

MK-212 SERIES OWNERS MANUAL & OPERATING INSTRUCTIONS



Revision 200	04.2009
Manual Part No. I59862	

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

We at MK Diamond want to congratulate you on selecting the MK-212 saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your MK-212 saw should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-212 saw safely and correctly. Please take a few minutes to familiarize yourself with the MK-212 Saw by reading and reviewing this manual.

If you should have questions concerning your MK-212 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.

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Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Precaution and Operating Instructions could result in injury to yourself and others. This Operation and Parts Manual has been developed to provide complete instructions for the safe and efficient operation of the MK-212 saw.

Before using this machine, ensure that the person operating the machine has read and understands all instructions in this manual.

SAFETY MESSAGE / ALERT SYMBOLS

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.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury. Other important messages are preceded by the word **NOTICE**.



NOTICE

You can cause **PROPERTY DAMAGE** to your machine if you don't follow directions.

The safety labels should be periodically inspected and cleaned by the user to maintain good legibility at a safe viewing distance. If the label is worn, damaged or illegible, it should be replaced.

Potential hazards associated with the MK-212 saw operation will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message/Alert Symbols.

HAZARD SYMBOLS



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



ALWAYS avoid inhalation of and skin contact with silica dust and/or mist.



ALWAYS place the power ON/OFF switch in the **OFF** position when the machine is not in use.



ALWAYS wear approved eye protection.



ALWAYS wear approved respiratory protection.



NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.



ALWAYS use caution around gears. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.



NEVER touch the power cord with wet hands or while standing in water when it is connected to a power source.



NEVER operate the machine in an explosive atmosphere or near combustible materials.

RULES FOR SAFE OPERATION



DANGER

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the MK-212 Saw.

GENERAL SAFETY



- **DO NOT** operate or service this equipment before reading this entire manual.

- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steeltoed boots and other protective devices required by the job.
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence of drugs or alcohol.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- **ALWAYS** check the machine for loose bolts before starting.



- **ALWAYS** wear proper respiratory (mask) hearing and eye protection equipment when operating this machine.

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



- **NEVER** leave the machine unattended. Turn off electric motor when unattended.

- **CAUTION** must be observed while servicing the machine. Rotating parts can cause injury if contacted.
- Ensure that any electrical extension cord is protected against damage. Always ensure that the electrical extension cord is not trapped underneath the machine. 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. The Table shown on page 9 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heaviest gage. The smaller the gage number, the heavier the cord.



- **DO NOT** allow extension cord to come into contact with water or fluids.
- **DO NOT** spray water onto electric motor.
- **NEVER** operate the machine in an explosive atmosphere.

- Before starting the machine, check that all guards are in position and correctly fitted.
- Keep area around the machine clear of obstructions which could cause persons to fall onto moving parts.
- **ALWAYS** ensure that the machine is on level ground before using.
- **DO NOT** overreach. Keep proper footing and balance at all times.

- **NEVER** stand on the tool. Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.
- Become familiar with the controls of the machine before operating. Know how to stop the machine quickly in case of emergency.
- **ALWAYS** 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.
- **ALWAYS** disconnect AC power plug from power source before moving, cleaning or servicing the machine.
- **NEVER** leave a tool running unattended. 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.
- Make sure the OFF/ON power switch on the electric motor is always in the **OFF** position before inserting the machine's power plug into an AC receptacle.
- Operate electric motor only at the specified voltage indicated on the nameplate.
- **NEVER** disconnect any "emergency or safety devices". These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death! Disconnection of any of these devices will void all warranties.
- Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.
- **NEVER** use accessories or attachments, which are not recommended by MK Diamond for this equipment. Damage to the equipment and/or injury to user may result.
- Replace damaged cutting blade before operating.
- **NEVER** try to stop a moving blade with your hand.
- **NEVER** touch electrical wires or components while the motor is running. Exposed, frayed or worn electrical motor wiring can be sources of electrical shock that could cause severe injury or burns.
- Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate a power tool with covers, shrouds, or guards removed.

**WARNING**

NEVER use this machine with any cutter designed for wood working.

MAINTENANCE SAFETY

- **NEVER** lubricate components or attempt service on a running machine.
- Keep the machinery in proper running condition.
- Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced.

SAW SAFETY

**WARNING**

- Wear eye protection.
- Disconnect saw before servicing, when changing cutting blades and cleaning.
- Use tool only with smooth edge cutting blades free of openings and grooves.
- Replace damaged cutting blade before operation.
- Remove adjusting keys and wrenches.

SAFETY WARNINGS

SILICA DUST WARNING

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

CALIFORNIA PROPOSITION 65 MESSAGE

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

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

For further information, consult the following sources:

<http://www.osha.gov/SLTC/silicacrystalline/index.html>

http://www.oehha.org/prop65/out_of_date/6022kLstA.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.

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 of Figure I. The tool has a grounding plug that looks like the plug illustrated in Sketch A of Figure I. 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 electricician. 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.

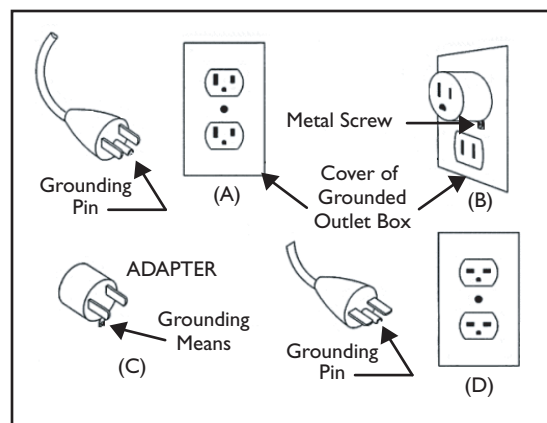


Fig. I Circuit and Adapter Information

**WARNING**

To reduce the risk of electrocution, keep all connections dry and off the ground.

A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for this machine. Receptacles are available having built-in GFCI protections and may be used for this measure of safety.

When using an extension cord, the GFCI should be installed closest to the power source, followed by the extension cord and lastly, the machine.

**WARNING**

The pump requires a GFCI. To reduce risk of electric shock when operating the machine with the pump plugged into the 3-pole receptacle on the motor, connect the saw to a GFCI outlet. See the pump manual and informational tags enclosed separately for all pump information.

**CAUTION**

Shock Hazard. For replacement, use only an identical pump, model PE-I part #151271.

NOTE: Do not run pump dry. Also, be sure to disconnect and remove the pump when cutting dry.

**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 Figure 2, 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.

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.

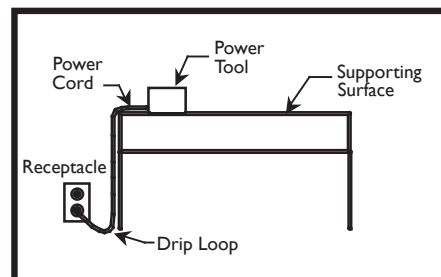


Fig. 2 Drip Loop Information

**WARNING**

Use only extensions 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 disconnection 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 undersized extension cords result in low voltage to the motor that can result in motor burnout and premature failure. Barranca 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 customers expense. There will be no warranty claim.

To choose the proper extension cord,

- Locate the length of extension cord needed in table provided.
- 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.	50 ft.	100 ft.	150 ft.
120v	AWG	AWG	AWG	AWG
	18	16	16	14

Table I

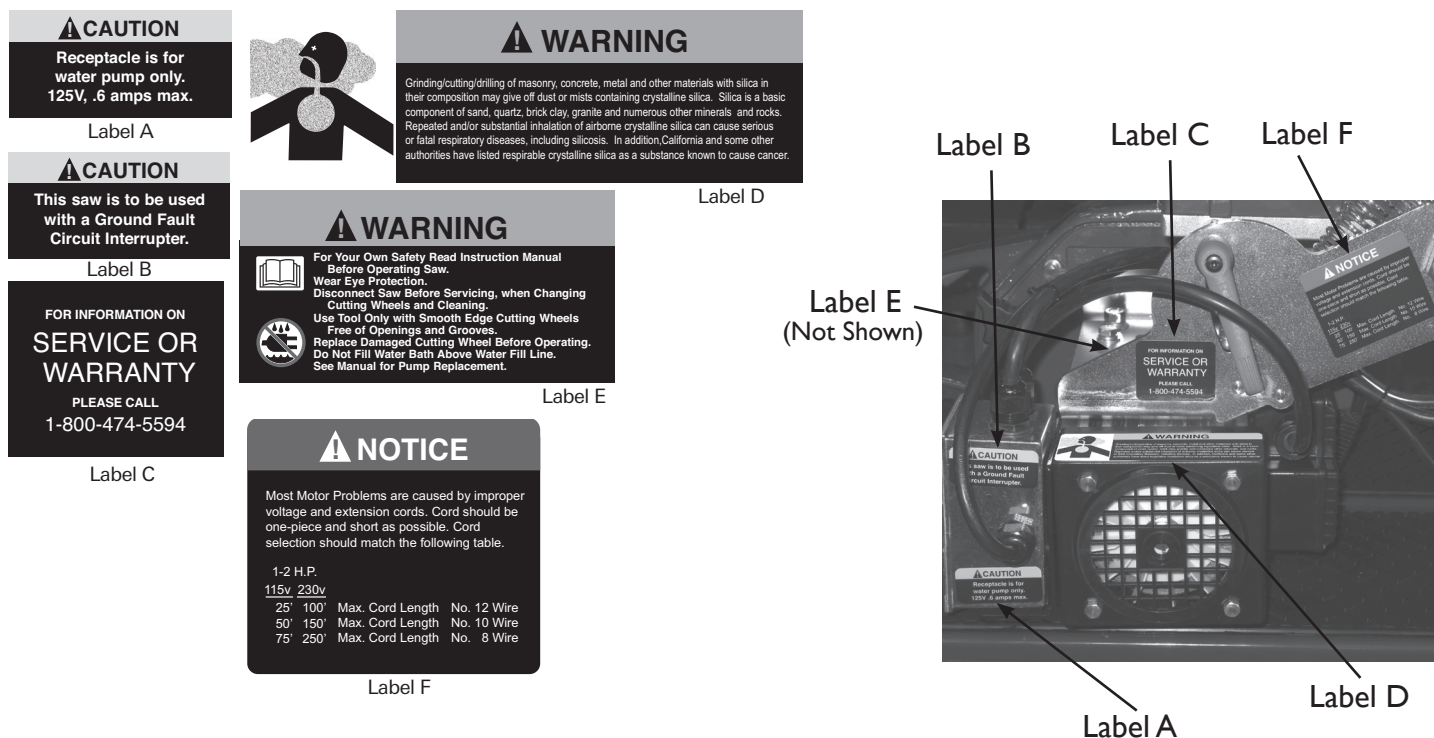
LOCK OUT METHOD

In order to help prevent accidental starting and to help make your work area "kidproof," this machine is provided with a means to deactivate the functioning of the motor switch. The switch is equipped with a lockout tab that can be used with a lock to prevent movement of the switch. With the switch unable to move the motor cannot be turned on. Removing the lock reactivates the switch.

**Fig. 3 Lock Out**

SAFETY LABEL LOCATIONS

Safety labels are located according to the table below and the exploded views at the end of this manual. The 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.



Tile Master Label Sheet Part#166012

Decal/Label	Location	Description
A	Switch Box	Caution - Receptacle is for Water Pump Only
B	Cutting Head	Caution - Use with GFCI only
C	Cutting Head Arm	Service/ Warranty
D	Motor - Back	Warning - Silica Warning
E	Motor - Back	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.

