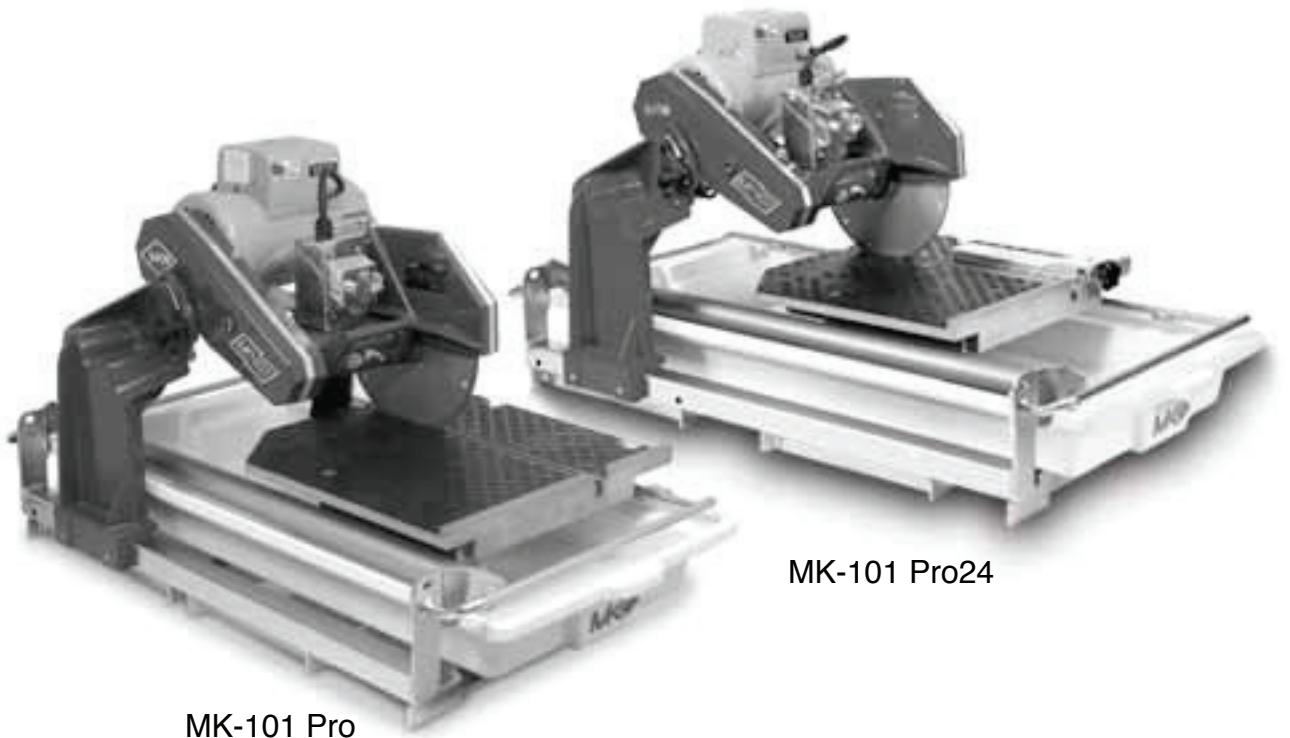


MK-101 Pro and MK-101 Pro 24 Tile Saw OWNERS MANUAL & OPERATING INSTRUCTIONS



MK-101 Pro

MK-101 Pro24

Revision 204	10.2011
Manual Part No. 158808	

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 Pro Series 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 Pro or MK-101 Pro 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 MK-101 Pro Series 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:

MODEL NUMBER:	
SERIAL NUMBER:	
PURCHASE PLACE:	
PURCHASE DATE:	


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.

TABLE OF CONTENTS

	Page
SAFETY:	4
Safety Messages	4
Damage Prevention Message	4
California Proposition 65 Message	6
General Safety Precautions and Hazard Symbols	7
Electrical Requirements and Grounding Instructions	8
Safety Label Locations	10
Tile Saw Specific Warnings	10
Product Specifications	11
UNPACKING, TRANSPORT, UNIVERSAL STAND, and ASSEMBLY	
Unpacking	12
Contents	12
Transport	12
Universal Stand	13
Assembly	14
SETUP, ADJUSTMENT and OPERATION	
Setup	17
Adjustment and Operation	20
Cleanup	26
MAINTENANCE and TROUBLESHOOTING	
Maintenance	27
Troubleshooting	34
EXPLODED VIEW and PARTSLIST	
Exploded View	40
Parts List	46
THEORY	
Theory of Diamond Saws	51
ACCESSORIES	
Accessories	52
ORDERING and RETURN INSTRUCTIONS	
Ordering Information	53
Return Material Policy	53
Packaging Instructions	53
Authorized Service Centers	53

