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

Congratulations on your purchase of a MK-101-24 Tile Saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-101-24 should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your Tile Saw safely and correctly. Please take a few minutes to familiarize yourself with the saw by reading and reviewing this manual.

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

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

<table>
<thead>
<tr>
<th>MODEL NUMBER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIAL NUMBER:</td>
</tr>
<tr>
<td>PURCHASE PLACE:</td>
</tr>
<tr>
<td>PURCHASE DATE:</td>
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</tbody>
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WARRANTY: For your (1) one year warranty to be effective, complete the online Product Registration as soon as possible. Visit www.mkdiamond.com/registration/
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Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life. Safety warnings and guidelines do not by themselves eliminate danger. They are not substitutes for proper accident prevention procedures and good judgement.

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

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

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

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

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

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

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS
In order to prevent injury, the following safety precautions and symbols should be followed at all times!

SAFETY PRECAUTIONS

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

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

Never operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job. Non-slip foot wear is recommended.
PERSONAL PROTECTIVE EQUIPMENT
ALWAYS wear approved respiratory, head, ear and eye protection when operating this machine.

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

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

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

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

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

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

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

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

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

MAKE THE WORKSHOP KID PROOF
Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

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

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

SECURE WORK

![WARNING]
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

![WARNING]
Keep proper footing and balance at all times by not overreaching.

DISCONNECT TOOLS

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

MAINTAIN TOOLS WITH CARE

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

REMOVE ADJUSTING KEYS AND WRENCHES

![WARNING]
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

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

DO NOT USE IN DANGEROUS PLACES

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

USE RECOMMENDED ACCESSORIES

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

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

NEVER STAND ON THE TOOL

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

TRANSPORT

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

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

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

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

NEVER use this machine with any cutter designed for woodworking.

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

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

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

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

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

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

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

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

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

http://www.cdc.gov/niosh/topics/respirators


CALIFORNIA PROPOSITION 65 MESSAGE

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

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

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

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.
Lisez et suivez toutes les consignes de sécurité, d'utilisation et d'entretien. Ne pas lire et suivre ces consignes pourrait entraîner des blessures, voire la mort, pour vous ou d'autres personnes. Ne pas lire et suivre ces consignes pourrait aussi endommager et/ou raccourcir la durée de vie de l'équipement. Les avertissements et les directives de sécurité n'éliminent pas, par eux-mêmes, les risques. Ils ne remplacent pas les mesures efficaces de prévention des accidents et le bon jugement.

MESSAGES DE SÉCURITÉ
Un message de sécurité vous signale les dangers potentiels pour vous ou d'autres personnes. Chaque message de sécurité est précédé par un symbole d'alerte de sécurité (⚠️) et par l'un des trois mots suivants : DANGER, AVERTISSEMENT ou ATTENTION.

⚠️ DANGER LE NON-RESPECT des consignes entraînera des BLESSURES GRAVES voire la MORT.

⚠️ AVERTISSEMENT LE NON-RESPECT des consignes PEUT ENTRAÎNER des BLESSURES GRAVES voire la MORT.

⚠️ ATTENTION LE NON-RESPECT des consignes PEUT ENTRAÎNER des BLESSURES. Il peut également être utilisé pour alerter contre les pratiques dangereuses.

PREVENTION DES DOMMAGES ET MESSAGES D'INFORMATION
Un message de prévention des dommages doit informer l'utilisateur des informations et/ou consignes importantes, qui, si elles ne sont pas suivies, pourraient endommager l'équipement ou conduire à d'autres dommages matériels. Les messages d'information transmettent des informations relatives à l'équipement utilisé. Chaque message sera précédé par le mot REMARQUE, comme dans l'exemple ci-dessous.

REMARQUE : Des dommages à l'équipement et/ou des dommages matériels peuvent survenir si les instructions ne sont pas suivies.

CONSIGNES DE SÉCURITÉ GÉNÉRALES ET SYMBOLES DE DANGER
Afin de prévenir les blessures, les consignes et les symboles de sécurité suivants doivent être respectés en tout temps!

TOUJOURS lire ce manuel avant d'utiliser l'outil. NE PAS utiliser ou entretenir cet équipement avant d'avoir lu ce manuel en entier. Lire et comprendre tous les avertissements, instructions et commandes de l'outil. Savoir comment arrêter rapidement l'équipement en cas d'urgence. Il est de la responsabilité de l'opérateur d'utiliser cet outil dans des conditions de travail sûres et conformes aux codes et règlements fédéraux, provinciaux et locaux relatifs à la sécurité, l'air, la pollution, le bruit, etc.