PRODUCT SPECIFICATIONS

The MK-212 is a versatile Tile and Stone Saw. Operated and used according to this manual, the MK-212 will provide years of dependable service.

GENERAL DESCRIPTION

The MK-212 Tile Saw is engineered as a stand mounted wet tile and stone saw. The saw includes a powerful 115v direct drive AC motor.

MOTOR SPECIFICATIONS

Motor specifications for the MK-212 are listed in Table 2 below.

	MK-212-4	MK-212-6
Horse Power	2 hp	2 hp
Voltage	120v	120v
Overall Amperage	14.4	14.4 a / 6.7 a
Frequency	60	60
RPM	3400	3400
Weight	226 lbs	270 lbs

Table 2

THERMAL OVERLOAD PROTECTION

The motor is protected by a thermal overload equipped with a manual reset.

BLADE CAPACITY

The MK-212 uses a ten (10) inch (254 mm) diameter wet cutting continuous rim MK Diamond blade.

TILE TYPES

The MK-212 can cut a variety of tile types including Porcelain, Terra Cotta, Marble, Quarry and Slate, or almost any other non-ferrous material.

NOTE: The MK-212 is not designed to cut plastic or ferrous (metals) material.

UNPACKING

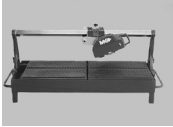

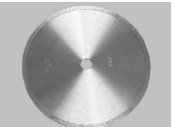





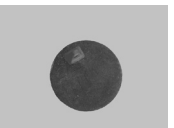









Your MK-212 has been shipped from the factory thoroughly inspected. Only minimal assembly is required.



CAUTION Use proper lifting techniques when lifting the MK-212.

CONTENTS

In your container, you will find one (1) MK-212 Saw, (4) MK-212 support legs, (1) 10-inch wet cutting continuous rim diamond blade, (1) blade wrench, (1) 90° cutting guide alignment plate, (1) 90° cutting guide, 90° cutting guide hardware, (1) 2-piece protractor (1) drain plug, (1) electric water pump, (1) pump discharge fitting, (1) cooling transfer tube, (1) flow regulating clamp, (1) 5/16" allen wrench, (1) 5mm allen wrench, (1) owners manual, (1) pump manual and (1) warranty card.

					
MK-212 Saw	MK-212 Support Legs	Diamond Blade	Blade Wrench	90° Cutting Guide Alignment Plate	90° Cutting Guide
					
90° Cutting Guide Hardware	2-Piece Protractor	Drain Plug	Electric Water Pump	Pump Discharge Fitting	Cooling Transfer Tube
					
Flow Regulation Clamp	5/16" Allen Wrench	5mm Allen Wrench	Owner's Manual	Pump Manual	Warranty Card

TRANSPORT

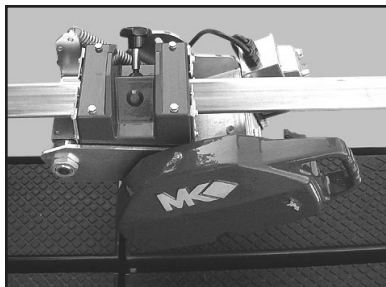
1. The MK-212 weighs approximately two hundred and twenty-six (226) pounds and for that reason should not be transported without a minimum of two persons present.
2. Never transport the MK-212 with water in the Water Pan.



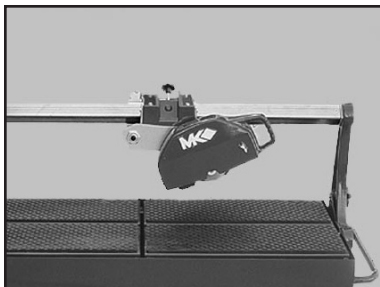
NOTE: The Cutting Head end will be heavier than the opposite end.

ASSEMBLY

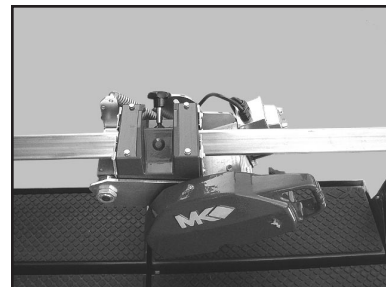
Follow the assembly instructions to prepare your MK-212 for operation.

SUPPORT LEG INSTALLATION

(A)
Loosen the Cutting Head
Transverse Knob



(B)
Move the Cutting Head to
one end of the saw



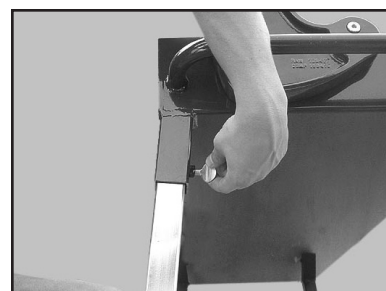
(C)
Tighten the Cutting Head
Transverse Knob



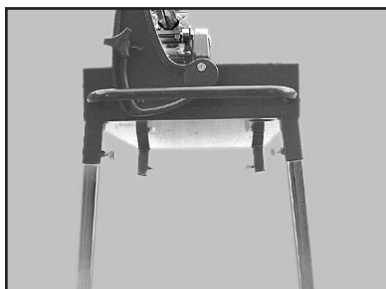
(D)
Obtain the first Leg



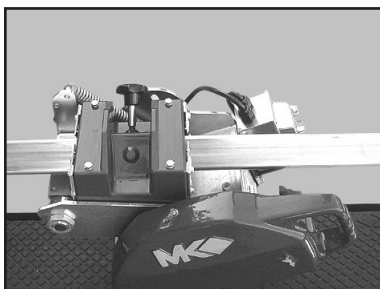
(E)
Lift the saw; align the Leg with
the Retaining Slot on the saw
and the install the Leg



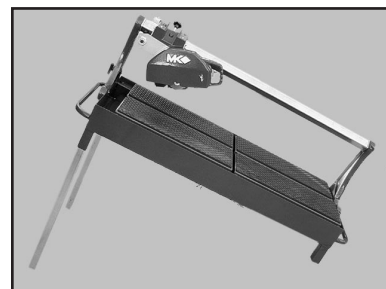
(F)
Tighten the Leg Retaining
Wingnut



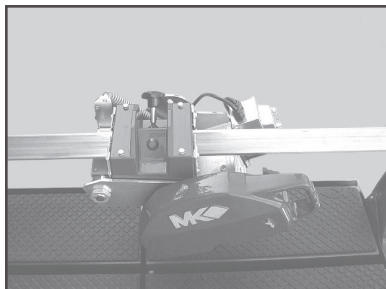
(G)
Repeat Steps D through F
for the second Leg



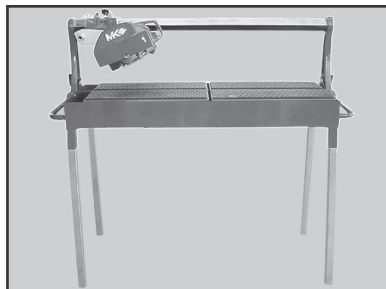
(H)
Loosen the Cutting Head
Transverse Knob



(I)
Move the Cutting Head
to the end with the two
installed Legs



(J)
Tighten the Cutting Head
Transverse Knob



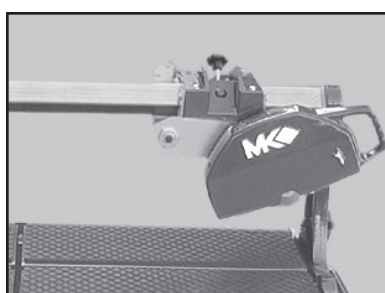
(K)
Install the remaining to Legs
on the opposite side of the
saw using Steps D through G

DIAMOND BLADE INSTALLATION

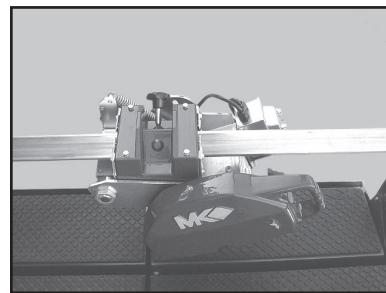
NOTE: When installing the Retaining Screw, do not “cross-thread” and DO NOT over tighten the screw.



(A)
Loosen the Cutting Head
Transverse Knob



(B)
Move the Cutting Head to
one end of the saw



(C)
Tighten the Cutting Head
Transverse Knob



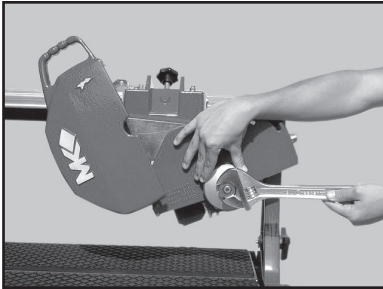
(D)
Loosen the Blade Guard Pivot
Point Retaining Wingnut



(E)
Loosen the Blade Guard
Retaining Knob



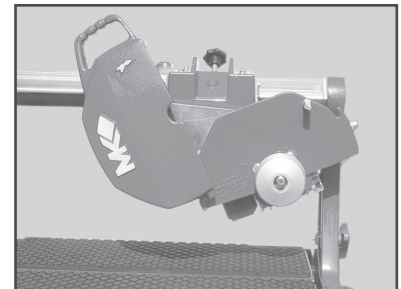
(F)
Open the Blade Guard



(G)
Loosen the Blade Retaining
Nut

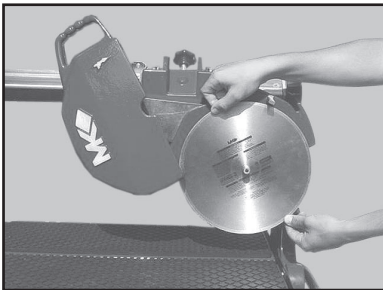


(H)
Remove the Blade Retaining
Nut

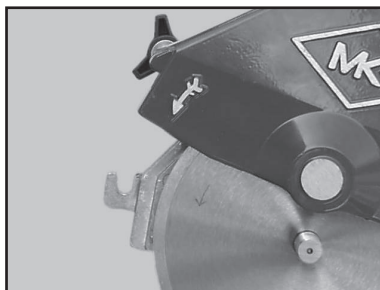


(I)
Remove the Outer Flange

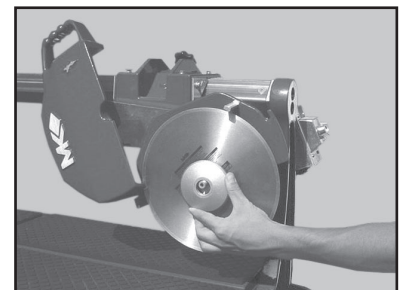
NOTE: The Diamond Blade will have to be installed onto the MK-212 with the Directional Arrow toward the motor side of the Cutting Head for the blade to be seated correctly.



