

# MK-101 PRO24 TILE SAW

## OWNER'S MANUAL PARTS LIST & OPERATING INSTRUCTIONS



MK-101 Pro24

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Manual Part No. 158808	

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

## INTRODUCTION

Congratulations on your purchase of a MK-101 Pro24 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 Pro24 should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-101 Pro24 Tile Saw safely and correctly. Please take a few minutes to familiarize yourself with the saw by reading and reviewing this manual.

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

Regards,

MK Diamond

### NOTE THIS INFORMATION FOR FUTURE USE:

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


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

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Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life. Safety warnings and guidelines do not by themselves eliminate danger. They are not substitutes for proper accident prevention procedures and good judgement.

## SAFETY MESSAGES

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



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



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



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

## DAMAGE PREVENTION AND INFORMATION MESSAGES

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

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

## GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS

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



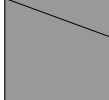
**ALWAYS** read this Owner's Manual before operating the machine. **DO NOT** operate or service this equipment before reading this entire manual. Read and understand all warnings, instructions and controls on the machine. Know how to stop the equipment quickly in case of emergency. It is the operators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



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



**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 machine 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**

**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**

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

**DO NOT OVERREACH**

Keep proper footing and balance at all times by not overreaching.

**DISCONNECT TOOLS**

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**

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**

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

**KEEP WORK AREA CLEAN**

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

**DO NOT USE IN DANGEROUS PLACES**

**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**

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



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

**NEVER STAND ON THE TOOL**

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

**TRANSPORT**

When loading or unloading the machine, use caution. Remove the blade prior to hoisting, loading and transporting the machine.

**CHECK FOR DAMAGED PARTS**

Before using a power tool, check for damaged 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.

## **SILICA DUST WARNING**

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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>

Observe OSHA regulations for respirator use (29 C.F.R. §1910.134).  
Visit <http://www.osha.gov> for more information.

## **CALIFORNIA PROPOSITION 65 MESSAGE**

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

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

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

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.




### **WARNING**

Sawing, grinding and drilling generate dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200).




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.



### ÉQUIPEMENT DE PROTECTION INDIVIDUELLE

Portez **TOUJOURS** l'équipement de protection respiratoire, auriculaire et oculaire homologué lors de l'utilisation de cet outil.



### DÉMARRAGES ACCIDENTELS!

Avant de démarrer le moteur, vérifiez que le commutateur **MARCHE-ARRÊT** est en position **ARRÊT** (OFF) pour empêcher tout démarrage accidentel. Placez le commutateur **MARCHE-ARRÊT** en position **ARRÊT** (OFF) avant toute intervention d'entretien. Placez **TOUJOURS** le commutateur **MARCHE-ARRÊT** en position **ARRÊT** (OFF) lorsque vous n'utilisez pas l'outil.



### PIÈCES TOURNANTES

Éloigner les mains, les pieds, les cheveux et les vêtements des pièces mobiles pour éviter des blessures. Ne jamais utiliser le moteur si le couvercle, l'enveloppe de protection ou les protecteurs ont été retirés.



### PIÈCES CHAUDES!

Les composants du moteur peuvent devenir très chauds pendant le fonctionnement. Pour éviter des brûlures graves, ne pas toucher ces zones pendant que le moteur tourne ou immédiatement après l'avoir arrêté. Ne jamais faire fonctionner le moteur sans les écrans de chaleur.



### SURVITESSE

**NE JAMAIS** modifier les composants ou réglages du limiteur de régime afin d'augmenter la vitesse maximale. De graves blessures et des dommages au moteur ou à l'équipement peuvent en résulter s'il fonctionne à des vitesses supérieures au maximum.



### DÉCHARGE ÉLECTRIQUE

**NE JAMAIS** toucher les fils ou les composants électriques pendant que le moteur est en marche. Les câbles et fiches nus, effilochés ou usés peuvent être des sources de choc électrique qui pourraient provoquer de graves blessures ou brûlures. Ne pas toucher la fiche avec des mains humides.



**TOUJOURS** éviter l'inhalation et le contact de la peau avec la poussière et/ou un nuage de silice. Prévoir un système de dépoussiérage adéquat. Utiliser un système de captage des poussières, le cas échéant.



**NE JAMAIS** utiliser l'outil dans une atmosphère explosive ou près de matériaux combustibles. Les étincelles produites par l'action de coupe de cet outil peuvent enflammer les matériaux, les liquides, les gaz ou les poussières inflammables.



Cet équipement ne doit pas être utilisé par des personnes de moins de 18 ans.



### 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 prématurée du 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**

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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>*

Respecter les réglementations de l'OSHA relatives à l'utilisation d'un appareil respiratoire (29 C.F.R.§1910.134). Visitez le site *<http://www.osha.gov>* pour obtenir de plus amples renseignements.

## SÉCURITÉ DU MOTEUR ÉLECTRIQUE

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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

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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 machines's data plate.



### CAUTION



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



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



### DO NOT EXPOSE TO RAIN

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



### WARNING



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



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



### WARNING

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



### WARNING

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

## ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS

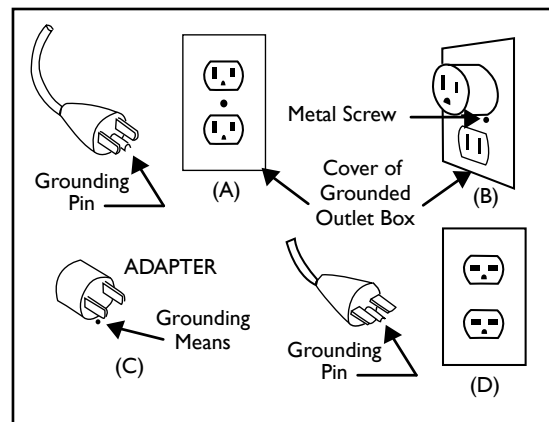
In order to prevent electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

### 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.



Circuit and Adapter Information

**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.

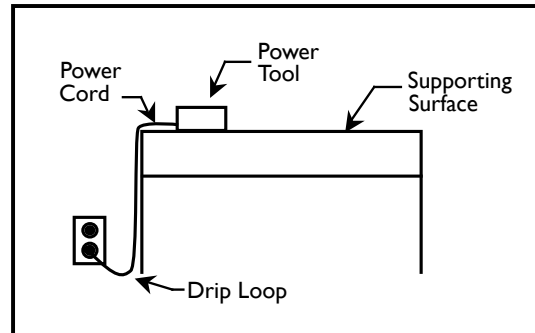


**WARNING**

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

**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.

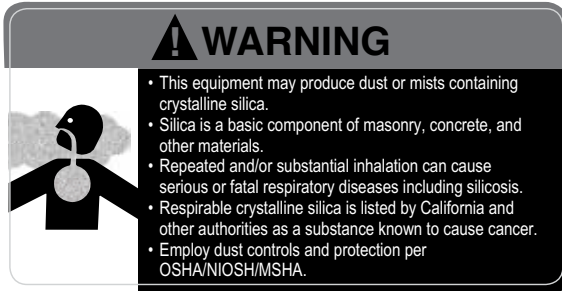
To choose the proper extension cord,

- Locate the length of extension cord needed in the table below.
- Once the proper length is found obtain the correct AWG size required for that length of extension cord.

MOTOR SPECS			EXTENSION CORD LENGTH		
Motor	Voltage	Amps	25'	50'	100'
169223G	120V 1 Ph	14.5	12 ga	10 ga	8 ga

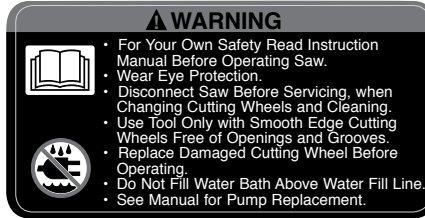
**SAFETY LABEL LOCATIONS**

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.



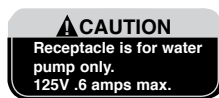
Part # 164202

A



Part # 155806

B



Part # 154822

C



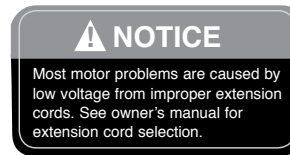
Part # 155678

D



Part # 155038

E



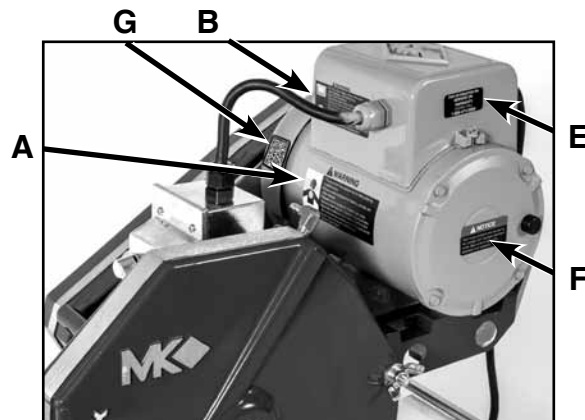
Part # 155672

F



Part # 170480

G



Decal/Label	Location	Description
A	Motor - Front	Warning - Silica Warning
B	Motor - Front	Warning - Read and Follow Operating Instructions
C	Motor - Back	Caution - Receptacle for Water Pump
D	Motor - Back	Caution - Use with GFCI only
E	Motor - Side	Service/ Warranty
F	Motor - Side	Notice - Voltage/extension cords
G	Motor - Front	QR Codes for Manuals

## **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.



## **MK-101 PRO SERIES PRODUCT SPECIFICATIONS**

The MK-101 Pro24 are versatile Tile Saws. Operated and used according to this manual, the unit will provide years of dependable service.

The MK-101 Pro24 is engineered as table top or stand mounted wet tile saw. The saw includes a powerful 120v totally enclosed capacitor start motor with a thermal protective overload. The MK-101 Pro24 includes a powerful 120v or 240v motor.

## **SPECIFICATIONS**

Specifications for the MK-101 Pro24.