TOUJOURS garder les protections de la lame et de la courroie en place. NE PAS utiliser cet outil en l'absence d'un dispositif de protection ou de sécurité. Une protection ou toute pièce endommagée doit être réparée ou remplacée immédiatement.

NE JAMAIS utiliser cet équipement sans vêtements de protection appropriés, lunettes incassables, bottes à embout d'acier et autres dispositifs de protection requis par la tâche. Il est conseillé d'utiliser des chaussures antidérapantes.
Tous les visiteurs et les enfants doivent se tenir à bonne distance de la zone de travail. Maintenir une distance d'utilisation sécuritaire par rapport aux autres membres du personnel.

**GARDER LES ENFANTS À L'ÉCART**

Tous les visiteurs et les enfants doivent se tenir à bonne distance de la zone de travail. Maintenir une distance d'utilisation sécuritaire par rapport aux autres membres du personnel.

**RENDRE L’ATELIER SÛR POUR LES ENFANTS**

Rentre les ateliers sûrs pour les enfants à l'aide de cadenas, d'interrupteurs principaux ou en retirant les clés de démarrage.

**NE PAS FORCER L’OUTIL**

Un outil électrique exécutera la tâche mieux et de manière plus sûre s'il est utilisé dans les limites prévues. **NE PAS** forcer un outil ou un accessoire à exécuter une tâche pour laquelle il n’est pas conçu.
UTILISER DES VÊTEMENTS APPROPRIÉS
NE PAS porter de vêtements amples, gants, cravates, bagues, bracelets ou autres bijoux susceptibles de se prendre dans les pièces mobiles. Le port de chaussures antidérapantes est recommandé. Les cheveux longs doivent être ramassés sous un couvre-chef.

FIXER LES PIÈCES DE TRAVAIL
Dans la mesure du possible, utiliser des serre-joints ou un étau pour maintenir la pièce de travail. Il est plus sûr de garder les mains libres pour manœuvrer un outil électrique.

NE PAS TRAVAILLER HORS DE PORTÉE
Toujours se tenir bien campé et avoir un bon équilibre en ne travaillant pas hors de portée.

DÉBRANCHER LES OUTILS
Les outils électriques doivent toujours être débranchés avant l'entretien, le réglage ou le remplacement des accessoires, tels que lames, fraises et autres.

ENTREtenir SOIGNEUSEMENT LES OUTILS
Garder les outils propres et bien entretenus pour une performance optimale et sécuritaire. Toujours suivre les instructions d'entretien et examiner l'outil avant utilisation. Si des vibrations ou des bruits anormaux se produisent, éteindre immédiatement l'outil et faire corriger le problème avant toute nouvelle utilisation.

RETIRER LES CLÉS ET OUTILS DE RÉGLAGE
Prendre l'habitude de vérifier que tous les outils et les clés de réglage ont été retirés de l'outil électrique avant de le mettre en marche.

GARDER LE LIEU DE TRAVAIL PROPRE
Un lieu de travail ou un établi encombré est propice aux accidents. Garder la zone autour de la machine dégagée de tout obstacle qui pourrait faire tomber quelqu'un.

NE PAS UTILISER DANS DES ENDROITS DANGEREUX
NE PAS utiliser l'équipement dans des environnements dangereux. NE PAS utiliser les outils électriques dans des endroits mouillés ou humides, ne pas les exposer à la pluie. Toujours garder le lieu de travail bien éclairé.

UTILISER LES ACCESSOIRES RECOMMANDÉS
Voir les accessoires recommandés dans le manuel d'utilisation. L'utilisation d'accessoires inadéquats peut augmenter le risque de blessure du personnel ou des passants. Les modifications non autorisées de l'équipement annuleront toutes les garanties. Le fabricant décline toute responsabilité pour tout accident dû à une modification de l'équipement.

Toujours s'assurer que la machine est sur un terrain plat avant de l'utiliser.

NE JAMAIS SE TENIR DEBOUT SUR L'OUTIL
Le basculement de l'outil électrique ou un contact accidentel avec l'accessoire de coupe peut causer des blessures graves.

