

# CC-100 CRACK CHASER SAW OWNER'S MANUAL & PARTS LIST

MODELS	PART #
CC-100	171320-9H
CC-100	171320-13H



Revision 104	07.2019
Manual Part# 172021	

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

## INTRODUCTION

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

Operated correctly, your Crack Chaser Saw should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your Crack Chaser Saw safely and correctly. Please take the time to familiarize yourself with the Crack Chaser Saw by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

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

Regards,

MK Diamond

### NOTE THIS INFORMATION FOR FUTURE USE:

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

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

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

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

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

Observe OSHA regulations for respirator use (29 C.F.R. §1910.134).

Visit <http://www.osha.gov> for more information.

## **CALIFORNIA PROPOSITION 65 MESSAGE**

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

- Lead, from lead-based paints
- Crystalline silica, from bricks 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.



## GAS ENGINE SAFETY

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Gasoline models are shipped from the factory dry, meaning without fuel or oil. Both must be added before equipment can be used. Check the engine Manufacturer Owner's Manual for instructions on fueling, break-in, servicing and proper engine care and use.

## GAS SAFETY PRECAUTIONS

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### EXPLOSIVE FUEL!

Gasoline is extremely flammable, its vapors can explode if ignited; store only in approved containers, in well-ventilated, unoccupied buildings and away from sparks or flames. **DO NOT** fill the fuel tank while the engine is running or hot. Spilled fuel could ignite if it contacts hot parts or sparks from ignition. **DO NOT** overfill tank. **DO NOT** start the engine near spilled fuel. Never use gasoline as a cleaning agent.



Refer to engine manufacturer manual for specific operating procedures and safety warnings. **ALWAYS** check the fuel lines and fuel tanks for leaks and cracks before starting the engine. **DO NOT** run the machine if fuel leaks are present or the fuel lines are loose.



Accidental start hazard. Disconnect spark plug prior to servicing.



### LETHAL EXHAUST GASES!

Engine exhaust gasses contain poisonous carbon monoxide (an odorless, colorless gas). Avoid inhaling exhaust fumes Breathing it can cause unconsciousness and even kill you. Always operate gasoline engine machines in a well-ventilated area. **DO NOT** operate in areas where exhaust fumes could accumulate without wearing appropriate respiratory protection. Never run the engine in a closed building or confined area.

**NOTE:** Prior to operation of this machine the operator must determine the existence and location of any subsurface features that may be hazardous or could damage the equipment, (i.e. electric cable, natural gas line etc.).

## FUELING SAFETY

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**ALWAYS** use caution when handling fuel. Shut off the engine and allow to cool before refueling.



**ALWAYS** refill fuel tank in a well-ventilated area.



**ALWAYS** replace the fuel tank cap after refueling.



**ALWAYS** close fuel value on engines when machine is not being operated.

Move the machine at least 10 feet (3 meters) from the fueling point before starting the engine, and make sure the gas cap is on the machine and the fuel can is properly tightened.

Before starting the machine, **ALWAYS** check that all guards are in position and correctly fitted. Check the machine for loose bolts before starting.

Keep area around the machine clear of obstructions which could cause persons to fall onto moving parts. **ALWAYS** ensure that the machine is on level ground before using. Know how to stop the machine quickly in case of emergency. **NEVER** try to stop a moving blade with your hands.

