Caution: Read all safety and operating instructions before using this equipment. This parts list MUST accompany the equipment at all times.
INTRODUCTION

Congratulations on selecting a HD-101R Pro24-JCS. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, this HD-101R Pro24-JCS should provide years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain this HD-101R Pro24-JCS safely and correctly. Please take the time to familiarize yourself with the HD-101R Pro24-JCS by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning this HD-101R Pro24-JCS, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

<table>
<thead>
<tr>
<th>MODEL NUMBER:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SERIAL NUMBER:</td>
<td></td>
</tr>
<tr>
<td>PURCHASE PLACE:</td>
<td></td>
</tr>
<tr>
<td>PURCHASE DATE:</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: For your (3) three 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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### CONTACT & LIMITED WARRANTY
- Contact & Limited Warranty 63
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 bystander 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

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 respiratory programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at:
http://www.cdc.gov/niosh/topics/respirators


CALIFORNIA PROPOSITION 65 MESSAGE

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

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

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

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

MESSAGES DE SÉCURITÉ

Un message de sécurité vous signaler 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.

RENDDRE L'ATELIER SÛR POUR LES ENFANTS
Rentrez 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 SOINGNEUSEMENT 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 POUSSEIRÉ DE SILICE

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

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

SÉCURITÉ DU MOTEUR ÉLECTRIQUE

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

⚠️ ATTENTION

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

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

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

⚠️ AVERTISSEMENT

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

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

⚠️ AVERTISSEMENT

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

⚠️ AVERTISSEMENT

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

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

⚠️ CAUTION

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

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

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

⚠️ WARNING

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

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

⚠️ WARNING

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

⚠️ WARNING

The water pump requires a GFCI. To reduce risk of electrical shock when operating the machine with the pump plugged into the 3-pole receptacle on the motor, connect the 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](image)

**NOTE:** Use of a temporary adapter is not permitted in Canada.

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

To avoid the possibility of the appliance or plug receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping into the receptacle or plug. A "drip loop," shown in the picture below, should be arranged by the user to properly position the power cord relative to the power source. Use the drip loop as a way to prevent GFCI and plug from getting wet.

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

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

![Drip Loop Information](image)

**WARNING**

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

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

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

To choose the proper extension cord,

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

<table>
<thead>
<tr>
<th>MOTOR SPECS</th>
<th>EXTENSION CORD LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>Voltage</td>
</tr>
<tr>
<td>169223-TLG</td>
<td>120V 1 Ph</td>
</tr>
</tbody>
</table>

**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.

**TILE SAW SPECIFIC WARNINGS**

**WARNING**

Wear eye protection.
Use splash guard for every operation for which it can be used.
Disconnect saw before servicing, when changing cutting blades, and cleaning.
Replace damaged cutting blade before operating.
SAFETY LABEL LOCATIONS

The warning 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.

![Safety Label Locations Diagram](image)

- **Part # 164202**
- **Part # 155806**
- **Part # 154822**
- **Part # 155678**
- **Part # 155038**
- **Part # 155672**
- **Part # 170480**

**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  
H  
Stand  
Read Manual - Instructions for the stand
PRODUCT SPECIFICATIONS

- Integrated stand allows operator to set up or transport in a matter of seconds
- Solid rubber heavy-duty wheels won't scuff floors
- Designed for easy transport, loading and storage by one person
- Integrated gas shocks help handle the weight of the saw during setup and breakdown
- Wheel latches prevents stand from moving during operation
- Fully enclosed high torque, fan-cooled motor
- Permanently lubricated, dual-sealed, heavy-duty blade shaft bearings
- Multi-position motor post and cutting head for convenient cutting of various tile sizes
- Built-in water distribution system supplies water to both sides of blade
- Variable height cutting head allows for plunge cuts and use of blades smaller than 10" in diameter
- Accommodates 6" and 8" profile wheels
- Micro V-belt drive
- Blade shaft lock for easy blade removal
- Linear-bearing and chrome plated guide-bar assembly ensure precise cutting
- Cast aluminum blade guard and motor post
- Made in the USA

<table>
<thead>
<tr>
<th>Motor</th>
<th>ABB Baldor (Electric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1-1/2 HP, 120V</td>
</tr>
<tr>
<td>AMP</td>
<td>14.3</td>
</tr>
<tr>
<td>Blade RPM</td>
<td>3450</td>
</tr>
<tr>
<td>Blade Capacity</td>
<td>10&quot; (254 mm)</td>
</tr>
<tr>
<td>Arbor</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>Depth of Cut</td>
<td>3&quot; (76 mm)</td>
</tr>
<tr>
<td>Length of Cut</td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td>Diagonally Cut</td>
<td>18&quot; (457 mm)</td>
</tr>
<tr>
<td>L x W x H (inches)</td>
<td>48&quot; x 24&quot; x 29&quot;</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>1,219 x 610 x 737</td>
</tr>
<tr>
<td>Weight</td>
<td>156 lbs. (71 kg)</td>
</tr>
<tr>
<td>Part #</td>
<td>153243-HD-JCS</td>
</tr>
</tbody>
</table>

Motor available in other electrical configurations.