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

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



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

**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.

HARZARD SYMBOLS

**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

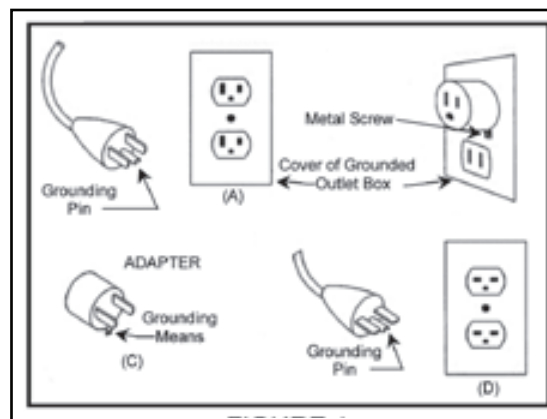
In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that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

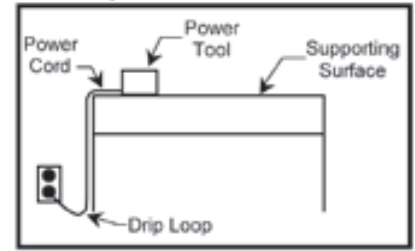
This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A. The tool has a grounding plug that looks like the plug illustrated in Sketch A. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug 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.



! 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.



Drip Loop Information

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 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.

CAUTION
 Receptacle is for water pump only. 125V, .6 amps max.

Label A

CAUTION
 This saw is to be used with a Ground Fault Circuit Interrupter.

Label B

FOR INFORMATION ON
SERVICE OR WARRANTY
 PLEASE CALL
 1-800-474-5594

Label C



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.

WARNING
 For Your Own Safety Read Instruction Manual Before Operating Saw.
 Wear Eye Protection.
 Disconnect Saw Before Servicing, when Changing Cutting Wheels and Cleaning.
 Use Tool Only with Smooth Edge Cutting Wheels Free of Openings and Grooves.
 Replace Damaged Cutting Wheel Before Operating. Do Not Fill Water Bath Above Water Fill Line. See Manual for Pump Replacement.

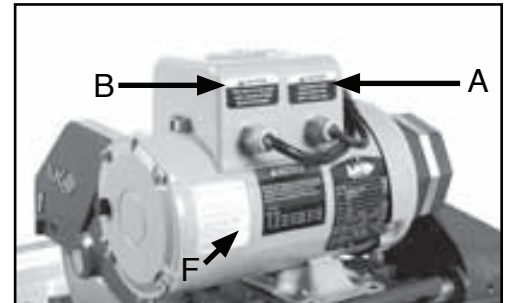
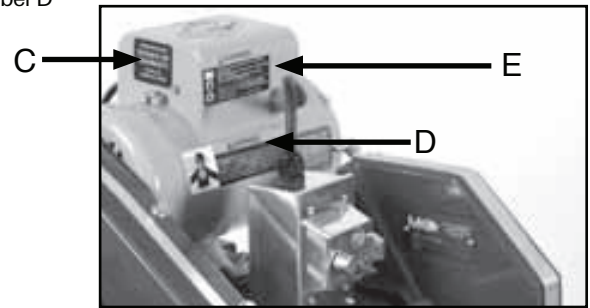
Label E

NOTICE
 Most Motor Problems are caused by improper voltage and extension cords. Cord should be one-piece and short as possible. Cord selection should match the following table.

1-2 H.P.			
115v	230v		
25'	100'	Max. Cord Length	No. 12 Wire
50'	150'	Max. Cord Length	No. 10 Wire
75'	250'	Max. Cord Length	No. 8 Wire

Label F

Label D



Tile Master Label Sheet Part#166012

Decal/Label	Location	Description
A	Motor - Back	Caution - Receptacle is for Water Pump Only
B	Motor - Front	Caution - Use with GFCI outlet only
C	Motor - Side	Service/ Warranty
D	Cutting Head - Front	Warning - Silica Warning
E	Motor - Side	Warning - Read Owners Manual
F	Motor - Back	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.

MK-101 PRO SERIES PRODUCT SPECIFICATIONS

The MK-101 Pro Series are versatile Tile Saws. Operated and used according to this manual, the unit will provide years of dependable service.

