

MK-101 TILE SAW OWNER'S MANUAL & PARTS LIST



Part # 151991

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

INTRODUCTION

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

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your MK-101 Tile Saw, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

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


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!



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. (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>

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

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.

**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

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

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 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

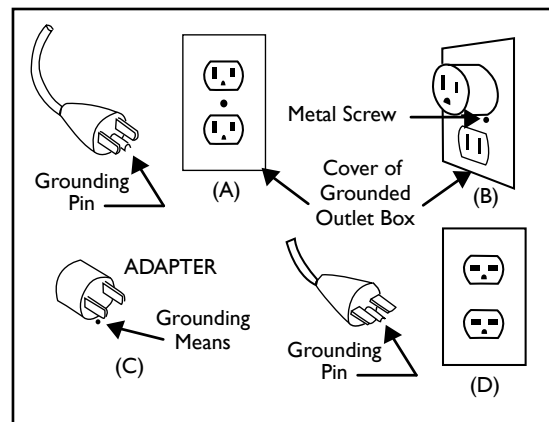
In order to prevent electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

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.

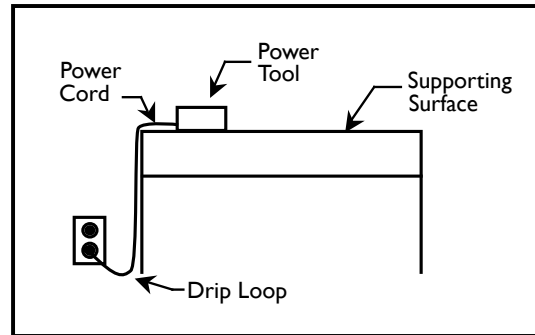
NOTE: If permanently connected this tool should be connected to a grounded metal permanent wiring system; or to a system having an equipment - grounding conductor.

**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, move down the column to obtain the correct AWG size required for that length of extension cord.

MOTOR SPECS			EXTENSION CORD LENGTH		
Motor	Voltage	Amps	25'	50'	100'
168022G	120V 1 Ph	14.5	12 ga	10 ga	8 ga

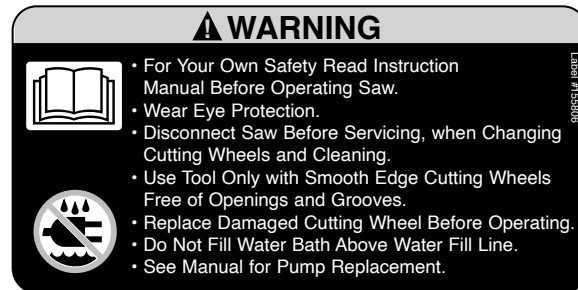
SAFETY LABEL LOCATIONS

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.



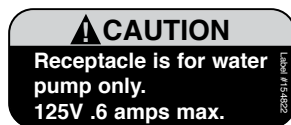
Part # 164202

A



Part # 155806

B



Part # 154822

C



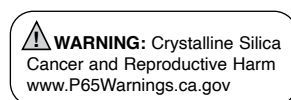
Part # 155678

D



Part # 170480

E



Part # 172640

F

Decal/Label	Location	Description
A	Motor - Front	Warning - Dust Control
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 - Front	QR Codes for Manuals and Safety
F	Motor - Back	Warning - Silica Prop 65

PRODUCT SPECIFICATIONS

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

General Specifications

The MK-101 Tile Saw is engineered as a tabletop or stand mounted wet tile saw. The saw includes a powerful 120V totally enclosed capacitor start electric motor with a thermal protective overload. The saw is capable of cutting tile up to twenty (20) inches in length, or diagonal cutting tile up to fourteen (14) inches. The saw can cut an object three (3) inches thick in one pass.

Motor Specifications

Motor specifications for the MK-101 are listed in table below.

Voltage	120V
Overall Amperage	13
Motor Only Amperage	14.5
Frequency	60 Hz
RPM	3400 rpm
Horse Power	1.5 hp
Weight	92 lbs

Thermal Overload Protection

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

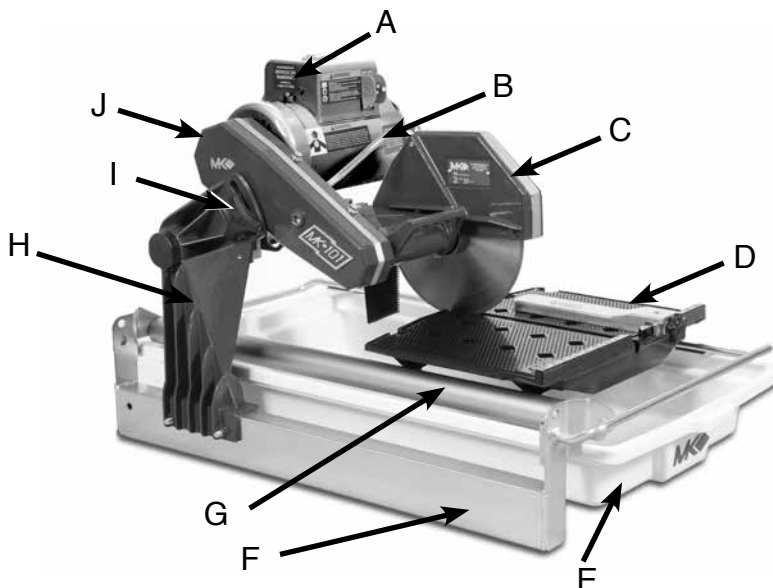
Blade Capacity

The MK-101 uses a ten (10) inch (254mm) diameter, wet cutting continuous rim, diamond blade with a five-eighths (5/8) inch (15.875 mm) arbor.

Tile Types

The MK-101 can cut a variety of tile types including Porcelain, Terracotta, Marble, Quarry and Slate, or almost any other non-ferrous material.

NOTE: The MK-101 is not designed to cut plastic or ferrous (metals) material.



A	Motor
B	Water Pump Tube
C	Blade Guard
D	Cutting Table
E	Water Basin
F	Frame
G	Guide Bar
H	Post
I	Depth of Cut Adjustment Knob
J	Belt Guard

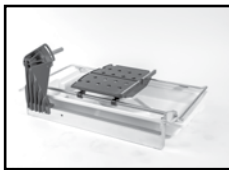
UNPACKING

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.

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) 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) owners manual, one (1) pump manual and one (1) warranty card.



MK-101 Frame
and Water Basin



MK-101
Cutting Head



Diamond Blade



Adjustable
Cutting Guide



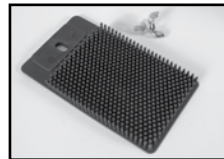
Electric Water
Pump



45° Miter



Blade Wrench



Splash Guard



Cooling Transfer
Tube



Flow Adjusting
Clamp



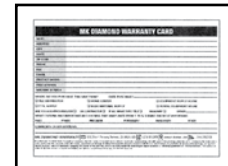
Drain Plug



Owners Manual



Pump Manual

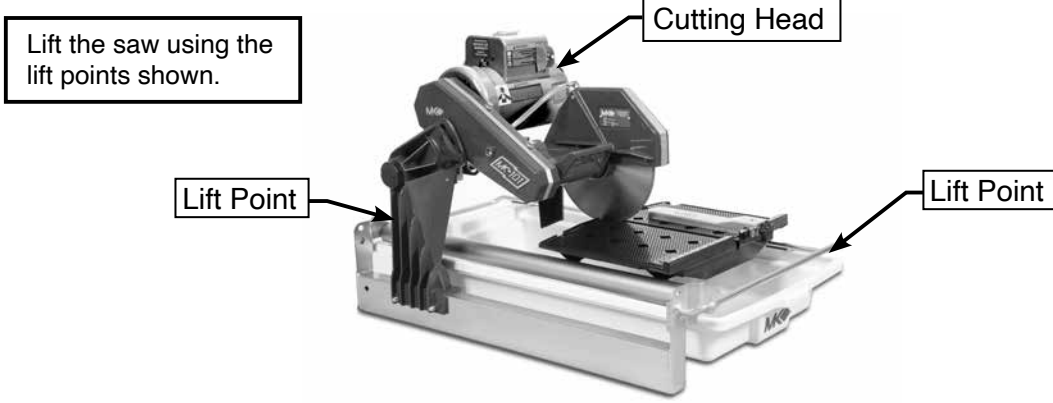


Warranty Card

TRANSPORT

- CAUTION** 1. The MK-101 weighs approximately ninety-two (92) 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).