TRANSPORT
Faire preuve de prudence lors du chargement ou déchargement de l'outil. Retirer la lame avant le levage, le chargement et le transport de l'outil.
VÉRIFICATION DES PIÈCES ENDOMMAGÉES
Avant d'utiliser un outil électrique, vérifier s'il y a des pièces endommagées. Examiner soigneusement les pièces et dispositifs de protection qui semblent endommagés afin de déterminer s'ils fonctionnent correctement et remplissent les fonctions prévues. Vérifier toujours l'alignement et le réglage corrects des pièces mobiles. Vérifier s'il y a des pièces ou des supports cassés et toutes autres conditions qui peuvent affecter le fonctionnement de l'outil électrique. Une protection ou toute pièce endommagée doit être correctement réparée ou remplacée. Vérifier toujours l'outil pour d'éventuels boulons desserrés avant de le démarrer.

SENS DE ROTATION
Une lame ou un outil tranchant doit toujours être installé de telle sorte que la rotation s'effectue dans le sens de la flèche imprimée sur le côté de la lame ou de l'outil tranchant. Elle doit correspondre au sens de rotation du moteur. Toujours alimenter le matériau à couper vers une lame contre le sens de la rotation.

NE JAMAIS LAISSER UN OUTIL SANS SURVEILLANCE
COUPER LE COURANT - Ne pas s'éloigner de l'outil avant qu'il soit parvenu à un arrêt complet. TOUJOURS mettre l'outil électrique hors tension au moment de quitter la zone de travail, ou, lorsqu'une coupe est terminée.

NE JAMAIS débrancher tous les « dispositifs d'urgence ou de sécurité ». Ces dispositifs sont prévus pour la sécurité de l'opérateur. La déconnexion de ces dispositifs peut causer des blessures graves, des lésions corporelles, voire la mort! La déconnexion d'un de ces dispositifs annulera toutes les garanties. Les modifications non autorisées de l'équipement annuleront toutes les garanties. Le fabricant décline toute responsabilité pour tout accident dû à une modification de l'équipement.

NE JAMAIS utiliser cette machine avec un outil de coupe conçu pour le travail du bois.

NE JAMAIS utiliser cet équipement lorsqu'on ne se sent pas bien en raison de la fatigue, une maladie ou des médicaments.

NE JAMAIS utiliser cet équipement sous l'influence de l'alcool ou de drogues.

Sur les équipements actionnés par courroie, tendre excessivement les courroies peut entraîner une usure prématuro de vilebrequin et/ou des roulements.

Chaque fois que nécessaire, remplacer la plaque signalétique ainsi que les autocollants d'utilisation et de sécurité quand ils deviennent difficiles à lire.

TOUJOURS ranger l'équipement correctement lorsqu'il n'est pas utilisé. L'équipement doit être rangé dans un endroit propre et sec, hors de portée des enfants.

NE PAS prêter ou louer cet équipement sans inclure le manuel d'utilisation et le manuel du fabricant du moteur.

Vérifier les propriétés chimiques de la matière à découper/rectifier et respecter toutes les réglementations EPA/OSHA.
AVERTISSEMENT SUR LA POUSSIÈRE DE SILICE

La rectification/la coupe/le perçage de la maçonnerie, du béton, du métal et d'autres matériaux contenant de la silice dans leur composition peut dégager de la poussière ou des nuages contenant de la silice cristalline. La silice est un composant de base du sable, du quartz, de la brique d'argile, du granit et de nombreux autres minéraux et roches. L'inhalation répétée et/ou substantielle de silice cristalline aéroportée peut causer des maladies respiratoires graves, voire mortelles, y compris la silicose. En outre, la Californie et d'autres autorités ont classé la silice cristalline respirable comme une substance connue pour causer le cancer. Lors de la découpe de tels matériaux, suivez toujours les précautions respiratoires.

Utiliser une protection respiratoire appropriée et approuvée NIOSH lorsqu'il existe un risque de poussière. Les masques en papier ou les masques chirurgicaux sans numéro d'homologation NIOSH ne sont pas recommandés, parce qu'ils ne protègent pas suffisamment le travailleur. Pour plus d'informations sur les programmes respiratoires, y compris quels appareils respiratoires ont reçu l'homologation NIOSH attestant qu'ils sont sûrs et efficaces, veuillez visiter le site Web NIOSH à l'adresse : http://www.cdc.gov/niosh/topics/respirators

SÉCURITÉ DU MOTEUR ÉLECTRIQUE

Pour les soins et les interventions d'entretien du moteur électrique, reportez-vous au livret d'instructions de votre moteur électrique fourni avec le moteur électrique. Protéger le moteur électrique contre la poussière autant que possible et garder les ouvertures de ventilation propres. Avant de brancher l'outil, s'assurer que la tension de sortie est dans la plage indiquée sur la plaque signalétique de l'outil.

