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MK-VTS/50 OWNER'S MANUAL & PARTS LIST



Revision 118	12.2021
Manual Part No. 167790	

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

INTRODUCTION

We at MK Diamond want to congratulate you on selecting the MK-VTS/50 Floor Scraper. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your MK-VTS/50 Floor Scraper should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-VTS/50 Floor Scraper safely and correctly. Please take a few minutes to familiarize yourself with the MK-VTS/50 Floor Scraper by reading and reviewing this manual.

Read and follow all safely, operating and maintenance instructions.

If you should have questions concerning your MK-VTS/50 Floor Scraper, 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.



Asbestos Warning

Some floor coverings contain asbestos. Removing, cutting, grinding or otherwise disturbing these coverings can cause asbestos dust to become airborne. Never remove flooring containing asbestos without fully understanding proper state and federal procedures and guidelines for removal of these products. Laws are different from state to state.

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 potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!



WARNING

In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided – if it will not fit the outlet; have the proper outlet installed by a qualified electrician.
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- Repair or replace a damaged or worn cord immediately.



WARNING

This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A of Figure 1. The tool has a grounding plug that looks like the plug illustrated in Sketch A of Figure 1. 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, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

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

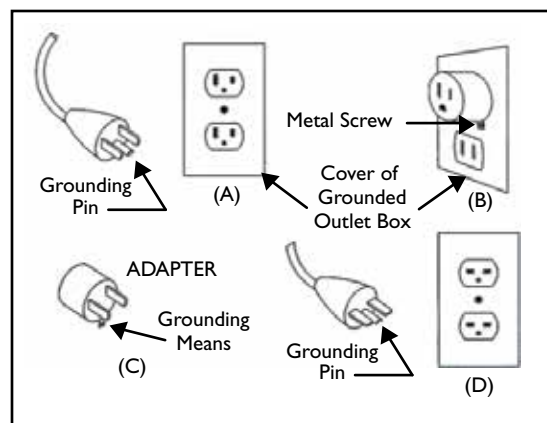


Fig. 1 Circuit and Adapter Information

**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 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.

**WARNING**

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

**WARNING**

Use of undersized extension cords result in low voltage to the motor that can result in motor burnout and premature failure. 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.

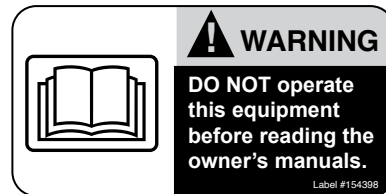
MOTOR SPECS			EXTENSION CORD LENGTH			
Motor	Voltage	Amps	25'	50'	100'	200'
06-550-10	115V 1 Ph	12.8	14 ga	12 ga	8 ga	6 ga
	208/230V 1 Ph	6.4	18 ga	16 ga	14 ga	10 ga

SAFETY LABEL LOCATIONS

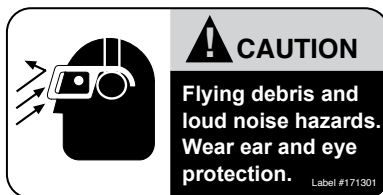
Safety labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement.



Part # 164202

A

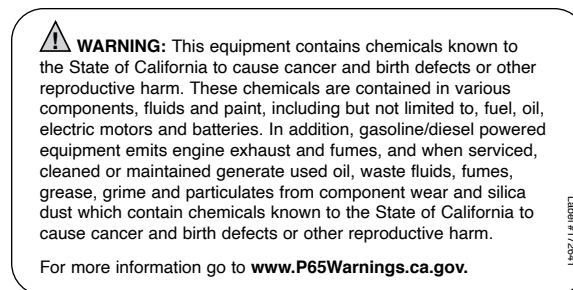
Part # 154398

B

Part # 171301

C

Part # 170480

D

Part #172641

E

Decal/Label	Location	Description
A	Motor - Side	Warning - Dust Control
B	Switch Box	Warning - Read and Follow Operating Instructions
C	Nose Weight-Top	Wear Protection Equipment
D	Switch Box	QR Codes for Manuals and Safety
E	Motor - Back	Warning - Silica Prop 65

BLADE CHANGING / INSTALLATION

CAUTION Blades are sharp. Handle with care. Failure to do so could cause bodily injury.

- Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.
- Proper blade size and placement per job type greatly affects performance.
- Disconnect electrical power first.
- Always wear gloves when changing blades to protect fingers and hands.



(A)

Lay the scraper back on to the handlebars, raising the blade holder.



(B)

Loosen the two blade cover bolts.



(C)

Insert blade and tighten bolts.

1. Raise the blade holder as shown in Figure A.
2. Loosen the two blade cover bolts as shown in Figure B. It is not necessary to remove the bolts.
3. Place the blade into the cutting head, sliding the blade all the way back to the bolts as shown in Figure C. If the blade is wider than the cutting head, center the blade to the head. If the blade is smaller than the cutting head, for the first pass the blade should be mounted in center of the cutting head. After the first pass is made, blade can be offset in head to allow easy access to the wall.
4. Securely tighten blade cover bolts.

**WARNING**

Do not operate machine around excessive moisture areas, such as abatement work and flooded pool areas without GFCI wall plug. Failure to do so could cause damage in machine or injury to operator.

Before using the machine, check for any broken, worn or damage parts and replace them immediately.

WHEEL ADJUSTMENT & WEIGHT INSTALLATION

Adjusting the wheel angle will change the blade angle to the floor. Adjustments may be required for your particular application. Experiment with the angle to see what works the best.

NOTE: Adjustment by trial at the beginning of a job will allow optimum performance. See Blade Usage page 15.



(A)

A steep wheel angle is recommended on hard removals such as vinyl, VCT and carpet over concrete or wood.



(B)

A low wheel angle is recommended for hardwood removal over all floors.



(C)

Rotate the angle adjustment wheel to the desired blade angle.



(D)

Place scraper in upright position and install weight by removing bolt.



(D)

Place weight in holder. Replace bolt and tighten.

HANDLE ADJUSTMENT

After the proper wheel adjustment is achieved, adjust the handle length.

Simply loosen the thumbscrews located on the frame and the handle will slide up and down. Locate the most comfortable height and tighten the thumbscrews to lock the handle in place.



(A)

The handle should be adjusted to the "belt-line" of the operator or to an otherwise comfortable position

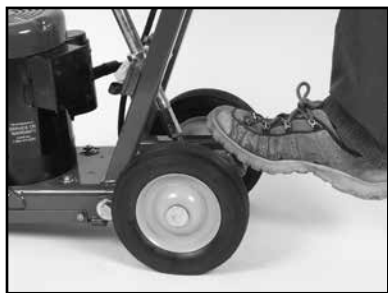
TRANSPORTATION



WARNING

- Keep hands and feet out from underneath the machine.
- Always remove the counterweight and blades before loading or unloading.

Machine breaks down for easy transportation. Handle and/or wheel angle can be lowered to reduce overall height.



(A)

A kick plate on the back of the chassis provides additional help when moving the machine. Simply step downward on the kick plate and raise the front. Adjust the angle so the weight of the head is over the wheels.



(B)

Lower handle by loosening tri-knob. Push handle down.



(C)

Turn bolt and remove nose weight if you need to lift the unit.

BLADE USAGE

1. Start with a narrow blade, then increase blade size to optimize cutting pass. Narrower blades work easier than wider blades and usually clean the floor better. Wider is not always better or faster.
2. Proper blade size and placement, depending on material and sub-floor type, greatly affects performance.
3. Keep in mind, narrow width blades will make a cleaner floor surface.
4. For wood or wood like floors, pound down or remove any nails or metal obstruction to avoid blade damage.
5. When working over plywood sub-floor, try to work in the direction of the wood grain.
6. A new sharp blade being used on wood or alike sub floors may work better when slightly dulled to avoid digging or gouging.
7. When working over concrete, beware of expansion joints and sub-floor mounted receptacles.
8. Keep your work area clean and clear of debris.
9. After you have removed a portion of material, remove it out of the way. This will give the machine maximum performance and help to keep the work area safe.
10. Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.
11. Use MK Diamond replacement blades.

REMOVAL MATERIALS



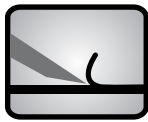
WARNING

Never remove flooring containing asbestos without fully understanding proper state and federal procedures and guidelines.