UNPACKING

Your saw has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

⚠️ CAUTION Use proper lifting techniques when lifting the Saw.
In your container, you will find one (1) Frame and Water Basin, one (1) Cutting Head, one (1) Diamond Blade, one (1) Adjustable Cutting Guide, one (1) Water Pump Clamp And Wing Nuts (1) Electric Water Pump, one (1) Cooling Transfer Tube, one (1) Flow Adjusting Clamp, one (1) Drain Plug, one (1) Blade Wrench, one (1) Splash Guard, one (1) GFCI Cord, one (1) Extension Cord, one (1) 45° Bullnose Miter, one (1) 90° Protractor, one (1) Owner's Manual, one (1) Pump Manual and one (1) Warranty Card.

**TRANSPORT**

⚠️ CAUTION 1. The MK-101 weighs approximately two hundred and two (202) pounds.

Lift the saw using the handle.
JCS STAND: Key Components for Set Up

NOTE: Familiarize with the following components before proceeding to SET UP.

- Front Leg
- Green Knob
- Red Leg Lock
- Blue Knob
- Handle
- Cross Member
- Cutting Head Handle
- Wheel Lock
- Air Springs
- Safety Arm
- Front Legs
**CAUTION**  THE MK-101 w/JCS stand weighs approximately two hundred and two pounds (202 pds). Read and understand all instructions. Failure to follow all instructions in SEQUENCE could result in serious injury.

(A) Pull, turn & release pin to lock Wheel.

(B) Stand on left side of saw. Pull Blue Knob and pull Front Legs out slowly.

(C) Pull legs until they are locked by Red Leg Lock.

(D) Place left foot on left wheel, left hand on Handle and right hand on Front Legs.

(E) Tilt Saw forward and rest Front Legs on ground.

(F) Move to rear end of Tile Saw. Locate Cutting Head Handle.

(G) Lift saw up vertically with Cutting Head Handle.

(H) Push down lightly on Cutting Head Handle to ensure saw is fully supported.

(I) Pull Green Knob to release Safety Arm.

(J) Ensure that Safety Arm rests on Rod.
JCS STAND - Take Down Instructions

(A) Move table forward toward operator.

(B) Pull and hold Green Knob. Lift Safety Arm until it hits bottom of Frame.

(C) Release Green Knob to secure Safety Arm.

(D) Move Table back and ensure table is secure.

(E) Push down on Cutting Head Handle to collapse the saw.

(F) Tilt Saw backwards to upright position.

(G) Hold up Front Legs, flip and hold Red Leg Lock to unlock Front Legs.

(H) Push Front Legs against frame and lock with Blue Knob, push until locking pin engages.

(I) Pull back pin and place behind retaining rod to unlock wheel.
Following 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)** 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 Screw, do not “cross-thread” and DO NOT over tighten the screw.

(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.

CAUTION

ADJUSTABLE CUTTING GUIDE INSTALLATION

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

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

SPLASH GUARD INSTALLATION

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

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

WATER PUMP PREPARATION

(A)
Install Water Pump Discharge Fitting.

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

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

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

(A) Ensure the ON/OFF Switch is in the OFF position.
(B) Verify the Movable Cutting Table moves freely.
(C) Inspect the Diamond Blade for damage – verify the blade is correct for the material being cut.
(D) Inspect the Pump Assembly for damage – ensure the cord is free of cracks or cuts.
(E) Inspect the HD-101R Pro24-JCS & MK-101XL HD24 JCS 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.

(A) Connect the Cooling Transfer Tube to the inlet connection of the Blade Guard.
(B) Connect the Water Pump power cord to the connection found on the back of the motor.
WATER PUMP SETUP FOR OPERATION

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

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

**External Water Source**

This is the preferred method of cooling.

(A) Remove the Drain Plug. Place empty container under hole for water drainage.

(B) Place the Water Pump in an external container and fill until water completely covers the Water Pump suction.

**Re-circulation**

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

(A) Ensure the Drain Plug is installed in the Water Basin.

(B) Place Water Pump in Water Pan.

(C) Place Water Pump Clamp as shown.