The MK-101 Pro and the MK-101 Pro 24 are engineered as table top or stand mounted wet tile saws. The saws include a powerful 120v totally enclosed capacitor start motor with a thermal protective overload. The MK-101 Pro 24 includes a powerful 120v or 240v motor.

SPECIFICATIONS

Specifications for the MK-101 Pro.

Voltage	120v	240v
Overall Amperage	14.3a	9a
Frequency	60Hz	50Hz
Blade RPM	3450	3450
Horse Power	1-1/2 hp	1-1/2 hp
Weight	109lbs	109lbs
Blade Capacity	10" (254 mm)	10" (254 mm)
Arbor Size	5/8" (16 mm)	5/8" (16 mm)
Depth of Cut (10" Blade)	3" (76 mm)	3" (76 mm)
Length of Cut	20"	20"
Diagonally Cuts	14" Tile	14" Tile
LxWxH (inches)	36" x 22" x 23"	36" x 22" x 23"
LxWxH (mm)	914 x 559 x 584	914 x 559 x 584
Part #	155747	168502

SPECIFICATIONS

Specifications for the MK-101 Pro 24.

Voltage	120v	240v
Overall Amperage	13a	9a
Frequency	60Hz	50Hz
Blade RPM	3450	3450
Horse Power	1-1/2 hp	1-1/2 hp
Weight	130lbs	130lbs
Blade Capacity	10" (254 mm)	10" (254 mm)
Arbor Size	5/8" (16 mm)	5/8" (16 mm)
Depth of Cut (10" Blade)	3" (76 mm)	3" (76 mm)
Length of Cut	24"	24"
Diagonally Cuts	18" Tile	18" Tile
LxWxH (inches)	41" x 22" x 23"	41" x 22" x 23"
LxWxH (mm)	1,014 x 559 x 584	1,014 x 559 x 584
Part #	153243	156128

UNPACKING, TRANSPORT, UNIVERSAL STAND AND ASSEMBLY

UNPACKING

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

! CAUTION Use proper lifting techniques when lifting the MK-101 PRO SERIES.

CONTENTS

In your container, you will find one (1) MK-101 frame and water basin, one (1) MK-101 Cutting Head, one (1) 10-inch wet cutting continuous rim diamond blade, one (1) adjustable cutting guide, one (1) electric water pump, one (1) protractor, one (1) dual flat 45° angle guide, one (1) 45° miter, one (1) blade wrench, one (1) splash guard, one (1) cooling transfer tube, one (1) flow adjusting clamp, one (1) drain plug, one (1) dressing stone, one (1) side table, one (1) owners manual, one (1) pump manual and one (1) warranty card.



MK-101 Frame and Water Basin



MK-101 Cutting Head



Diamond Blade



Adjustable Cutting Guide



Electric Water Pump



Protractor



Dual Flat 45° Angle Guide



45° Miter



Blade Wrench



Splash Guard



Cooling Transfer Tube



Flow Adjusting Clamp



Drain Plug



Dressing Stone



Side Table



Owners Manual



Pump Manual



Warranty Card

TRANSPORT

- ! CAUTION**
1. The MK-101 weighs approximately one hundred and twenty (120) pounds.
 2. Never transport the MK-101 with water in the Water Basin.

The MK-101 is designed with a rigid frame and removable Cutting Head. Two people are required to transport the MK-101 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).