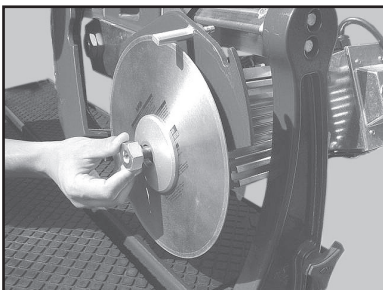
(J)
Install Diamond Blade onto
Blade Shaft



(K)
Verify the Directional Arrow
of the Blade matches the
Directional Arrow of the Blade
Guard



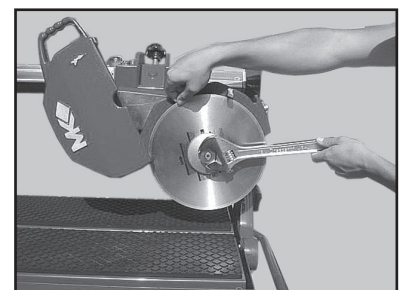
(L)
Install the Outer Flange



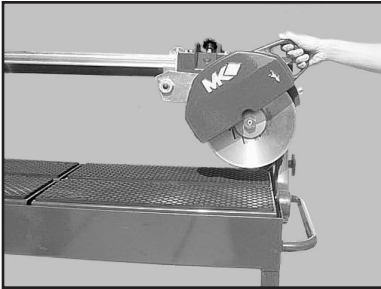
(M)
Install the Blade Retaining Nut



(N)
Verify the Blade Retaining Nut
is seated in the Outer Flange



(O)
Tighten the Blade Retaining
Nut



(P)
Close the Blade Guard



(Q)
Tighten the Blade Guard
Retaining Wingnut



(R)
Tighten the Blade Guard
Retaining Knob

90° CUTTING GUIDE INSTALLATION

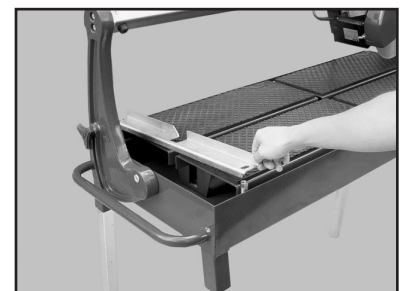
NOTE: Saw comes with A-D installed.



(A)
Using the supplied Hex-
wrench, loosen and then
remove the two back Cutting
Surface Retaining Screws



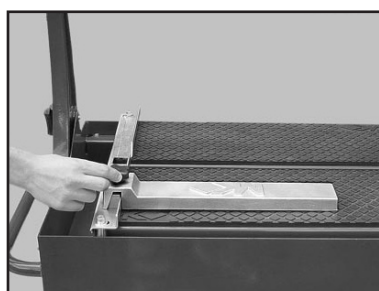
(B)
Install the two 90° Cutting
Guide Support Extension in
place of the Retaining Screws
and tighten using a wrench



(C)
Position the 90° Cutting
Guide Alignment Plate over
the Support Extensions



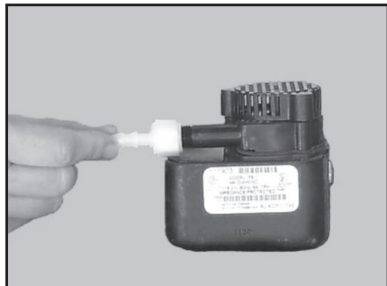
(D)
Install two Alignment Plate
Retaining Screws and Flat
Washers through Alignment Plate
and into Support Extensions and
then tighten using the supplied
Hex-wrench



(E)
Install the 90° Cutting Guide
onto the Alignment Plate and
tighten the Retaining Knob to
hold the 90° Cutting Guide in
position

WATER PUMP PREPARATION**WARNING**

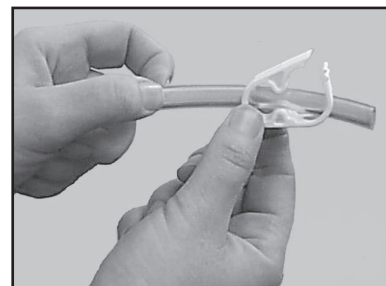
1. To prevent the possibility electrical shock, the MK-212 MUST be de-energized when preparing the Water Pump for operation.
2. To prevent the possibility of electrical shock, use only MK Diamond qualified replacement parts



(A)
Install Water Pump Discharge
Fitting



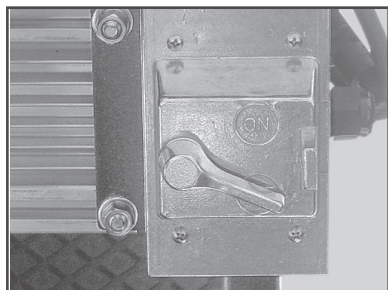
(B)
Press one end of the Cooling
Transfer Tube onto the Water
Pump Discharge Fitting



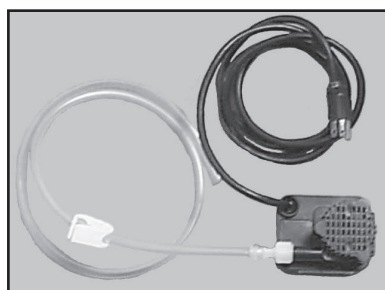
(C)
Slide Cooling Flow Adjusting
Clamp onto the Cooling
Transfer Tube

PRE-START INSPECTION

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



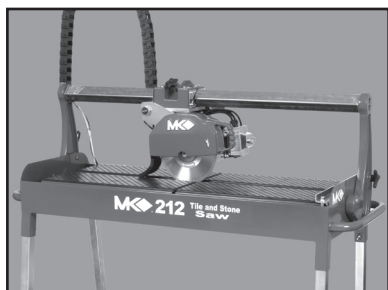
(A)
Ensure the ON/OFF Switch is
in the OFF position



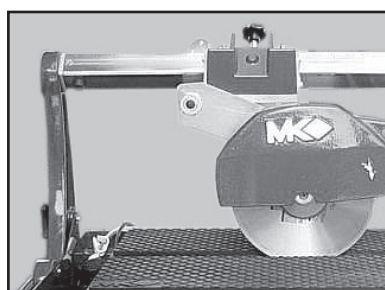
(B)
Inspect the Pump Assembly
for damage – ensure the cord
is free of cracks or cuts



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



(D)
Inspect the MK-212 for
damage – ensure the cord is
free of cracks or cuts



(E)
Verify the Movable Cutting
Head moves freely

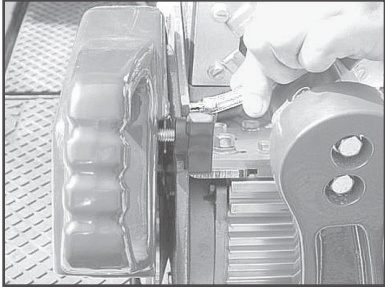
WATER PUMP SETUP FOR OPERATION

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.

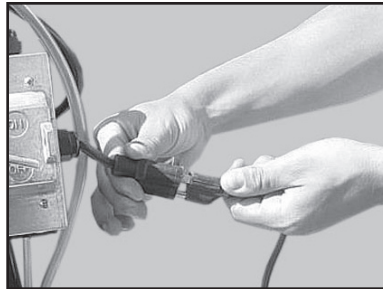
EXTERNAL WATER SOURCE

This is the preferred method of cooling.



(A)

Press the free end of the Cooling Transfer Tube onto the Blade Guard Cooling Port



(B)

Connect the Water Pump to the MK-212



(C)

Remove the Drain Plug



(D)

Place the Water Pump in an external container



(E)

Fill the external container until water completely covers the Water Pump suction

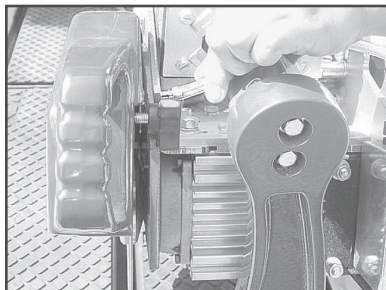


(F)

Place an external catch basin below the Water Basin drain hole

RE-CIRCULATION

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



(A)

Press the free end of the Cooling Transfer Tube onto the Blade Guard Cooling Port



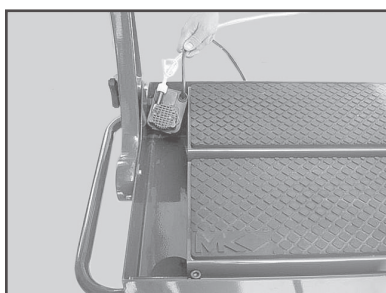
(B)

Connect the Water Pump to the MK-212



(C)

Ensure the Drain Plug is installed in the Water Basin



(D)

Place the Water Pump in the back of the Water Basin



(E)

Fill the Water Basin until water completely covers the Water Pump suction

MK-212 ELECTRICAL CORD SETUP**CAUTION**

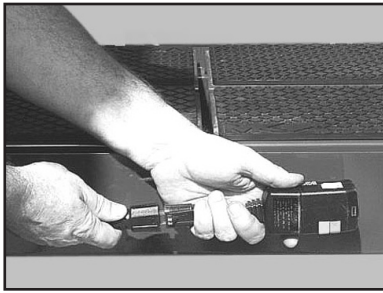
1. Before connecting the MK-212 to a power supply, be sure the voltage, cycle and phase meet the requirements of TABLE 3 below.

VOLTAGE:	115v
CYCLE:	60hz
PHASE:	1-phase Single Phase

Table 3

2. If using an extension cord, make sure the length and wire gauge correspond to the requirements listed in TABLE 1 on page 11. An extension cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.
3. Use an approved Ground Fault Circuit Interrupter (GFCI)
4. 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.



(A)

Plug MK-212 into the GFCI (A GFCI should always be used when operating the MK-212)



(B)

Plug the GFCI into the Power source

CUTTING 90° STRAIGHT EDGES



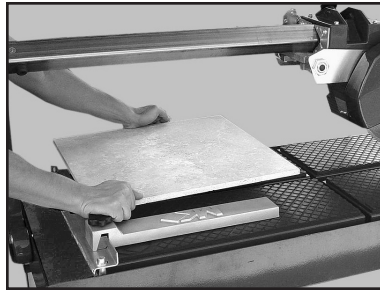
CAUTION

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



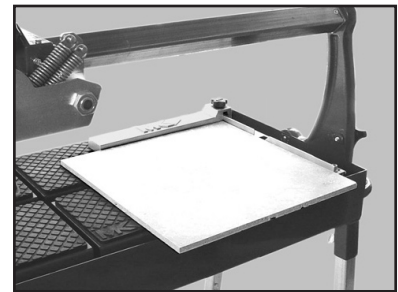
(A)

Position the Adjustable Cutting Guide to desired cut length



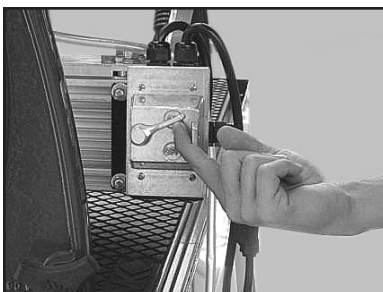
(B)

Place the tile against the Stop and Cutting Guide



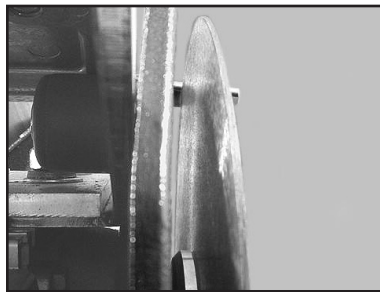
(C)

Verify the tile is seated against the Stop and Cutting Guide



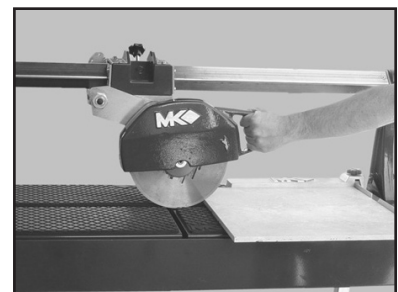
(D)

Turn the motor ON



(E)

Verify proper cooling flow on both sides of the blade



(F)

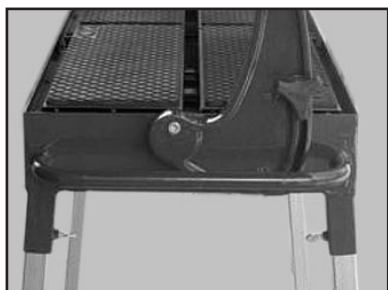
Perform the cut. Turn the motor OFF when work is complete

ANGLE CUTTING

NOTE: To cut at an angle, the MK-212 has been designed with a pivoting cutting head.