STAND

The MK-101 weighs approximately ninety-two (92) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.

NOTE: If using the MK Diamond stand, follow the following steps.



(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.

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

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

CUTTING HEAD INSTALLATION



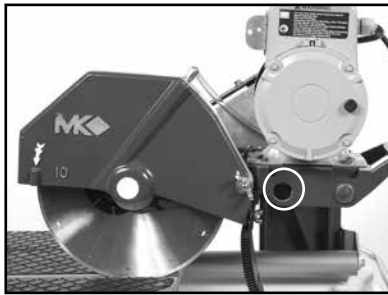
(A)
Remove the Cutting Head Stop Bolt. Rotate Cutting Head Stop to down position and re-tighten Cutting Head Stop Bolt.



(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.



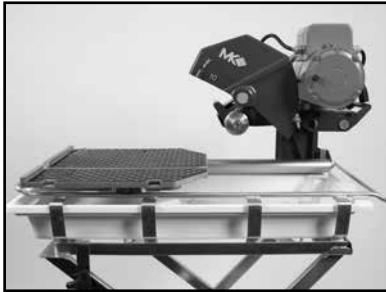
(D)
For maximum cutting length, the Cutting Head should be in the front pivot hole and the Post should be in the rear post retaining hole.

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.

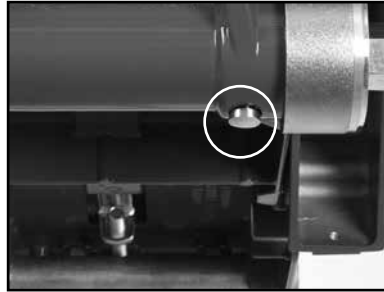
DIAMOND BLADE INSTALLATION

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



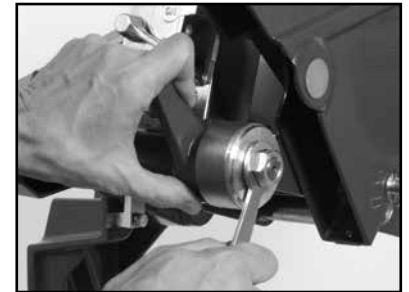
(A)

Position Movable Cutting Table to the front of the saw and raise the Blade Guard. Tighten wing-nut.



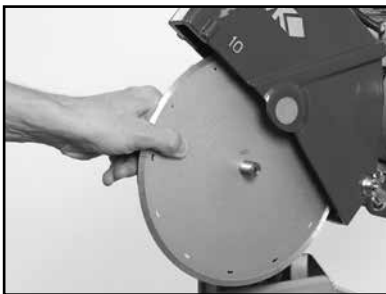
(B)

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.



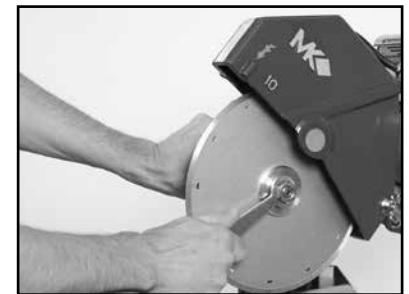
(D)

Raise Cutting Head and 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.

! **CAUTION**

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

ADJUSTABLE CUTTING GUIDE INSTALLATION

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



(A)

Loosen Adjustable Cutting Guide retaining thumbscrew and place it over the Movable Cutting Table Ruler/Stop.



(B)

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)

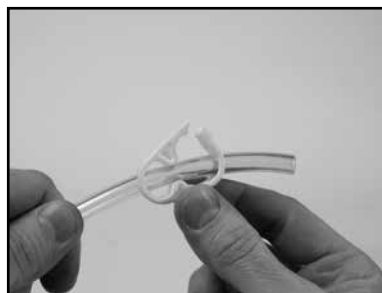
Install the Splash Guard onto the Blade Guard.

WATER PUMP PREPARATION



(A)

Press one end of the Cooling Transfer Tube into the Water Pump Discharge Fitting.



(B)

Slide Cooling Flow Adjusting clamp on to the Cooling Transfer Tube.

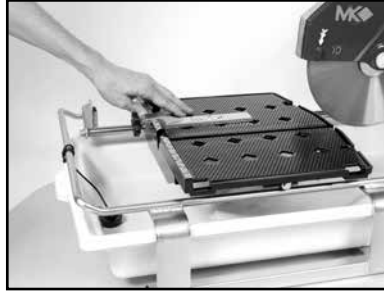
PRE-START INSPECTION

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



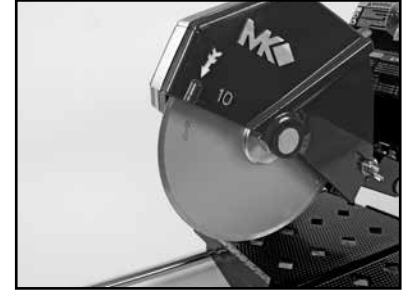
(A)

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.

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 if cutting with a Dry Blade.



(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.

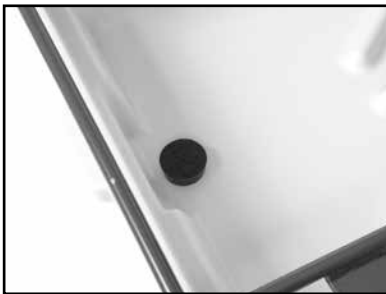


(B)

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 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 to a power supply, be sure the voltage, cycle and phase of the job site power source meet the requirements.

VOLTAGE	120V
CYCLE	60hz
PHASE	1-phase

4. If using an extension power cord, made sure, the length and wire gauge correspond to the requirements listed in the table 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 Knob and move cutting head down.



(B)

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

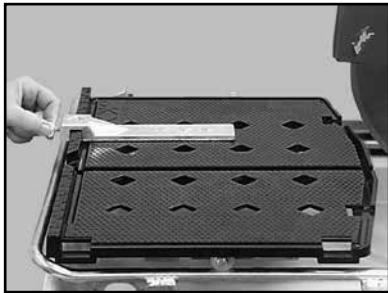


(C)

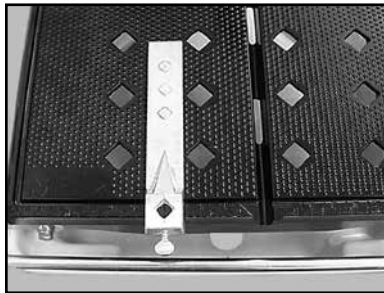
Ensure the Adjusting Knob is tight.

CUTTING STRAIGHT EDGES

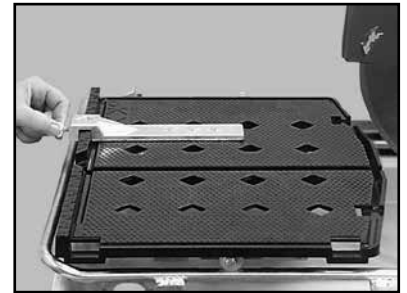
CAUTION **DO NOT FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.



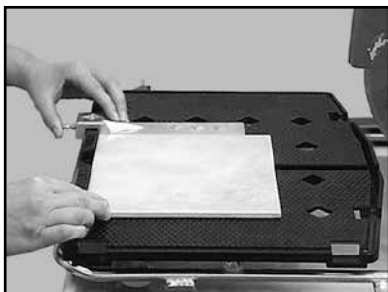
(A)
Loosen the Adjustable Cutting Guide retaining thumbscrew.



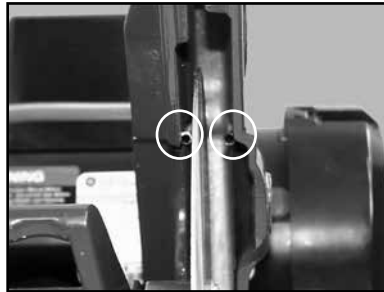
(B)
Position the Adjustable Cutting Guide to desired cut length.



