(A)  
Position the 45° Bullnose Miter Guide and tighten the retaining thumbscrew.



(B)  
Position the tile on the 45° Bullnose Miter Guide and the Ruler/Stop. Turn the motor ON.



(C)  
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.

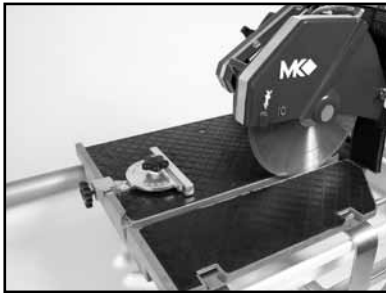
### Off-angle Cutting (Optional)

**NOTE:** To cut angles other than 45° angles or Miters, a 90° Protractor (MK Diamond Part No. 134569-MK) should be used.



#### CAUTION

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



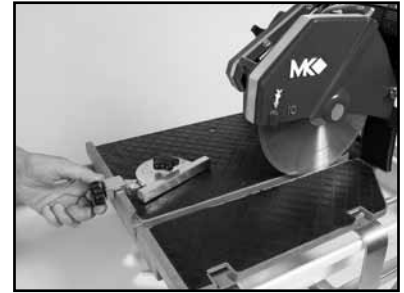
(A)

Place the 90° Protractor on the Ruler/Stop.



(B)

Set the desired angle and tighten the thumbscrew.



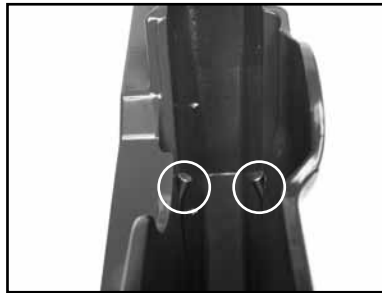
(C)

Position the 90° Protractor and tighten the retaining thumbscrew.



(D)

Position the tile against the 90° Protractor and the Ruler/Stop. Turn the motor ON.



(E)

Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow).



(F)

Perform the cut. Turn the motor OFF when work is complete.



## Adjusting the Cutting Head

**NOTE:** For larger tiles and maximum cutting length, the cutting head should be in the front pivot hole.



### CAUTION

The Cutting Head is heavy! Care must be used when changing the position of the Cutting Head.



(A)  
Ensure the ON/OFF Switch is in the OFF position. Unplug the GFCI from the power source.



(B)  
Remove the Blade.  
Remove Adjusting Knob.



(C)  
Remove the Cutting Head from the rear pivot hole.



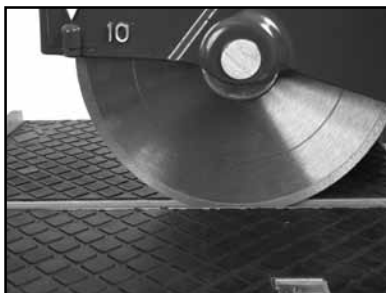
(D)  
Install the Cutting Head onto the front pivot hole.



(E)  
Remove the Cutting Head Stop Bolt. Rotate Cutting Head Stop to down position and re-tighten Cutting Head Stop Bolt.



(F)  
Install the Adjusting Knob.



(G)  
Set cutting depth approximately 1/4 to 1/2 inch below the surface of the Movable Cutting Table.

**NOTE:** For small tiles (6" tile or smaller) the Cutting Head should be in the rear pivot hole and the Post should be in the forward post retaining hole. For large tiles and maximum cutting length, the Cutting Head should be in the front pivot hole and the Post should be in the rear post retaining hole.

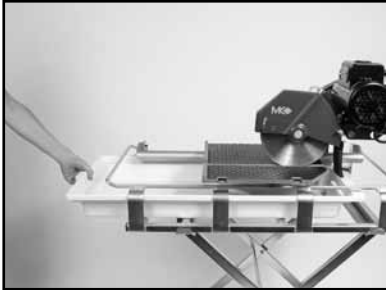
**NOTE:** Move Cutting Head Stop in upward position when using rear pivot hole and in the down position when using front pivot hole.



### Adjusting the Post for Maximum Cutting Length

**! CAUTION**

The Cutting Head and Post are heavy! Use care when changing the position of the Cutting Head.



(A)  
Remove Water Basin and Blade.



(B)  
Remove the Cutting Head (See Adjusting the Cutting Head.



(C)  
Loosen the Post Support and retaining bolts.

**! CAUTION**

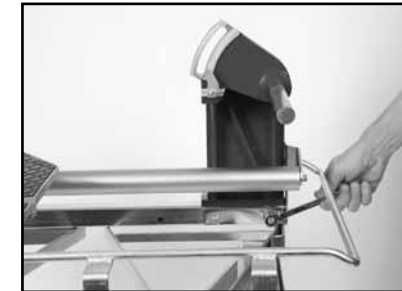
Hold the Post when removing the Post Support Plate.



(D)  
Remove the Post Support and Retaining Bolts.



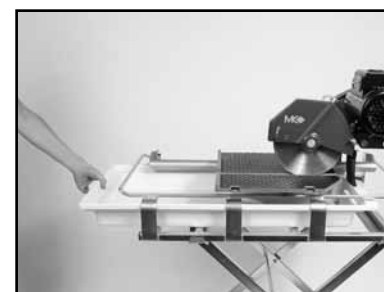
(E)  
Relocate the Post to the rear Post retaining holes.



(F)  
Install and tighten the Post Support and retaining bolts.



(G)  
Install the Cutting Head (See Adjusting the Cutting Head.



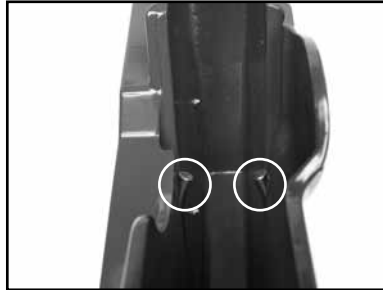
(H)  
Install the Water Basin and Blade.