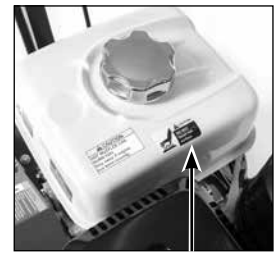
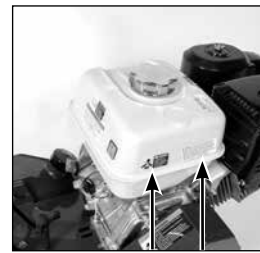
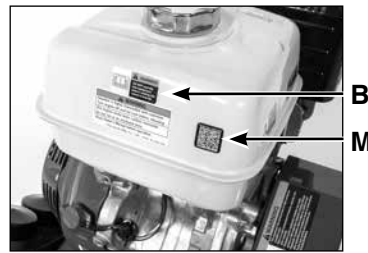
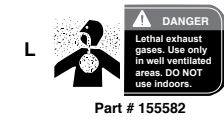
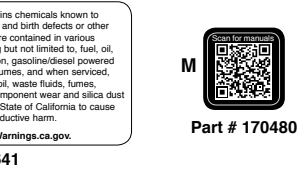
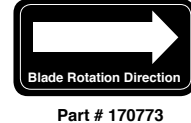
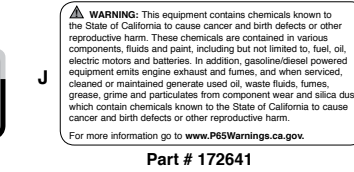
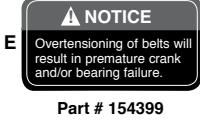
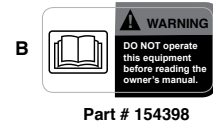
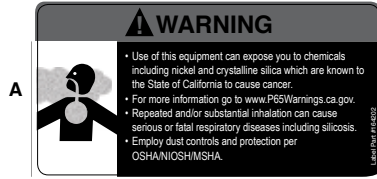
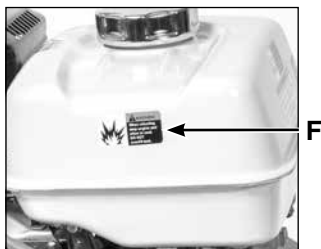
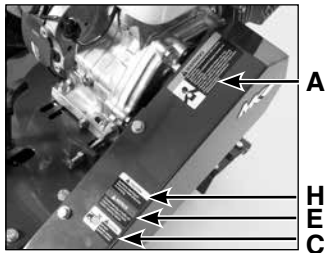
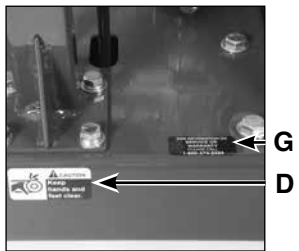
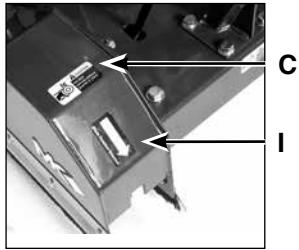
- **NEVER** disconnect any “emergency or safety devices”. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death! Disconnection of any of these devices will void all warranties.
- Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.
- **NEVER** use accessories or attachments, which are not recommended by MK Diamond for this equipment. Damage to the equipment and/or injury to user may result.

**WARNING**

**DO NOT** use woodcutting, or carbide blades on this machine! Use **ONLY** Diamond blades on machine.

**OPERATION & SAFETY DECALS**

The CC-100 Concrete Saw is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. Should any of these operation or safety decals become unreadable, replacements can be obtained by calling (800) 262-1575.



Location	Description
A	Blade Guard Proposition 65, Dust Warning
B	Gas Tank/Side Read Manual
C	Blade/Belt Guard Guards in Place
D	Frame/Front Hand & Feet Clear
E	Belt Guard Overtensioning Belts
F	Gas Tank /Side Refueling
G	Frame Service / Warranty
H	Belt Guard Accidental Start
I	Blade Guard Blade Rotation
J	Gas Tank/Side Prop 65
K	Gas Tank/Top Hot Surface
L	Gas Tank/Side Lethal Exhaust
M	Gas Tank/Side QR Code for Manuals

**PRODUCT SPECIFICATIONS**

The CC-100 is a versatile gas powered Crack Chaser Saw. Operated and used according to this manual, the CC-100 will provide years of dependable service.

**General Description**

The CC-100 is engineered as a portable concrete saw powered by a Honda gas engine. The saw is capable of 1-1/8" depth of cut with an 8" blade.

**Motor and Weight Specifications**

Motor and Weight specifications for the CC-100 are listed below.