- Sheet vinyl, solid vinyl, rubber tile, urethane or PVC sheet roofing, will need to be scored for best removal results.
- **VCT TILE:** If tiles being removed still do not come up clean or machine jumps on top of tiles, reduce blade size to a smaller blade until proper blade size is found or use a smaller portion of the blade. Never use a blade wider than the size of the tile being removed.
- **PURE VINYL RUBBER TILE:** Self scoring blades can be used with some materials. A 10" blade is recommended for this product, but determine what size blade works best. Goods will need to be scored down to 10 to 12 inches for proper removal.
- **DIRECT GLUED CARPET:** Pre-scored carpet makes machine easier to control and blades stay sharper longer. Pre-score carpet to blade width prior to stripping. Normally 12" to 14" blades are used on direct glued carpet, secondary backed, unitary, double glued, vinyl foam, urethane foam.

SUBFLOOR SURFACES

- **WOOD:** When working over plywood sub-flooring, try to run machine in the same direction as the grain in the wood. Blade in most cases should be bevel down. On solid wood floors, like plank, run in the same direction as the plank, not cross grain or cross plank. Removing the front counter weight will help on all soft surfaces.
- **CONCRETE:** When working on a concrete slab, normal blade position is bevel up for best performance, especially when cleaning adhesive. On occasion, bevel down gives better blade life. Test each job for best performance.
- **GIBCRETE AND SOFT POURED FLOORING:** Usually requires blade bevel down to create a better wearing surface, although bevel up may work if front counter weight is removed.



BEVEL DOWN
WOOD FLOORS



BEVEL UP
CONCRETE FLOORS

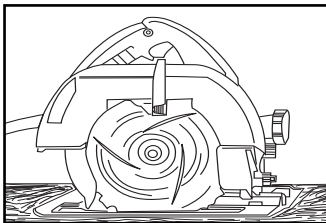
NOTE: Normally the bevel on the blade is up for concrete; bevel down for wood or soft sub-floors.



CAUTION

Beware of expansion joints and floor mounted receptacles or other obstacles in the floor.

- **GLUED HARD WOOD FLOORING:** A 10" blade is recommended for regular adhesive, a 6" - 7" blade for epoxy. For proper removal of hardwood flooring (parkay laminated, plank laminated, plank solid) flooring must be scored to blade width. A ripping guide attached to the saw can be used to eliminate chalk line marks. Open an area large enough to fit machine or start from a doorway. It is important to keep all debris cleaned up for maximum performance of machine. True Parkay flooring scoring is not necessary. It will come up in small pieces.



(A)

Scoring is done by using a circular saw set at a depth of 99% of the thickness of the board, just missing the subfloor surface when on concrete. A chalk line for scoring lines can be used across the floor the width of the blade.



WARNING

Never remove flooring containing asbestos without fully understanding proper state and federal procedures and guidelines for removal of these products. Laws are different from state to state.

THERMAL OVERLOAD PROTECTION

The Thermal Overload manual reset switch is located on the bottom of the connection box of the electrical motor. If an extreme internal temperature is sensed, the switch will “trip” and the motor will shut off automatically. If this occurs, turn the motor “ON/OFF” switch to the “OFF” position and allow the motor to cool for at least ten minutes before restarting. Push the “reset” button (using minimal force) and resume operations.



Thermal Overload Switch



NOTICE

Interruption of motor operation caused by the thermal switch indicates the existence of improper or insufficient power to your electric motor. **DOUBLE CHECK YOUR POWER SOURCE!**

MAINTAINING EQUIPMENT

Keep equipment in good repair by adopting a regular maintenance program. Before use, examine the general condition of equipment. Inspect guards, switches, tool cord set and extension cord for damage. Check for loose screws, misalignment, binding of moving parts, improper mounting, broken parts and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use. Do not use a damaged tool. Tag damaged tools “DO NOT USE” until repaired. See Repairs.

- Mechanical inspection
- Cleaning (pulleys, spindles, bearings, housing, etc.)
- Electrical inspection (switch, cord, plugs, etc.)
- Testing to assure proper mechanical and electrical operation
- Check nuts on shock absorbers and bottom plate for tightness
- Check screws on bottom bearing for tightness
- Check all screws and fittings for a tight and secure fit
- Keep a sharp blade in machine for optimum performance

CLEANING

Clean dust and debris from vents. Keep the Equipment handle clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include: gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools. Machine is pressure washable. Make sure machine is dry before operation.