## CLEANUP

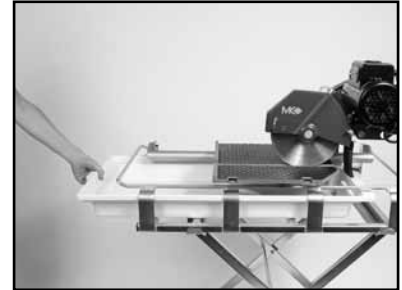
- NOTES**
1. If an external water source was used, steps A through C may be skipped.
  2. Dispose of waste water in accordance with applicable Federal, State and Local laws.



(A)  
Place the Water Pump  
in an external container.



(B)  
Run the MK-101-24 until clear  
water is seen at the blade  
cooling ports  
(Approx. 1 minute).

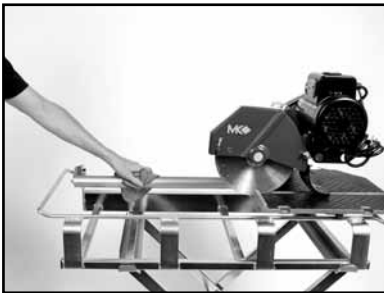


(C)  
Remove the Water Basin  
from the MK-101-24.

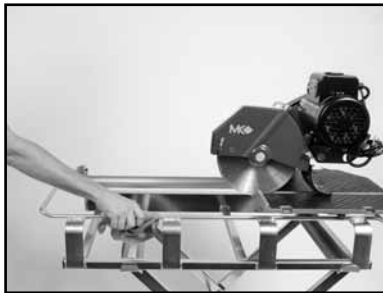


### CAUTION

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



(D)  
Clean the Movable Cutting  
Table Guide Bar.



(E)  
Clean the Movable Cutting  
Table Roller Wheel Frame  
Support.



(F)  
Clean the remainder of the  
MK-100



### CAUTION

Ensure water is not forced into the motor casing when cleaning.

**MAINTENANCE**

---

Perform the following after initial purchase and operation of the MK-101-24.



(A)

Check and adjust V-belt tension following first 48 hours of operation (See V-belt Inspection).

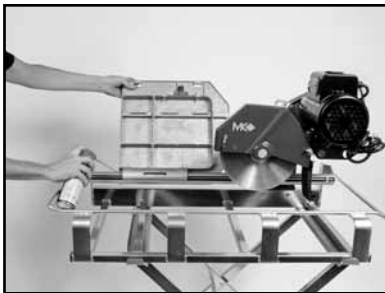
**Maintenance Following Use**

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To extend the life of the MK-101-24, 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.

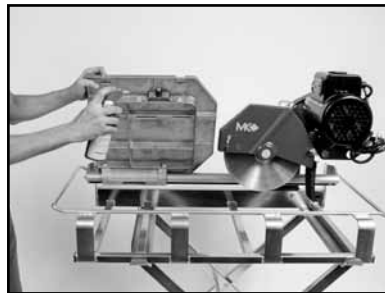
**CAUTION**

Ensure the saw is off and disconnected before performing any maintenance.



(A)

Lubricate the Guide Bar.



(B)

Lubricate the Roller  
Wheel Assembly.

**Monthly Maintenance**

The following maintenance should be performed Monthly.



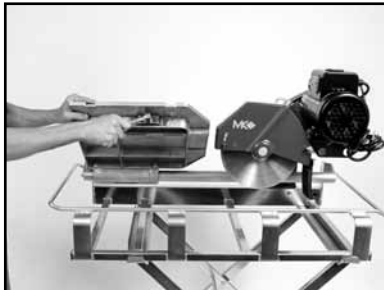
(A)  
Remove the Diamond Blade.



(B)  
Lubricate the Outer Flange  
and Retaining-nut.



(C)  
Lubricate the Arbor Shaft.



(D)  
Verify the Roller Wheel  
Assembly is tight and in  
good condition.



(E)  
Verify all motor mounting  
Bolts are tight.



(F)  
Verify the Motor Adjustment  
Strap is tight.



(G)  
Remove the Blade Guard.



(H)  
Lubricate the Blade Guard  
Pivot Shaft.



(I)  
Remove the Cutting Head (See  
Adjusting the Cutting Head).



(J)  
Lubricate the Cutting Head  
Adjustment Knob.



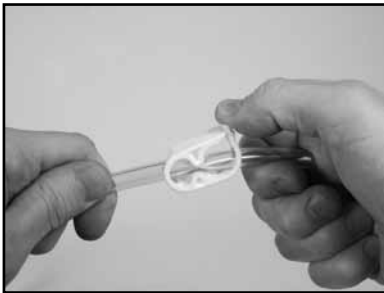
(K)  
Lubricate the Cutting Head  
Adjustment Knob retaining  
holes.



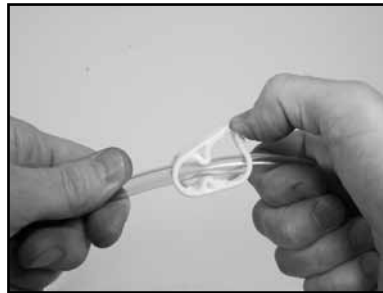
(L)  
Lubricate the Cutting Head  
Pivot Shaft.

## Flow Adjustment

**NOTE:** If flow to the diamond blade requires adjustment, perform the following actions.



(A)  
Increase cooling flow by releas-  
ing the Flow Adjusting Clamp.



(B)  
Reduce cooling flow by  
Pressing down on the Flow  
Adjusting Clamp.

## 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 (MK Diamond Part No 152792) and by following the steps below.



(A)  
Setup the MK100 for operation  
(See Setup, Adjustment  
and Operation).