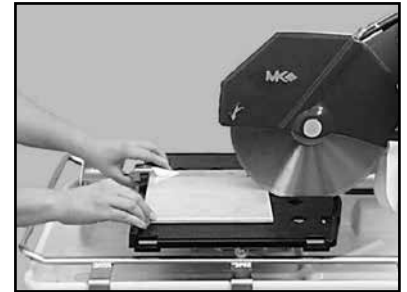
(C)
Tighten the retaining thumbscrew.



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



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

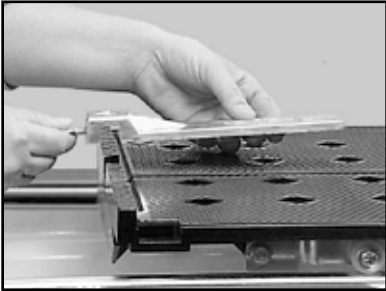


(F)
Perform the cut. Turn the motor OFF when work is complete.

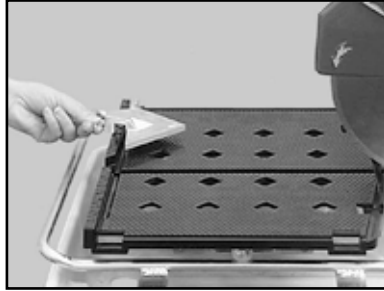
DIAGONAL CUTTING

NOTE: To cut diagonal, the Dual 45° Flat Angle Guide (MK Diamond Part No. 134557-MK) should be used.

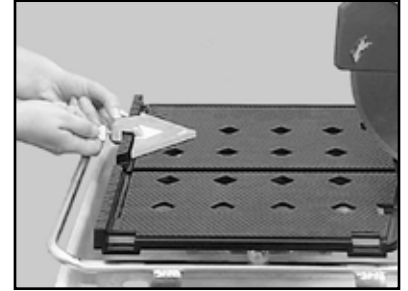
CAUTION DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



(A)
Remove the Adjustable
Cutting Guide.

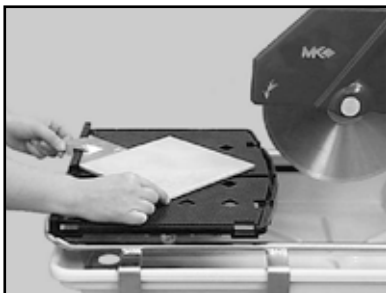


(B)
Place the Dual 45° Flat Angle
Guide on the Ruler/Stop.

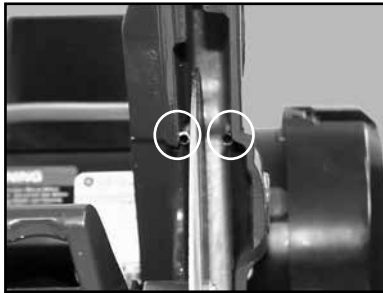


(C)
Position the Dual 45° Flat
Angle Guide and tighten the
retaining thumbscrew.

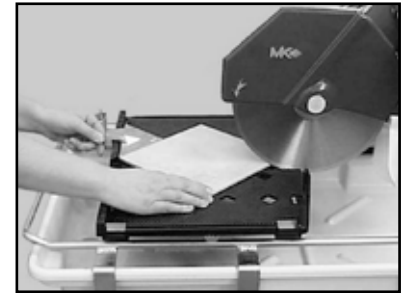
NOTE: If Cutting the tile in two equal halves, align the tile in the V-notch of the Movable Cutting Table Ruler/Stop.



(D)
Position the tile against the
Dual 45° Flat Angle Guide and
the Ruler/Stop. Turn the motor
ON.



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



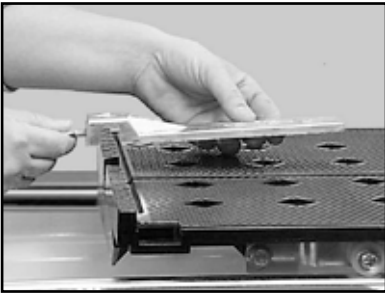
(F)
Perform the cut. Turn the motor
OFF when work is complete.

45° MITER CUTTING

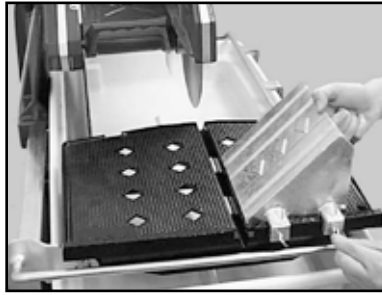
NOTE: To cut 45° Miters, the 45° Bullnose Miter Guide (MK Diamond Part No. 134585-MK) should be used.



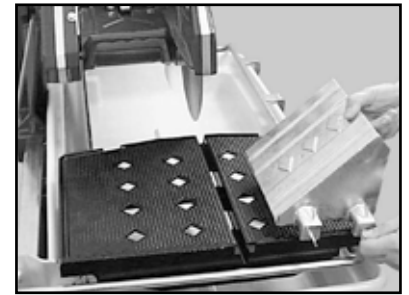
CAUTION DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



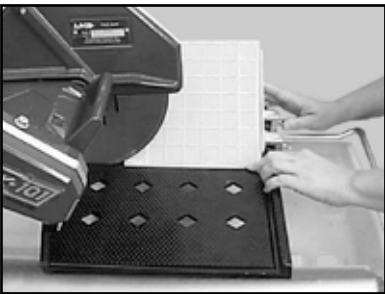
(A)
Remove the Adjustable
Cutting Guide.



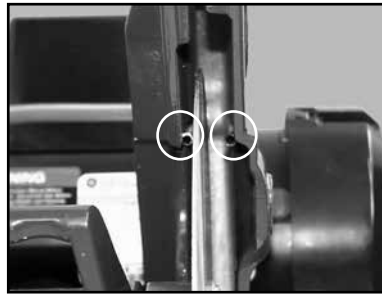
(B)
Place the 45° Miter
Guide on the Ruler/Stop.



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



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



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



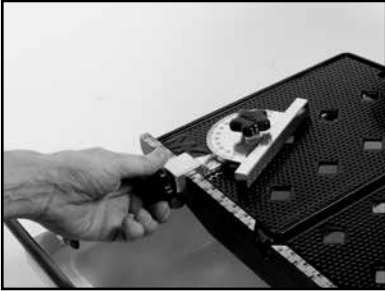
(F)
Perform the cut. Turn the motor
OFF when work is complete.

OFF-ANGLE CUTTING

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

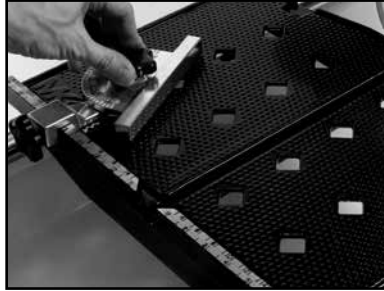


CAUTION DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.



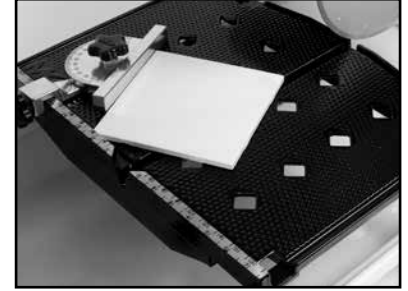
(A)

Place the 90° Protractor on the Ruler/Stop.



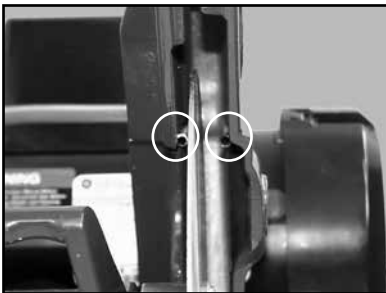
(B)

Set the desired angle and tighten the thumbscrew and tighten retaining thumbscrews.



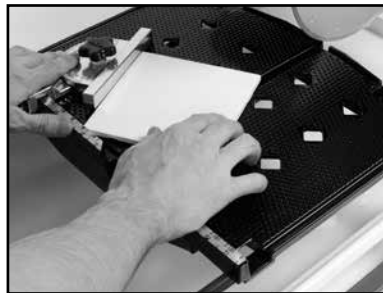
(C)

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



(D)

Turn the motor ON. Verify proper cooling flow on both sides of the blade.



(E)

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

ADJUSTING THE CUTTING HEAD

⚠ 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. Remove the blade and then Adjusting Knob.