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

**UNPACKING**

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

**CAUTION** Use proper lifting techniques when lifting the MK-101 Pro24.

**CONTENTS**

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



MK-101 Frame and Water Basin



MK-101 Cutting Head



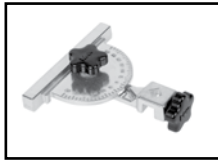
Diamond Blade



Adjustable Cutting Guide



Electric Water Pump



Protractor



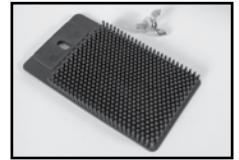
Dual Flat 45° Angle Guide



45° Miter



Blade Wrench



Splash Guard



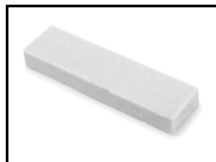
Cooling Transfer Tube



Flow Adjusting Clamp



Drain Plug



Dressing Stone



Side Table



Owners Manual



Pump Manual



Pump Manual

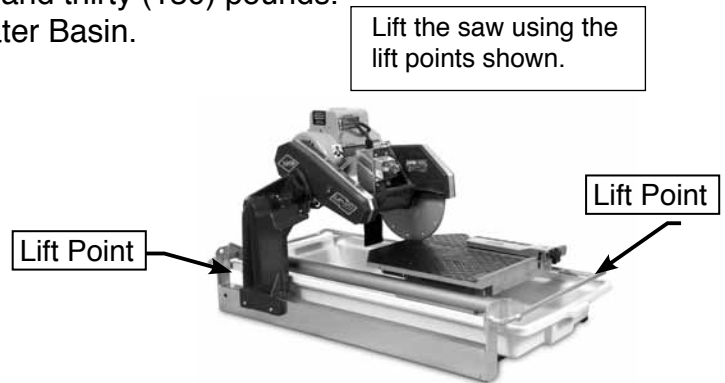


Stand w/ Casters

**TRANSPORT**

1. The MK-101 weighs approximately one hundred and thirty (130) pounds.
2. Never transport the MK-101 with water in the Water Basin.

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



**UNIVERSAL STAND**

**! CAUTION** The MK-101 Pro24 weighs approximately one hundred and thirty (130) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.



(A)  
Open the Stand and place on flat surface



(B)  
Remove Water Basin and place saw on stand



(C)  
Ensure saw frame is positioned correctly



(D)  
Reinstall the Water Basin

**ASSEMBLY**

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

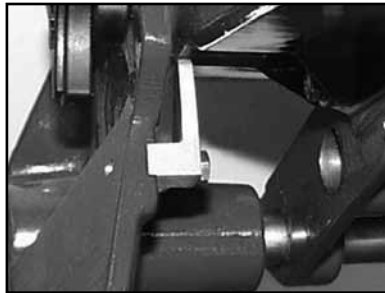
**Cutting Head Installation**

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



(A)

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



(B)

Ensure Cutting Head Stop is in upward position.



(C)

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



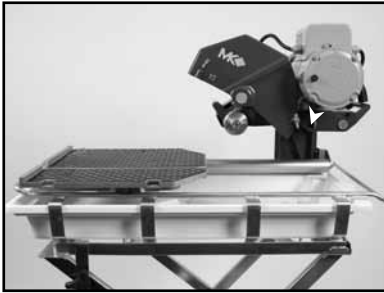
For maximum cutting length, the Cutting Head should be in the front pivot hole and the Post should be in the rear post retaining hole.

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

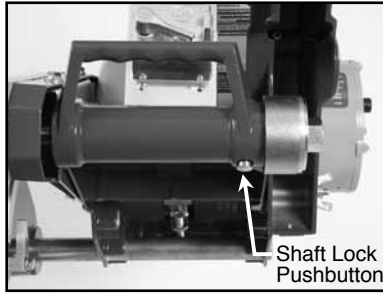
**NOTE:** Move Cutting Head Stop in upward position when using rear pivot hole and in the down position when using front pivot hole, refer to page 24.

## Diamond Blade Installation

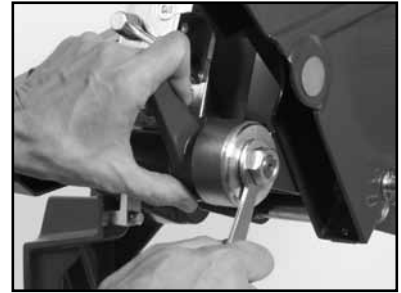
**NOTE:** When installing the Retaining Nut, do not “cross-thread” and DO NOT over tighten.



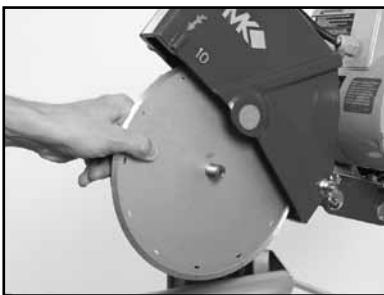
(A)  
Position Movable Cutting Table to the front of the saw and raise the Blade Guard by loosening the wingnut.



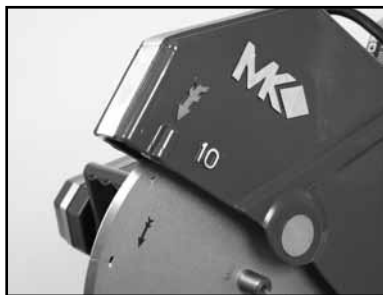
(B)  
Locate the Shaft Lock push button on the underside of the Cutting Head.



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



(D)  
Install Diamond Blade onto Blade Shaft.



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



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



## 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 Installation



(A)  
Install Water Pump Discharge Fitting.



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



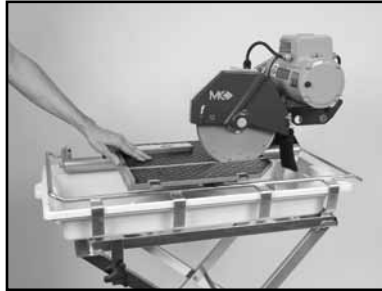
(C)  
Slide Cooling Flow Adjusting Clamp onto the Cooling Transfer Tube.

## Pre-start Inspection

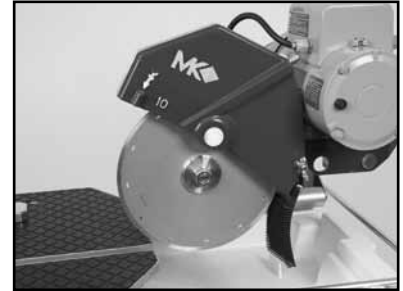
Prior to beginning work, a pre-start inspection of the saw should be performed.



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



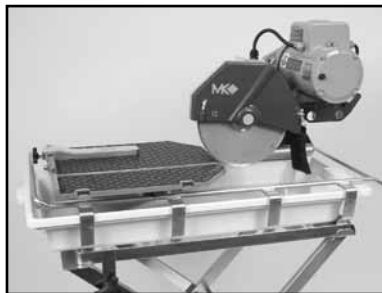
(B)  
Verify the Movable Cutting  
Table moves freely.



(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  
for damage – ensure the cord  
is free of cracks or cuts.

## Connecting the Water Pump

### WARNING

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

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



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



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

## 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

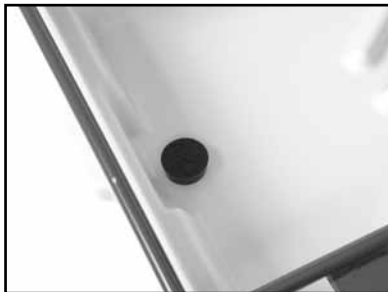


(B)

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 in-  
stalled in the Water Basin



(B)

Place the Water Pump in the  
back of the Water Basin



#### CAUTION

1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing its intended function. Check for binding and 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 Pro24 to a power supply, be sure the voltage, cycle and phase of the job site power source meet the requirements.

**SETUP FOR OPERATION****CAUTION**

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

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

4. If using an extension power cord, make sure, the length and wire gauge correspond to the requirements listed in on page 10. An extension power cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.
5. Use an approved Ground Fault Circuit Interrupter (GFCI)
6. Do not cover the motor vents as this could lead to motor overheating.

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

**PORTABLE GENERATOR**

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

5 KW

120/240 volts

41.7/20.8 amps

Single Phase

**GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

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



(A)

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



(B)

Plug MK-101 into the GFCI.



(C)

Plug the GFCI into the power source.

**SET CUTTING DEPTH**



**CAUTION**

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



(A)  
Loosen Cutting Head Adjusting Knob.



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



(C)  
Tighten the Adjusting Knob.

**CUTTING STRAIGHT EDGES**

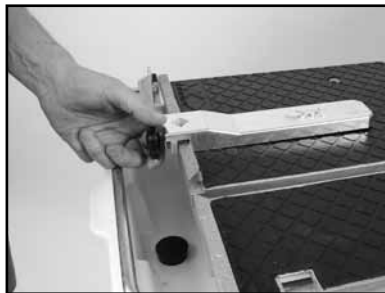


**CAUTION**

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**

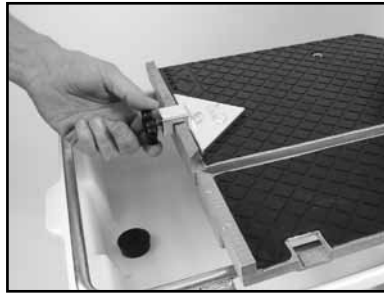
**NOTE:** To cut diagonal, the Dual 45° Flat Angle Guide (MK Diamond Part No. 134577-MK) should be used.

**CAUTION**

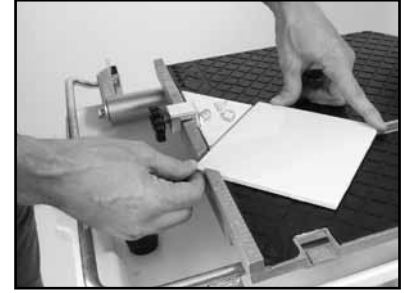
DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



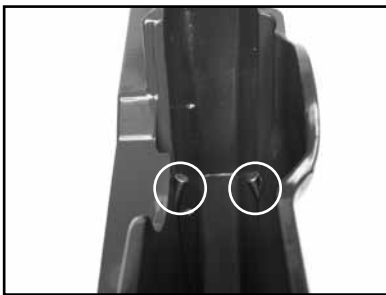
(A)  
Remove the Adjustable  
Cutting Guide.