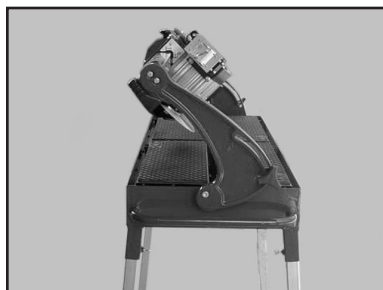
**CAUTION**

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



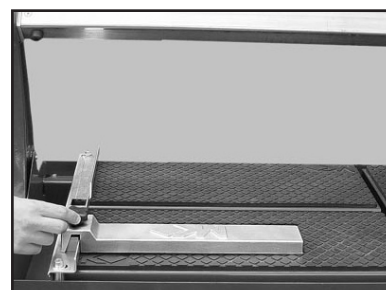
(A)

Loosen the two Beam Post Cutting Head Pivot Knobs located on each end of the saw



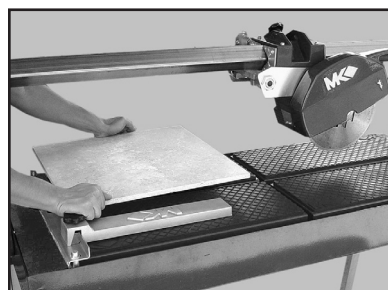
(B)

Pivot the Cutting Head and retighten the two Pivot Knobs



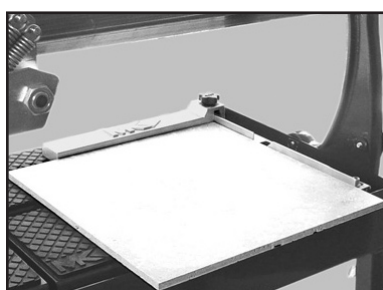
(C)

Position the Adjustable Cutting Guide to desired cut length



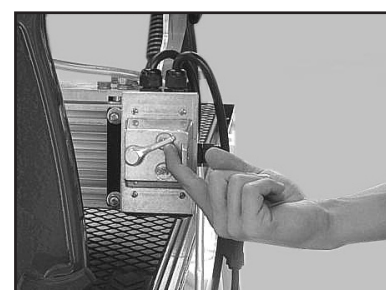
(D)

Place the tile against the Stop and Cutting Guide



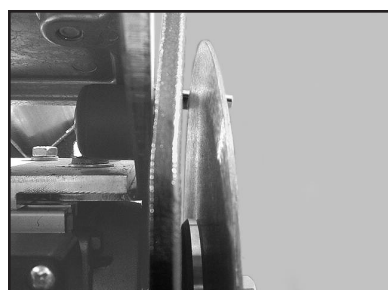
(E)

Verify the tile is seated against the Stop and Cutting Guide



(F)

Turn the motor ON



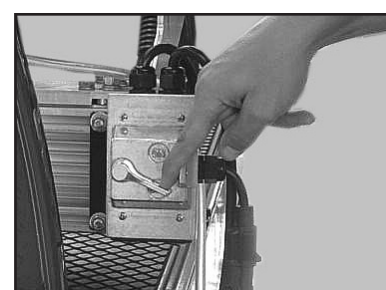
(G)

Verify proper cooling flow on both sides of the blade



(H)

Perform the cut



(I)

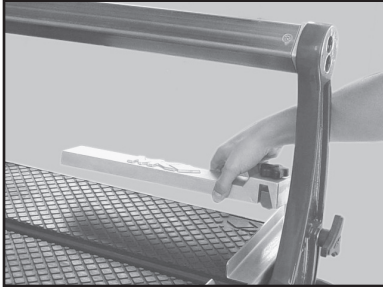
Turn the motor OFF when work is complete

OFF-ANGLE CUTTING

NOTE: To cut angles other than 90°, a Protractor (MK Diamond Part No. -I59572) should be used.

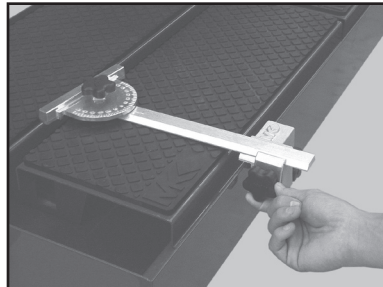
**CAUTION**

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



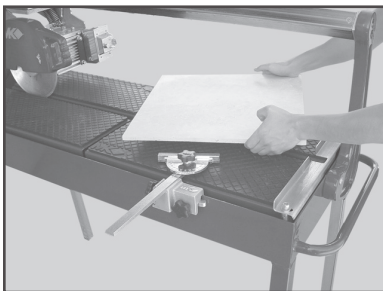
(B)

Place the Protractor on the side
of the cutting table. Adjust the
Protractor to fit the tile being cut and
tighten the Retaining Knobs to lock
the Protractor



(C)

Set the desired Cutting Angle
and tighten the Retaining Knob



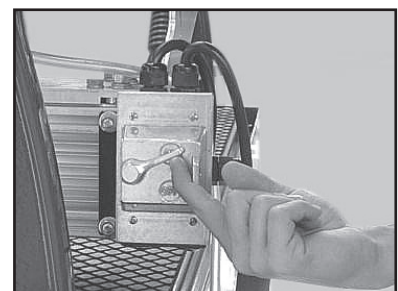
(D)

Position the tile against the
Protractor and the Stop



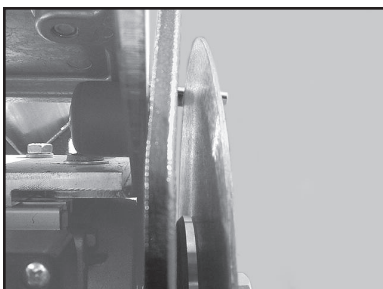
(E)

Verify the tile is seated against
the Stop and Protractor



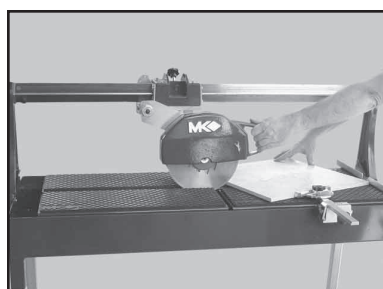
(F)

Turn the motor ON



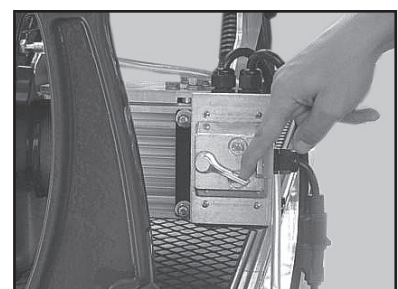
(G)

Verify proper cooling flow on
both sides of the blade



(H)

Perform the cut

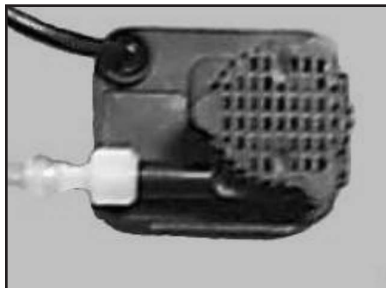


(I)

Turn the motor OFF when
work is complete

CLEANUP

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



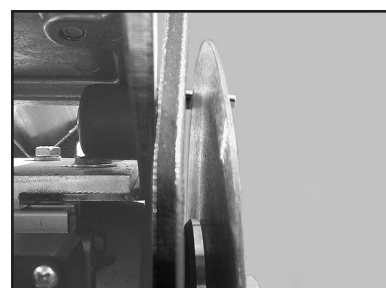
(A)

Clean the Water Pump suction
of all debris



(B)

Place the Water Pump in an
external container



(C)

Run the saw until clear water
is seen at the blade cooling
ports (Approx. 1 minute)



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



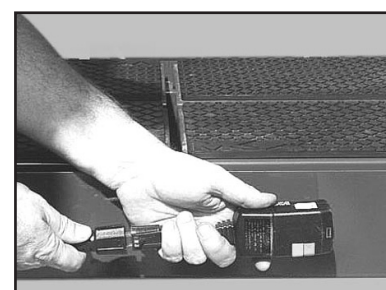
(D)

Ensure the ON/OFF Switch is
in the OFF position



(E)

Unplug the GFCI from the
Power source



(F)

Unplug MK-212 from the
GFCI



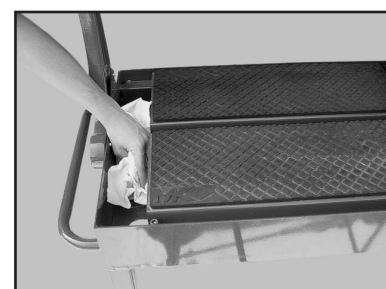
(G)

Clean the MK-212 with soap
and clean water



(H)

Drain the Water Basin and
dispose of the water in
accordance with all State,
Local and Federal laws

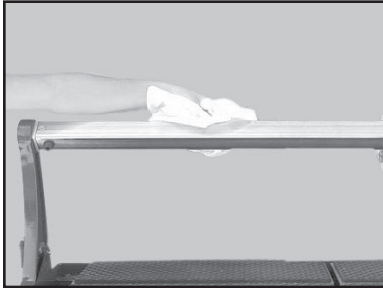


(I)

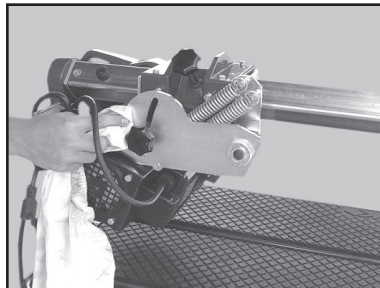
Clean the Water Basin



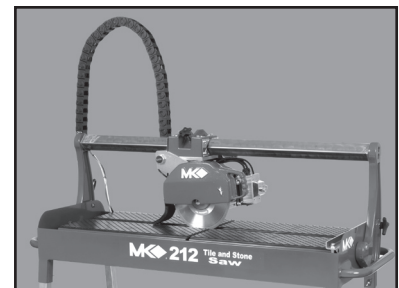
CAUTION Ensure water is not forced into the motor casing when cleaning.



(J)
Clean the Guide Rail



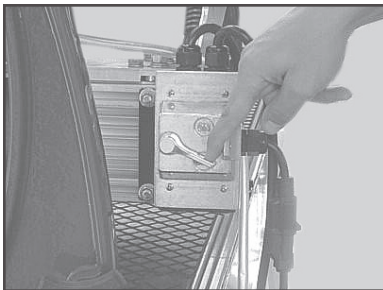
(K)
Clean the Movable Cutting Head



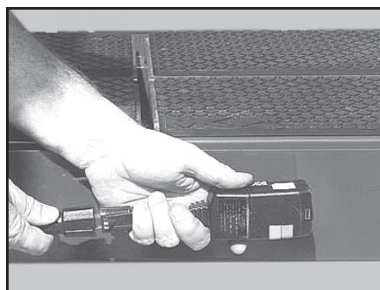
(L)
Clean the remainder of the MK-212

MAINTENANCE FOLLOWING USE

To extend the life of the MK-212, the following procedure should be performed after each use.