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



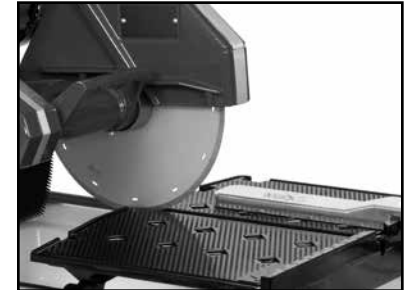
(C)
Move Cutting Head Stop to down position.



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



(E)
Install the Adjusting Knob.



(F)
Install Diamond Blade. Set cutting depth approx. 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.

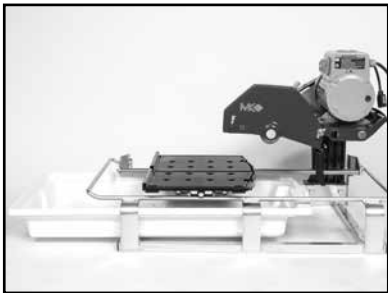
NOTE: Move Cutting Head Stop in upward positions when using rear pivot hole and in the down position when using front pivot hole.



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.

ADJUSTING THE POST FOR MAXIMUM CUTTING LENGTH

⚠ CAUTION The Cutting Head and Post are heavy. Care must be used when changing the position of the Cutting Head.



(A)
Remove Water Basin.



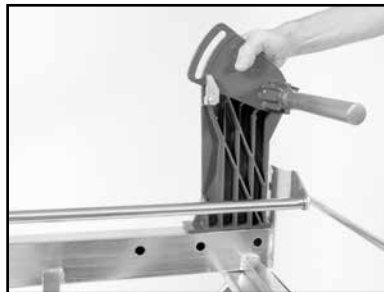
(B)
Remove the Cutting Head (See Adjusting the Cutting Head).



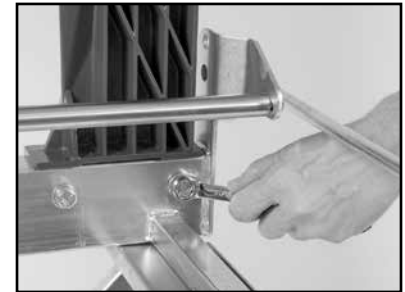
(C)
Loosen the Retaining Bolts.



(D)
Remove both the Standoffs and Retaining Bolts.



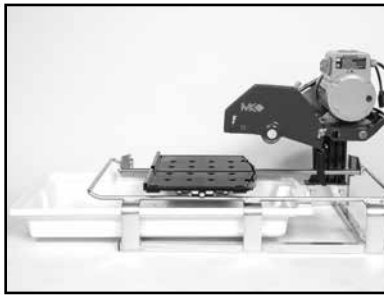
(E)
Relocate the Post to the rear Post retaining holes. Insert Standoffs and Retaining Bolts.



(F)
Secure the Post Support by tightening Retaining Bolts.



(G)
Install the Cutting Head in rear Pivot Hole (See Adjusting the Cutting Head).



(H)
Install the Water Basin and blade.

- NOTE:**
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.



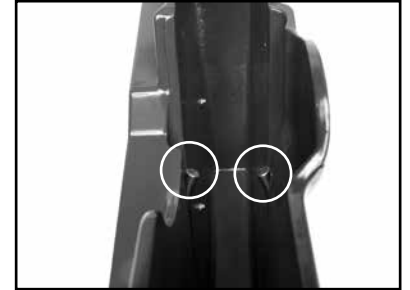
(A)

Clean the Water Pump suction of all debris. Refer to water pump manual.



(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.).



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



(D)

Remove the Water Basin and clean.



(E)

Clean the Movable Cutting Table Roller Wheel and Frame Support.



(F)

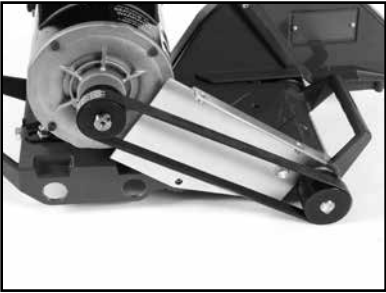
Clean the remainder of the MK-101.



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

NEW MAINTENANCE

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

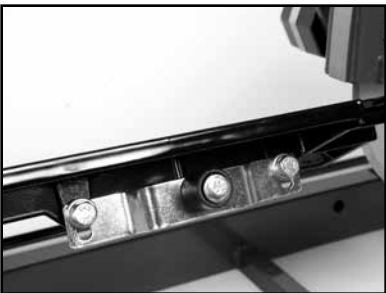


(A)

Check and adjust V-belt tension following 1st 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, MK Linear Guide Bar Lubricant, 3-IN-ONE oil, or other multipurpose spray lubricant.



(D)

Lubricate the Guide Bar and 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 Inner Flange.



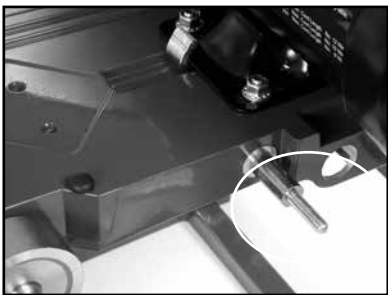
(D)
Verify the Roller Wheel
Assembly is tight and in
good condition.



(E)
Verify all motor mounting
Bolts are tight.



(F)
Verify the Motor Adjustment
Strap is tight.



(G)
Lubricate the Blade Guard
Pivot Shaft.



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

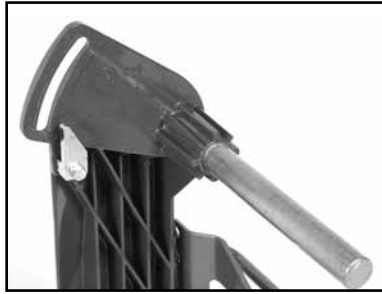


(I)
Lubricate the Cutting Head
Adjustment Knob.



(J)

Lubricate the Cutting Head Adjustment Knob retaining holes.

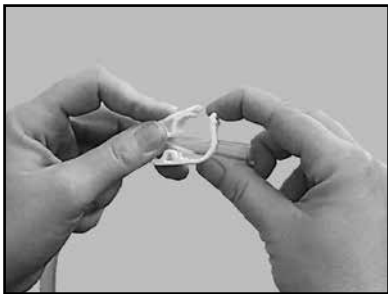


(K)

Lubricate the Cutting Head Pivot Shaft.

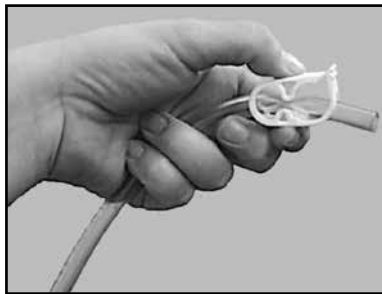
FLOW ADJUSTMENT

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



(A)

Increase cooling flow by releasing the Flow Adjusting Clamp.



(B)

Reduce cooling flow by pressing down on the Flow Adjusting Clamp.

BLADE DRESSING

Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or "glazed" over. This will reduce grinding efficiency and may cause the blade to "wander" or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part number 152972) and by following the steps below.



(A)

Cut the Dressing Stick 7 or 8 times to dress the Blade.

DIAMOND BLADE CHANGE OUT

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



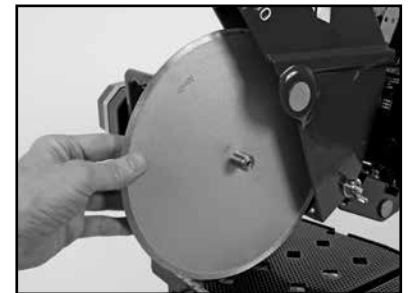
(A)

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.



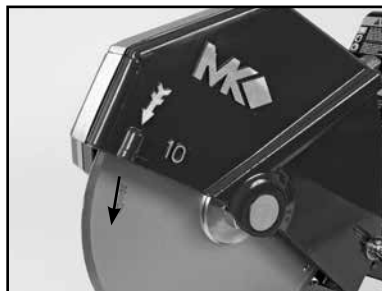
(C)

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.