REPAIRS

If your tool is damaged, contact MK Diamond for a return authorization number and return the entire tool.

- Shipments are not accepted without a return authorization number.
- COD or freight collect shipments will not be accepted.

TROUBLESHOOTING

THERE IS NO POWER

1. Inspect electrical cord.

MOTOR NOISE

1. Make sure fan guard is not bent.

RATTLING

1. Tighten loose nuts and bolts.

MACHINE IS HARD TO HANDLE

1. Remove the counterweight.
2. Change to a smaller blade.
3. Sharpen blade.

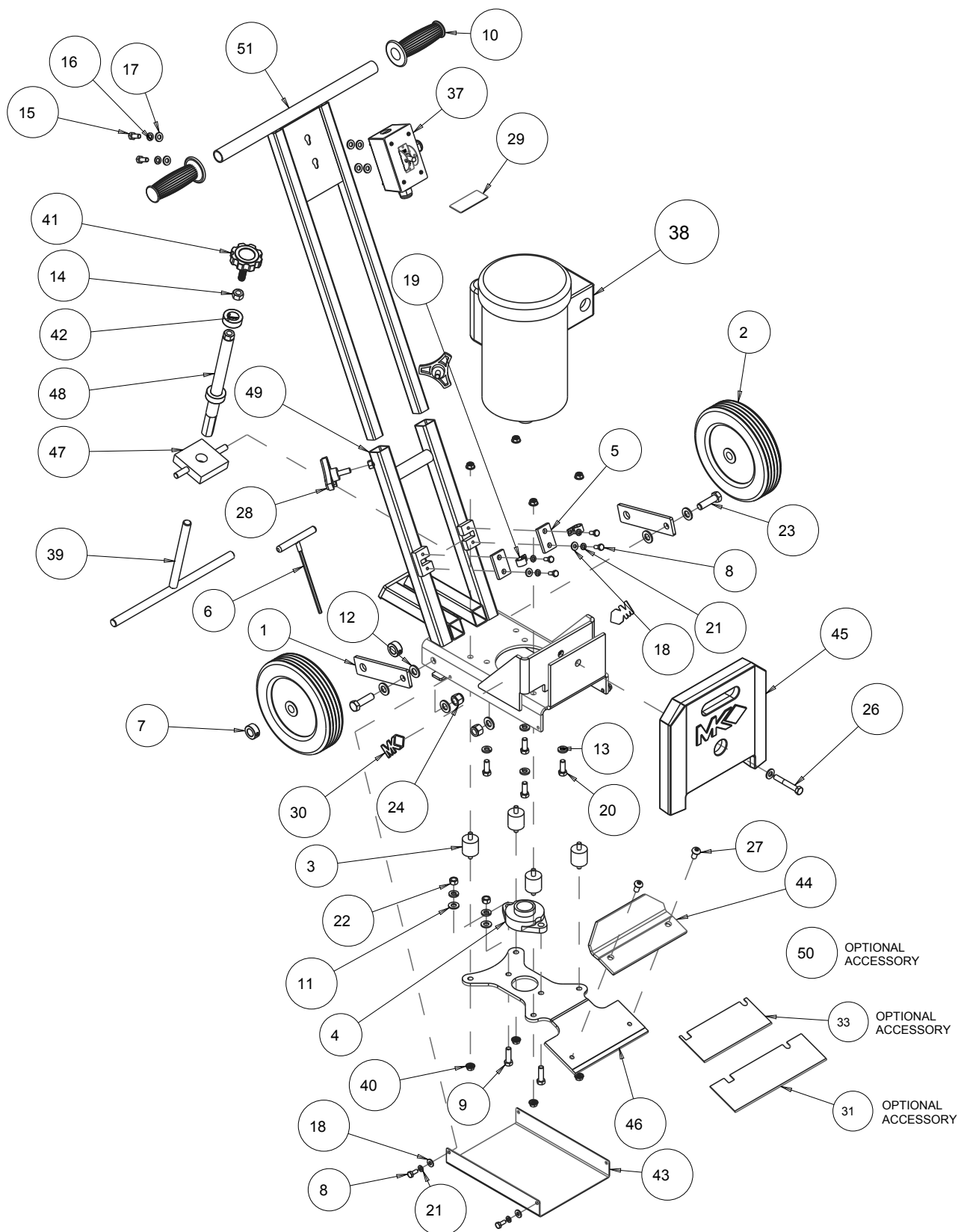
BLOWS FUSES OR CIRCUIT BREAKERS

1. Check and/or change attached power cord. Use a 12 gauge cord, 50' or less.
2. Move to a different outlet or a better circuit.