![Attention]

NE PAS pulvériser de l'eau sur le moteur électrique. NE PAS toucher la fiche avec des mains humides. Pour réduire le risque d'électrocution, garder toutes les connexions au sec et au-dessus du sol.

NE PAS faire fonctionner le moteur électrique dans un environnement explosif.

NE PAS EXPOSER À LA PLUIE
NE PAS exposer à la pluie ou l'humidité.

![Avertissement]

Si l'utilisation de l'équipement dans des endroits humides est inévitable, utiliser TOUJOURS un disjoncteur différentiel, porter TOUJOURS des gants et des chaussures en caoutchouc dans les conditions humides.

NE PAS maltraiter le cordon d'alimentation. Ne jamais utiliser le cordon d'alimentation pour transporter l'équipement et ne jamais débrancher ce dernier en tirant sur le cordon. Garder le cordon éloigné de la chaleur, des arêtes vives et des pièces mobiles. Remplacer immédiatement tout cordon endommagé. Un cordon endommagé accroît le risque de choc électrique.

![Avertissement]

Pour réduire le risque d'électrocution, garder toutes les connexions au sec et au-dessus du sol. Les circuits et prises sur lesquels cet outil est branché doivent être protégés par un disjoncteur différentiel (GFCI). Des prises avec un disjoncteur différentiel intégré sont disponibles et peuvent être utilisées pour satisfaire à cette mesure de sécurité. Lors de l'utilisation d'une rallonge, le disjoncteur différentiel doit être installé au plus près de la source d'alimentation, suivi par la rallonge puis enfin, par l'outil.

![Avertissement]

La pompe à eau nécessite un disjoncteur différentiel. Pour réduire le risque de décharge électrique lors de l'utilisation de l'outil avec la pompe branchée dans la prise à 3 pôles sur le moteur, connecter l'appareil à une prise GFCI. Consulter le manuel de la pompe et les balises d'information jointes séparément pour toute information sur la pompe.
ELECTRIC MOTOR SAFETY

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

**CAUTION**

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

**DO NOT** operate electric motor in an explosive environment.

**DO NOT EXPOSE TO RAIN**

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

**WARNING**

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

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

**WARNING**

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

**WARNING**

The water pump requires a GFCI. To reduce risk of electrical shock when operating the machine with the pump plugged into the 3-pole receptacle on the motor, connect the saw to a GFCI outlet. See the pump manual and informational tags enclosed separately for all pump information.
In order to prevent 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 electrical current to reduce the risk of electric shock. This tool is equipped with an electric cord which has 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.

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, plug, 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.

**NOTE:** If permanently connected this tool should be connected to a grounded metal permanent wiring system; or to a system having an equipment - grounding conductor.
**WARNING**
To avoid the possibility of the appliance or plug receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping into the receptacle or plug. A "drip loop," shown in the picture below, should be arranged by the user to properly position the power cord relative to the power source. Use the drip loop as a way to prevent GFCI and plug from getting wet.

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

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

![Drip Loop Information](image)

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

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

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

To choose the proper extension cord,

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

<table>
<thead>
<tr>
<th>MOTOR SPECS</th>
<th>EXTENSION CORD LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25'</td>
</tr>
<tr>
<td>168022G</td>
<td>12 ga</td>
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</table>

Motor Voltage Amps
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.

**WARNING**
- Use of this equipment can expose you to chemicals including nickel and crystalline silica which are known to the State of California to cause cancer.
- For more information go to www.P65Warnings.ca.gov.
- Repeated and/or substantial inhalation can cause serious or fatal respiratory diseases including silicosis.
- Employ dust controls and protection per OSHA/NIOSH/MSHA.

Part # 164202

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

Part # 154822

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

Part # 155678

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

Part # 155038

**NOTICE**
- Most motor problems are caused by low voltage from improper extension cords. See owner’s manual for extension cord selection.