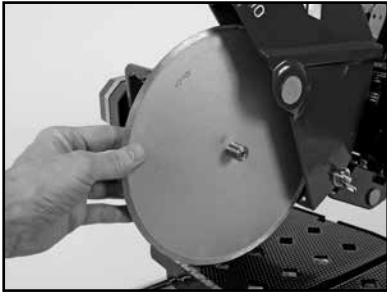
(F)

Depress and hold the Shaft Lock button and tighten Retaining Nut.

BELT INSPECTION, ADJUSTMENT AND REPLACEMENT

MK-101 is designed with a power transmission V-belt. In order to ensure the MK-101 operates at peak efficiency, the V-belt should be inspected monthly, and change if the V-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).



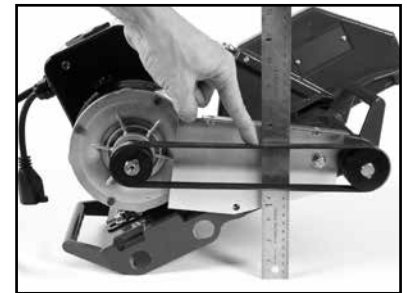
(C)
Remove the two top Belt Guard Bolts.



(D)
Remove Belt Guard bottom bolt.



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



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



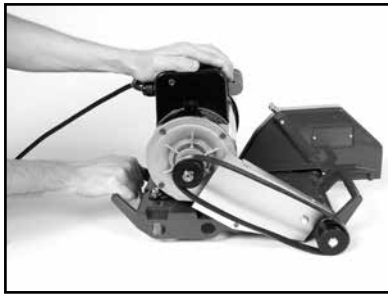
(G)
Loosen the two front motor mounting bolts. If re-tensioning only, go to step N.



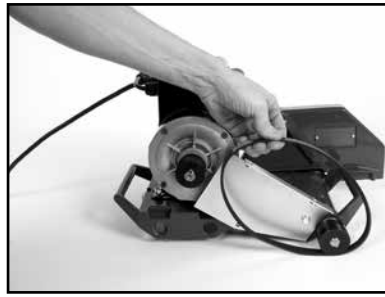
(H)
Loosen the two back motor mounting bolts.



(I)
Loosen the Motor Adjustment Strap.



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



(K)
Remove the Micro-V Belt.



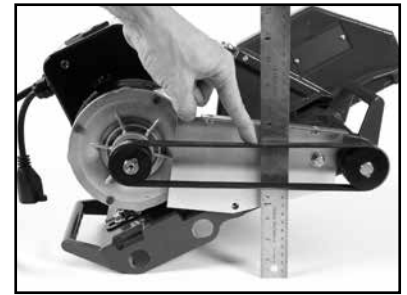
(L)
Install the new Micro-V Belt (MK Diamond Part No. 158194).



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



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



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



(P)
Tighten the four motor mounting bolts.

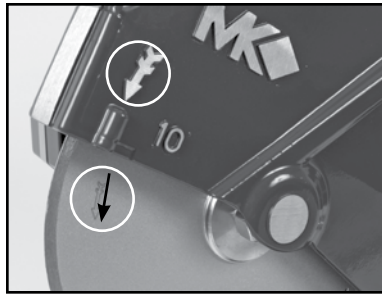


(Q)
Install the Belt Guard.

BLADE WILL NOT CUT PROPERLY

(A)

Check for Smoothness or "Glazing" (See Blade Dressing Section).



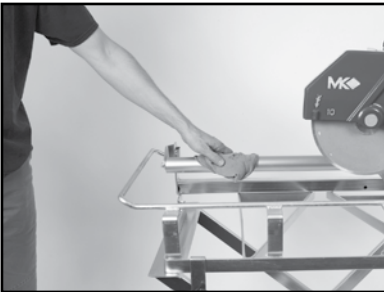
(B)

Check for proper blade rotation. Ensure arrow engraved on blade matches the directional arrow on blade guard.



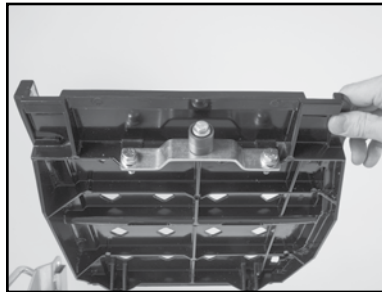
(C)

Ensure the Blade Core is not bent. Verify the blade is correct for the material being used.

MOVABLE CUTTING TABLE DOES NOT MOVE CORRECTLY

(A)

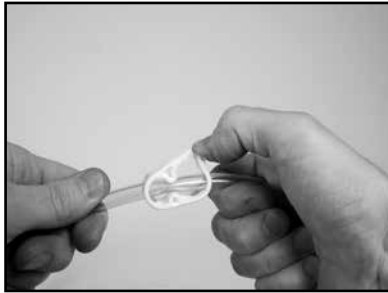
Check the Guide Bar and Frame for cleanliness - clean if dirty.



(D)

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

COOLING FLOW



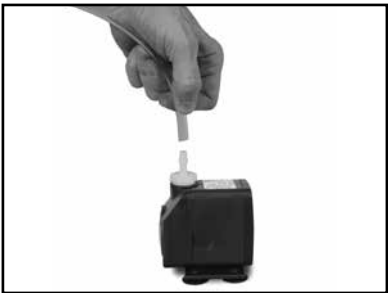
(A)
Check cooling flow Adjusting
Clamp open.



(B)
Remove the Cooling Transfer
Tube from the Blade Guard inlet.



(C)
Place Pump into a bucket of
water and check flow.



(D)
Remove the Cooling Transfer
Tube and check flow.



(E)
Inspect and clean pump. See
pump manual.



(F)
Remove the Blade Guard Intake
Fitting and check.

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



(G)
Remove the Cooling Channel
cover screws.



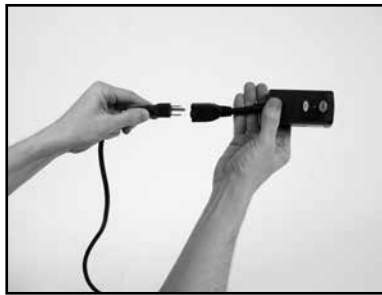
(H)
Rod Cooling Channels and
recheck flow.

BLADE STOPS TURNING



(A)

Allow motor to cool and depress motor Overload Reset Switch.