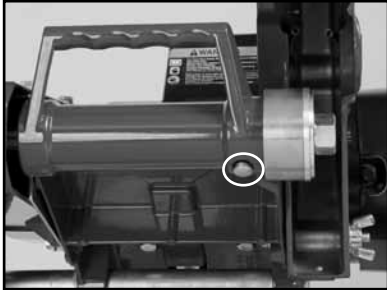
(B)  
Set the Adjustable Cutting  
Guide to cut a 1/16-strip.



(C)  
Position the Dressing Stick. Cut  
2 or 3 strips from the dressing  
stick to dress the Blade.

## Diamond Blade Change-out

**NOTE:** When installing the Retaining Nut, do not "cross-thread" and DO NOT over tighten the nut.



(A)

Locate the Shaft Lock push button on the underside of the Cutting Head



(B)

Remove Retaining Nut and Outer Flange, depress and hold the Shaft Lock hold button and loosen



(C)

Remove the Diamond Blade



(D)

Install the new Diamond Blade onto Blade Shaft. Install Outer Flange and Retaining Nut



(E)

Verify the Blade is seated on the Blade Shaft and direction of rotation is correct



(F)

Depress and hold the Shaft Lock button and tighten Retaining Nut



### Micro-V Belt Inspection, Adjustment and Replacement

The MK-101-24 is designed with power transmission Micro-V Belt. In order to ensure the MK-101-24 operates a peak efficiency, the Micro-V Belt should be inspected monthly, and changed if the Micro-V Belt shows damage and/or excessive wear.

**NOTE:** When a new belt is installed, it should be inspected and re-tensioned after the first forty-eight (48) hours of operation.



(A)  
Remove the Diamond Blade



(B)  
Remove the Cutting Head (See  
Adjusting the Cutting Head)



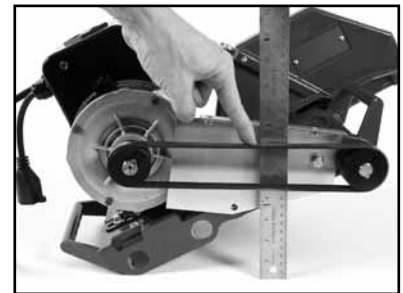
(C)  
Remove the two top Belt Guard  
Bolts



(D)  
Remove Belt Guard bottom bolt



(E)  
Inspect the Micro-V Belt for cracks,  
fraying, separation and wear. Go to  
step H if replacement is required



(F)  
Check belt for proper tension. If tension  
correct, go to step Q (proper tension  
should be 1/8-inch  
deflection)



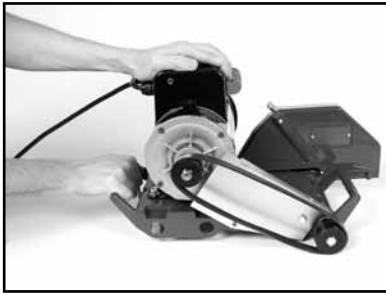
(G)  
Loosen the two front motor  
mounting bolts. If re-tensioning  
only, go to step N



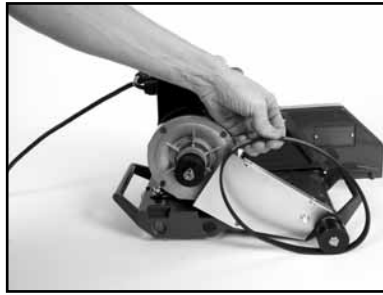
(H)  
Loosen the two back motor  
mounting bolts



(I)  
Loosen the Motor Adjustment Strap



(J)  
Push the motor toward the front of the Cutting Head to loosen the Micro-V Belt



(K)  
Remove the Micro-V Belt



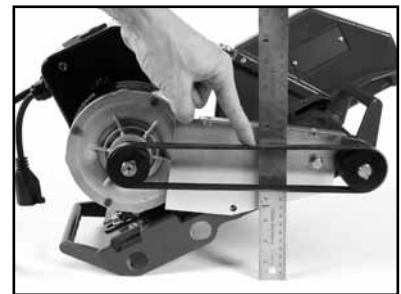
(L)  
Install the new Micro-V Belt (MK Diamond Part No. 158194)



(M)  
Verify the Micro-V Belt is seated in the grooves of both pulleys



(N)  
Tighten the Motor Adjustment Strap to remove slack



(O)  
Check Micro-V Belt tension (proper tension 1/8-inch) Repeat steps N and O until proper Micro-V Belt tension is achieved



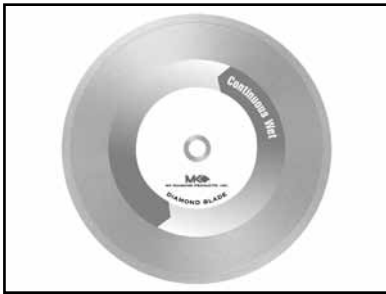
(P)  
Tighten the four motor mounting bolts



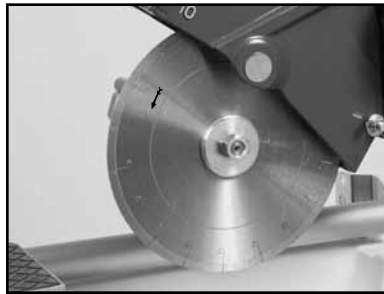
(Q)  
Install the Belt Guard



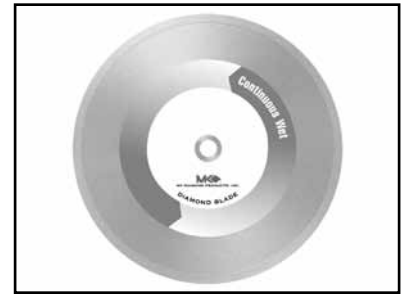
### Blade will not cut properly



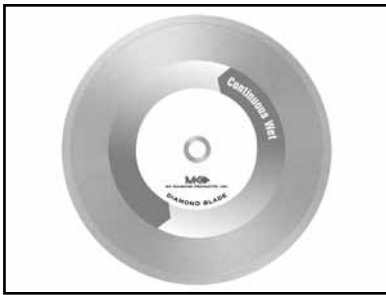
(A)  
Check for Smoothness  
or "Glazing" (Dress blade  
if needed).