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



(C)  
Place tile on the Cutting Table.



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



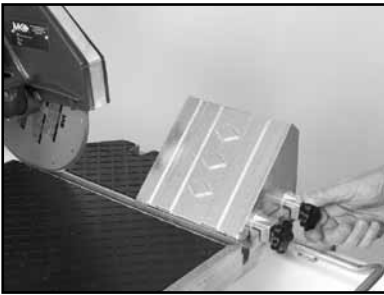
(E)  
Perform the cut. Turn the motor  
OFF when work is complete.

**45° MITER CUTTING**

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

**CAUTION**

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



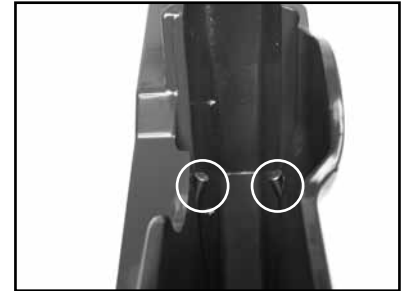
(A)

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



(B)

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



(C)

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



(D)

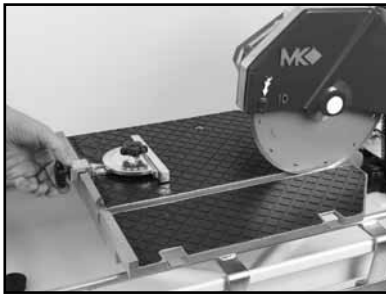
Perform the cut. Turn the motor OFF when work is complete.

**OFF-ANGLE CUTTING**

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

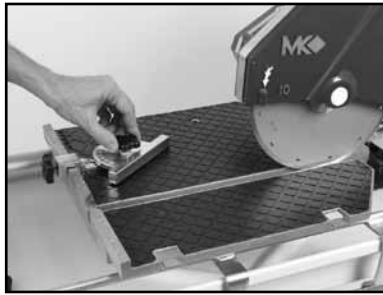
**CAUTION**

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



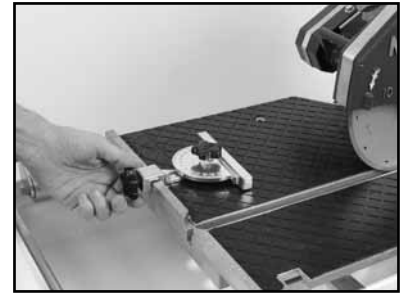
(A)

Place the 90° Protractor on the Ruler/Stop.



(B)

Set the desired angle and tighten the thumbscrew.



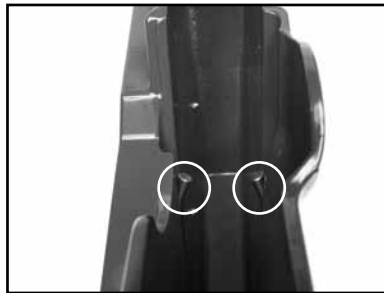
(C)

Position the 90° Protractor and tighten the retaining thumbscrew.



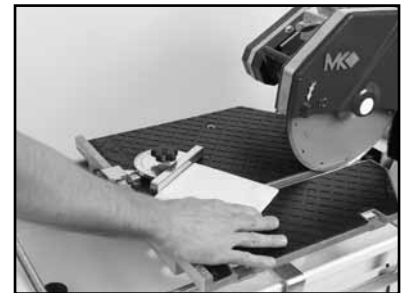
(D)

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



(E)

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



(F)

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



## ADJUSTING THE CUTTING HEAD

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



### CAUTION

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



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



(B)  
Remove the Blade.  
Remove Adjusting Knob.



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



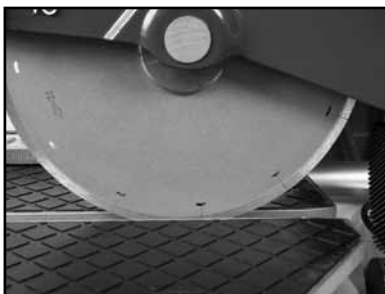
(D)  
Install the Cutting Head onto the front pivot hole.



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



(F)  
Install the Adjusting Knob.



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

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

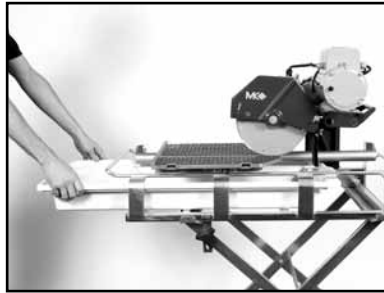
**NOTE:** Move Cutting Head Stop in upward position when using rear pivot hole and in the down position when using front pivot hole.

**ADJUSTING THE POST FOR MAXIMUM CUTTING LENGTH**

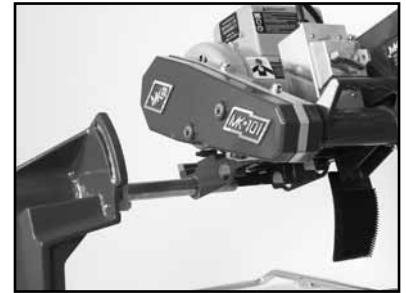
**! CAUTION** The Cutting Head and Post are heavy! Use care when changing the position of the Cutting Head.



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



(B)  
Remove Water Basin and Blade.



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

**! CAUTION** Hold the Post when removing the Retaining Bolts.



(D)  
Loosen the retaining bolts.



(E)  
Remove the Standoffs and retaining bolts together.



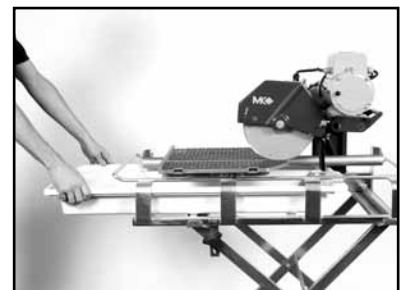
(F)  
Relocate the Post to the rear Post retaining holes.



(G)  
Install and tighten with Standoffs and retaining bolts.



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



(I)  
Install the Water Basin and Blade.

**CLEANUP**

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



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



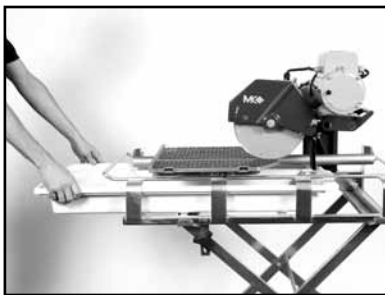
(B)  
Place the Water Pump  
In an external container.



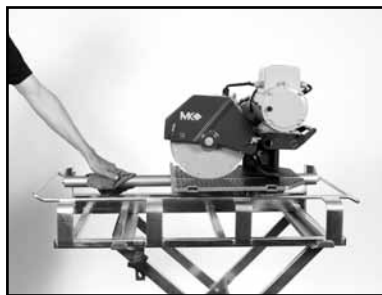
(C)  
Run the MK-101 until clear  
water is seen at the blade  
cooling ports (Approx. 1 min-  
ute).



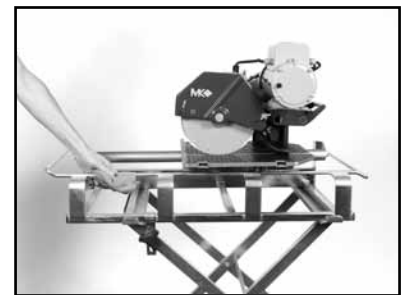
**CAUTION** Ensure the saw is disconnected before completing the remainder of the cleanup process.



(D)  
Remove the Water Basin.



(E)  
Clean the Movable Cutting  
Table Guide Bar.



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



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



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

**NEW MAINTENANCE**

---

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



(A)

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

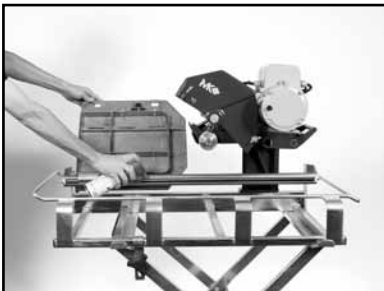
**MAINTENANCE FOLLOWING USE**

---

To extend the life of the MK-101, the following procedure should be performed after each use. Lubricate all points listed below with light oils such as, 3 in 1, WD-40, etc.

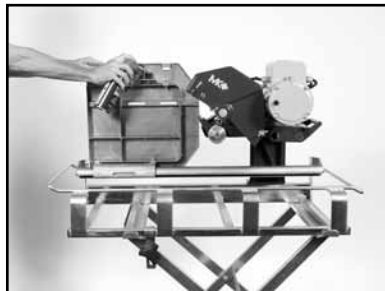


**CAUTION** Ensure the saw is off and disconnected before performing any maintenance.



(A)

Lubricate the Guide Bar.

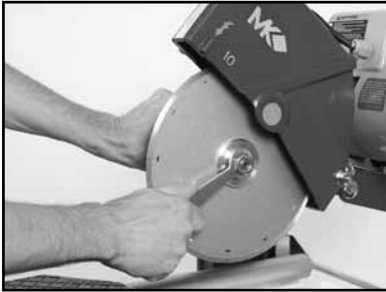


(B)

Lubricate the Roller Wheel Assembly.

**MONTHLY MAINTENANCE**

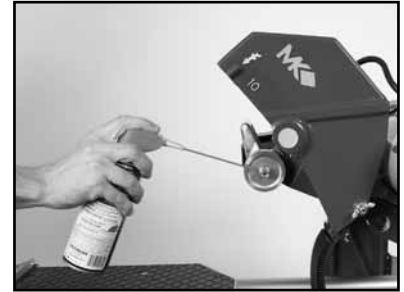
The following maintenance should be performed Monthly.



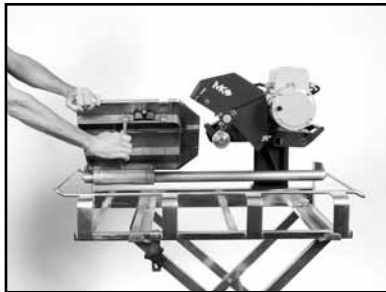
(A)  
Remove the Diamond Blade.