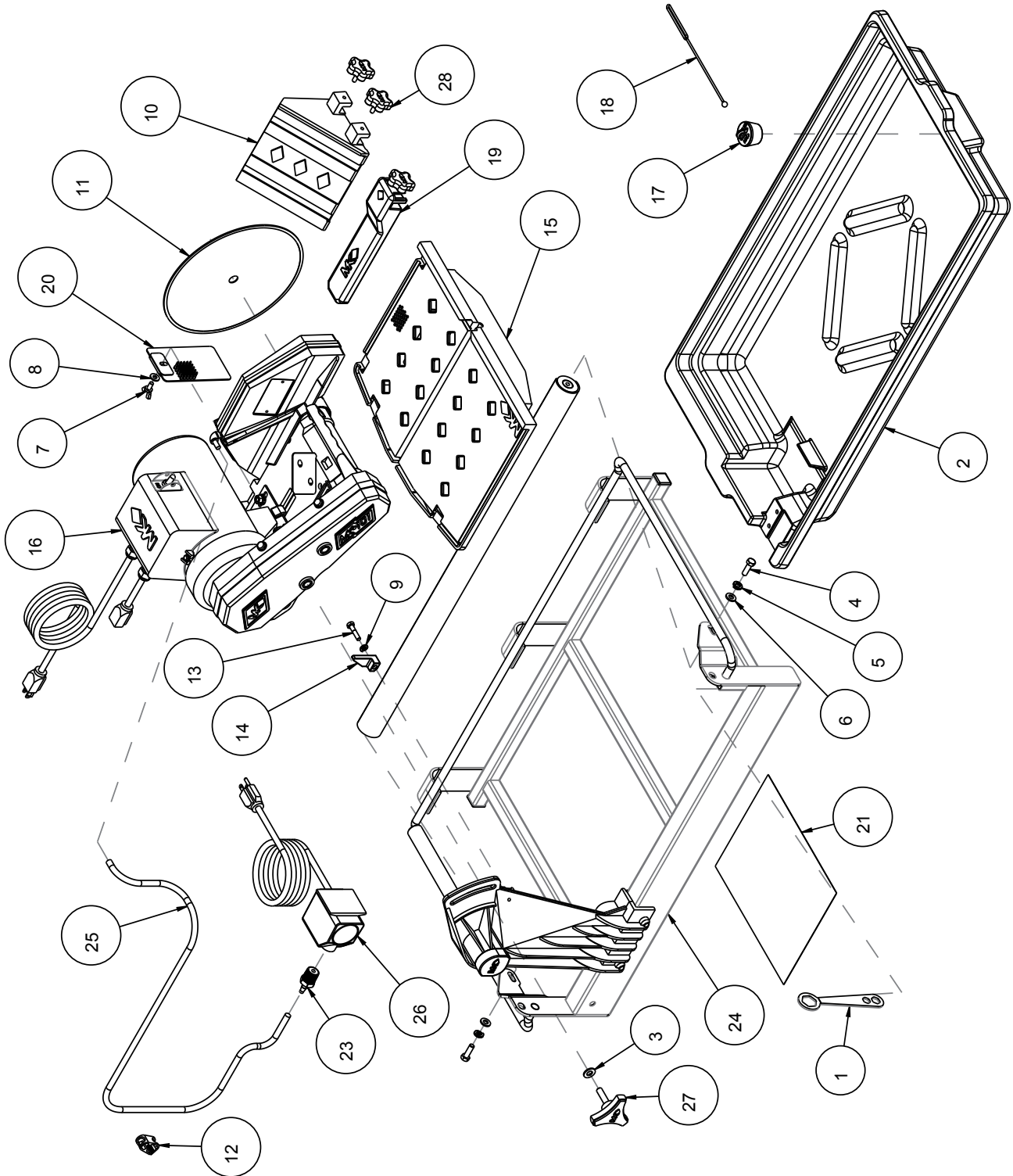


(B)

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.

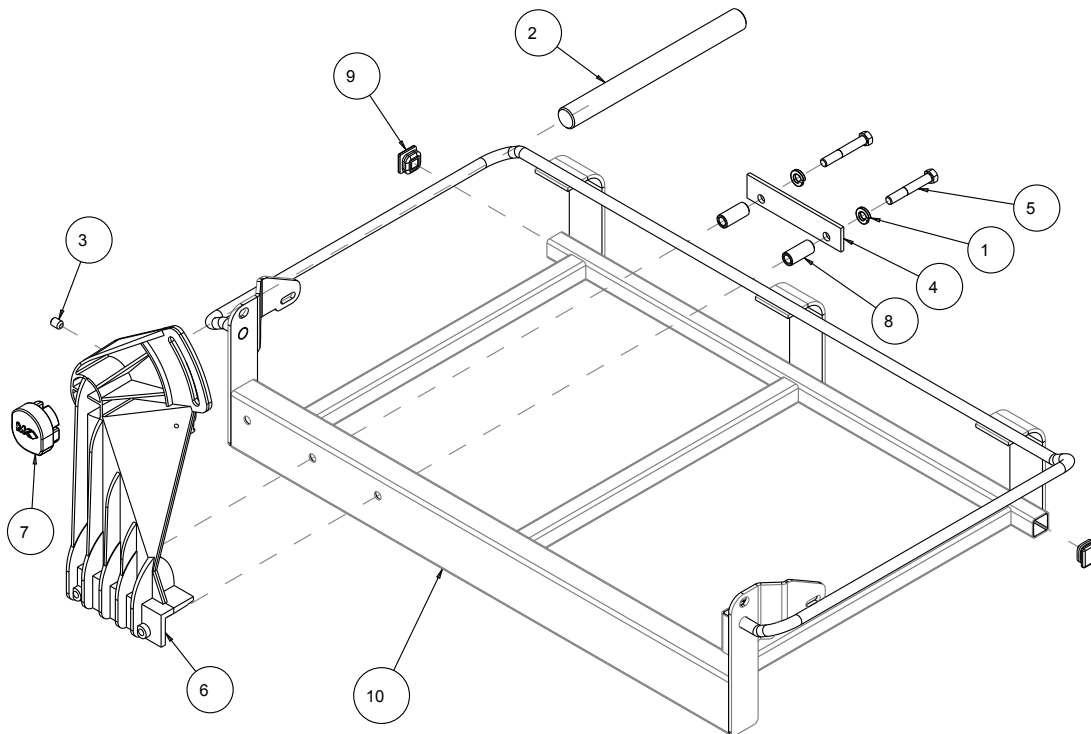
MK-101 SAW P/N 151991



MK-101 SAW P/N 151991

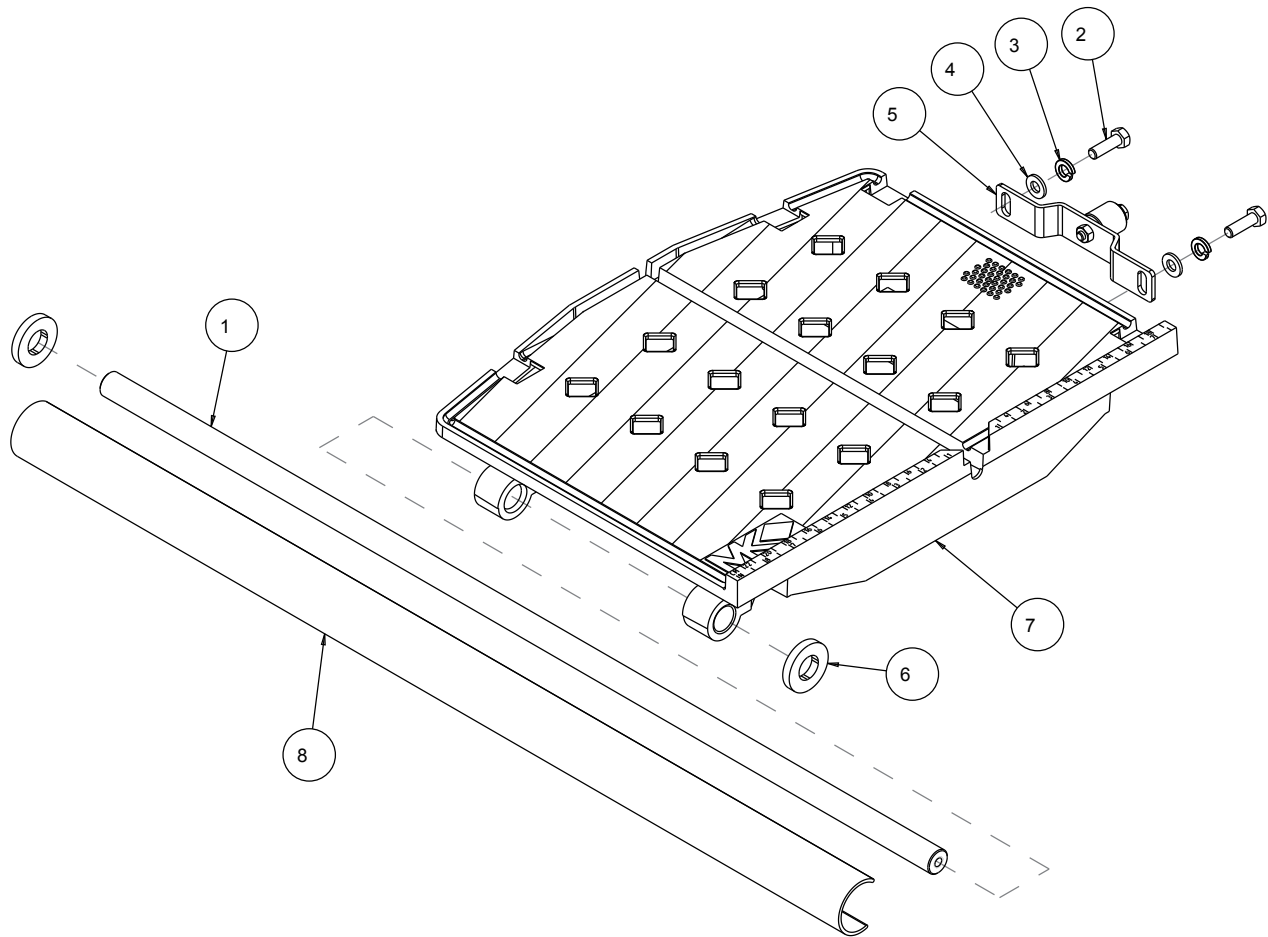
Item	Description	Part #	Qty
1	WRENCH, TILE SAW NUT 15/16	134684	1
2	PAN, PLASTIC MK-101	150634	1
3	WASHER, FLAT, SAE, 3/8	150923	1
4	SCREW, HEX HD, 5/6 - 18 X 1	151743	2
5	WASHER, LOCK, SPLIT, 15/16	151747	2
6	WASHER, FLAT, SAE, 5/16	151754	2
7	SCREW, WING, 1/4 20 X 1/2	151888	1
8	WASHER, FLAT, SAE, 1/4	151915	1
9	WASHER, LOCK, SPLIT 1/4	152591	1
10	CASTING, ACC BULLNOSE LRG - COMP	153201	1
11	MK-100 10 X 060 X 5/8	154380	1
12	CLAMP, HOSE, 1/4 - 1/2 FLOW	154394	1
13	SCREW, HEX HD 1/4 - 20 X 1-1/4	157145	1
14	STOP, CUTTING HEAD	157728	1
15	ASSY, DC TABLE, MK-101	158477	1
16	ASSY, DC CUTTING HEAD, MK-101	158478	1
17	DRAIN PLUG, W/RING	159529	1
18	STRAP, 9" DRAIN PLUG	159530	1
19	RIP GUIDE, LARGE DIE CAST	159751	1
20	GUARD, SPLASH	160310	1
21	SHEET, WARNING LABELS, TILE SAW	166012	1
22	ASSY, CARTON, MK-101	166621	1
23	ADAPTER, 1/2 NPT X 1/4 BARB	168261	1
24	ASSY, FRAME & POST, MK-101	170476	1
25	HOSE, VINYL, 1/4 X 3/8 (6.0')	132951	1
26	PUMP, WATER 115V/60HZ UL/CSA	151271-VP	1
27	KNOB, TRI PLASTIC MK-660 1 - 1/2	156770-02	1
28	KNOB, RUBBER, 1/4 - 20 X 3/4" LONG	159428-1	2