Motor	Honda GX270	Honda GX390
Horse Power	8.5 HP	11.7 HP
Max Cutting Depth	1-1/8"	1-1/8"
Blade Diameter	8"	8"
Blade Width	.250" - .500"	.250" - .500"
Blade Arbor	1" with Drive Pin Hole	1" with Drive Pin Hole
Weight	126 lbs.	140 lbs.
Part#	171320-9H	171320-13H

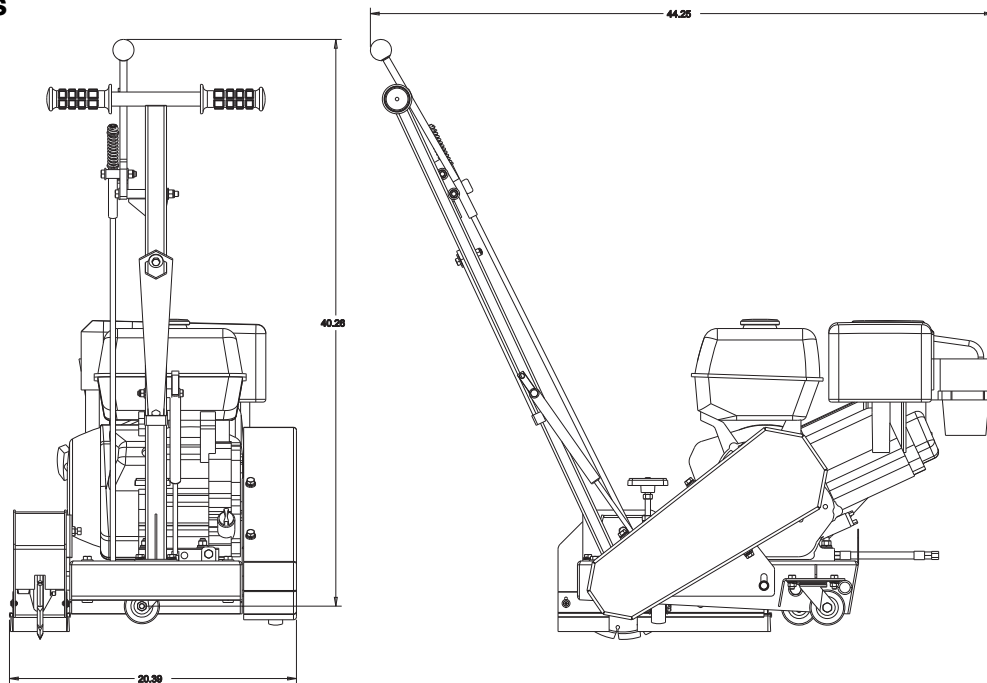
**Blade**

The CC-100 uses an 8 inch diameter diamond blade.

**Concrete Saw Usage**

The CC-100 is designed to cut or widen cracks in asphalt or concrete surfaces for repair.

**CC-100 Dimensions**



**UNPACKING**

Your saw has been shipped from the factory thoroughly inspected. Only minimal assembly and service is required. Check each, item, making certain all items are accounted for and in good visual condition before discarding any packing materials. If there are any missing or damaged parts call MK Diamond Customer Service at 800-421-5830.



**WARNING** Never start engine until all initial servicing and set up steps are completed according to this operations manual and engine manual. Read and familiarize yourself with all controls and features of the saw before beginning operations.