WHEEL ADJUSTMENT WON'T WORK

1. Grease threaded shaft.

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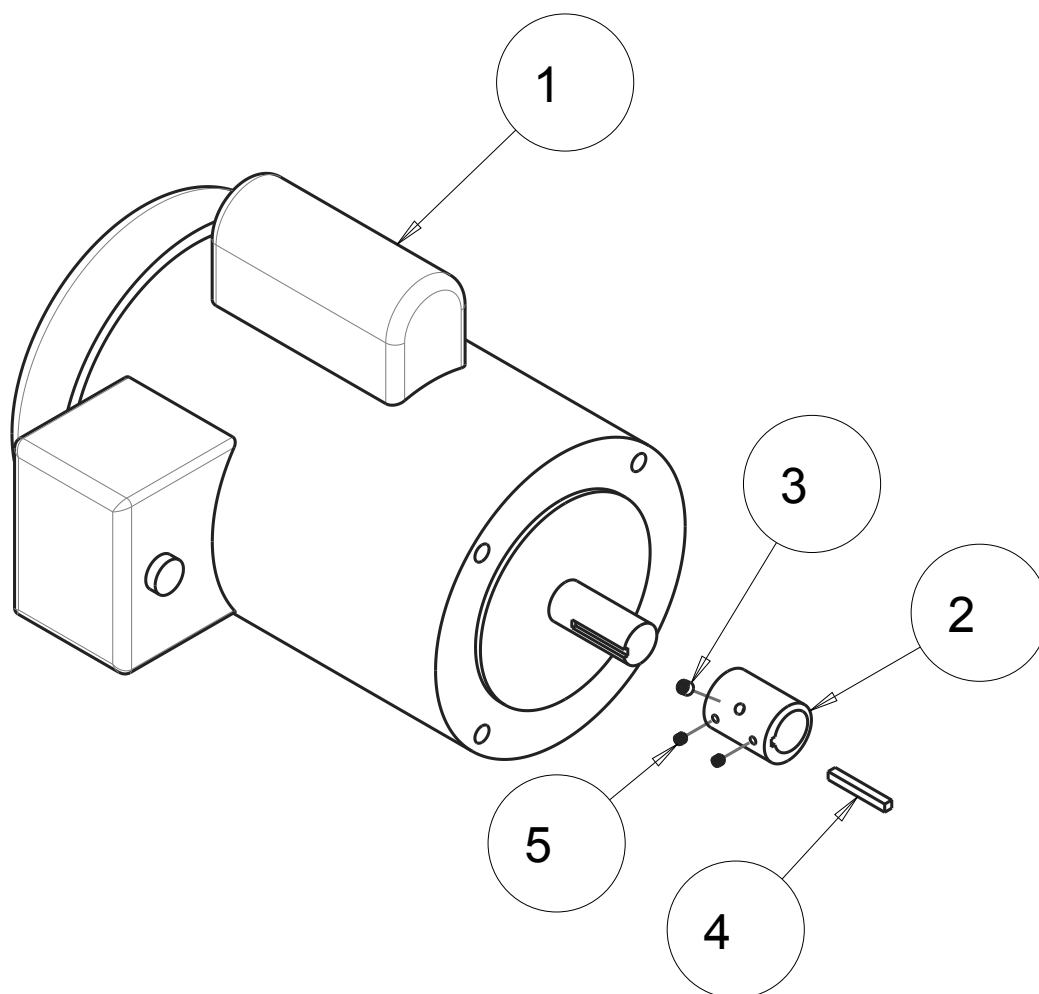
MK-VTS-50 PN 167676