(B)  
Check for proper blade rotation.



(C)  
Ensure the Blade Core  
is not bent.



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

### Movable Cutting Table Does Not Move Correctly

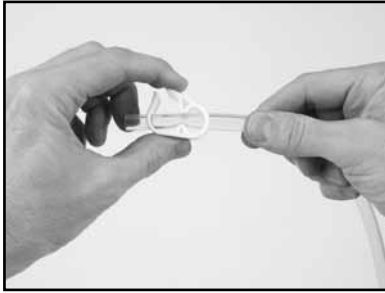


(A)  
Check the Guide Bar and  
Frame for cleanliness –  
clean if dirty.



(B)  
Check the Movable Cutting  
Table Roller Wheels for wear –  
replace if necessary.

## Cooling Flow



(A)  
Verify the cooling flow  
Adjusting Clamp is open. If flow  
exists, go to Step B.



(B)  
Remove the Cooling Transfer  
Tube from the Blade Guard  
inlet. Go to Step C.



(C)  
Place Pump into a bucket of  
water and check flow. If flow  
exists, go to Step D.



(D)  
Remove the Cooling Transfer  
Tube and check for flow. If flow  
exists, refer to water pump  
manual.



(E)  
Remove the Blade Guard  
Intake Fitting. Go to Step F.



(F)  
Remove the Cooling Channel  
cover screws. Go to step G.



(G)  
Rod the Cooling Channels  
and then recheck flow.

**NOTE:** “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.

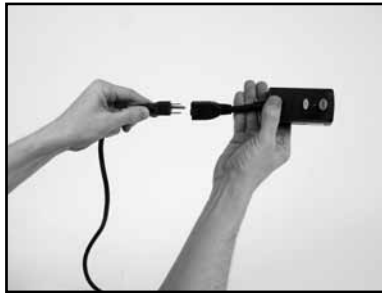
## Blade Stops Turning

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(A)

Allow motor to cool and depress motor Overload Reset Switch



(B)

Verify all plugs fully installed.  
Check Ground Fault Circuit Interrupter

**NOTE:** Verify circuit breaker at least 20 amps - if not, move to 20-amp circuit.  
Verify circuit breaker not tripped. If tripped, reset once.  
Check power source voltage is 120V - if not 120V, move to another circuit.

## Blade Alignment Procedure

---

The Movable Cutting Table of the MK-101-24 may become misaligned with the Cutting Head of the Tile Saw over time. Should misalignment occur, perform the following steps to realign the Tile Saw.

**NOTE:** If alignment problems are the result of a warped blade, a bent frame or bent support arm, or, if alignment is off by more than 1/8-inch, contact the MK Diamond Service Center – (800) 474-5594

## Tools Needed

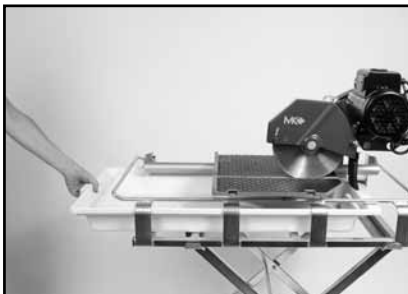
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(A)  
 Combination square (square)  
 12-inch or greater. 1/2-inch  
 Wrench or MK Triple Hole Box  
 Wrench and MK Open  
 End Wrench.

## Preparation

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(A)  
 Remove Water Pan.



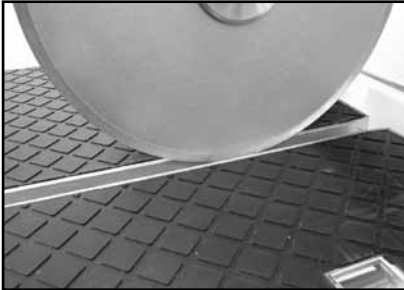
(B)  
 Inspect Diamond Blade  
 for damage.



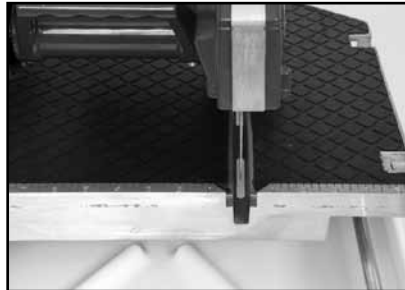
(C)  
 Loosen front and rear  
 Guide Bar Retaining Bolts.

**Horizontal Rough Alignment**

The Horizontal alignment will ensure that straight cuts (or Rip Cuts) are made.



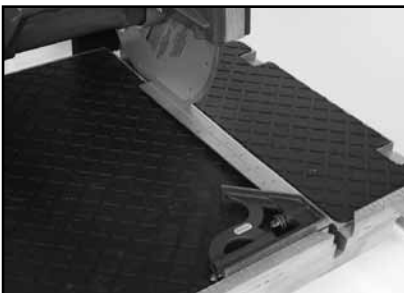
(A)  
Position Cutting Head to normal Cut Depth.



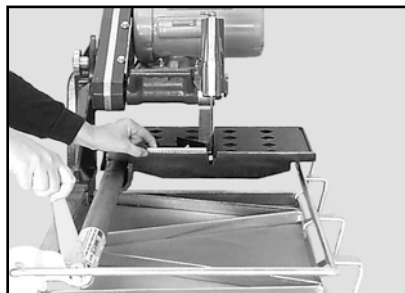
(B)  
Move Guide Bar until Blade is centered in Cutting Groove. Tighten rear guide bar retaining bolt.