Part # 155672

![Scan for manuals](#)

### Decal/Label Table

<table>
<thead>
<tr>
<th>Decal/Label</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Motor - Front</td>
<td>Warning - Silica Warning</td>
</tr>
<tr>
<td>B</td>
<td>Motor - Front</td>
<td>Warning - Read and Follow Operating Instructions</td>
</tr>
<tr>
<td>C</td>
<td>Motor - Back</td>
<td>Caution - Receptacle for water pump</td>
</tr>
<tr>
<td>D</td>
<td>Motor - Back</td>
<td>Caution - Use with GFCI only</td>
</tr>
<tr>
<td>E</td>
<td>Motor - Side</td>
<td>Service/ Warranty</td>
</tr>
<tr>
<td>F</td>
<td>Motor - Side</td>
<td>Notice - Voltage/Extension Cords</td>
</tr>
<tr>
<td>G</td>
<td>Motor - Front</td>
<td>QR Code for Manuals</td>
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</table>
The MK-101-24 is a versatile Tile Saw. Operated and used according to this manual, the unit will provide years of dependable service.

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

### Specifications for the MK-101-24

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Voltage</td>
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<tr>
<td>Overall Amperage</td>
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<td>Frequency</td>
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<tr>
<td>Blade RPM</td>
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<tr>
<td>Blade Capacity</td>
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<td>Arbor Size</td>
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<tr>
<td>Depth of Cut (10&quot; Blade)</td>
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<td>Length of Cut</td>
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<tr>
<td>Diagonally Cuts</td>
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<tr>
<td>LxWxH (inches)</td>
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<tr>
<td>LxWxH (mm)</td>
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<tr>
<td>Part #</td>
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UNPACKING

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

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

**NOTE:** A silicon plug on the cutting table covers the leveling set screw. This is a factory adjustment to ensure precision cutting.

In your container, you will find one (1) MK-101-24 frame and water basin, one (1) MK-101-24 Cutting Head, one (1) 10-inch wet cutting continuous rim diamond blade, one (1) adjustable cutting guide, one (1) electric water pump, one (1) cooling transfer tube, one (1) flow adjusting clamp, one (1) drain plug, one (1) blade wrench, one (1) splash guard, one (1) tri-knob, one (1) owners manual, one (1) pump manual and one (1) warranty card.
1. The MK-101-24 weighs approximately ninety-eight (98) pounds.

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

**TRANSPORT**

**CAUTION**

1. The MK-101-24 weighs approximately ninety-eight (98) pounds.

**STAND (Optional)**

**CAUTION**

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

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

(A) Open the stand and place on flat surface
(B) Remove Water Basin, place saw on stand
(C) Ensure the back of the saw frame is positioned properly
(D) The front of the saw frame will extend 7” in front of the stand
(E) Reinstall the Water Basin
Cutting Head Installation

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

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

⚠️ CAUTION The cutting head is heavy. Care must be used when installing it.

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

(B) Align Cutting Head front Pivot Hole to the Post Shaft and slide onto shaft.

(C) Install the Cutting Head into the post 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.
Diamond Blade Installation

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

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

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

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

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

(E) Install Diamond Blade onto Blade Shaft.

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

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

CAUTION
Adjustable Cutting Guide Installation

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

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

Splash Guard Installation

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

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

Water Pump Preparation

(A) Install Water Pump Discharge Fitting.

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

(C) Slide Cooling Flow Adjusting Clamp onto the Cooling Transfer Tube.
Pre-start Inspection

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

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

(B) Verify the Movable Cutting Table moves freely.

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

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

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

Connecting the Water Pump

**WARNING**

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

**NOTE:**

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

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

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

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

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

External Water Source

This is the preferred method of cooling.

(A) Remove the Drain Plug. Place empty container under hole for water drainage.
(B) Place the Water Pump in an external container and fill until water completely covers the Water Pump suction.

Re-circulation

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

(A) Ensure the Drain Plug is installed in the Water Basin.
(B) Place Water Pump in Water Pan. Fill the Water Basin until water completely covers the Water Pump suction.

SETUP FOR OPERATION

⚠️ CAUTION

1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing it’s intended function. Check for binding and proper alignment of moving parts. Check for damaged, broken, or missing parts.
2. Verify the On/Off switch is in the OFF position.
3. Before connecting the MK-101-24 to a power supply, be sure the voltage, cycle and phase of the job site power source meet these requirements.
4. If using an extension power cord, make sure, the length and wire gauge correspond to the requirements listed in on page 12. An extension power cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.