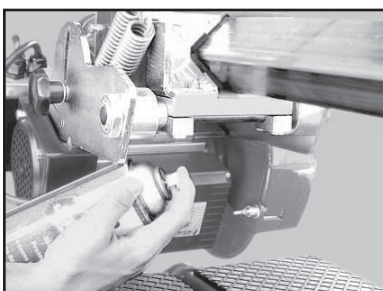
(A)
Ensure the ON/OFF Switch is in the OFF position



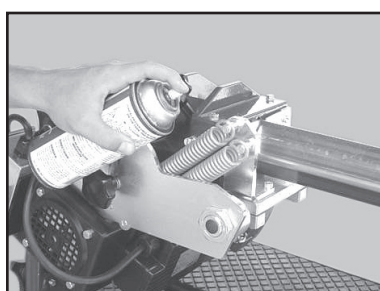
(B)
Unplug MK-212



(C)
Lubricate the Guide Rail



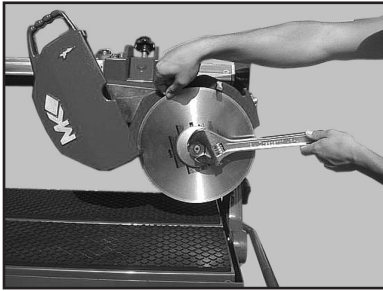
(D)
Lubricate the Cutting Head



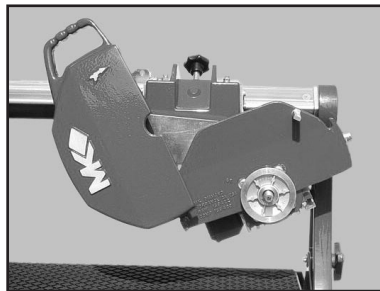
(E)
Lubricate the Cutting Head springs

MONTHLY MAINTENANCE

The following maintenance should be performed monthly.



(A)
Remove the Diamond Blade



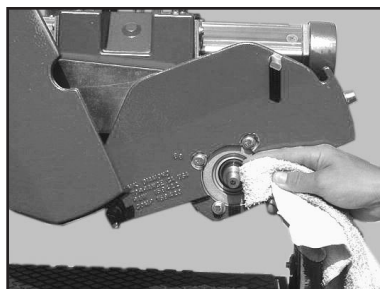
(B)
Remove the Inner Flange



(C)
Clean the Inner Flange



(D)
Lubricate the Inner Flange
Gasket



(E)
Clean the Blade Shaft



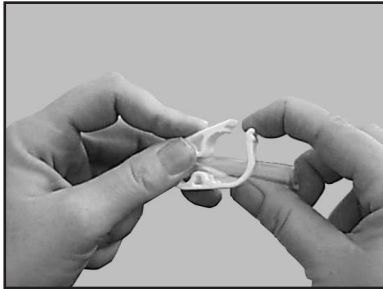
(F)
Lubricate the Blade Shaft



(G)
Reinstall the Inner Flange and
Blade

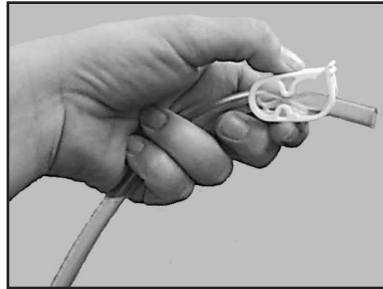
FLOW ADJUSTMENT

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



(A)

Increase cooling flow by releasing the Flow Adjusting Clamp



(B)

Reduce cooling flow by pressing down on the Flow Adjusting Clamp

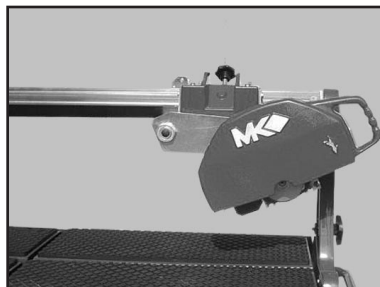
DIAMOND BLADE CHANGE-OUT

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



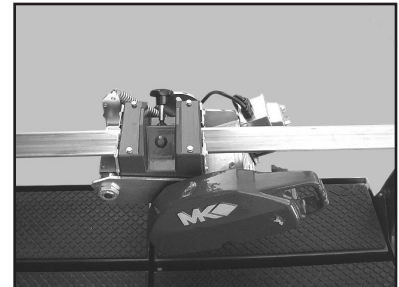
(A)

Loosen the Cutting Head Transverse Knob



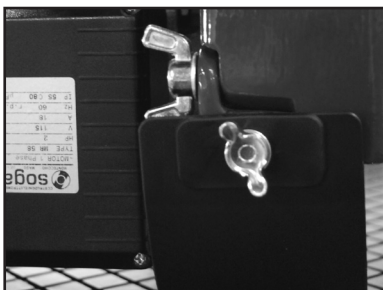
(B)

Move the Cutting Head to one end of the saw



(C)

Tighten the Cutting Head Transverse Knob



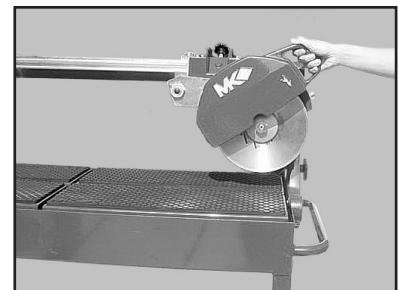
(D)

Loosen the Blade Guard Pivot Point Retaining Wingnut



(E)

Loosen the Blade Guard Retaining Knob



(F)

Open the Blade Guard

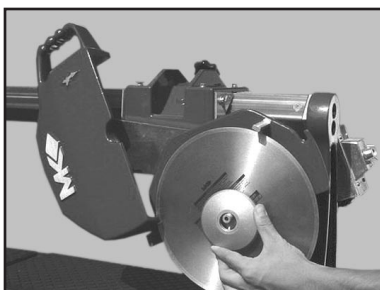
DIAMOND BLADE CHANGE-OUT

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



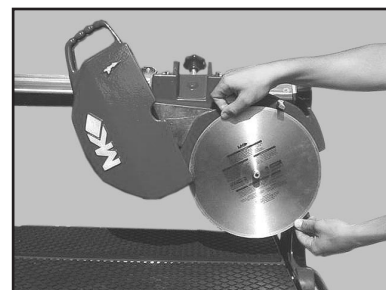
(G)

Loosen and remove the Blade Retaining Nut



(H)

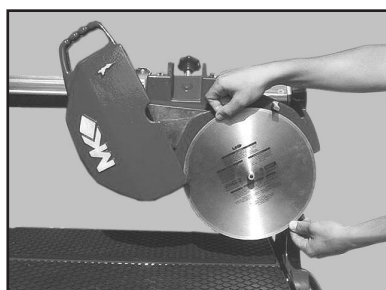
Remove the Outer Flange



(I)

Remove the old Diamond Blade

NOTE: The Diamond Blade will have to be installed onto the MK-212 with the Directional Arrow toward the motor side of the Cutting Head for the blade to be seated correctly.



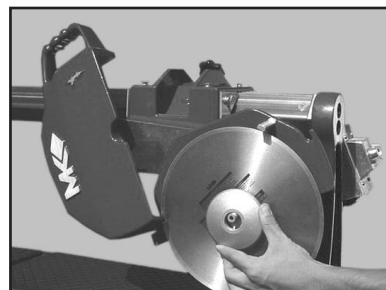
(J)

Install the new Diamond Blade onto the Blade Shaft



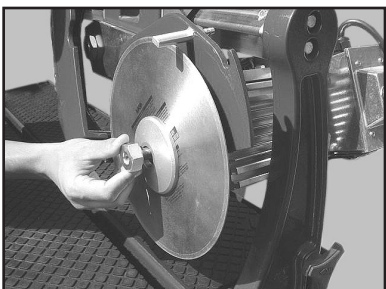
(K)

Verify the Directional Arrow of the Blade matches the Directional Arrow of the Blade Guard



(L)

Install the Outer Flange



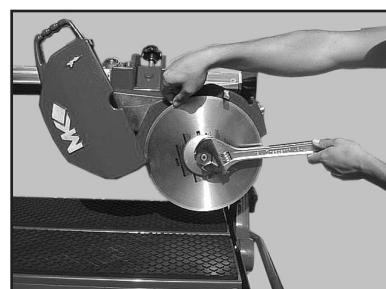
(M)

Install the Blade Retaining Nut



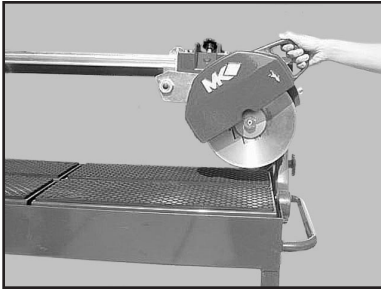
(N)

Verify the Blade Retaining Nut is seated in the Outer Flange



(O)

Tighten the Blade Retaining Nut



(P)
Close the Blade Guard



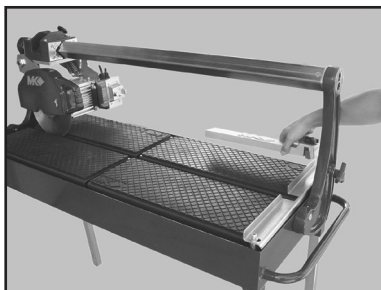
(Q)
Tighten the Blade Guard
Retaining Knob



(R)
Tighten the Blade Guard
Pivot Point Retaining
Wingnut

TABLE REMOVAL

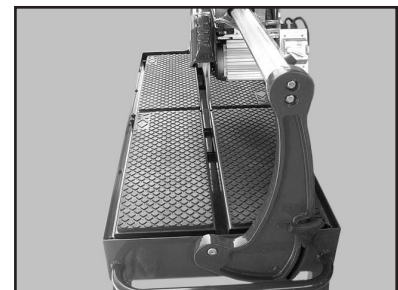
NOTE: The Rubber topped cutting table may be removed to replace the rubberized surface or to clean the Water Basin.



(A)
Remove the Adjustable Cutting
Guide



(B)
Remove the 90° Cutting Guide
Alignment Plate



(C)
Locate the six table Retaining
Screws on both sides of the
cutting surface



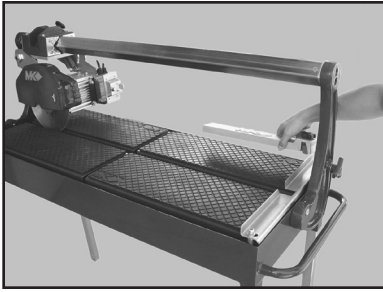
(D)
Remove all Retaining Screws
using the Hex Wrench provided
with the MK-212



(E)
Remove table Cutting
Surface pieces



(F)
Clean the Water Basin

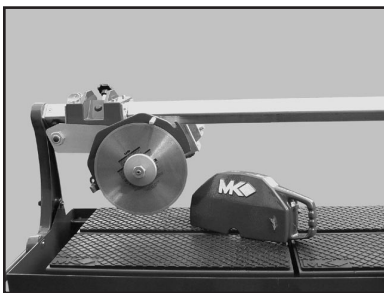


(G)

Reinstall all components removed in steps A through E

CUTTING HEAD ALIGNMENT

NOTE: The alignment of the Cutting Head should be checked periodically to ensure the accuracy of the cut.