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



(C)  
Lubricate the Arbor Shaft.



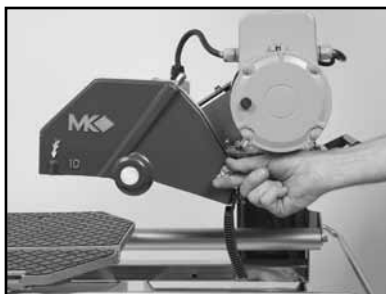
(D)  
Verify the Roller Wheel  
Assembly is tight and in  
good condition.



(E)  
Verify all motor mounting  
Bolts are tight.



(F)  
Verify the Motor Adjustment  
Strap is tight.



(G)  
Remove the Blade Guard.



(H)  
Lubricate the Blade Guard  
Pivot Shaft.



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



(J)  
Lubricate the Cutting Head Adjustment Knob.



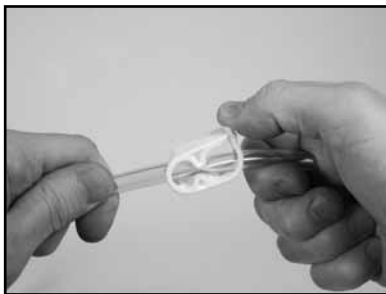
(K)  
Lubricate the Cutting Head Adjustment Knob retaining holes.



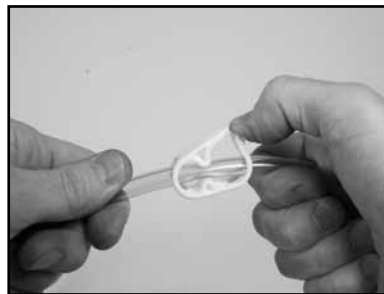
(L)  
Lubricate the Cutting Head Pivot Shaft.

**FLOW MAINTENANCE**

**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.

**BLADE DRESSING**

A diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or “glazed” over. This will reduce grinding efficiency and may cause the blade to “wander” or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part number 152792) and by following the steps below.



(A)  
Setup the MK101 for operation (See Setup, Adjustment and Operation).



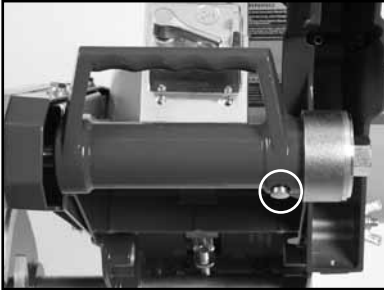
(B)  
Set the Adjustable Cutting Guide to cut a 1/16-strip.



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

**DIAMOND BLADE CHANGE-OUT**

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



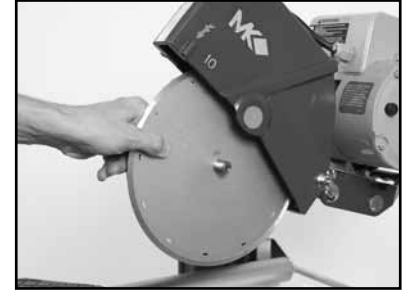
(A)

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



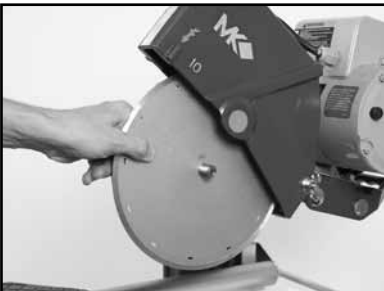
(B)

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



(C)

Remove the Diamond Blade.



(D)

Install the Diamond Blade onto Blade Shaft.



(E)

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



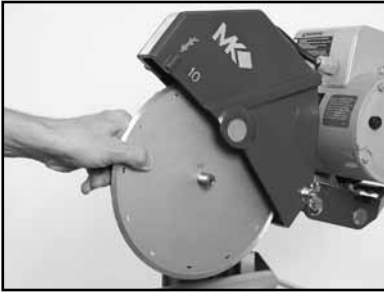
(F)

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

**BELT INSPECTION, ADJUSTMENT AND REPLACEMENT**

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

**NOTE:** 1. 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).



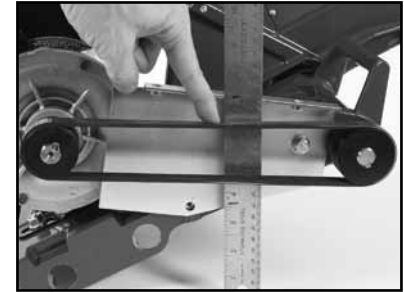
(C)  
To remove the Belt Guard, loosen the two top bolts on the belt guard.



(D)  
Remove belt guard bottom bolt.



(E)  
Inspect the belt for cracks, fraying, separation and wear. Go to step I if replacement required.



(F)  
Check the belt for proper tension, if tension is correct, go to step P (proper tension is 1/8-inch).



(G)  
Loosen the motor mounting bolts, if re-tensioning only go to step M.

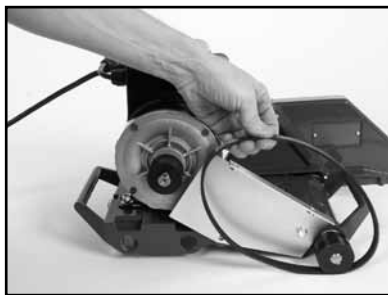


(H)  
Loosen the Motor Adjustment Strap.



(I)  
Push the motor toward the front of the Cutting Head to loosen the belt.





(J)  
Remove the belt.



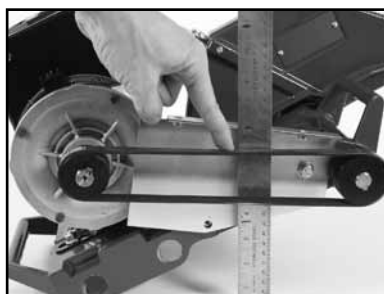
(K)  
Install the new belt.



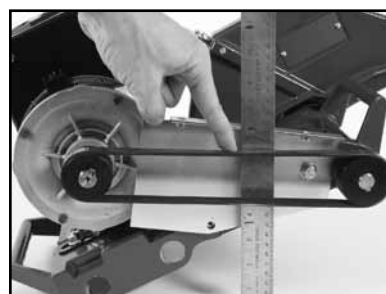
(L)  
Verify the V-belt is seated in the grooves of both pulleys.



(M)  
Tighten the Motor Adjustment Strap to remove slack.



(N)  
Check belt tension (proper tension 1/8-inch).



(O)  
Repeat steps M and N until proper belt tension is achieved.



(P)  
Tighten the motor mounting bolts.



(Q)  
Install the Belt Guard. Tighten all three bolts

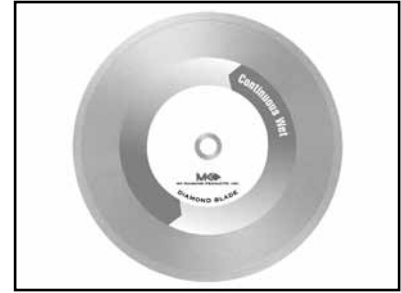
**BLADE WILL NOT CUT PROPERLY:**



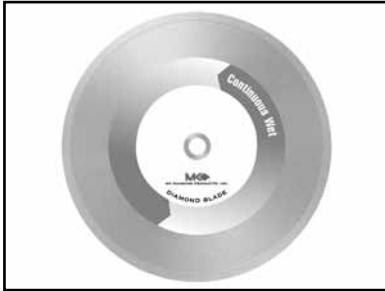
(A)  
Check for Smoothness  
or "Glazing" (Dress blade  
if needed).



(B)  
Check for proper blade rotation.



(C)  
Ensure the Blade Core  
is not bent.

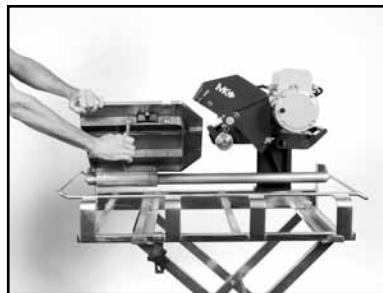


(D)  
Verify the blade is correct for  
the material being used.

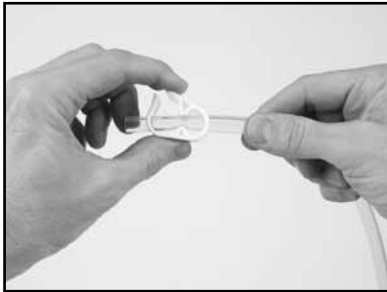
**MOVABLE CUTTING TABLE DOES NOT MOVE CORRECTLY**



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



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

**COOLING FLOW**

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



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



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



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



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



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



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

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

**BLADE STOPS TURNING**

---



(A)

Allow the motor to cool and depress motor Overload Reset Switch. If motor does not start, go to Step B.



(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 is not tripped. If tripped, reset. Check power source voltage is 120V - if not 120V, move to another circuit.

## BLADE ALIGNMENT PROCEDURE

The Movable Cutting Table of the MK-101 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.

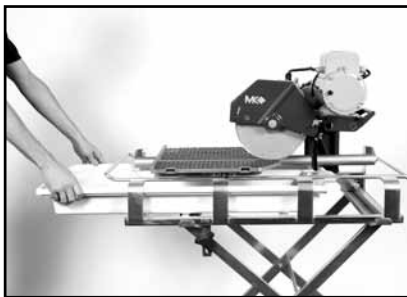
**NOTE:** If alignment problems are the result of a warped blade, a bent frame or bent support arm, or, if alignment is off by more than 1/8-inch, contact the MK Diamond Service Center – (800) 474-5594

### TOOLS NEEDED

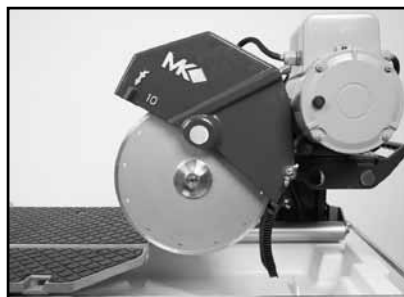


(A)  
Combination square (square)  
12-inch or greater. 1/2-inch  
Wrench or MK Triple Hole Box  
Wrench and MK Open  
End Wrench.