ITEM NO.	DESCRIPTION	PART #	QTY.
1	PLATE, LEG	06-500-25	2
2	WHEEL, REAR 8X1.75X.625 150LB	06-500-29	2
3	SHOCK ABSORBR 60 NATURAL RUBBE	06-505-102	4
4	BEARING,FLANGE,2 BOLT,SBLF-206	06-5280-6	1
5	COVER, PIVOT BRACKET	06-550-8	2
6	BLADE WRENCH, 7/32X6 ARM	06-6280-401B	1
7	COLLAR, 1.13 ODX.625ID .5 WIDE	140012	4
8	SCREW, HEX HEAD, 1/4 -20 X 5/8	150404	8
9	SCREW, 3/8-16 X 1-1/4 HEX HEAD CAP	150774	2
10	GRIP, HANDLE, 1.0 ID	150842	2
11	WASHER, FLAT, SAE, 3/8	150923	3
12	WASHER, 1/2 SAE FLAT	150924	6
13	WASHER, LOCK, SPLIT, 3/8	150925	6
14	NUT, HEX, 1/2-13	151282	1
15	SCREW, HEX HD, CAP, 5/16-18 X 3/4	151369	2
16	WASHER,LOCK,SPLIT,5/16	151747	2
17	WASHER,FLAT,SAE,5/16	151754	6
18	WASHER,FLAT,SAE,1/4	151915	6
19	CLAMP, 1/2 CUSHION LOOP	152471	2
20	SCREW, HEX HD CAP, 3/8-16 X 1	152507	4
21	WASHER,LOCK,SPLIT,1/4	152591	8
22	NUT, 3/8-16 HEX CENTERLOCK	153522	2
23	SCREW, 1/2-13 X 1-3/4 HEX HEAD CAP	153853	2
24	NUT, 1/2-13 NYLOK HEX	155162	2
25	MANUAL TUBE, CLEAR	155419	1
26	SCREW, 3/8-16 X 2-1/2 HEX HEAD CAP	156030	1
27	SCREW, BTTN, ALN, 3/8-16 X 3/4	156635	2
28	KNOB, TRI PLASTIC, 1"	156770-01	2
29	TAG, SERIAL NUMBER, BLANK	157500-RW	1
30	LOGO, MK ADHESIVE	157914	2
31	BLADE, SCRAPER, 10" X 3"	167619	1
32	OWNERS MANUAL MK-VTS SCRAPER	167790	1
33	BLADE, SCRAPER, 7-3/8" X 3"	167796	1
34	ASSY, WARNING LABELS, VTS-50	167847	1
35	ASSY, CARTON VTS-50	168043	1
36	PALLET, VTS-50 SCRAPER	168044	1
37	ASSY, SWITCH BOX, VTS-50	172836-10	1
38	ASSY, MTR	172895	1
39	AXLE, T-BAR ADJ SCREW	173127	1

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ITEM NO.	DESCRIPTION	PART #	QTY.
40	NUT,HEX,SFL,5/16-18	5000810	8
41	KNOB, THRD 1/2-13X1.5	CP-10098	1
42	COLLAR, 57/64 X 1-1/2	CP-10099	1
43	COVER, BOTTOM	PA-10599	1
44	BLADE HOLDER	PA-10606	1
45	WEIGHT, FRONT	PA-10607	1
46	CUTTING HEAD	PA-10622	1
47	ASSY, PIVOT PLATE	PG-10126	1
48	WELDMENT, ADJUSTMENT SHAFT	PG-10127	1
49	CHASSIS, VTS-50	PG-10128	1
50	TOOL HOLDER WELDMENT	PG-10130	1
51	HANDLE WELDMENT	PG-10131	1