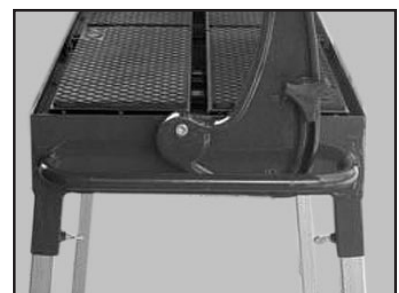
(A)

Remove the Blade Guard



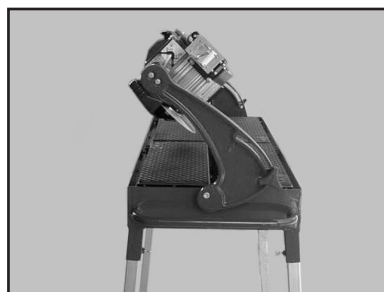
(B)

Using a combination square, check the Blade for vertical alignment



(C)

Loosen the two Beam Post Cutting Head Pivot Knobs located on each end of the saw



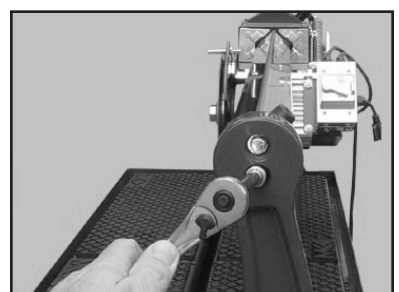
(D)

Pivot the Beam and retighten the two Pivot Knobs



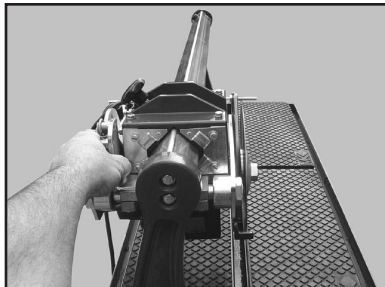
(E)

Using a combination square, check the Blade for 45° alignment



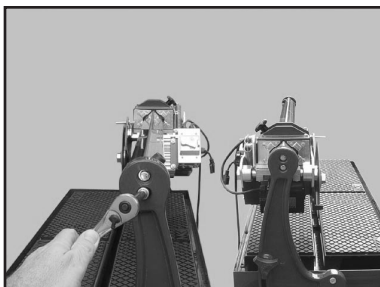
(F)

Loosen the four Guide Rail Adjusting Screws using a 1/2-inch socket



(G)

Adjust the Guide Rail until it is aligned both vertically and horizontally



(H)

Tighten the four Guide Rail Adjusting Screws using a 1/2-inch socket

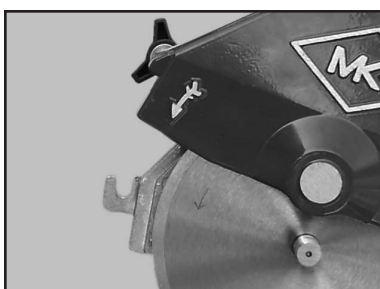
TROUBLESHOOTING

Blade will not cut properly



(A)

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



(B)

Check for proper rotation



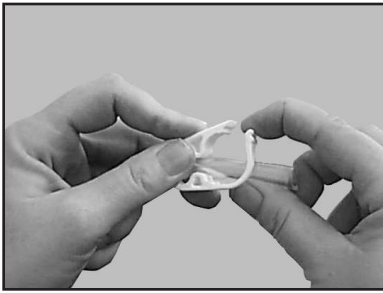
(C)

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



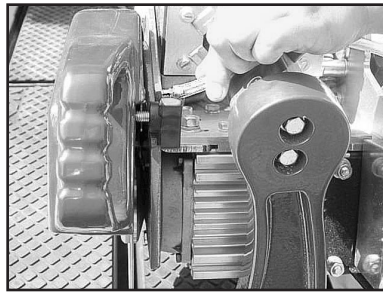
(D)

Verify the blade is correct for the material being used.

COOLING FLOW

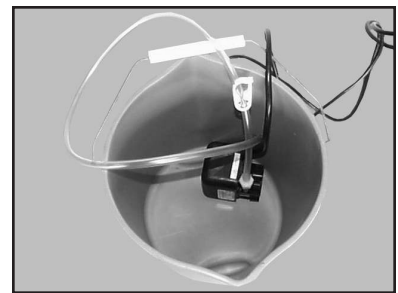
(A)

Verify the cooling flow
Adjusting Clamp is open



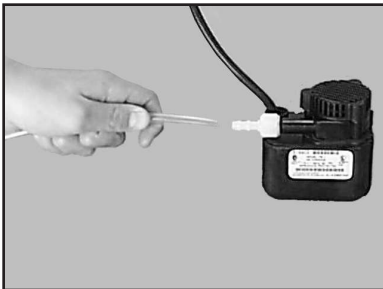
(B)

Remove the Cooling Transfer
Tube from the Blade Guard
inlet



(C)

Place Pump into a bucket of
water and check flow



(D)

Remove the Cooling Transfer
Tube and check for flow



(E)

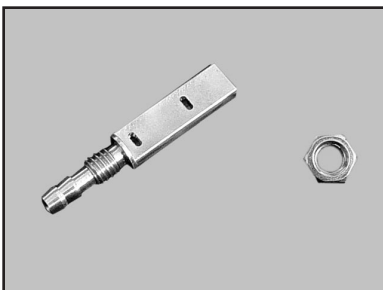
Remove the Pump Discharge
Fitting and check for flow



(F)

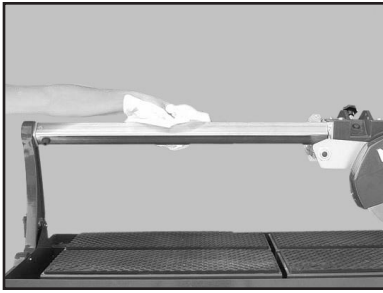
Remove the Pump Intake
Screen and check for debris –
clean the screen if necessary

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.

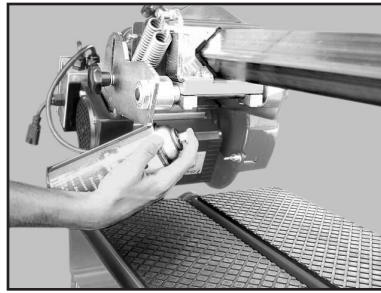


(G)

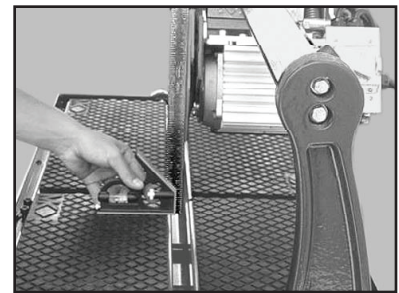
Rod (clean out) the Cooling
Manifold and then recheck flow.

CUTTING HEAD DOES NOT MOVE CORRECTLY

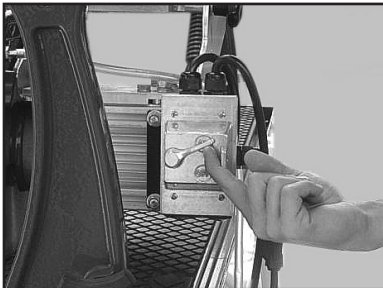
(A)
Check that Guide Rail and
Cutting Head is clean and
clean if dirty



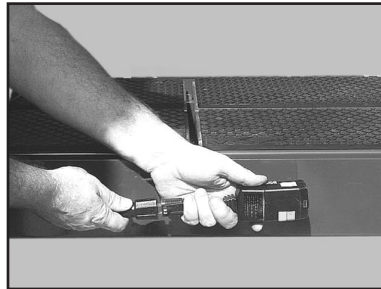
(B)
Lubricate the Guide Rail and
Cutting Head



(C)
Check the Cutting Head
alignment.

BLADE STOPS TURNING

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



(B)
Verify all plugs are fully
connected



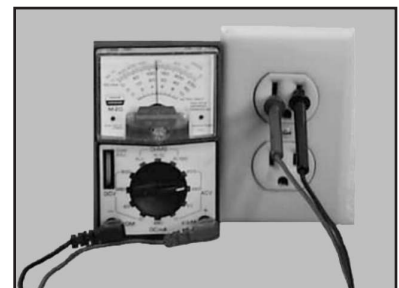
(C)
Check to see if the Ground
Fault Circuit Interrupter
(GFCI) tripped