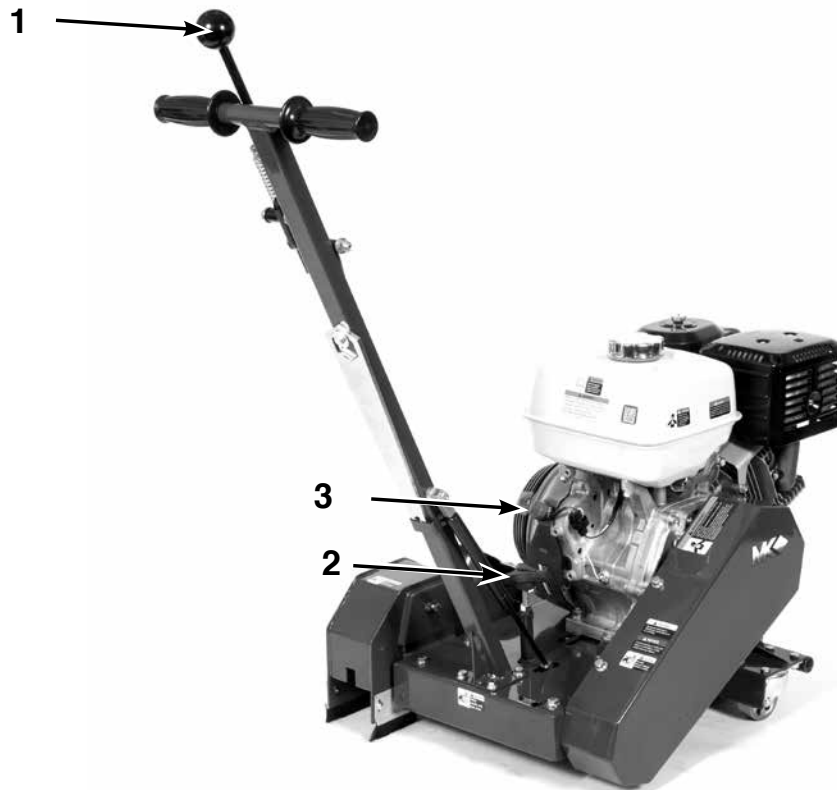
**CONTENTS**

In the containers, you will find one (1) Crack Chaser Saw, one (1) Crack Chaser Saw Owner’s Manual, one (1) Engine Owners Manual and one (1) Warranty Card.

<p>Crack Chaser Saw</p>	<p>Crack Chaser Saw Owner’s Manual</p>	<p>Engine Manual</p>	<p>Warranty Card</p>

**TRANSPORT**

- CAUTION**
1. The Crack Chaser Saw weighs approximately one hundred and forty (140 pounds), use care when transporting.
  2. Two people are required to lift and transport the Crack Chaser Saw.



1. The raise lower handle raises the blade.
2. Depth control knob must be adjusted for desired depth of cut.
3. Kill switch.

## Filling Oil Reservoir

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**NOTE:** The engine is shipped with no oil in the crankcase. Refer to the engine manual for details on the type and amount of oil required.

To fill the crankcase with oil, place the engine level. In order for this to be accomplished the blade must not be installed, and the depth adjustment must be down (until the engine is level).

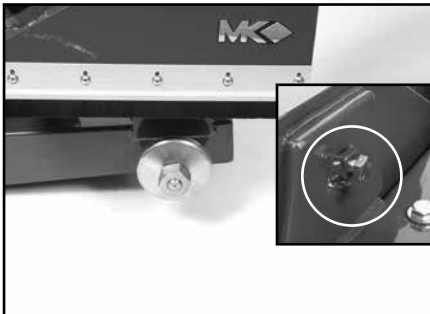


(A)

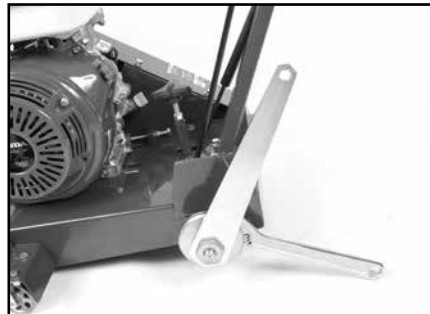
Verify the Oil Drain Cap is installed onto the Oil Drain Line and is tight. Refer to Engine Manual for details.

**Diamond Blade Installation**

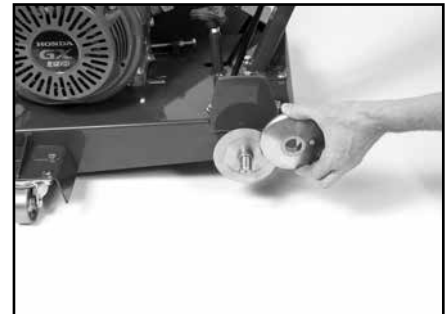
- NOTE:**
1. When installing the blade retaining-bolt, ensure the threads of the bolt are aligned with the threads of the drive shaft so as not to “cross-thread” the bolt.
  2. When installing the blade ensure that the blade shaft and flanges are free from dirt and all foreign material before mounting blade on the blade shaft. Tightening a blade against an uneven surface can cause fracture or cause the blade to run out of alignment.
  3. Blade shaft threads are left-handed.