(C)  
Pull Movable Cutting Table to front of Tile Saw.



(D)  
Position Square flat on Movable Cutting Table against Ruler/Stop. Position front of Square against Blade.



(E)  
Move Guide Bar until Square rests evenly across Blade.

**Horizontal Alignment Verification**



(A)  
Move the Cutting Table back and forth to verify Blade is even across all points of Square.



(B)  
Tighten Guide Bar Retaining Bolts.



(C)  
Move the Cutting Table back and forth to re-verify Blade is even across all points of Square.

## 90° Alignment Verification

90°-alignment verification ensures the blade cuts tile straight up and down and not at an angle. The Diamond blade must be removed and reinstalled when removing the blade guard.

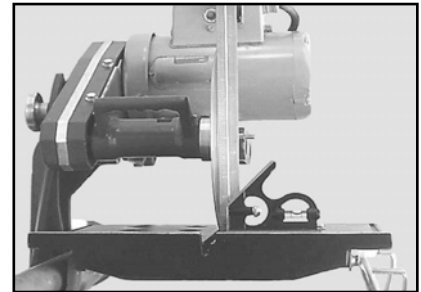
**NOTE:** If the blade is misaligned following 90°-alignment verification, return the saw to MK Diamond for repair.



(A)  
Remove Blade Guard and  
water pan.



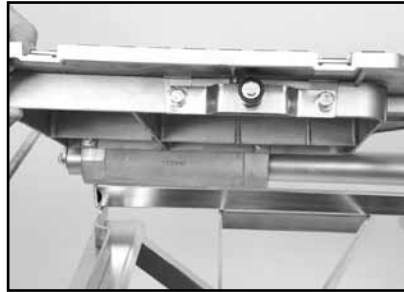
(B)  
Position Square on Movable  
Cutting Table against  
the Diamond Blade.



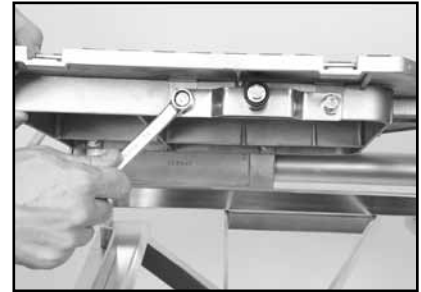
(C)  
Verify the Diamond  
Blade is Square to the  
Movable Cutting Table.



(D)  
If not Square, loosen Movable  
Cutting Table Wheel Assembly  
to adjust.



(E)  
Move Wheel Assembly  
up or down to Square the  
Movable Cutting Table.