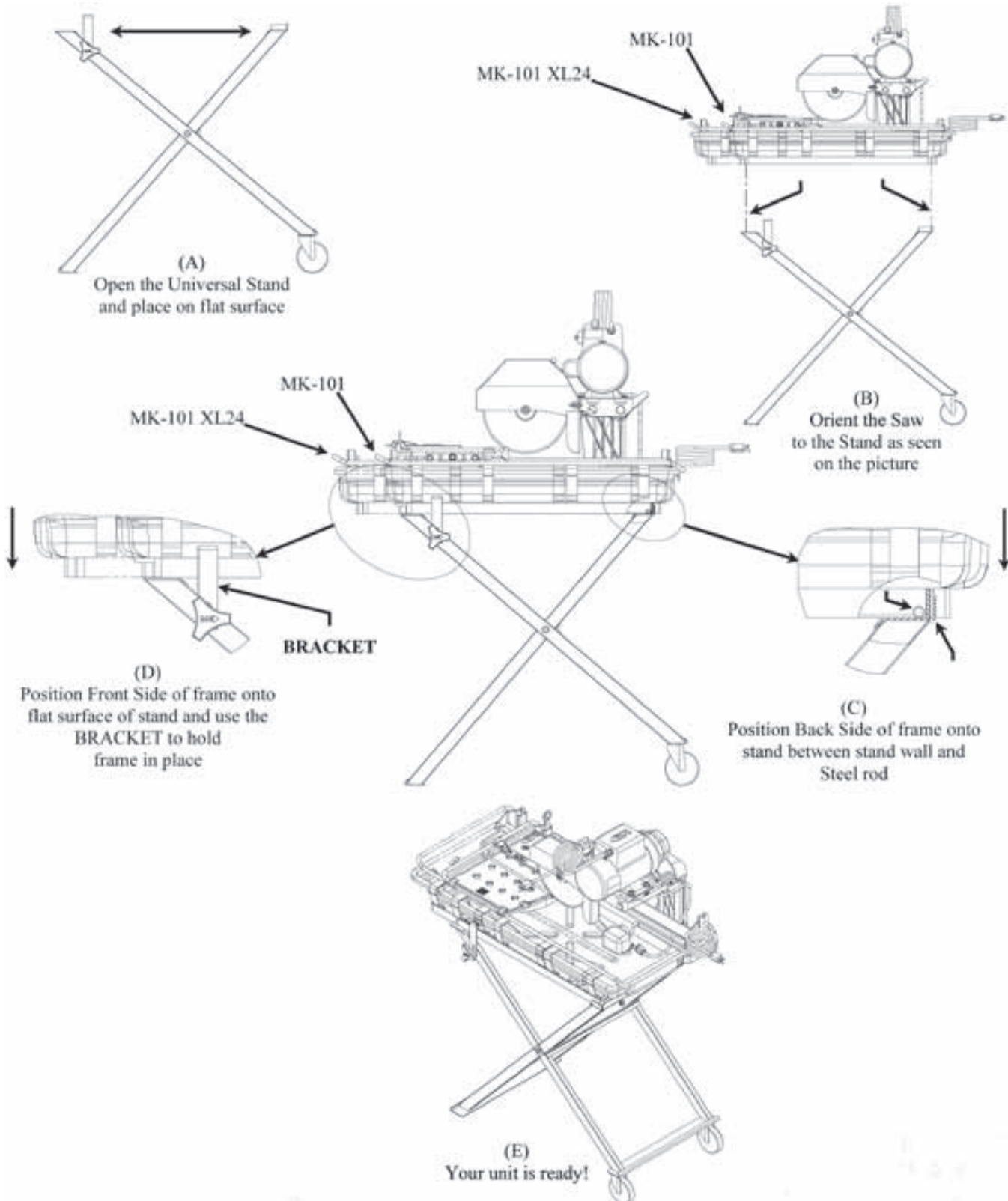
Lift the saw using the lift points shown.

UNPACKING, TRANSPORT, UNIVERSAL STAND AND ASSEMBLY

UNIVERSAL STAND

CAUTION The MK-101 PRO SERIES weighs approximately one hundred and twenty (120) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.

Note: If using the MK Diamond, Universal Stand, follow the following steps.



UNPACKING, TRANSPORT, UNIVERSAL STAND AND ASSEMBLY

ASSEMBLY

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

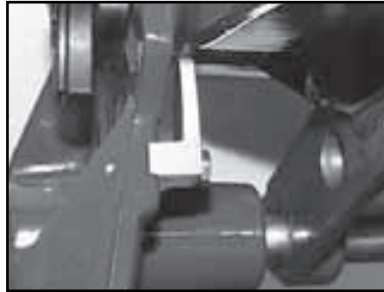
Cutting Head Installation:

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



(A)

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



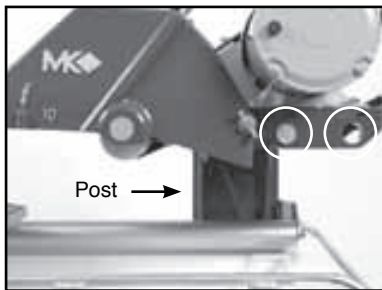
(B)

Ensure Cutting Head Stop is in upward position.



(C)

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



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.

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.