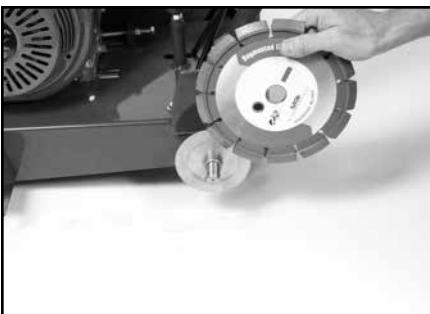
(A)  
Loosen the Blade Guard Nut. (Remove the Blade Guard Cover).



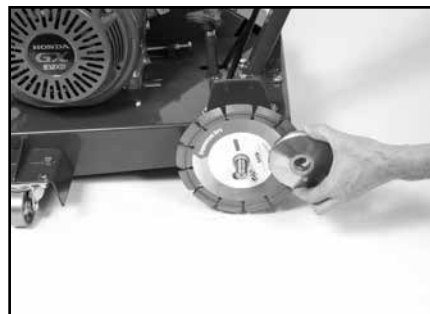
(B)  
Loosen the Blade Shaft Nut while holding the Shaft Wrench steady.



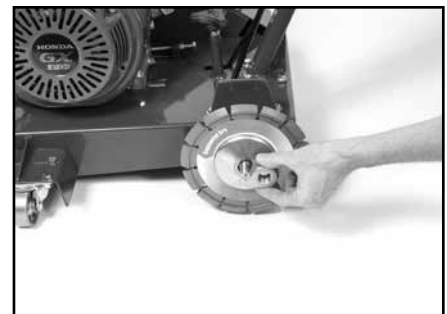
(C)  
Remove the Blade Nut and Outer Flange.



(D)  
Install the Diamond Blade onto the Blade Shaft. Ensure directional arrow on the blade indicates proper rotational direction.



(E)  
Install the Outer Flange. Verify the drive pin is seated; it must project through the hole in the blade and into the flange.

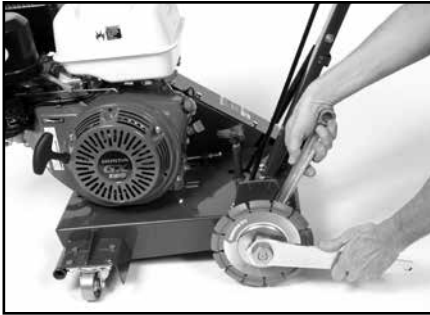


(F)  
Install the Blade Shaft Nut.

**CAUTION**

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





(G)

Tighten Blade Shaft Nut holding the Blade Shaft steady. Replace the Blade Guard and tighten Blade Guard Nut.

**NOTE** The blade turns clockwise when facing the blade shaft. Ensure directional arrow on the blade indicates proper rotational direction. Incorrect rotation will reduce blade life.

**Filling Fuel Tank**



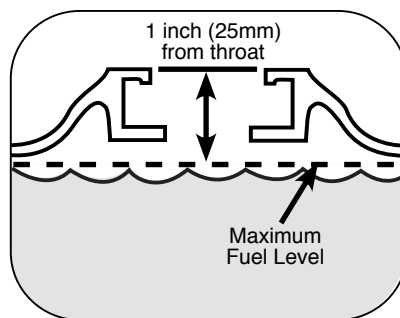
- WARNING**
1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
  2. To fuel, stop engine if running, and allow it to cool.
  3. Refuel in a well-ventilated area.
  4. Keep gasoline away from appliance pilot lights, barbeques, electric appliances, power tools, etc.
  5. Wipe up spills immediately. Do not start engine until spill is dry.

- NOTE:**
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
  2. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.



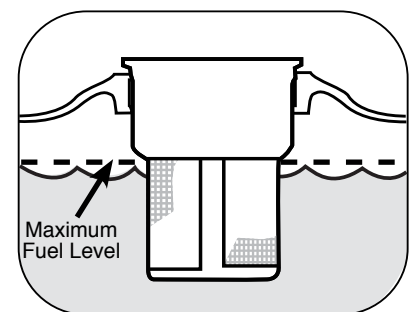
(A)

Remove the Fuel Cap. Refer to Engine Manual for details.