### PREPARATION



(A)  
Remove Water Pan.



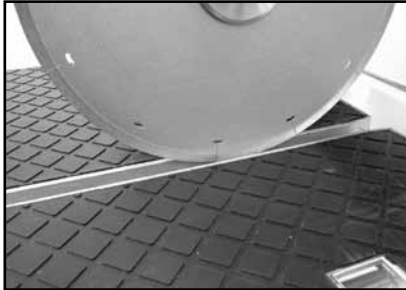
(B)  
Inspect Diamond Blade  
for damage.



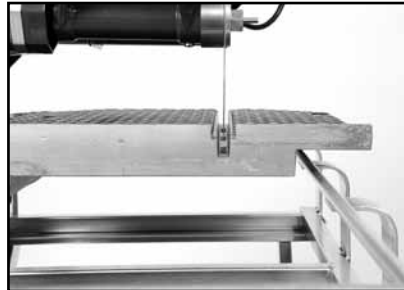
(C)  
Loosen front and rear  
Guide Bar Retaining Bolts.

**HORIZONTAL ALIGNMENT PROCEDURE**

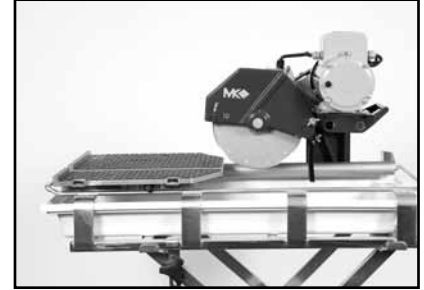
The Horizontal alignment will ensure that straight cuts (or Rip Cuts) are made.



(A)  
Position Cutting Head  
to normal Cut Depth.



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



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



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



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

**HORIZONTAL ALIGNMENT VERIFICATION**

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



(B)  
Tighten Guide Bar  
Retaining Bolts.

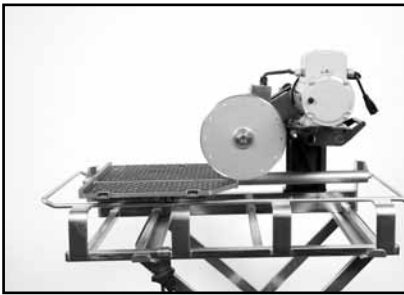


(C)  
Move the Cutting Table back and  
forth to re-verify Blade is even  
across all points of Square.

**90° ALIGNMENT VERIFICATION**

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

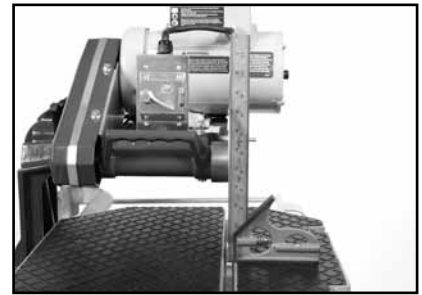
**NOTE:** If the blade is misaligned following 90°-alignment verification, return the saw to MK Diamond for repair.



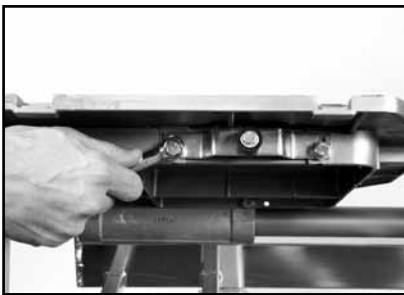
(A)  
Remove Blade Guard and  
water pan.



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



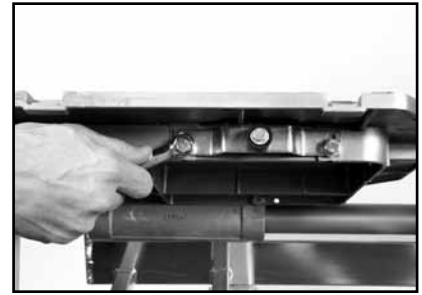
(C)  
Verify the Diamond  
Blade is Square to the  
Movable Cutting Table.



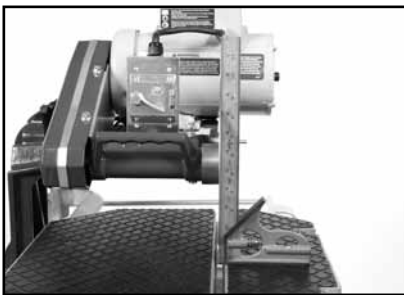
(D)  
If not Square, loosen Movable  
Cutting Table Wheel Assembly  
to adjust.



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

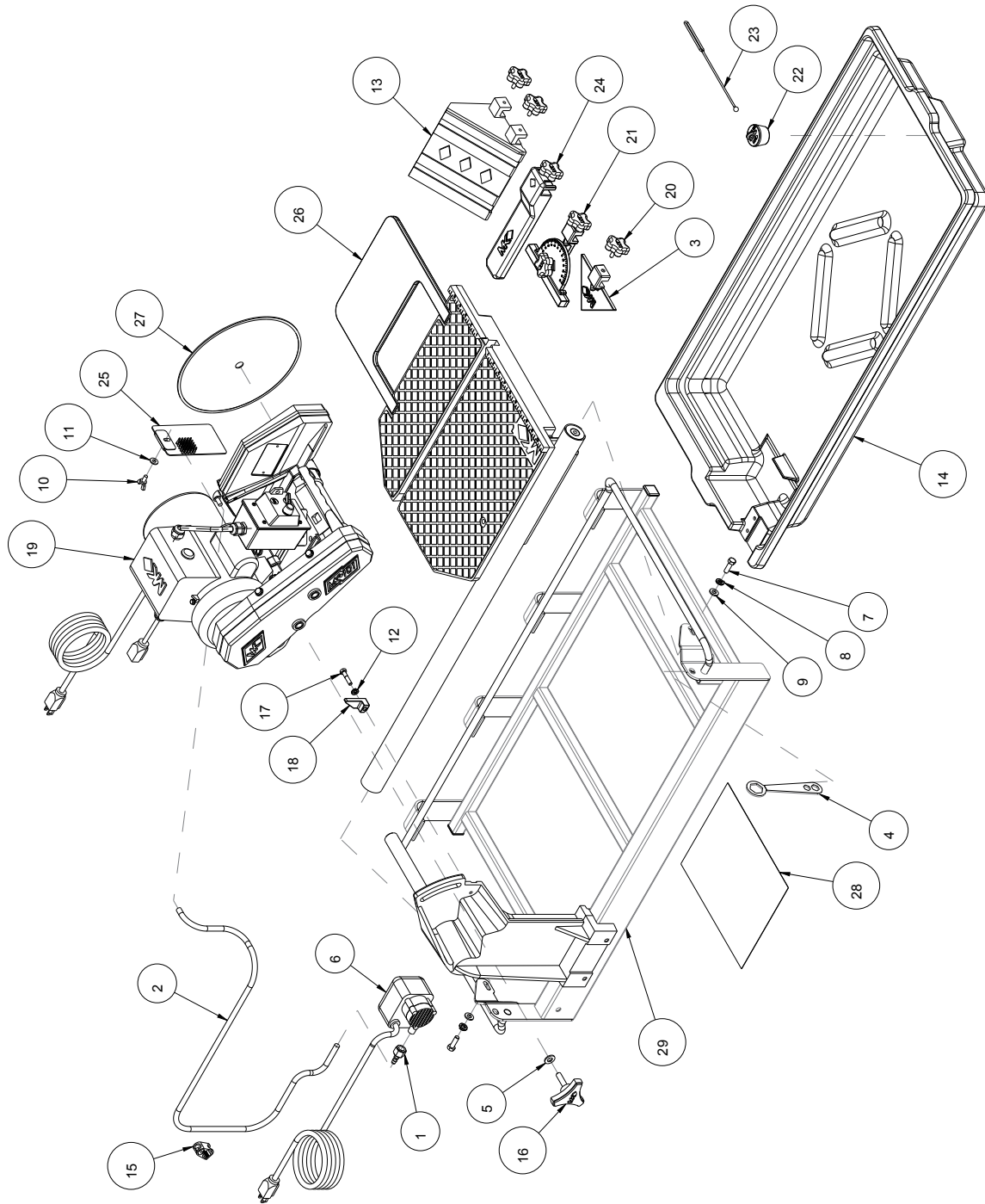


(F)  
After Squaring, tighten Movable  
Cutting Table Wheel Assembly.