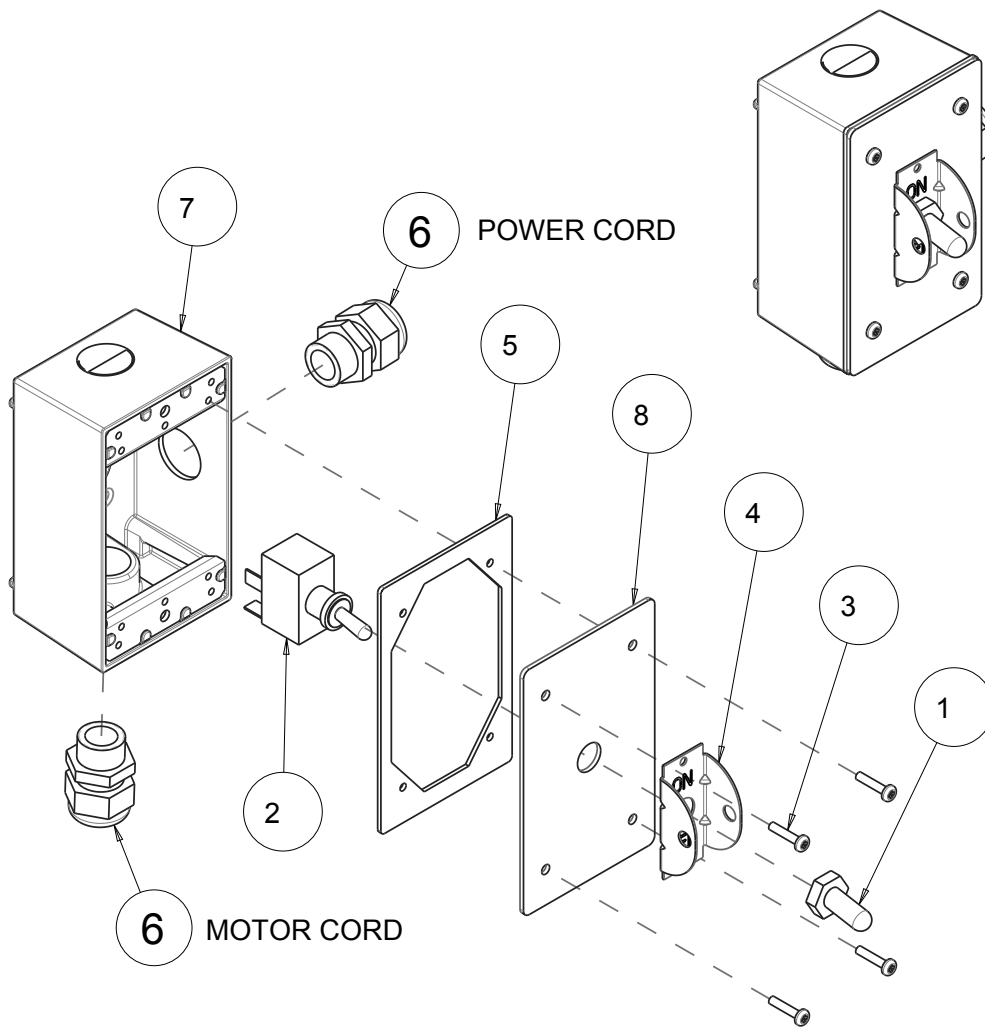
MK-VTS-50 PN 172895



ITEM NO.	DESCRIPTION	PART #	QTY.
1	MTR, 1HP, 1P, 60HZ, BS-50	06-550-10	1
2	ADAPTER, ECCENTRIC	06-550-101	1
3	SCREW,SET,1/4-20X1/4	157528	1
4	KEY, 3/16 SQR X 1-1/2	165347	1
5	SCREW,SET,#10-24X3/16	168055	2

BOM SUBSTITUTION TABLE		ITEM 1	ITEM 2
PART NO.	DESCRIPTION	MOTOR	ADAPTER
172895-AU	ASSY, MTR, AU	171256	06-550-101
172895-WEG	ASSY, MTR WEG	06-550-10-MWEG	06-550-101-58

MK-VTS-50 PN 172836-10



ITEM NO.	DESCRIPTION	PART #	QTY.
1	COVER, SWITCH	154301	1
2	SWITCH, TOGGLE 125V 20A	154310	1
3	SCREW, PAN HD, PHIL 6-32 X 5/8	157393	4
4	PLATE, TOGGLE SWITCH LOCKOUT	158211	1
5	GASKET, COVER, 30 AMP SWITCH	159491	1
6	CORDSET, P&M, 14/3, 5-15P, VTS	170640	1
7	BOX, SWITCH, COMP VTS-50	172835-5	1
8	COVER, SWITCH	172838	1

ACCESSORIES

ITEM	NUMBER	DESCRIPTION	
1	167619	Vinyl Scraper blade 7-3/8" x 3"	
2	167796	Vinyl Scraper blade 10" x 3"	
3	PG-10130	Tool Holder	

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

- Dry the Floor Scraper before shipping
- When packing, include the following: MK-VTS/50 Floor Scraper, nose weight and handle.
- 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.

NOTES

NOTES

MK-VTS/50 FLOOR SCRAPER
OWNER'S MANUAL
& PARTS LIST



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