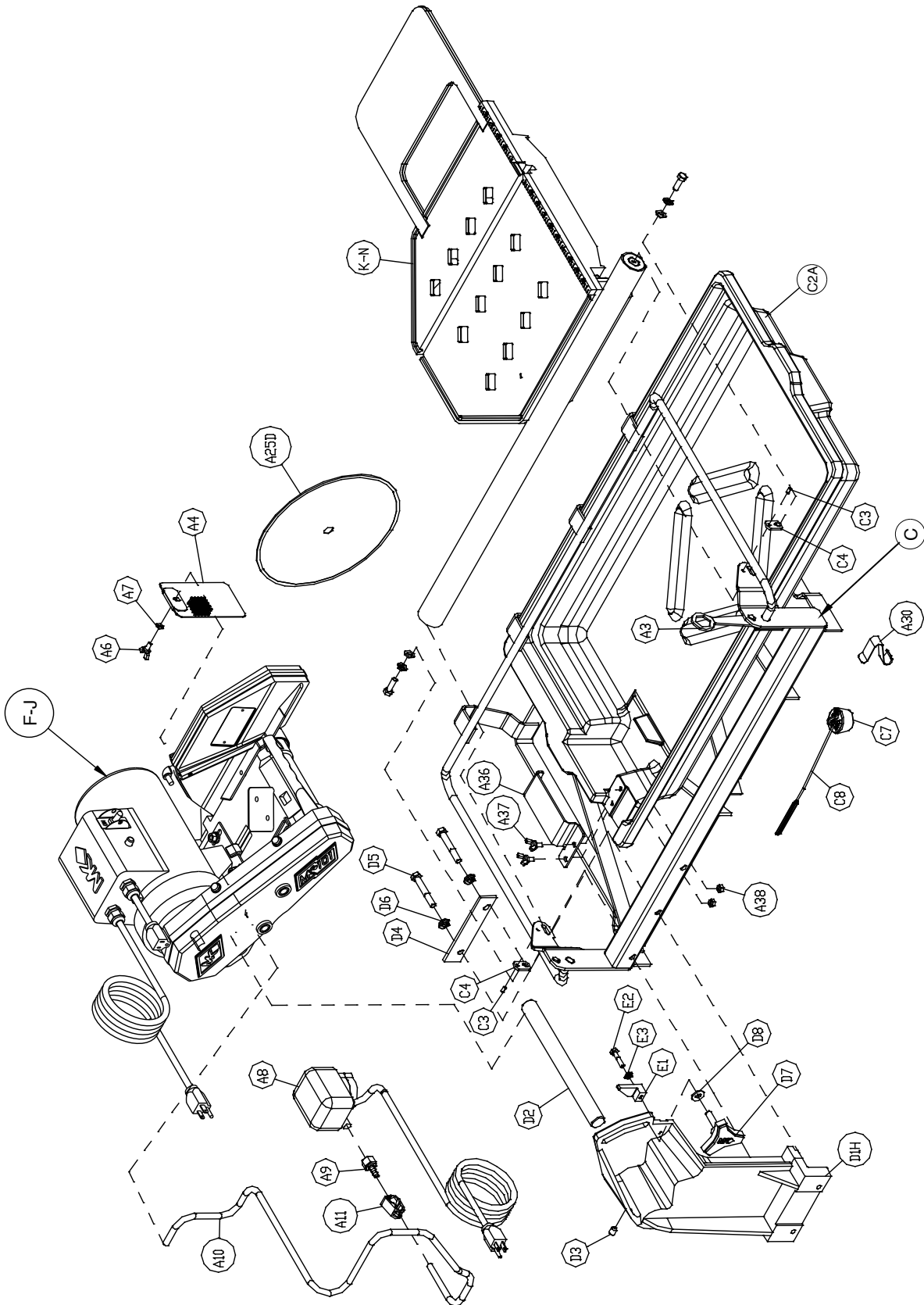


(F)  
After Squaring, tighten Movable  
Cutting Table Wheel Assembly.



(G)  
Re-verify the Diamond Blade  
is Square to the Movable  
Cutting Table.

## NOTES





Cutting Head Assembly  
Part# 158191

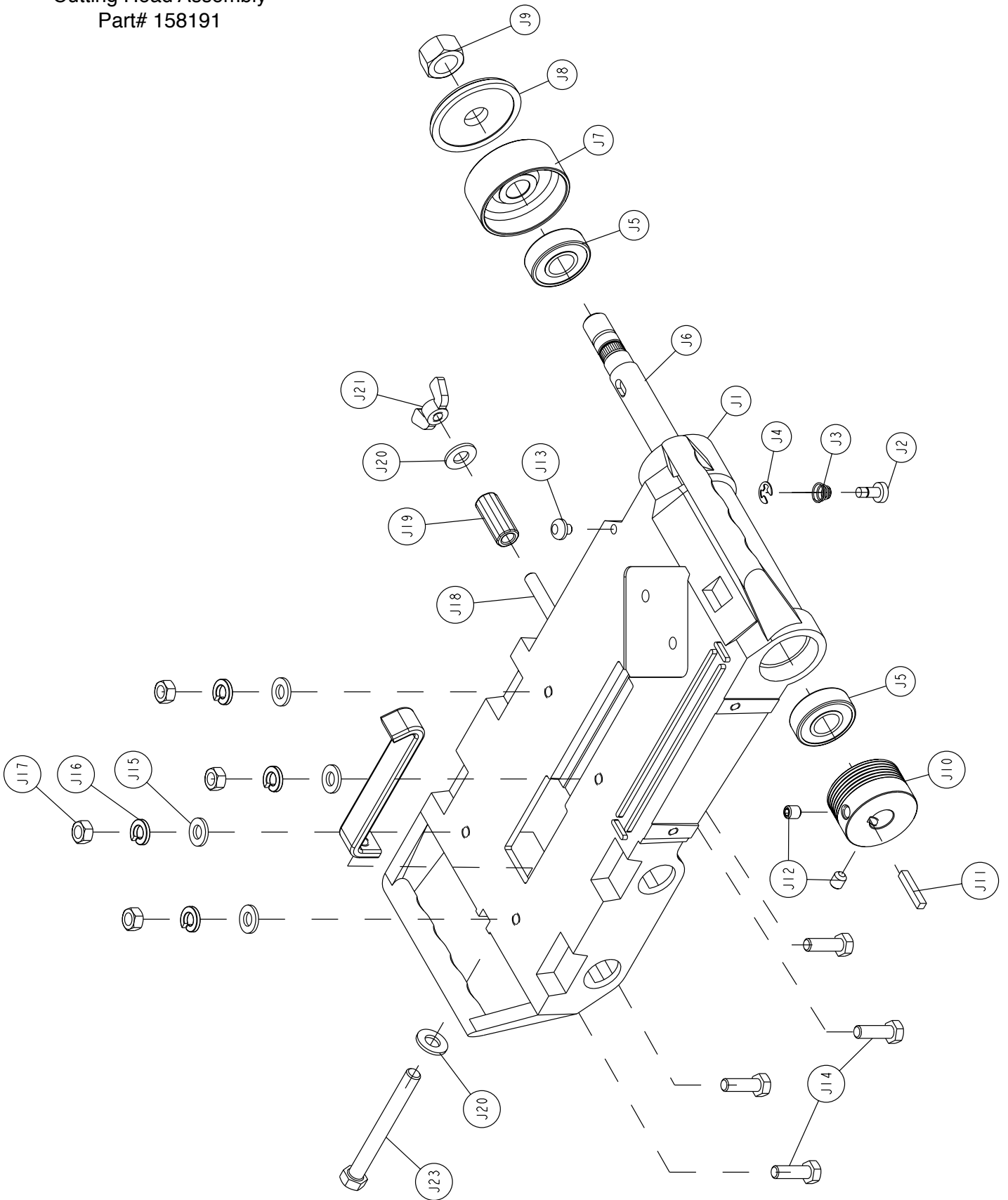
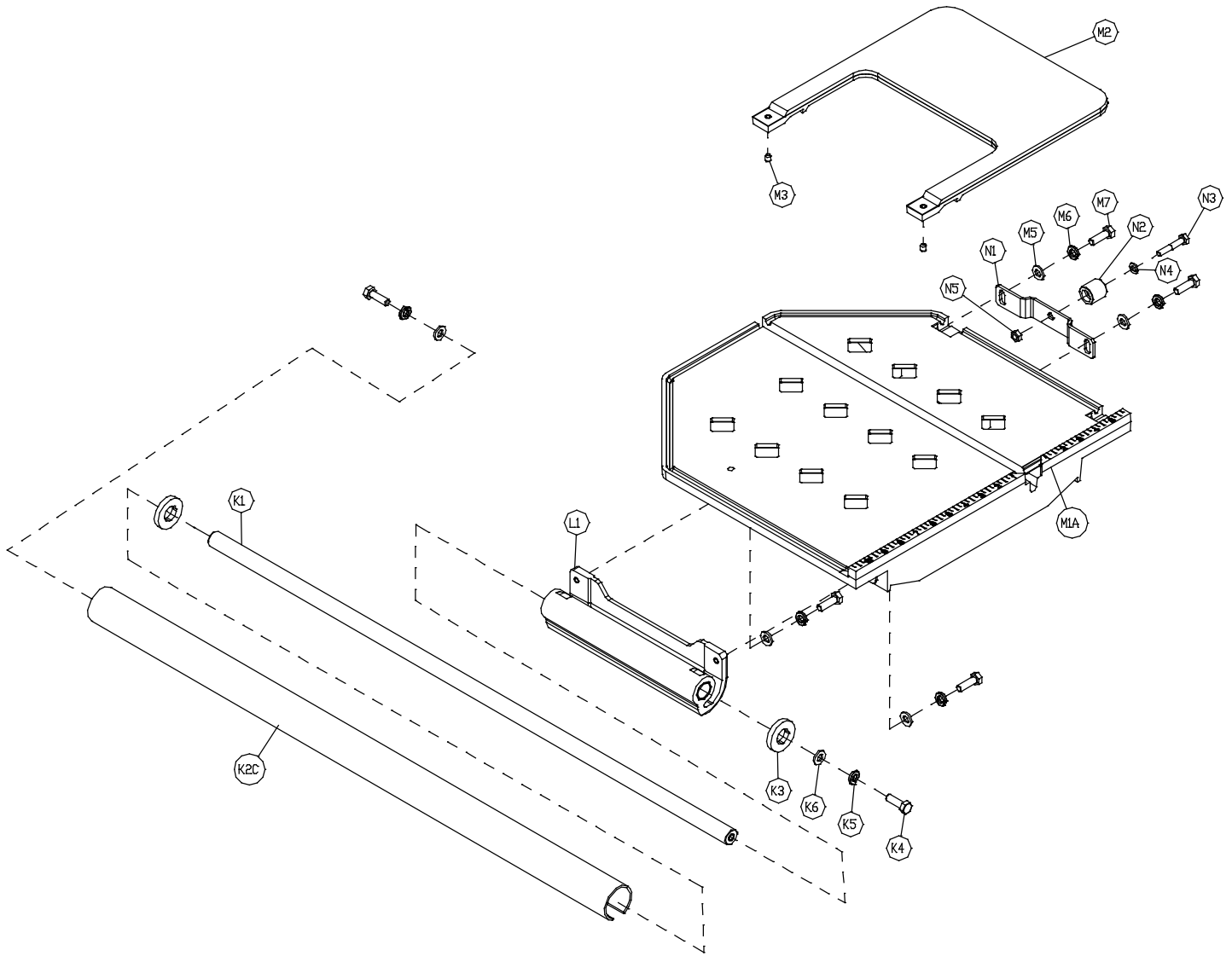