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

MK-101 Pro24 Tile Saw  
Part# 153243

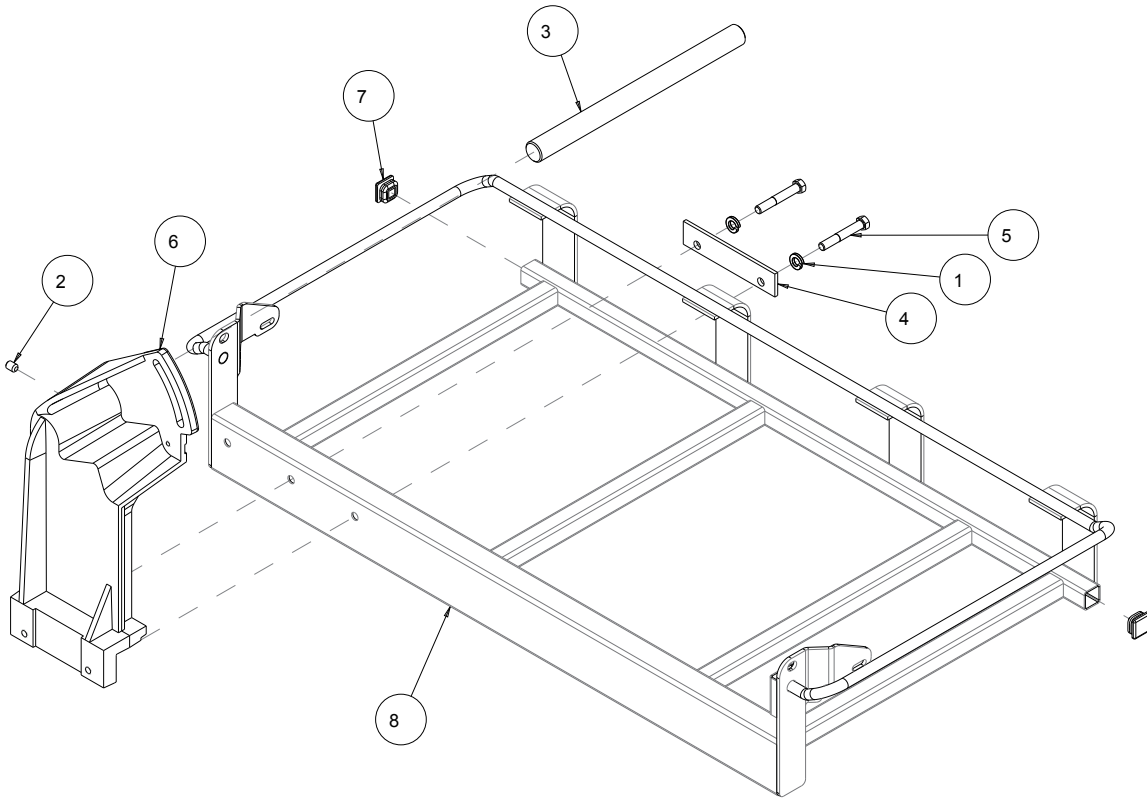




## MK-101 Pro24 Assembly Part# 153243

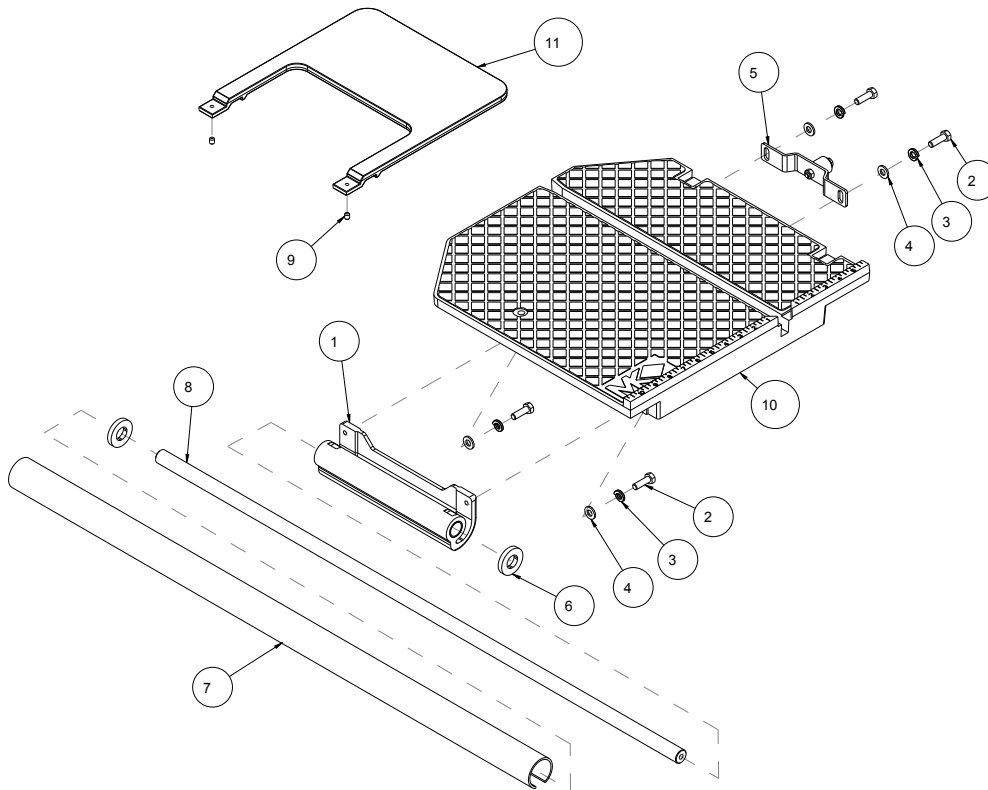
ITEM	DESCRIPTION	PART #	QTY
1	FITTING, PLASTIC, 1/4 FNPT X 1/4 BARB	128397	1
2	HOSE, VINYL 1/4 X 3/8 (6.0')	132951	1
3	CASTING, ACC DUAL FLAT - COMP	134577	1
4	WRENCH, TILE SAW NUT 15/16	134684	1
5	WASHER, FLAT, SAE, 3/8	150923	1
6	PUMP, WATER 115V/60HZ UL/CSA	151271	1
7	SCREW, HEX HD, 5/16 - 18 X 1	151743	2
8	WASHER, LOCK, SPLIT, 5/16	151747	2
9	WASHER, FLAT, SAE, 5/16	151754	2
10	SCREW, WING, 1/4 - 20 X 1/2	151888	1
11	WASHER, FLAT, SAE, 1/4	151915	1
12	WASHER, LOCK, SPLIT, 1/4	152591	1
13	CASTING, ACC BULLNOSE LRG - COMP	153201	1
14	PAN, WATER	153262	1
15	CLAMP, HOSE, 1/4 - 1/2 FLOW	154394	1
16	KNOB, TRI PLASTIC MK-660 1 -1/2	156770-02	1
17	SCREW HEX HD 1/4 - 20 X 1 - 1/4	157145	1
18	STOP, CUTTING HEAD	157728	1
19	ASSY, DC CUTTING HD, MK-101PRO	158481	1
20	KNOB, RUBBER, 1/4 - 20 X 3/4" LONG	159428-1	3
21	PROTRACTOR, 90 DEG	159429	1
22	DRAIN PLUG, W/RING	159529	1
23	STRAP, 9" DRAIN PLUG	159530	1
24	RIP GUIDE, LARGE DIE CAST	159751	1
25	GUARD, SPLASH	160310	1
26	ASSY, TABLE, PRO-24	160378	1
27	MK-225 10 X 050 X 5/8 4MM SAWS	160593	1
28	SHEET, WARNING LABELS, TILE SAW	166012	1
29	ASSY, FRAME AND POST, 101 PRO24	170477	1

Frame Assembly  
Part# 170477



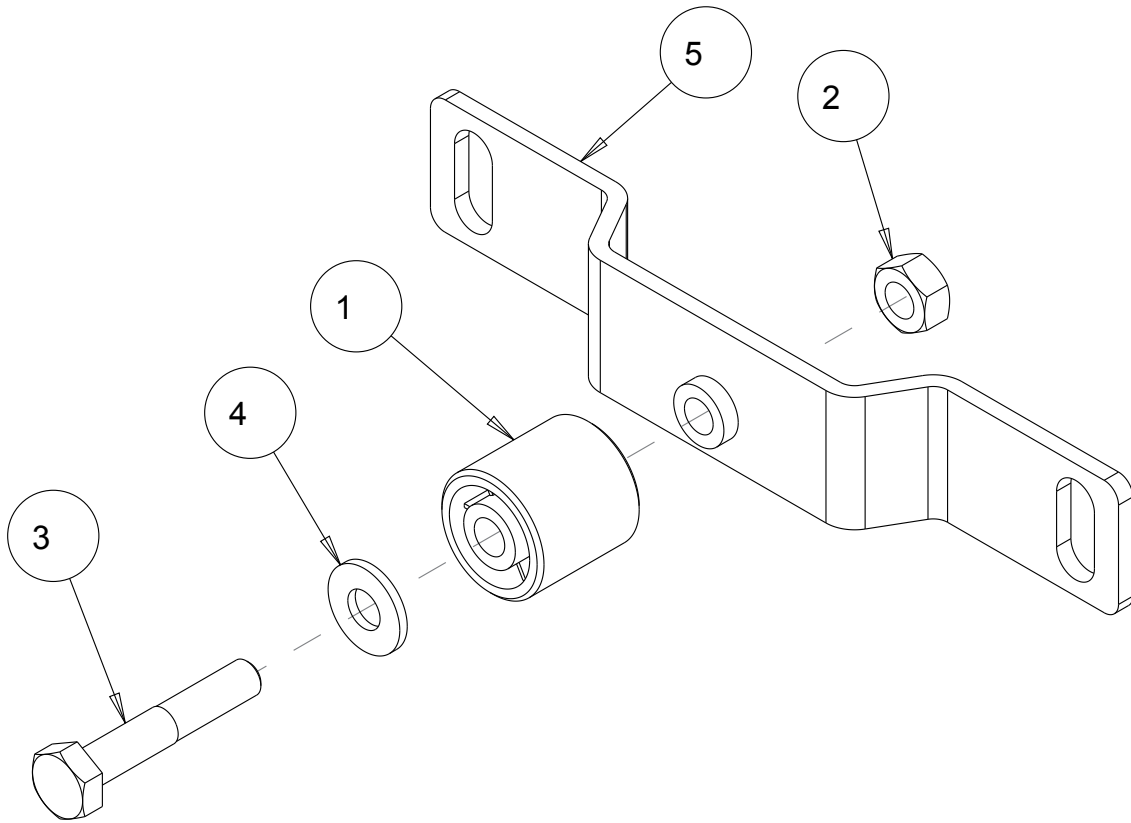
ITEM	DESCRIPTION	PART #	QTY
1	WASHER, LOC, SPLIT, 3.8	150925	2
2	SCREW, SET, SOC, CUPT, 3.8 - 16 X 1/2	153710	1
3	SHAFT, 12.88 PIVTO	155530	1
4	PLATE, PRESSURE	155671	1
5	SCREW, 3/8 - 16 X 2 - 1/2 HEX HEAD CAP	156030	2
6	CASTING, POST, PRO24 OFFSET-COMP	158405	1
7	PLUG, PLASTIC, 1 SQ - 14 -20 GA	160727-1	2
8	FRAME, 10" TILE SAW, 24" RIP	168021-24	1