(B)

Ensure fuel level is 1" below the throat of the Fuel Tank.

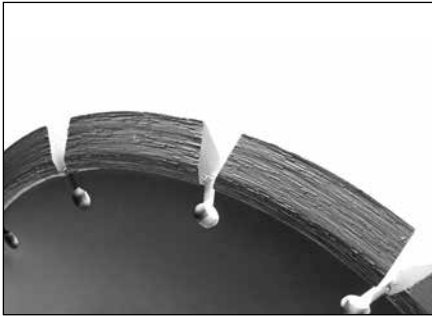


(C)

Ensure fuel level is below the top of the strainer filter.

**Pre-Start Inspection**

The pre-start inspection should be performed before beginning any job. If Diamond Blade is worn, replace the blade before starting work.



(A)

Inspect Blade for damage or cracks. Verify the Blade is a dry cutting blade and correct for the material being cut.



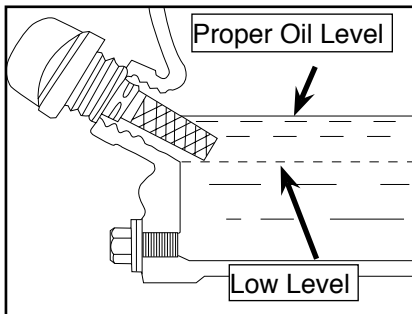
(B)

Inspect Engine for leaks.



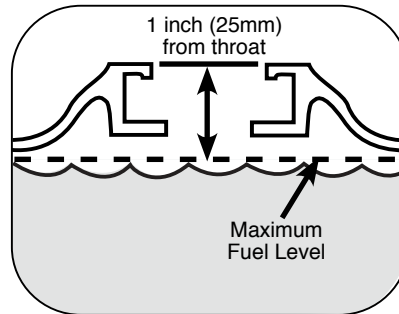
(C)

Inspect the saw for general damage and/or loose hardware.



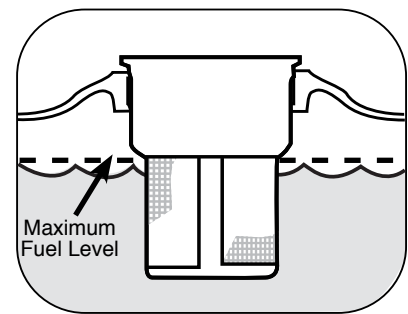
(D)

Check for proper oil level. Refer to Engine Manual for details.



(E)

Ensure fuel level is 1" below the throat of the Fuel Tank.



(F)

Ensure fuel level is below the top of the strainer filter.



(G)

Check the Air Filter for cleanliness. Refer to Engine Manual for details.

## Engine Start



### WARNING

1. Carbon monoxide gas is toxic, breathing it can cause unconsciousness and/or death.
2. Avoid any areas or actions that expose you to carbon monoxide.

## Adjusting Depth of Cut

The common depth of cut for crack chasing repair is ½”.



(A)

Raise the raise/lower handle.



(B)

If the blade is resting on the ground note the distance between the front caster wheel and the ground. This indicates the current depth of cut.

OR



(C)

If the blade is raised above the ground, adjust the Depth Control Knob until the caster is approximately ½” above the ground. Tighten the lock nut on the Depth Control Knob.

### NOTICE

As the blade wears adjustments will be required.

## Dust Collection Systems

The CC-100 has two 2” ports for connection with a dust collection system. The vacuum system required must have a CFM of 129 and a HEPA filter guaranteed 99.99% efficient at .3 micron.



### WARNING

Dry cutting has the potential to expose you to high levels of crystalline silica. Repeated and/or substantial inhalation can cause serious or fatal respiratory diseases including silicosis. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Employ dust controls and protection per OSHA/NIOSH/MSHA.

## Standard Operation

The Crack Chaser Saw is intended for industrial applications and operated by experienced professionals. The operator must be aware of the machine's capabilities and limitations. 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...



### CAUTION

Prior to operation of this machine the operator must determine the existence and location of any subsurface features that may be hazardous or could damage the equipment, (i.e. electric cable, natural gas line etc...)