TABLE ASSEMBLY  
Single Roller Wheel



ITEM NO.	DESCRIPTION	PART #	QTY. REQ.
A	Accessories	-	-
A1	Carton, Accessory Pack, 101	153366	1
A1A	Carton, Accessory Pack, PL-101	154176	1
A2	Foam, Accessory Pack Carton	154022	1
A3	Wrench, 15/16 Closed End	134684	1
A4	Guard, Splash	160310	1
A6	Wingscrew, 1/4-20X1/2	151888	1
A7	Washer, 1/4 SAE Flat	151915	1
A8A	Pump, Water	151271-VP	1
A9	Fitting, Plastic, 1/4 FNPT X 1/4 BARB	128397	1
A10	Hose, Vinyl, 1/4 ID	132951	6
A11	Clamp, Flow, 1/4-1/2	154394	1
A13	Rip Guide, Large Die Cast	159751	1
A21	Card, MK Warranty Registration	155037	1
A21A	Card, Rental Saw Warranty Registration	155666	1
A22	Label, Do Not Return	157063	1
A23	Sell Sheet, Tile Accessory	156915	1
A24	Stand, Folding, Universal, w/carton (156035)	168244	1
A24B	Stand, with Caster	169213	1
A25	Blade, MK-100, 10X060X5/8	154380	1
C	Frame	168021-24	-
C2A	Pan, Plastic, Pro-24	153262	1
C3	Pin, 3/16 X 3/8 Roll	151783	2
C4	Plate, Adjustment	151758	2
C5	Plug, Rubber Drain	153439	1
C7	Drain Plug	159529	1
C8	Strap, 9" Drain Plug	159530	1
D1H	Post, 101 Pro	158405	1
D2	Shaft, 10.63" Pivot, 101	153254	1
D3	Screw, 3/8-16 X 1/2 Socket Head Set	153710	1
D4	Plate, Support	155671	1
D5	Screw, 3/8-16 X 21/2 Hex Head Cap	156030	2
D6	Washer, 3/8 Split Lock	150925	2
D7	Knob, 3/8-16 X 1.5 MK Adjustment	156770-02	1
D8	Washer, 3/8 SAE Flat	150923	1
E	Stop, Cutting Head	-	-
-	Kit, Stop, 10" Cutting Head	157728-MK	1
E1	Stop, 10" Cutting Head	157728	1
E2	Screw, 1/4-20 X 11/4 Hex Head Cap	157145	1
E3	Washer, 1/4 Split Lock	152591	1
E4	Sheet, Cutting Head Stop Instruction	157728-IS	1
F	Belt Guard	158319-00	-