FRAME ASSEMBLY P/N 170476



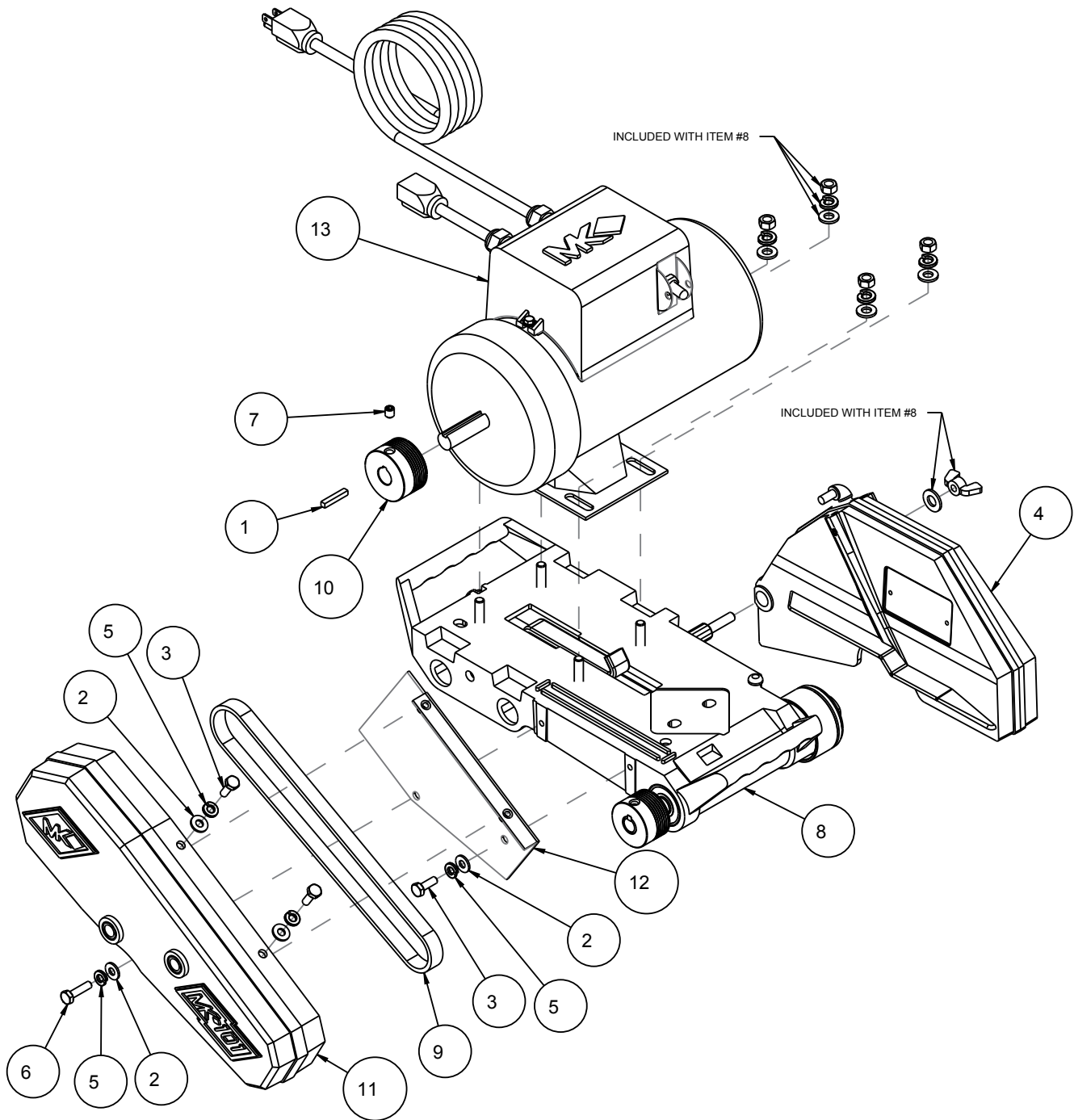
Item	Description	Part #	Qty
1	WASHER, LOCK, SPLIT, 3/8	150925	2
2	SHAFT, 10.63 PIVOT	153254	1
3	SCREW, SET, SOC, CUPT, 3.8 - 16 X 1/2	153710	1
4	PLATE, PRESSURE	155671	1
5	SCREW, 3/8 16 X 2 -1/2 HEX HEAD CAP	156030	2
6	CASTING, POST, DC, 101 MKRED-COMP	158438	1
7	POST COVER, PLASTIC	160157	1
8	SPACER, 5.8 X .385 X 1.4	160654	2
9	PLUG, PLASTIC, 1 SQ- 14 - 20 GA	160727-1	2
10	FRAME, 10" TILE SAW, 18" RIP	168021	1

TABLE ASSEMBLY P/N 158477



Item	Description	Part #	Qty
1	BAR, GUIDE PLATED MK-101	134759	1
2	SCREW, HEX HD, 5/16 - 18 X 1	151743	2
3	WASHER, LOCK, SPLIT, 5/16	151747	2
4	WASHER, FLAT, SAE, 5/16	151754	2
5	ASSY, WHEEL BRKT TSAW	151756	1
6	SPACER, GUIDE BAR COVER, COMMON	152393	2
7	CASTING, TABLE MK-100 COMP	157660	1
8	COVER, GUIDE BAR, 120 DEG	158403	1