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

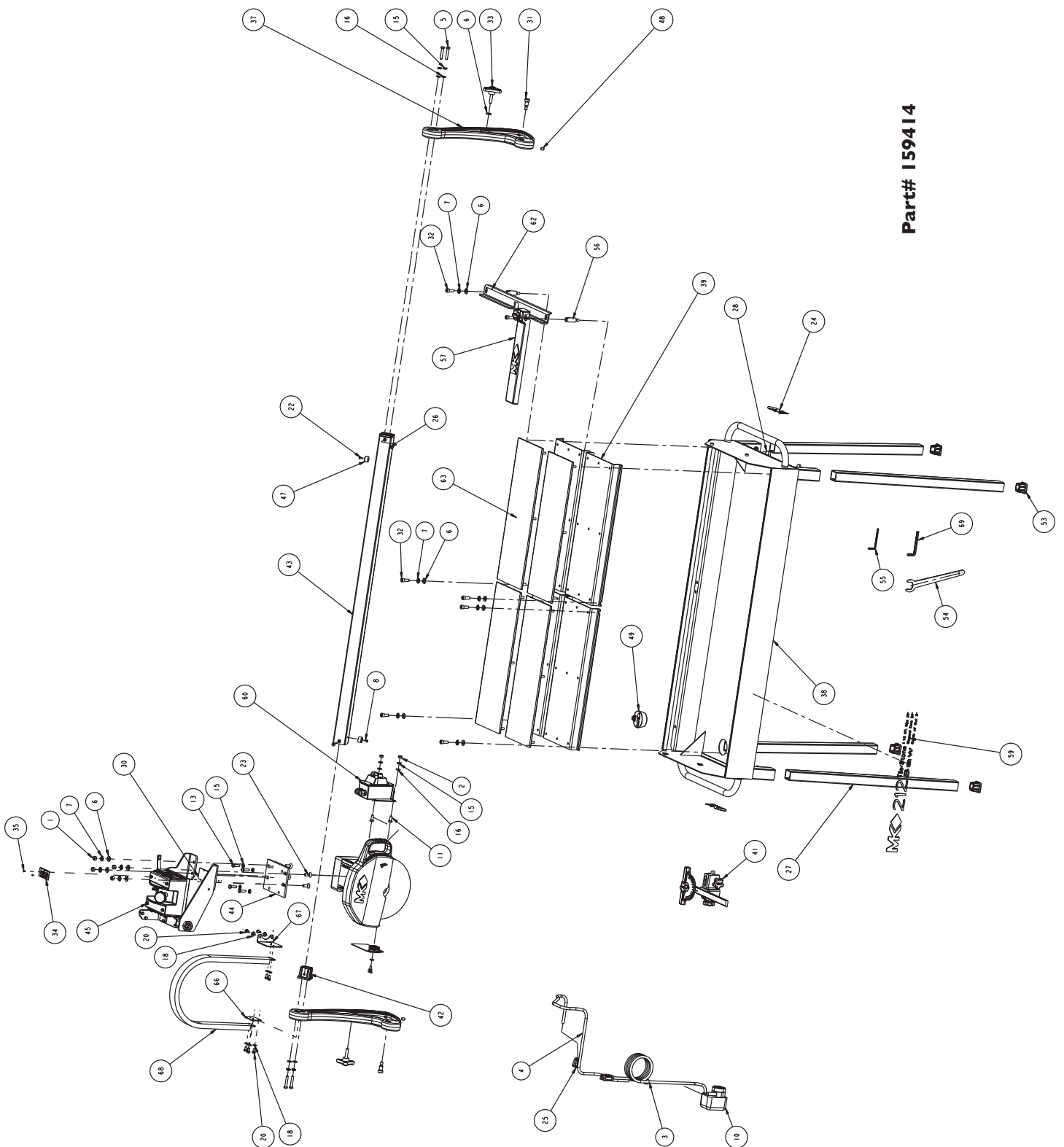


(E)
Verify circuit breaker not
tripped; if it is tripped, reset it
once only



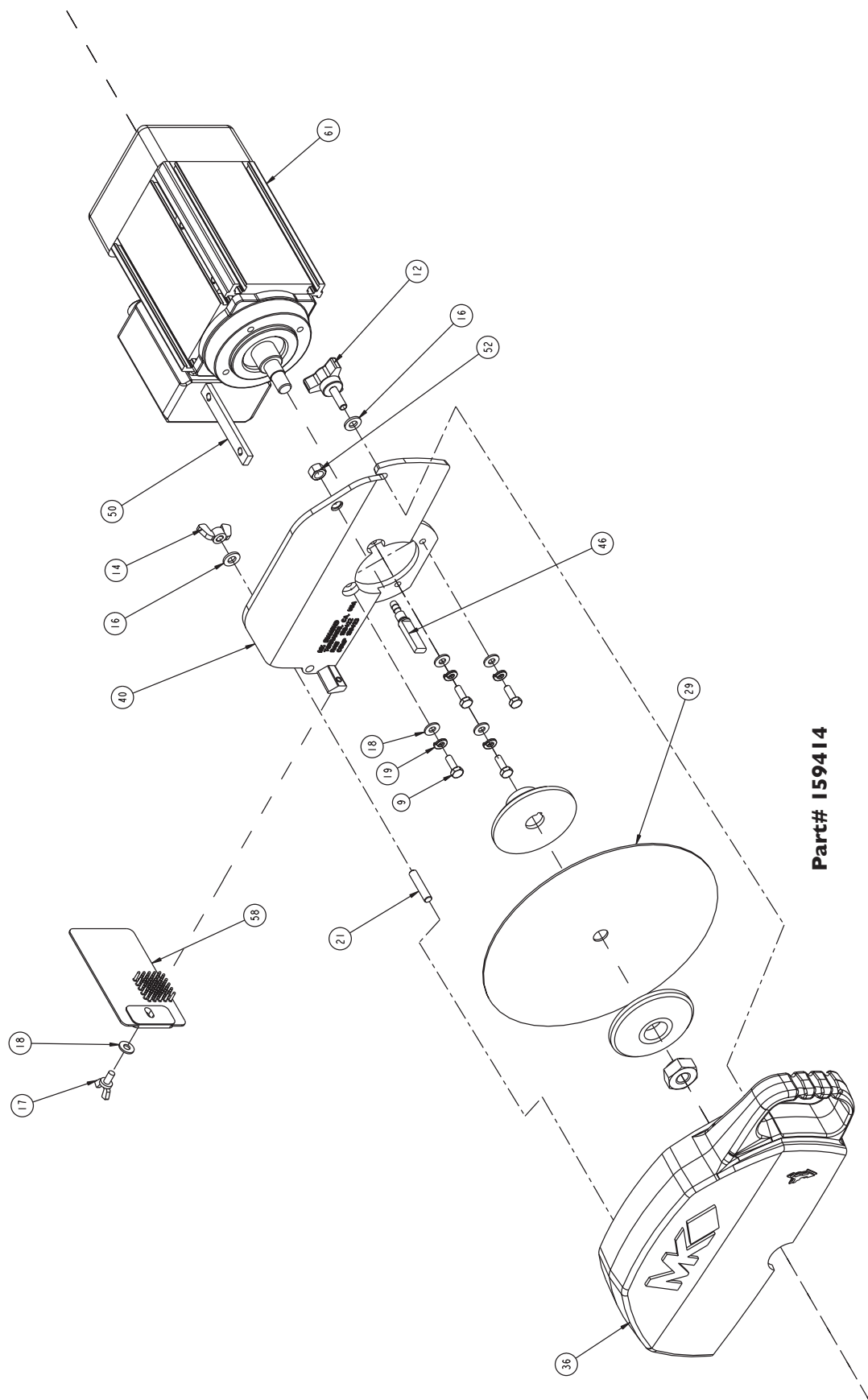
(F)
Check power source voltage
is 115v – if not 115v, move to
another circuit.

NOTES

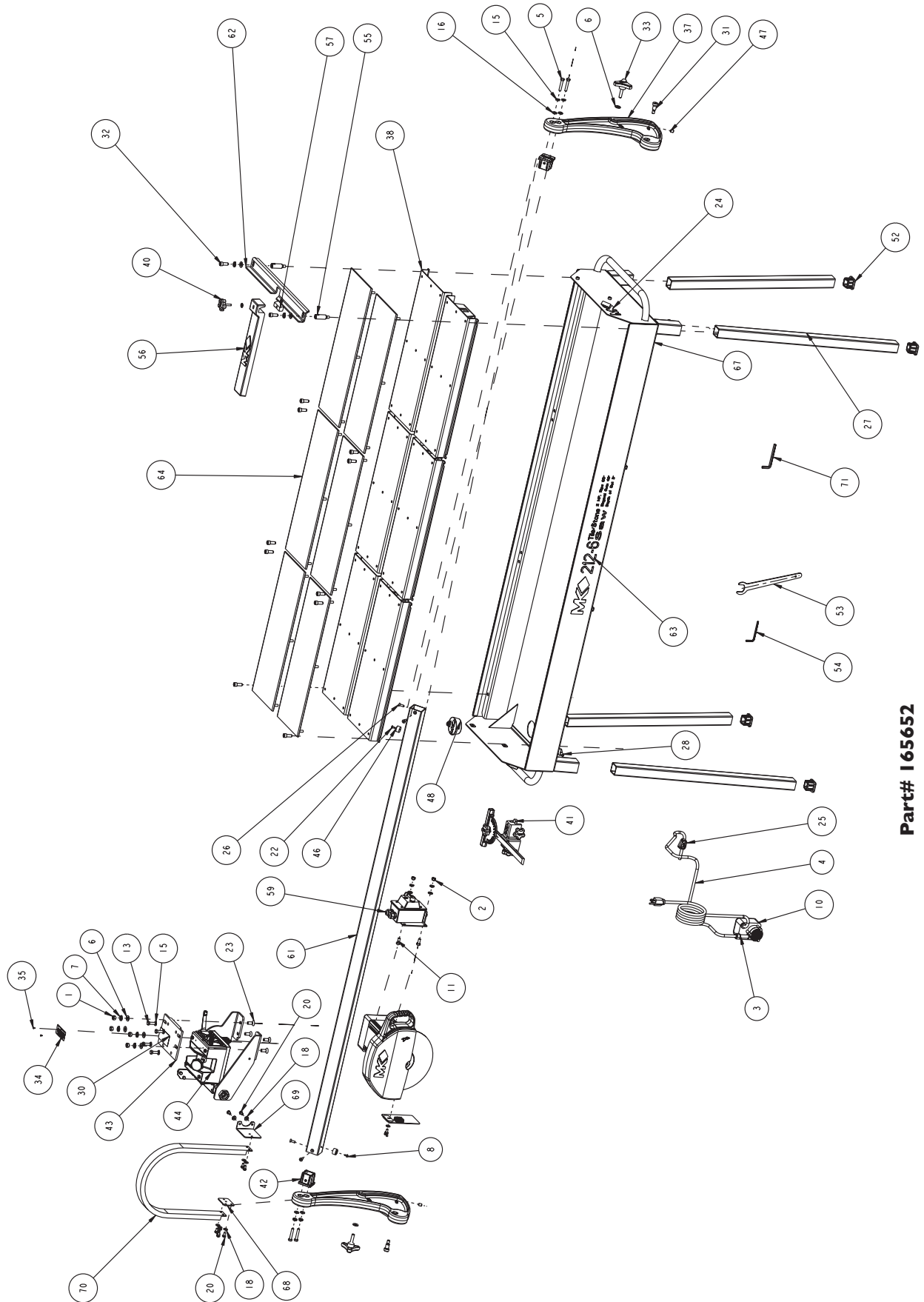


Part# 159414

ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, 3/8-6 HEX	101188	4
2	NUT, HEX, 5/16 - 18	101196	2
3	FITTING, PLASTIC, 1/4 FNPT X 1/4 BARB	128397	1
4	HOSE, VINYL, 3/8 X 1/4	132951	1
5	SCREW, 5/16 - 18 X 1-3/4 HEX HEAD CAP	150919	4
6	WASHER, 3/8 SAE FLAT	150923	15
7	WASHER, 3/8 SPLIT LOCK	150925	12
8	SCREW, PAN HD SELF TPIO-24 X 3/8	151262	1
9	BOLT, HEX HEAD 1/4 20 X 3/4"	151267	4
10	PUMP, WATER 115V/60HZ UL/CSA	151271	1
11	SCREW, 5/16 - 18 X 1 HEX HEAD MACHINE	151743	4
12	KNOB, 5/16-18 NYLOK	151681	1
13	SCREW, 5/16 - 18 X 1 HEX HEAD MACHINE	151743	4
14	WINGNUT, 5/16 - 18 NYLOK	151746	1
15	WASHER, LOCK, SPLIT, 5/16	151747	10
16	WASHER, 5/16 SAE FLAT	151754	8
17	SCREW, WING, 1/4 - 20 X 1/2	151888	1
18	WASHER, 1/4 SAE FLAT	151915	13
19	WASHER, 1/4 SPLIT LOCK	152591	4
20	SCREW, 1/4 - 20 X 1/2 HEX HEAD	152608	8
21	CSTUD, 5/16 - 18 X 1-1/2"	153680	1
22	SCREW, PHILP SELF TAP 10 - 24 X 5/8"	153681	1
23	F.H.C.S. 3/8 - 16 X 1"	154019	4
24	LABEL, 1-3/4 X 5 MK LOGO	154335	2
25	CLAMP, HOSE 1/2 - 3/4	154394	1
26	SCREW, 1/4 - 20 X 3/4 FLAT HEAD PHILLIPS MACHINE	154657	4
27	LEG	155397	4
28	SCREW, THUMB 3/8 - 16 X 3/4"	155398	4
29	BLADE, 10" TILE	155619	1
30	LABEL, SAFETY	155806	1
31	SCREW, SHLDR, SOC HD, 1/2 X 3/4	156177	2
32	SCREW, SOCKET HEAD CAP 3/8 - 16 X	156602	1
33	KNOB, TRI	156770-02	2
34	TAG, SERIAL #, BLANK	157500-RV	1
35	DRIVE SCREW, #7 X 5/16 ROUND HEAD	157849	2