Table Assembly  
Part# 160378



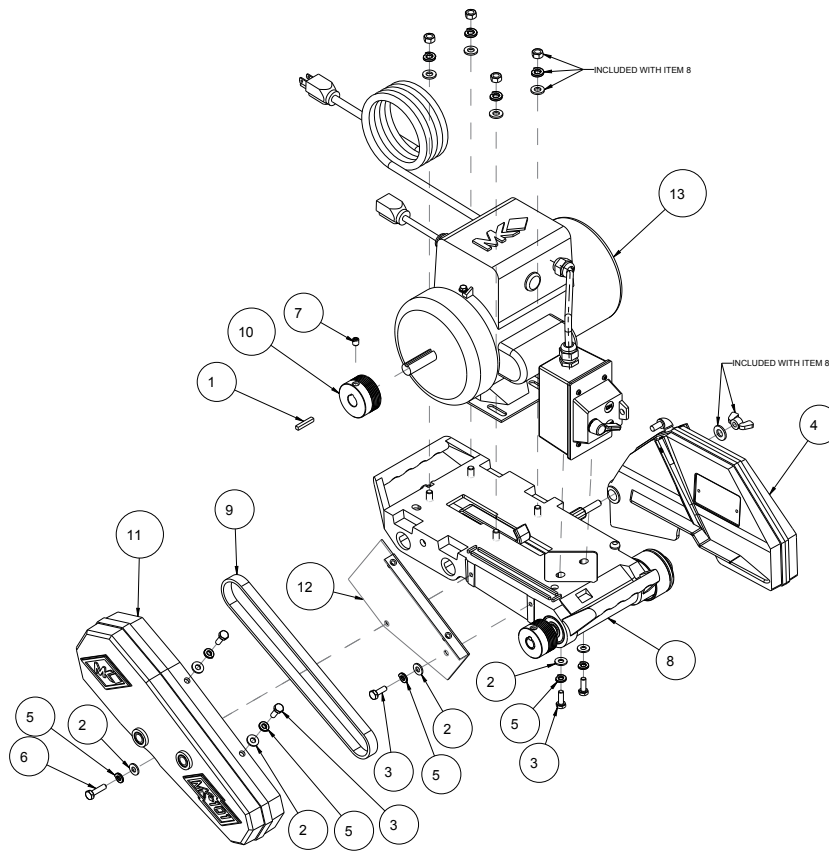
ITEM	DESCRIPTION	PART #	QTY
1	CASTING, 101/990 LNR BRG MT - COM	135855	1
2	SCREW, HEX HD, 5/16 - 18 X 1	151743	4
3	WASHER, LOCK, SPLIT, 5/16	151747	4
4	WASHER, FLAT, SAE, 5/16	151754	4
5	ASSY, WHEEL BRKT TSAW	151756	1
6	SPACER, GUIDE BAR COVER, COMMON	152393	2
7	COVER, 3/4 X 37 GUIDE BAR	153219	1
8	BAR, 3/4 X 37 LINEAR GUIDE, 101	153492	1
9	SCREW, 1/4 - 20 X 5/16 SOCKET HEAD SET	154226	2
10	CAST, TABLE, PRO24, OVRMLD - COMP	161182	1
11	TABLE, EXTENSION (COMP)	162075	1

Assy, Wheel Brkt TSaw  
Part# 151756

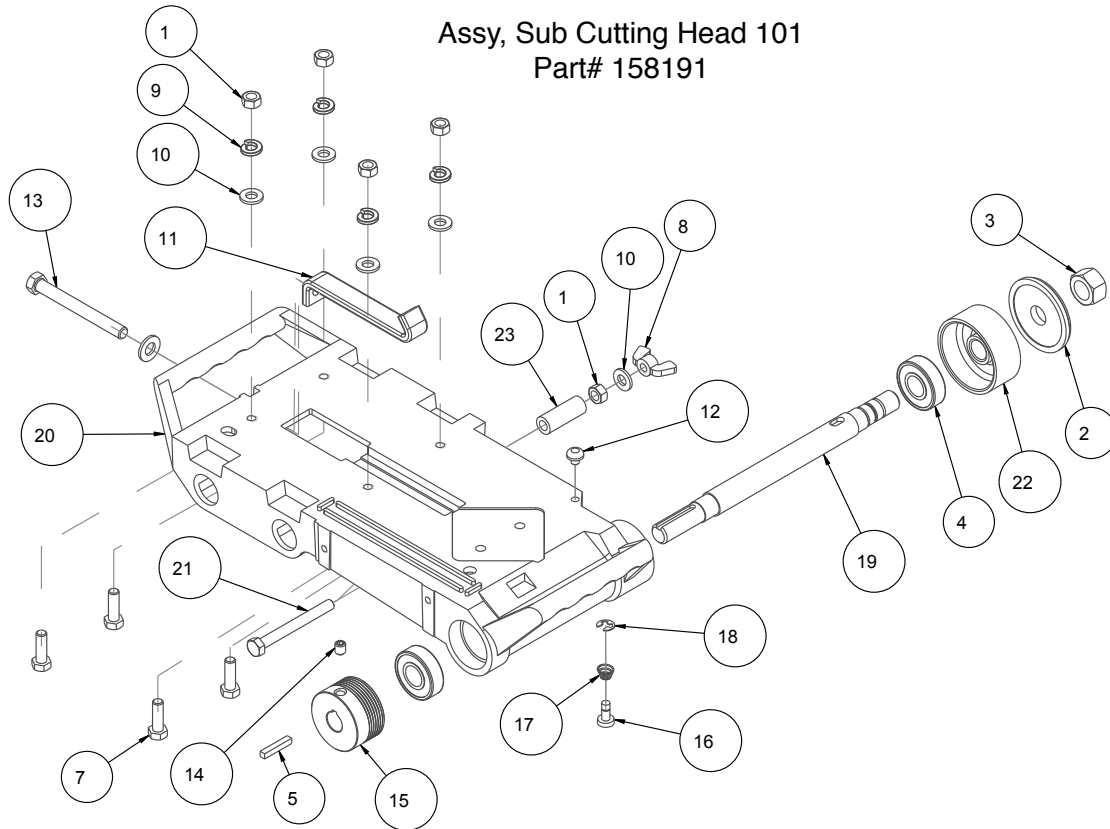


ITEM	DESCRIPTION	PART #	QTY
1	WHEEL, ROLLER TSAW	151799	1
2	NUT, HEX, 1/4 - 20	151893	1
3	SCREW, HEX HEAD 1/4 - 20 X 1 - 1/2	151914	1
4	WASHER, FLAT, SAE, 1/4	151915	1
5	BRACKET, ROLLER WHEEL	154021	1

Cutting Head  
Part# 158481

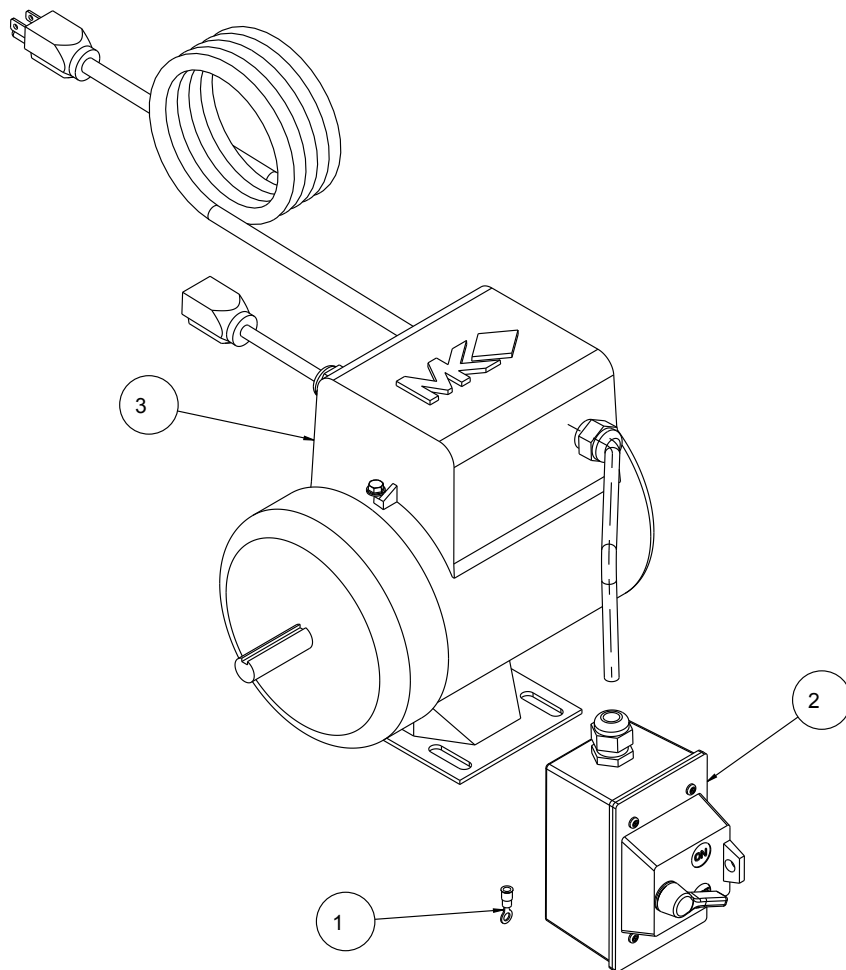


ITEM	DESCRIPTION	Part #	Qty
1	KEY, 3/16 SQ X 1 - 1/8	150344	1
2	WASHER, FLAT, SAE, 1/4	151915	6
3	SCREW, HEX HD, 1/4 - 20 X 3/4	152370	5
4	ASSY, BLADE GUARD, 101	152582	1
5	WASHER, LOCK, SPLIT, 1/4	152591	6
6	SCREW, HEX HD TAP, 1/4 - 20 X 1	152676	1
7	SCREW, 5/16 - 18 X 3/8 SOCKET HEAD SET	157083	1
8	ASSY, SUB, CTTG HEAD MK-101	158191	1
9	BELT, 6J260	158194	1
10	PULLEY, 6J19 X 5.8 BORE	158199	1
11	CASTING, 101 BELT GUARD - COMP	158319-01	1
12	BRACKET, INNER BELTGUARD	158611	1
13	ASSY, MTR 1.5HP, 120V, 60 HZ	160486	1