5. Use an approved Ground Fault Circuit Interrupter (GFCI)

6. Do not cover the motor vents as this could lead to motor overheating.

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

### PORTABLE GENERATOR

If using a portable generator, ensure the generator meets the following minimum requirements:

- **5 KW** 120/240 volts 41.7/20.8 amps  Single Phase

### ELECTRIC RECEPTACLE

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

<table>
<thead>
<tr>
<th>VOLTAGE:</th>
<th>120V</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYCLE:</td>
<td>60hz</td>
</tr>
<tr>
<td>PHASE:</td>
<td>1-phase</td>
</tr>
</tbody>
</table>

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

- **A)** Loosen Cutting Head Adjusting Knob.
- **B)** Set cutting depth approximately 1/4 to 1/2 inch below the surface of the Movable Cutting Table.
- **C)** Tighten the Adjusting Knob.
Cutting Straight Edges

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

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

(B) Tighten the retaining thumbscrew.

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

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

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

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

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

(A) Remove the Adjustable Cutting Guide.

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

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

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

(E) Perform the cut. Turn the motor OFF when work is complete.
45° Miter Cutting (Optional)

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

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

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

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

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

(D) Perform the cut. Turn the motor OFF when work is complete.
Off-angle Cutting (Optional)

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

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

(A) Place the 90° Protractor on the Ruler/Stop.

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

(C) Position the 90° Protractor and tighten the retaining thumbscrew.

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

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

(F) Perform the cut. Turn the motor OFF when work is complete.
Adjusting the Cutting Head

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

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

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

(B) Remove the Blade. Remove Adjusting Knob.

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

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

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

(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.
CAUTION

Hold the Post when removing the Post Support Plate.

(A) Remove Water Basin and Blade.

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

(C) Loosen the Post Support and retaining bolts.

(D) Remove the Post Support and Retaining Bolts.

(E) Remove and relocate the Post to the rear Post retaining holes.

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

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

(H) Install the Water Basin and Blade.

CAUTION

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

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

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

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

(C) Remove the Water Basin.

(D) Clean the Movable Cutting Table Guide Bar.

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

(F) Clean the remainder of the saw.

**CAUTION**

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

**CAUTION**

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

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

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

Maintenance Following Use

To extend the life of the MK-101-24, the following procedure should be performed after each use. Lubricate all points listed below with light oils such as, MK Linear Guide Bar Lubricant, 3-IN-ONE oil, or other multipurpose spray lubricant.

CAUTION

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

The following maintenance should be performed Monthly.

(A) Remove the Diamond Blade.

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

(C) Lubricate the Arbor Shaft.

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

(E) Verify all motor mounting Bolts are tight.

(F) Verify the Motor Adjustment Strap is tight.

(G) Remove the Blade Guard.

(H) Lubricate the Blade Guard Pivot Shaft.

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

Blade Dressing

Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or "glazed" over. This will reduce grinding efficiency and may cause the blade to "wander" or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (MK Diamond Part No 152792) and by following the steps below.

- **(A)** Setup the MK100 for operation (See Setup, Adjustment and Operation).
- **(B)** Set the Adjustable Cutting Guide to cut a 1/16-strip.
- **(C)** Position the Dressing Stick. Cut 2 or 3 strips from the dressing stick to dress the Blade.
NOTE: When installing the Retaining Nut, do not "cross-thread" and DO NOT over tighten the nut.

**Diamond Blade Change-out**

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

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

(C) Remove the Diamond Blade

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

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

(F) Depress and hold the Shaft Lock button and tighten Retaining Nut
The MK-101-24 is designed with power transmission Micro-V Belt. In order to ensure the MK-101-24 operates a peak efficiency, the Micro-V Belt should be inspected monthly, and changed if the Micro-V Belt shows damage and/or excessive wear.