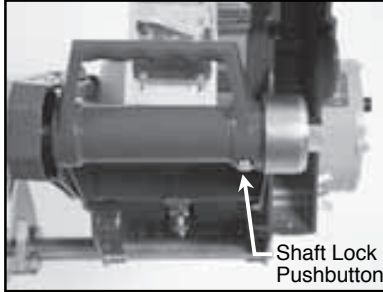
UNPACKING, TRANSPORT, UNIVERSAL STAND AND ASSEMBLY

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 and raise the Blade Guard by loosening the wingnut.



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



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



(D)
Install Diamond Blade onto Blade Shaft.



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



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

UNPACKING, TRANSPORT, UNIVERSAL STAND AND ASSEMBLY

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)

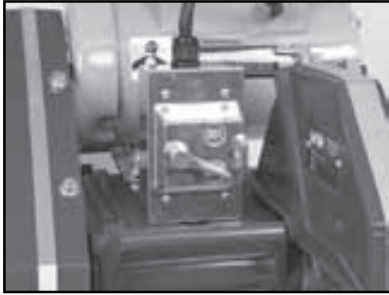
Slide Cooling Flow Adjusting Clamp onto the Cooling Transfer Tube.

SETUP, ADJUSTMENT AND OPERATION

SETUP

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.



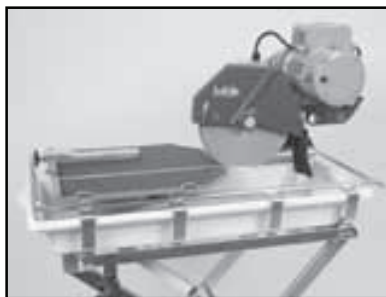
(B)
Verify the Movable Cutting Table moves freely.



(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 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 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.

SETUP, ADJUSTMENT AND OPERATION

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, ADJUSTMENT AND OPERATION

MK-101 PRO SERIES 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 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.

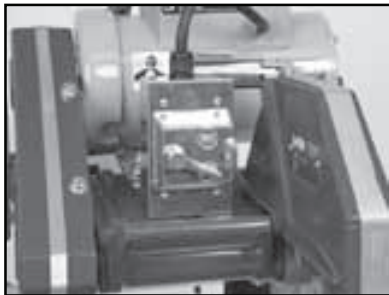
NOTE: In order to avoid breaker tripping, a 20-amp circuit breaker should be used.

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

Ground Fault Circuit Interrupter



(A)

Ensure the ON/OFF Switch is in the OFF position.



(B)

Plug MK-101 into the GFCI.



(C)

Plug the GFCI into the power source*.

Set Cutting Depth:

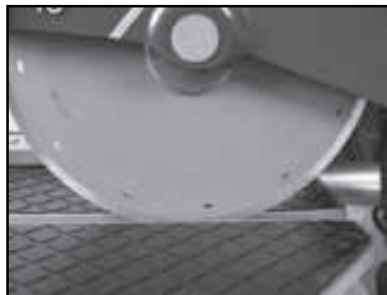


CAUTION When loosening the Cutting Head Adjusting Knob, the Cutting Head will pivot down unless held.



(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.

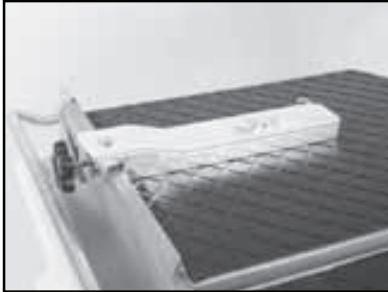
*A GFCI wall socket is the preferred protective device.

SETUP, ADJUSTMENT AND OPERATION

ADJUSTMENT and OPERATION

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.



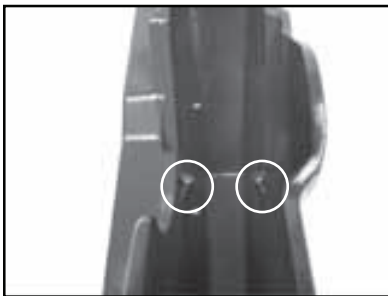
(A)
Position the Adjustable Cutting Guide to desired cut length.



(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.

SETUP, ADJUSTMENT AND OPERATION

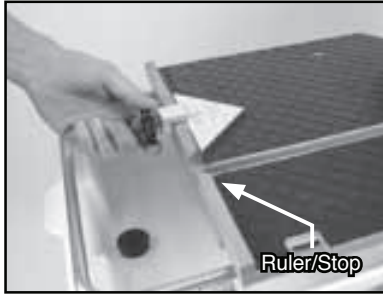
Diagonal Cutting:

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)
Place tile on the Cutting Table.



(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.