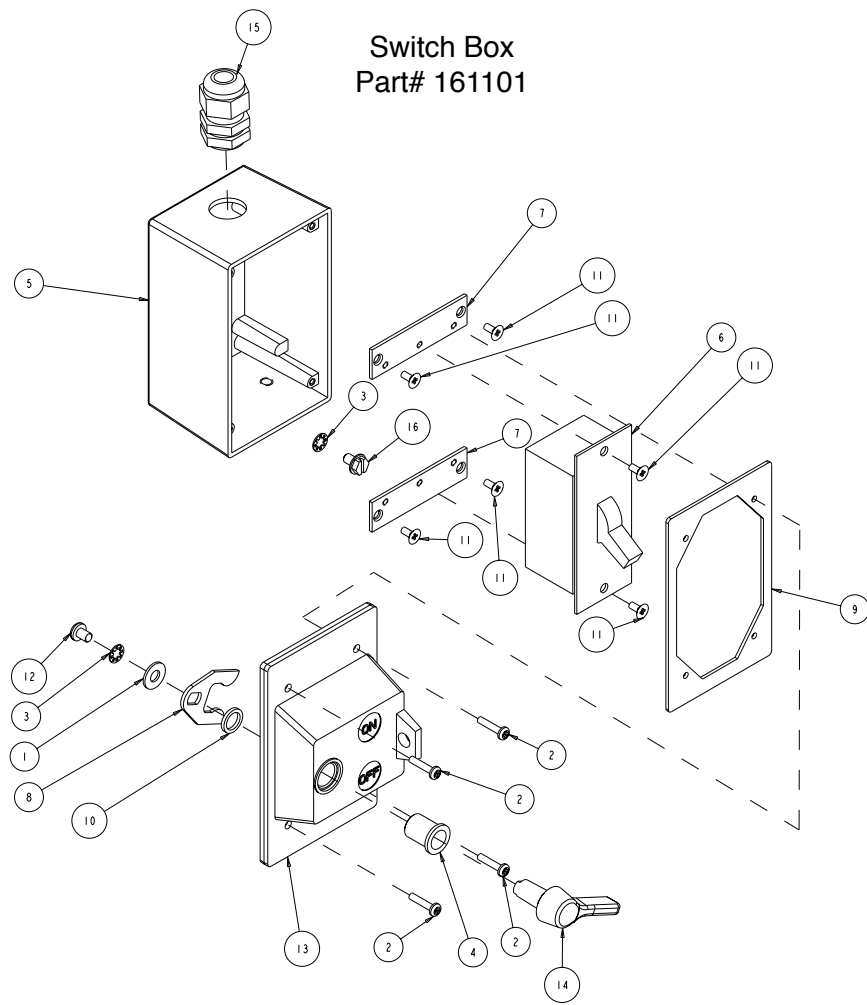


ITEM #	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 5/16 - 18	101196	5
2	FLANGE, OUTER, 2 - 3/8	135830	1
3	NUT, HEX, 5/8-18	135848	1
4	BEARING, BALL, 17X40X12MM	137711	2
5	KEY, 3/16 SQ X 1-1/8	150344	1
6	WASHER, FLAT, SAE, 3/8	150923	1
7	SCREW, HEX HD, 5/16-18X1	151743	4
8	NUT, WING, NYLK, 5/16-18	151746	1
9	WASHER, LOCK, SPLIT, 5/16	151747	4
10	WASHER, FLAT, SAE, 5/16	151754	5
11	STRAP, 1 INCH, MOTOR ADJ.	152673	1
12	BUMPER, RUBBER, 1/2 DIA	152674	1
13	BOLT, 3/8-16 X 3-1/2 HEX HEAD TAP	153147	1
14	SCREW, 5/16-18 X 3/8 SOCKET HEAD SET	157083	1
15	PULLEY, 6J19 X 5/8 BORE	158199	1
16	BUTTON, SHAFT LOCK	158200	1
17	SPRING, BLADE SHAFT LOCK	158201	1
18	RING, 1/4 E-STYLE RETAINING	158202	1
19	SHAFT, BLADE	158222	1
20	CASTING, 10" CTTG HEAD - COMP	158224	1
21	SCREW, HEX HD, TAP, 5/16-18X3	162473	1
22	FLANGE, Ø 2-3/8 INNER	162758	1
23	SPACER, 9/16X5/16X1.5, PLAS	170824	1

Motor  
Part# 160486



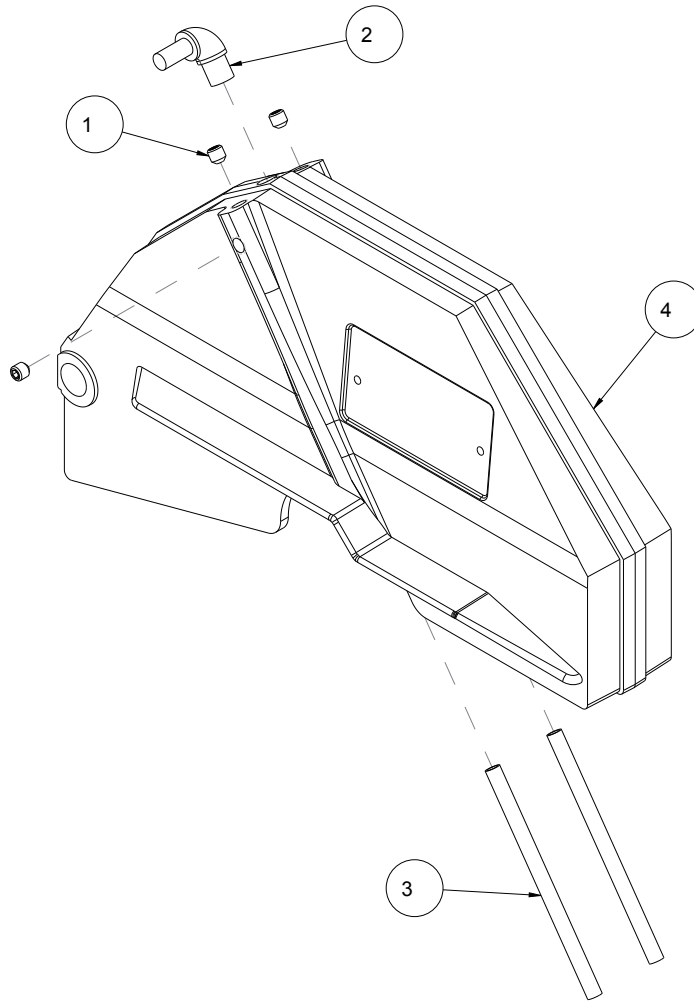
ITEM	DESCRIPTION	Part #	Qty
1	TERMINAL, 16 - 14 AWG X #10 RING	154540	1
2	ASSY, SWITCH BOX, 30AMP, LTF11	161101	1
3	MTR, 1-1/2HP, 115V, SBOX, GRN	169223G	1



ITEM	DESCRIPTION	Part #	Qty
1	WASHER, #10 SAE FLAT	154369	1
2	SCREW, PAN HD PHIL 6 - 32 X 5/8	157393	4
3	WASHER #10, INTERNAL TEETH	158336	2
4	BUSHING, SWITCH, 30 AMP	158799	1
5	BOX, 30A SWITCH (COMP)	159487	1
6	SWITCH, 30 AMP MOTOR CONTROLLER	159488	1
7	PLATE, MOUNTING, SWITCH	159489	2
8	LEVER, ON/OFF, 30 AMP SWITCH	159490	1
9	GASKET, COVER, 30 AMP SWITCH	159491	1
10	SEAL, LEVER, 30 AMP SWITCH	159492	1
11	SCREW, FLAT HD PHIL 6 - 32 X 5/16	159493	6
12	SCREW, PAN HD PHIL 10 -24 X 5/16	159494	1
13	COVER, 30A SWITCH (COMP)	159539	1
14	LEVER, ACTUATOR (COMP)	159540	1
15	STRAIN RELIEF, HEYCO 3213	159582	1
16	SCREW, HEX HD FL 10 - 24X 5/16	159597	1



Blade Guard  
Part# 152582



ITEM	DESCRIPTION	Part #	Qty
1	SCREW, 5/16 - 18 X 1/2 SOCKET HEAD SET	152607	3
2	ELBOW, 1/8 MNPT X 1/4 BARB 90DEG	154652	1
3	TUBE, WATER	155389	2
4	CASTING, 101 BLD GUARD-DC-COMP	162481	1

## ACCESSORIES

ITEM	NUMBER	DESCRIPTION	
1.	137166	MK-200, 10 x 5/8 Arbor Premium grade Diamond Blade for smooth, chip-free cutting on tile.	
2.	128074	MK-215, 10 x 5/8 Arbor Supreme grade diamond blade for hard materials	
3.	153252	MK-315, 10 x 5/8 Arbor Supreme super hi-rim diamond blade	
4.	134577-MK	Dual 45° Flat Angle Guide	
5.	153201-MK	45° Bullnose Mi- ter	
6.	134569-MK	90° Protrac- tor	
7.	152792	Dressing Stone	
8.	152610	Ground Fault Circuit Interrupter	
9.	169658	Saw Tent	



**ORDERING INFORMATION**

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

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

**NOTE:** There is a \$25.00 minimum order when ordering direct from MK Diamond. A \$6.00 charge will be added to orders having a net billing value under \$50.00. All purchases must be made using VISA, MasterCard or American Express.

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

**RETURN MATERIALS POLICY**

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

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

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

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

**PACKAGING INSTRUCTIONS**

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

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

**CONTACT:**

Please contact MK Diamond Products, Inc. Customer Service Department with any questions you might have regarding distributors, parts or service.

Telephone: **(800) 421-5830**

Fax: **(310) 539-5158**

E-mail: **Customer\_Service@MKDiamond.com**

Customer Service Hours: **Monday through Friday, 6AM-4PM PST**

**MK Diamond Products, Inc.**

**1315 Storm Parkway**

**Torrance, CA 90501**

**MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY**

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

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

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

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

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

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

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

**MK-101 PRO 24 TILE SAW**  
**OWNER'S MANUAL & OPERATING INSTRUCTION**



**MK Diamond Products, Inc.**

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Torrance, CA 90501

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