ITEM NO.	DESCRIPTION	PART #	QTY. REQ.
F2	Bracket, Inner Belt Guard, 100/101	158611	1
F3	Screw, 1/4-20x3/4 Hex Head Cap	152370	3
F4	Screw, 1/4-20 x 1 Hex Head Cap	152676	1
F5	Washer, 1/4 Split Lock	152591	4
F6	Washer, 1/4 SAE Flat	151915	4
F7	Belt, 260J6 Micro-V	158194	1
G	Blade Guard Assembly	162481	-
G2	Tube, Water	155389	2
G3	Screw, 5/16-18 X 1/2 Socket Head Set	152607	3
G4	Elbow, 1/8 MNPT X 1/4 BARB 90° Brass	154652	1
H	Motor	168022	-
H2	Pulley, 6J17 X 5/8 Bore	158214	1
H3	Key, 3/16 x 3/16 x 1-1/8 Square	150344	1
H4	Screw, 5/16-18 X 3/8 Socket Head Set, Cup Point	157083	2
H5	Label, Warning most motor..., 2 3/4 X 2 7/16	155672	1
H6	Label, Caution, GFCI, 1 X 2 1/8	155678	1
H7	Label, Caution, 5Amp Max., 1 X 2-1/8	154822	1
H8	Label, Warning, Read Owner's Manual, 1-3/4 X 3-3/8	155806	1
H9	Label, MK Service Info., 2 1/8 X 1-13/16	155038	1
H10	Label, MK Checklist	157459	1
H10A	Label, HD Checklist	155231	1
H10B	Label, EH Checklist	155301	1
J1	Cutting Head	158224	1
J2	Pin, Blade Shaft Lock	158200	1
J3	Spring, Blade Guard Lock	158201	1
J4	Ring, Retraining, 1/4	158202	1
J5	Bearing, Ball 17MM X 40MM X 12MM	137711	2
J6	Shaft, Blade	158222	1
J7	Flange, Inner	137737	1
J8	Flange, Outer	135830	1
J9	Nut, Hex, 5/8 - 18	135848	1
J10	Pulley, 6j19 x 5/8 Bore	158199	1
J11	KEY, 3/16 SQ X 1 - 1/8	150344	1
J12	Screw, Socket Head Set, Cup Point, 5/16 -18 x 3/8	157083	2
J13	Bumper, Rubber, 1/2 dia.	152674	1
J14	Screw, Hex Head, 5/16 - 18 x 1	151743	4
J15	Washer, 5/16 Sae Flat	151754	4
J16	Washer, 5/16 Split Lock	151747	4
J17	Nut, Hex 5/16 - 18	101196	4
J18	Screw, Hex Head Tap, 5/16 - 18 X 2-1/2	151748	1
J19	Pivot, Blade Guard	153208	1
J20	Washer, 3/8 Sae Flat	150923	2
J21	Wingnut, Nylok, 5/16 - 18	151746	1
J22	Strap, Motor Adjustment	152373	1
J23	Screw, Hex Head Tap, 3/8 - 16 X 3-1/2	153147	1
K2A	Cover, Guide Bar, 101 Pro 24	153219	1

ITEM NO.	DESCRIPTION	PART #	QTY. REQ.
K3	Spacer, Guide Bar Cover, 101	152393	2
K4	Screw, 5/16-18 X 1 Hex Head Cap	151743	2
K5	Washer, 5/16 Split Lock	151747	2
K6	Washer, 5/16 SAE Flat	151754	2
L	Linear Bearings	-	-
L1	Linear Bearing, 101	135855	1
L2	Screw, 5/16-18 X1 Hex Head Cap	151743	2
L3	Washer, 5/16 Split Lock	151747	2
L4	Washer, 5/16 SAE Flat	151754	2
M1A	Table	161182	-
M2	Table Extension, 101 Pro	162075	1
M3	Screw, 1/4-20 X 1/2 Socket Head Set	155804	2
M4	Shim, .004 X 5/16 ID X 1/2 OD	152519	4
M5	Washer, 5/16 SAE Flat	151754	2
M6	Washer, 5/16 Split Lock	151747	2
M7	Screw, 5/16-18 X 1 Hex Head Cap	151743	2
M9	Screw, 1/4-20 X 5/16 Socket Head Set	154226	2
N	Roller Wheel	-	-
-	Assembly, Roller Wheel	151756	1
N1	Bracket, Roller Wheel	154021	1
N2	Wheel, Roller	151799	1
N3	Screw, 1/4-20 X 1 1/2 Hex Head Cap	151914	1
N4	Washer, 1/4 SAE Flat	151915	1
N5	Nut, 1/4-20 Hex	151893	1

## NOTES

## THEORY OF DIAMOND BLADES

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Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material. This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized. Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of “controlled bond erosion”.



### Types of Cutting

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on



- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of “free-spinning” (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut



ITEM	NUMBER	DESCRIPTION	
1.	137166	MK-200. 10" X 5/8" ARBOR Premium grade Diamond Blade for smooth, chip-free cutting on tile.	
2.	128074	MK-215, 10" X 5/8" ARBOR Supreme grade diamond blade for hard materials	
3.	153252	MK-315, 10" X 5/8" ARBOR Supreme super hi-rim diamond blade	
4.	134577-MK	DUAL 45° FLAT ANGLE GUIDE	
5.	153201-MK	45° MITER	
6.	134569-MK	90° PROTRACTOR	
7.	152792	DRESSING STONE	
8.	152610	GROUND FAULT CIRCUIT INTERRUPTER	
9.	168244	SAW STAND	

**ORDERING INFORMATION**

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

**NOTE:** There is a \$25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA, MasterCard or American Express.

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

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**

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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**

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- Remove the Cutting Head and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-101, 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**

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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](http://www.mkdiamond.com). For technical questions, call – 800 474-5594.

## NOTES

## NOTES

**MK-101-24 TILE SAW**  
**OWNERS MANUAL & OPERATING INSTRUCTION**



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