(D) Secure Clamp with wingscrews and nuts. Fill the Water Basin until water completely covers the Water Pump suction.
MK-101 PRO Series Setup for Operation

⚠️ CAUTION ⚠️
1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing its intended function. Check for binding and 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

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

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

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

*A GFCI wall socket is the preferred protective device.

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.
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 tile against the Ruler/Stop. Turn on motor.

(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.
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 45º Bullnose Miter Guide and tighten the retaining thumbscrew.

(B) Position the tile on the 45º 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 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.

1. **(A)** Place the 90° Protractor on the Ruler/Stop.
2. **(B)** Set the desired angle and tighten the thumbscrew.
3. **(C)** Position the 90° Protractor and tighten the retaining thumbscrew.
4. **(D)** Position the tile against the 90° Protractor and the Ruler/Stop. Turn the motor ON.
5. **(E)** Verify proper cooling flow on both sides of the blade (See Maintenance Section to increase/decrease flow).
6. **(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) Move Cutting Head Stop to Down Position.

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

(F) Install the Adjusting Knob.

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

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

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

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

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

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

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

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

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

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

(I) Install the Water Basin.
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.

(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 minute).

(D) Remove the Water Basin.

(E) Clean the Movable Cutting Table Guide Bar.

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

(G) Clean the remainder of the saw.

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

⚠️ CAUTION  Ensure water is not forced into the motor casing when cleaning.
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 Pro24, the following procedure should be performed after each use. Lubricate all points listed below with light oils such as, MK Linear Guide Bar Lubricant, 3-IN-ONE oil, or other multipurpose spray lubricant.

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

(A) Lubricate the Guide Bar.

(B) Lubricate the Roller Wheel Assembly.
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.
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) Setup the saw 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 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 pushbutton on the underside of the Cutting Head.

(B) Remove Retaining Nut and Outer Flange, depress and hold the Shaft Lock push button 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.
The MK-101 is designed with a power transmission belt. In order to ensure the MK-101 operates at peak efficiency, the 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) Remove the Belt Guard. Loosen the two top bolts.

(D) Remove belt guard bottom bolt.

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

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

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

(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 (MK Diamond Part No. 158194).

(L) Verify the 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 N and O 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) Remove the Cooling Transfer Tube from the Blade Guard inlet. Go to Step C.

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

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

(D) Remove the Blade Guard Intake Fitting. Go to Step J.

(E) Remove the Cooling Channel cover screws.

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

NOTE: “Rooling” 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 are fully installed. Check to see if the Ground Fault Circuit Interrupter (GFCI) is tripped*. If not tripped, or if a re-trip occurs, go to Step D.

(C) Verify the circuit breaker is at least 20 amps – if not, move to a 20-amp circuit. If circuit is 20 Amps or greater, go to step E.

(D) Verify circuit breaker is not tripped, if it is tripped – reset the circuit breaker once. If circuit breaker not tripped, go to Step f.

(E) Check power source voltage is 120V, if it is not 120v – move to another circuit.
Movable Cutting Table Misaligned

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:

You will need the following tools:

(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.
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<td>CAP, VINYL, 1/2&quot; - 9/16 X .75</td>
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<td>LATCH, FRONT SAFETY</td>
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<td>SCREW, SHOULDER, 5/16 X 2</td>
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<td>SCREW, BTTN, ALN, CAP, #8 - 32 X 3/4</td>
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<td>SPRING, EXTENSION, .25 X .94 X .02</td>
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<td>WASHER #10, INTERNAL TEETH</td>
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<td>BOX, 30A SWITCH (COMP)</td>
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<td>GASKET, COVER, 30 AMP SWITCH</td>
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<td>SEAL, LEVER, 30 AMP SWITCH</td>
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<td>SCREW, PAN HD PHIL 10 24 X 5/16</td>
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<td>COVER, 30A SWITCH (COMP)</td>
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<td>LEVER, ACTUATOR (COMP)</td>
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<td>SCREW, HEX HD FL 10 24X 5/16</td>
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### ASSY ROLLER WHEEL P/N 151756

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<td>BELT, MICRO-V, 260J6</td>
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<td>WASHER, 1/4 SAE FLAT</td>
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# ASSY BLADE GUARD P/N 152582-OR

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<td>SCREW, 5/16-18 X 1/2 SOCKET HEAD SET</td>
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<td>ELBOW, 1/8 MNPT X 1/4 BARB 90DET</td>
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<td>TUBE, WATER</td>
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<td>CASTING, 101 BLD GUARD-DC-COMP</td>
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ORDERING INFORMATION

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

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

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

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

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

RETURN MATERIALS POLICY

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

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

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

For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service.

PACKAGING INSTRUCTIONS

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

AUTHORIZED SERVICE CENTERS

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