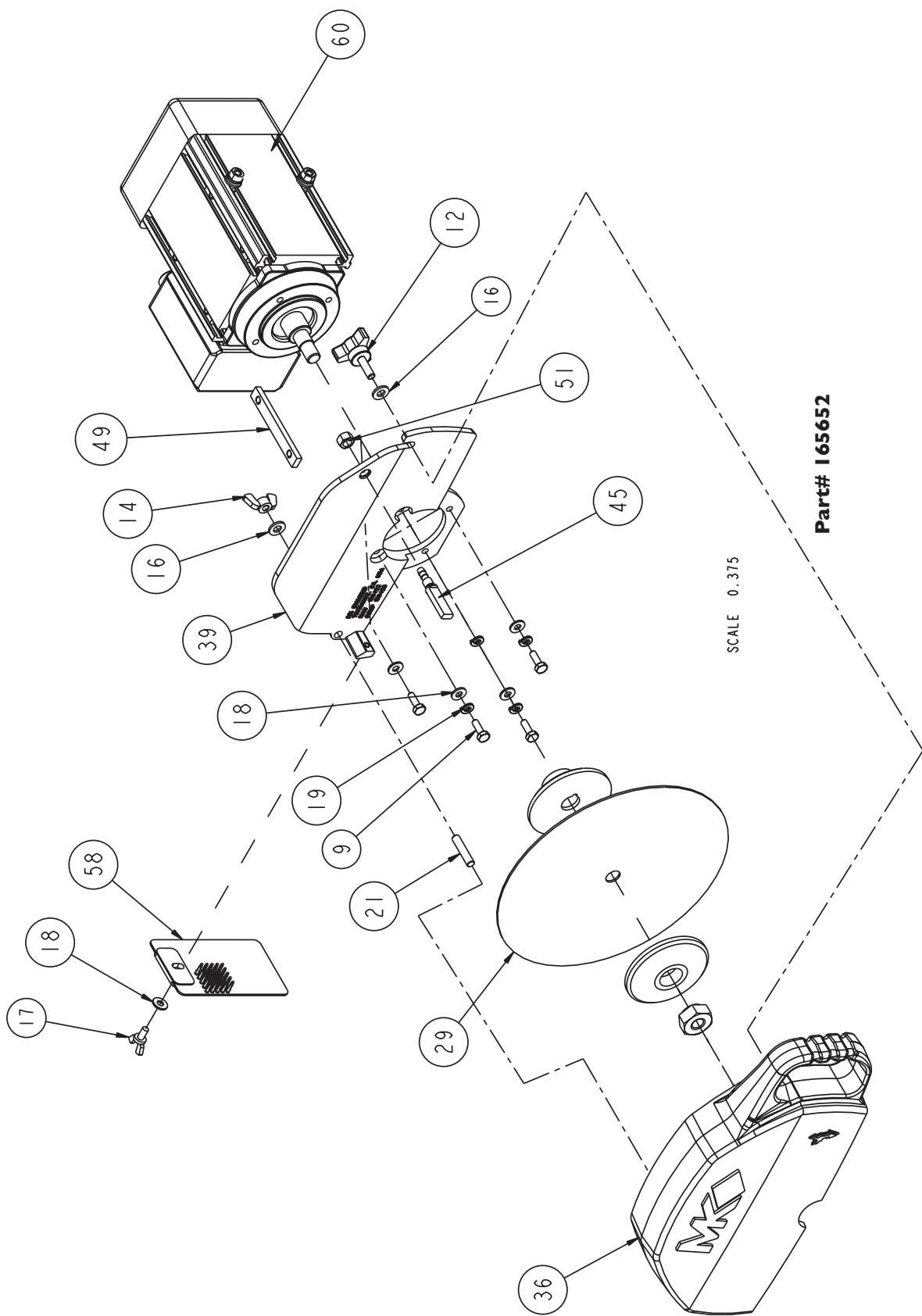


ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
36	GUARD, BLADE	159416	1
37	POST, PIVOT (COMP)	159418	2
38	FRAME, PAN WELDMENT	159419	4
39	TABLE ASSEMBLY	159420	2
40	GUARD, INNER BLADE (COMP)	159423	1
41	PROTRACTOR ASSEMBLY	159572	1
42	BLOCK, RAIL	159622	2
43	RAIL, 2 X 2 X 50	159641	1
44	MOUNT, SOGA MOTOR	159642	1
45	CUTTING HEAD	159853	1
46	MANIFOLD, WATER	159854	1
47	STOP, RUBBER BUMPER	159855	2
48	SCREW, SET UP 3/8 - 16 X 1/2"	159856	2
49	PLUG, 2-1/2 DIA RUBBER	159858	1
50	KEY, MOTOR MOUNT	159859	2
51	OWNERS MANUAL	159862	1
52	NUT, 3/8 - 16 HEX	159863	1
53	FOOT, RUBBER	159977	4
54	WRENCH, 30MM OPEN END, 30DEG	159978	1
55	WRENCH, 5MM ALLEN	159979	1
56	STAND OFF, BACK STOP	160117	2
57	ASSEMBLY, RIP GUIDE	160288	1
58	GUARD, SPLASH	160310	1
59	LABEL, MK-212	160669	2
60	SWITCH BOX	160687	1
61	2 H.P. SOGA 115V MOTOR	162078	1
62	STOP, BACK	165685	1
63	MAT, TABLE	166418	4
64	TAPE, VHB 5952 3M	166487	1
65	PRIMER, 3M 23926	166488	1
66	BRACKET, POST MOUNT	167376	1
67	BRACKET, HEAD MOUNT	167377	1
68	CARRIER, CABLE	167430	1
69	WRENCH, 5/16" ALLEN	167679	1



Part# 165652

ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
1	NUT, 3/8 - 16 HEX	101188	4
2	NUT, HEX, 5/16 - 18	101196	2
3	FITTING, PLASTIC, 1/4 FNPT X 1/4 BARB	128397	1
4	HOSE, VINYL, 3/8 X 1/4	132951	1
5	SCREW, 5/16 - 18 X 1-3/4 HEX HEAD CAP	150919	4
6	WASHER, 3/8 SAE FLAT	150923	15
7	WASHER, 3/8 SPLIT LOCK	150925	12
8	SCREW, PAN HD SELF TPI0-24 X 3/8	151262	1
9	BOLT, HEX HEAD 1/4 - 20 X 3/4"	151267	4
10	PUMP, WATER 115V/60HZ UL/CSA	151271	1
11	SCREW, 5/16 - 18 X 3/4 HEX HEAD MACHINE	151369	2
12	KNOB, 5/16 - 18 X 1	151681	1
13	SCREW, 5/16 - 18 X 1 HEX HEAD MACHINE	151743	4
14	WINGNUT, 5/16 - 18 NYLOK	151746	1
15	WASHER, LOCK, SPLIT, 5/16	151747	10
16	WASHER, 5/16 SAE FLAT	151754	8
17	SCREW, WING, 1/4 - 20 X 1/2	151888	1
18	WASHER, 1/4 SAE FLAT	151915	14 T
19	WASHER, 1/4 SPLIT LOCK	152591	4
20	SCREW, 1/4 - 20 X 1/2 HEX HEAD	152608	8
21	STUD, 5/16 - 18 X 1-1/2"	152608	1
22	SCREW, PHILP SELF TAP 10 - 24 X 5/8"	153681	1
23	F.H.C.S. 3/8 - 16 X 1"	154019	4
24	LABEL, 1-3/4 X 5 MK LOGO	154335	2
25	CLAMP, HOSE 1/2 - 3/4	154394	1
26	SCREW, 1/4 - 20 X 3/4 FLAT HEAD PHILLIPS MACHINE	154657	4
27	LEG	155397	4
28	SCREW, THUMB 3/8 - 16 X 3/4"	155398	4
29	BLADE, 10" TILE	155619	1
30	LABEL, SAFETY	155806	1
31	SCREW, SHLDR, SOC HD, 1/2 X 3/4	156177	2
32	SCREW, SOCKET HEAD CAP 3/8 - 16 X 1	156602	12
33	KNOB, TRI	156770-02	2
34	TAG, SERIAL #, BLANK	157500-RW	1
35	DRIVE SCREW, #7 X 5/16 ROUND HEAD	157849	2



ITEM NO.	DESCRIPTION	PART OR IDENTIFYING NO.	QTY. REQ.
36	GUARD, BLADE	159416	1
37	POST, PIVOT (COMP)	159418	2
38	TABLE ASSEMBLY	159420	3
39	GUARD, INNER BLADE (COMP)	159423	1
40	KNOB, 1/4 - 20 X 1 - 1/4	159428-2	1
41	PROTACTOR ASSEMBLY	159572	1
42	BLOCK, RAIL	159622	2
43	MOUNT, SOGA MOTOR	159642	1
44	CUTTING HEAD	159853	1
45	MANIFOLD, WATER	159854	1
46	STOP, RUBBER BUMPER	159855	2
47	SCREW, SET UP 3/8 - 16 X 1/2"	159856	2
48	PLUG, 2-1/2 DIA RUBBER	159858	1
49	KEY, MOTOR MOUNT	159859	2
50	OWNER MANUAL	159862	1
51	NUT, 3/8 - 16 HEX	159863	1
52	FOOT, RUBBER	159977	4
53	WRENCH, 30MM OPEN END, 30DEG	159978	1
54	WRENCH, 5MM ALLEN	159979	1
55	STAND OFF, BACK STOP	160117	2
56	GUIDE, 15 INCH RIP (COMP)	160286	1
57	PLATE, PRESSURE	160287	1
58	GUARD, SPLASH	160310	1
59	SWITCH BOX	160687	1
60	MOTOR, 115V, 2HP SOGA	162078	1
61	RAIL, 2 X 2 X 50	165651	1
62	STOP, BACK	165685	1
63	LABEL, MK212-6	165928	2
64	MAT, TABLE	166418	4
65	TAPE, VHB 5952 3M	166487	1
66	PRIMER, 3M 23926	166488	1
67	PAN WELDMENT	166547	1
68	BRACKET, POST MOUNT	167376	1
69	BRACKET, HEAD MOUNT	167377	1
70	CARRIER, CABLE	167431	1
71	WRENCH, 5/16" ALLEN	167679	1

THEORY OF DIAMOND BLADES

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





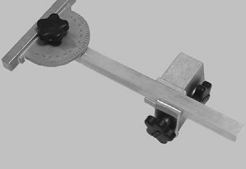


There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on:

- 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 the 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.	Various	MK-275, Marble Profile Wheel	
2.	155619	MK-415, 10" Diamond Blade	
3.	152792	Dressing Stone	
4.	152610	Ground Fault Circuit Interrupter	
5.	See Catalog	Protractor	
6.	165884	Side Table	
7.	166271	Foot Switch	

ORDERING INFORMATION

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

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

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service. For technical questions, call – 800 474-5594 or 310 257-2845.

PACKAGING INSTRUCTIONS

- Remove the Blade guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-212 saw, Diamond Blade, Blade guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS

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

MK-212 Series Saw
OWNERS MANUAL & OPERATING INSTRUCTIONS
DOCUMENT NO. I59862



MK Diamond Products, Inc.

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

Toll-Free: (800) 845-3729
Phone: (310) 539-2221
Fax: (310) 539-5158
www.mkdiamond.com