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

- **(A)** Remove the Diamond Blade
- **(B)** Remove the Cutting Head (See Adjusting the Cutting Head)
- **(C)** Remove the two top Belt Guard Bolts
- **(D)** Remove Belt Guard bottom bolt
- **(E)** Inspect the Micro-V Belt for cracks, fraying, separation and wear. Go to step H if replacement is required
- **(F)** Check belt for proper tension. If tension correct, go to step Q (proper tension should be 1/8-inch deflection)
- **(G)** Loosen the two front motor mounting bolts. If re-tensioning only, go to step N
- **(H)** Loosen the two back motor mounting bolts
- **(I)** Loosen the Motor Adjustment Strap
Push the motor toward the front of the Cutting Head to loosen the Micro-V Belt

Remove the Micro-V Belt

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

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

Tighten the Motor Adjustment Strap to remove slack

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

Tighten the four motor mounting bolts

Install the Belt Guard
Blade will not cut properly

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

(B) Check for proper blade rotation.

(C) Ensure the Blade Core is not bent.

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

Movable Cutting Table Does Not Move Correctly

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

(B) Check the Movable Cutting Table Roller Wheels for wear – replace if necessary.
Verify the cooling flow Adjusting Clamp is open. If flow exists, go to Step B.

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

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

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

Remove the Blade Guard Intake Fitting. Go to Step F.

Remove the Cooling Channel cover screws. Go to step G.

Rod the Cooling Channels and then recheck flow.

NOTE: "Rodding" cooling channels is performed by inserting a small wire rod through the cooling inlet on top of the Blade Guard and directing the rod out through each of the cooling flow tubes located on the underside of the Blade Guard. The cooling channels should be “rodded” until all ports are free of foreign debris.
**Blade Stops Turning**

(A) Allow motor to cool and depress motor Overload Reset Switch

(B) Verify all plugs fully installed. Check Ground Fault Circuit Interrupter

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

**Blade Alignment Procedure**

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

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

**Tools Needed**

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

(A) Remove Water Pan.
(B) Inspect Diamond Blade for damage.
(C) Loosen front and rear Guide Bar Retaining Bolts.

Horizontal Rough Alignment

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

(A) Position Cutting Head to normal Cut Depth.
(B) Move Guide Bar until Blade is centered in Cutting Groove. Tighten rear guide bar retaining bolt.
(C) Pull Movable Cutting Table to front of Tile Saw.
(D) Position Square flat on Movable Cutting Table against Ruler/Stop. Position front of Square against Blade.
(E) Move Guide Bar until Square rests evenly across Blade.
Horizontal Alignment Verification

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

(B) Tighten Guide Bar Retaining Bolts.

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

90° Alignment Verification

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

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

(A) Remove Blade Guard and water pan.

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

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

(D) If not Square, loosen Movable Cutting Table Wheel Assembly to adjust. Move Wheel Assembly up or down to Square the Movable Cutting Table.

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

(F) Re-verify the Diamond Blade is Square to the Movable Cutting Table.
<table>
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<th>DESCRIPTION</th>
<th>PART #</th>
<th>QTY.</th>
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## MK-101-24

### PARTS LIST

**ASSEMBLY CUTTING HEAD P/N 168167**

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### Table Assembly Table P/N 158191

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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 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
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<td>MK-200. 10&quot; X 5/8&quot; ARBOR&lt;br&gt;Premium grade Diamond Blade for smooth, chip-free cutting on tile.</td>
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<td>MK-215, 10&quot; X 5/8&quot; ARBOR&lt;br&gt;Supreme grade diamond blade for hard materials</td>
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<td>MK-315, 10&quot; X 5/8&quot; ARBOR&lt;br&gt;Supreme super hi-rim diamond blade</td>
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<td>153201-MK</td>
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ORDERING INFORMATION
You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

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

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

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

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

NOTE: When returning all items, they must have been purchased within the previous 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 the RGA number is on the outside of the returned package
• Ensure your item(s) are prepaid to the destination
For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service.

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

AUTHORIZED SERVICE CENTERS
For quicker repair time, you may contact MK Diamond Customer Service, toll free, at 800 421-5830 or 310 539-5221 for the Authorized Service Center closest too you or visit our web site at www.mkdiamond.com. For technical questions, call – 800 474-5594.
Please contact MK Diamond Products, Inc. Customer Service Department with any questions you might have regarding distributors, parts or service.

Telephone: (800) 421-5830
Fax: (310) 539-5158
E-mail: Customer_Service@MKDiamond.com
Customer Service Hours: Monday through Friday, 6AM-4PM PST

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

MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY

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

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

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

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

WARRANTY: For your (1) one year warranty to be effective, complete the online Product Registration as soon as possible. Visit www.mkdiamond.com/registration

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

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

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