SETUP, ADJUSTMENT AND OPERATION

45° Miter Cutting:

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

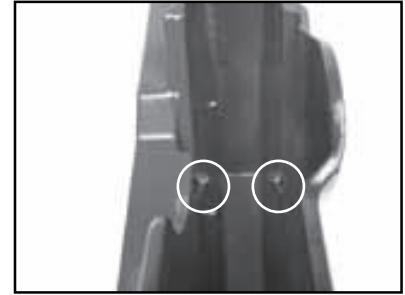
⚠ CAUTION DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



(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.

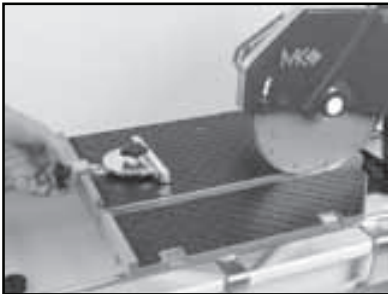
SETUP, ADJUSTMENT AND OPERATION

Off-angle Cutting:

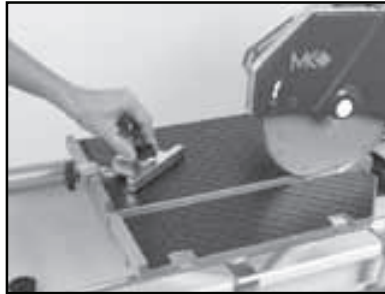
NOTE: To cut angles other than 45° angles or Miters, a 90° Protractor (MK Diamond Part No. 134569-MK) should be used.



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.



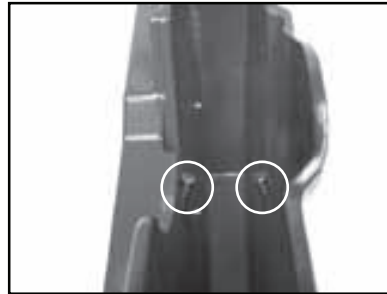
(B)
Set the desired angle and tighten the thumbscrew.



(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.

SETUP, ADJUSTMENT AND OPERATION

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.



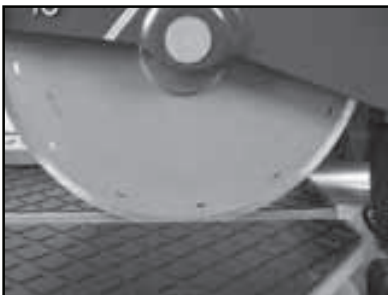
(D)
Install the Cutting Head onto the front pivot hole.



(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.

SETUP, ADJUSTMENT AND OPERATION

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



(B)
Remove Water Basin and Blade.



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

! CAUTION Hold the Post when removing the Post Support Plate.



(D)
Loosen the Post Support Plate and retaining bolts.



(E)
Remove the Post Support Plate and retaining bolts.



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



(G)
Install and tighten the Post Support Plate and retaining bolts.



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



(I)
Install the Water Basin and Blade.

SETUP, ADJUSTMENT AND OPERATION

Cleanup:

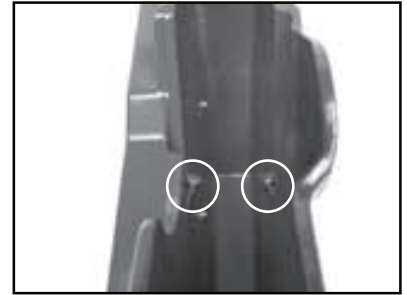
- NOTES: 1. If an external water source was used, steps A through C may be skipped.
2. Dispose of waste water in accordance with applicable Federal, State and Local laws.



(A)
Clean the Water Pump
suction of all debris.



(B)
Place the Water Pump
In an external container.



(C)
Run the MK-101 until clear
water is seen at the blade
cooling ports (Approx. 1 min-
ute).



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



(D)
Remove the Water Basin
from the MK-101.



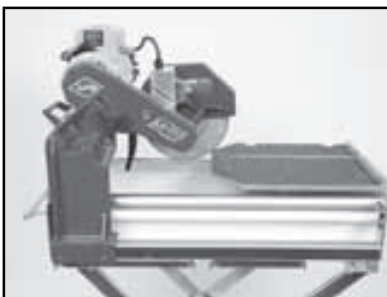
(E)
Clean the Movable Cutting
Table Guide Bar.



(F)
Clean the Movable Cutting
Table Roller Wheel
Support.



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



(G)
Clean the remainder of the
MK-101.