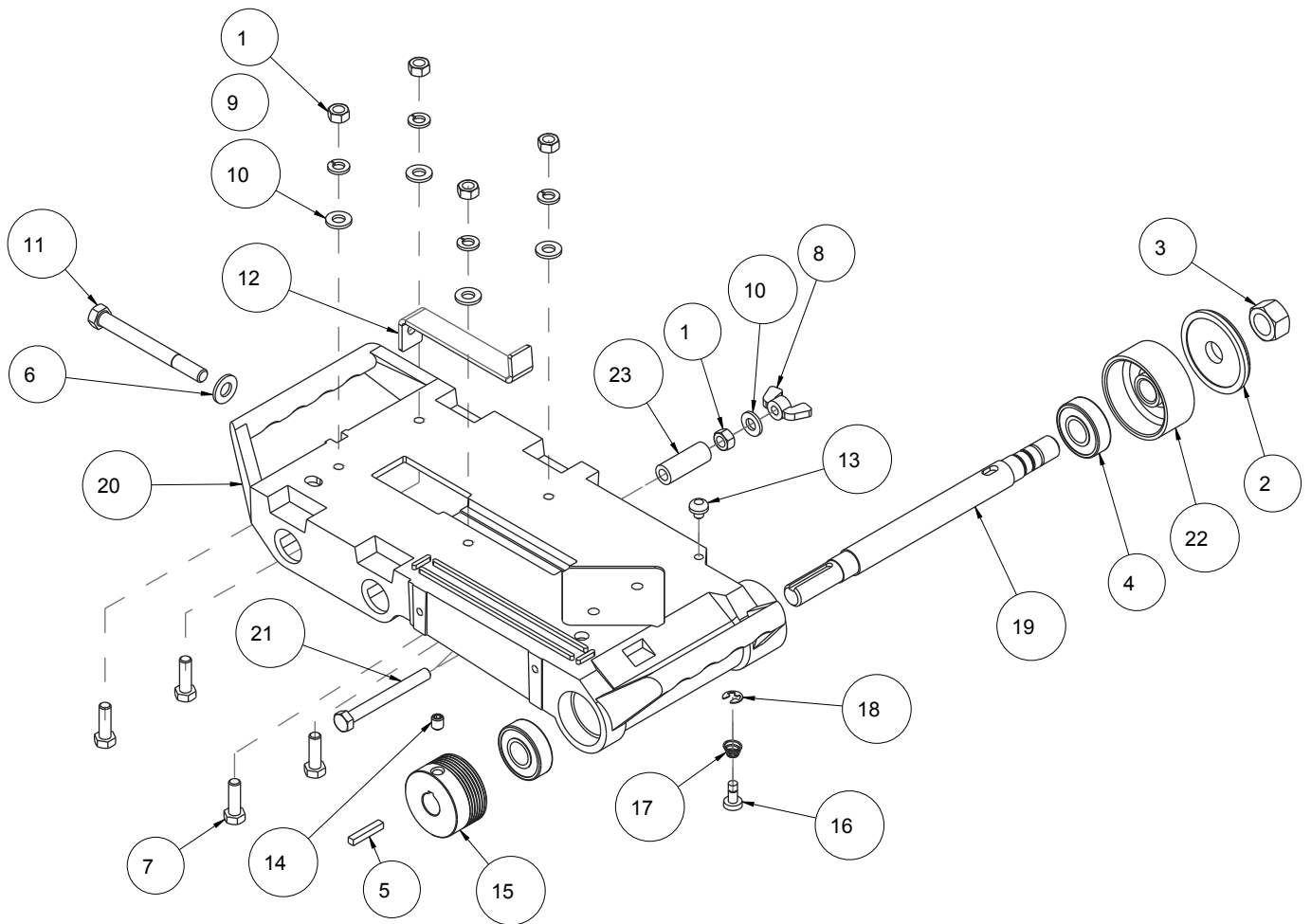
CUTTING HEAD ASSEMBLY P/N 158478



CUTTING HEAD ASSEMBLY P/N 158478

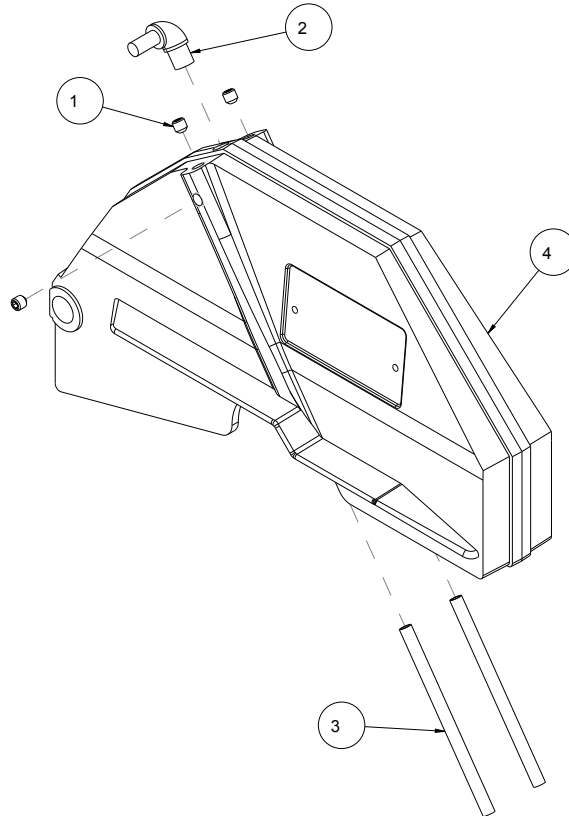
Item	Description	Part #	Qty
1	KEY, 3/16 SQ X 1-1/8	150344	1
2	WASHER, 1/4 SAE FLAT	151915	4
3	SCREW, HEX HD, 1/4 -20 X 3/4	152370	3
4	ASSY, BLADE GUARD, 101	152582	1
5	WASHER, 1/4 SPLIT LOCK	152591	4
6	SCREW, HEX HD TAP, 1/4 - 20 X 1	152676	1
7	SCREW, 5/16 -18 X 3/8 SOCKET HEAD SET	157083	1
8	ASSY, SBU, CUTTING 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	MTR, 1-1/2 HP, 115V, 60HZ-VP	168022G	1

SUB HEAD ASSEMBLY P/N 158191



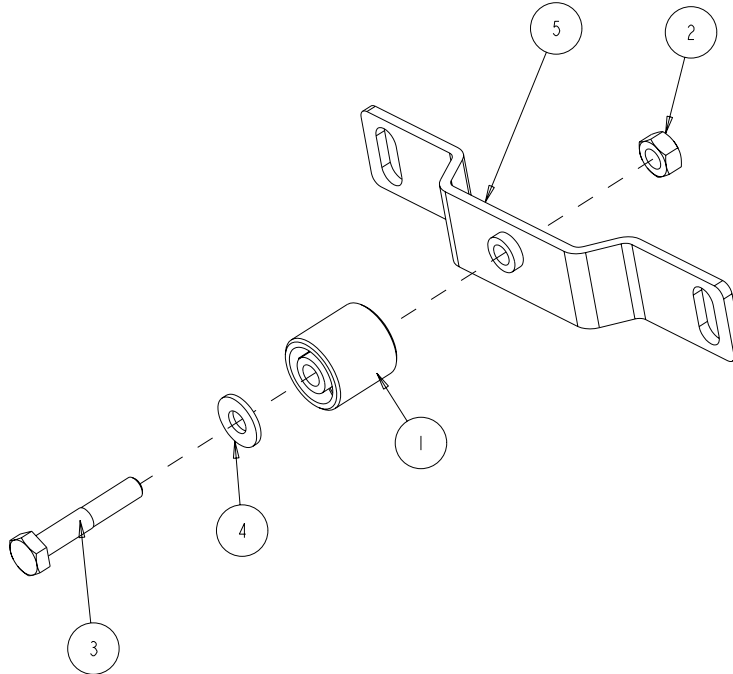
SUB HEAD ASSEMBLY P/N 158191

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	SCREW, 3/8-16 X 3 3/4 HEX HD CAP	152504	1
12	STRAP, MTR ADJ. MK101/1080	152673	1
13	BUMPER, RUBBER, 1/2 DIA	152674	1
14	SCREW,SET,KNR CUP,5/16-18X3/8	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, 100/101	158222	1
20	CASTING,10" CTTG HEAD - COMP	158224	1
21	SCREW,HEX HD,TAP,5/16-18X3	162473	1
22	FLANGE, 2-3/8 INNER	162758	1
23	SPACER, 9/16X5/16X1.5, PLAS	170824	1






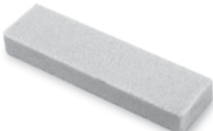



BLADE GUARD ASSEMBLY P/N 152582

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

ROLLER WHEEL ASSEMBLY P/N 151756



Item	Description	Part #	Qty
1	WHEEL, ROLLER	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, 1/4 SAE FLAT	151915	1
5	BRACKET, ROLLER WHEEL	154021	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	
6.	134569-MK	90° PROTRACTOR	
7.	152792	DRESSING STONE	
8.	152610	GROUND FAULT CIRCUIT INTERRUPTER	
9.	168244	FOLDING STAND	
10.	169243	STAND W/CASTERS	

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 to you or visit our web site at 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.

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.

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



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