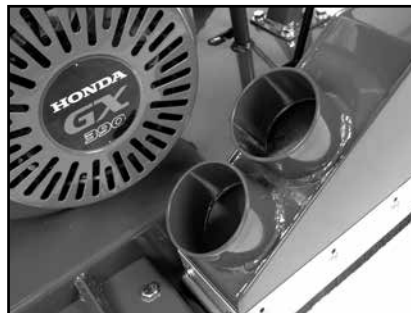
### NOTICE

The CC-100 operates on a down cut principle and you pull the saw toward you as gently guiding the blade to follow the crack. The saw has three swiveling casters allowing easy movement to follow random cracks.



(A)

Use the Raise/Lower Handle to raise the blade clear of the floor.



(B)

Attach the dust collection system to the vacuum ports.



(C)

Start the Saw using the Engine Start procedure in the engine manual.

### NOTE:

1. Ensure the blade you are using is clearly marked for dry cutting.
2. Check the condition of the air filter at least every four hours of operation.  
Refer to Engine Manual for details.

Airflow helps to cool the blade during dry cutting. Cutting too deep with one pass, or exerting excessive forward or side pressure can be dangerous and cause damage.

### NOTE:

Perform the cut using only enough pressure to follow the crack. The saw has a natural tendency to follow the crack. Steer the saw smoothly and slowly. Sudden and severe corrections can cause the blade to be damaged or broken. Do not cut more than 3/4" deep per pass as blade will overheat. Run the engine at full throttle so the blade is turn at maximum RPM to keep blade cool.



(J)

Align the Blade with the crack and slowly lower blade into crack. Cut with engine at full throttle.

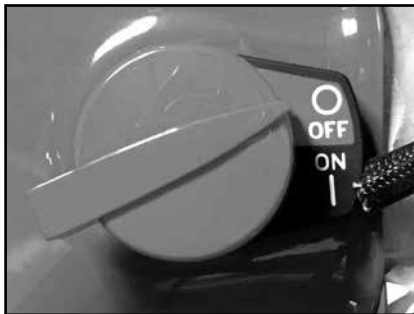


(K)

When the cut is complete, raise the Blade completely out of the cut by lifting the Raise/Lower handle. Turn off saw.

### Emergency Engine Shutdown

---



(A)

Place Engine Master Switch in the OFF position.

## Cleanup



### CAUTION

Engine parts are extremely hot following use, allow engine to cool 1/2-hour before cleaning. Use care during cleanup to avoid injury.

### NOTE:

1. To extend operating life, the Concrete Saw should be cleaned following every use.
2. Using a garden hose or pressure washer is not advised as it can force water into the air cleaner or muffler opening.
3. Use care when cleaning around electrical components.



(A)

Verify the engine is off and cool before beginning to clean. Clean the saw with soap and water.

## MAINTENANCE SAFETY

- Always turn the master engine switch to the off position.
- **NEVER** lubricate components or attempt service on a running machine.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts, or missing decals.

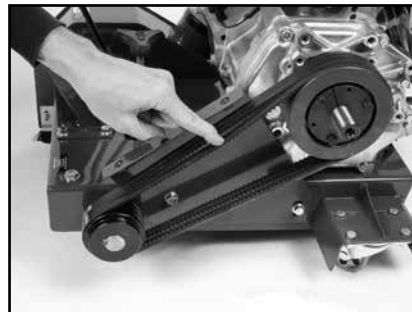
## New Maintenance

Perform the following after initial purchase and operation of the saw.



(A)

Change engine oil after first month or first 20 operating hours (See Engine Manual).



(B)

Check and adjust tension on belts following first 48 hours of operation (See Belt section).

**Maintenance Following Use**

---

The following maintenance should be performed following each use.



(A)

Shut down the Engine. Let saw cool before proceeding. Check Air Filter (See Engine Manual).



(B)

Verify the tightness of all bolts and screws. Clean the saw (except the engine) with soap and water.

**Weekly (50 hours) and Monthly (200 hours)**

---

The following should be performed monthly. Items should be lubricated using waterproof grease.



(A)

Change engine oil every 100 hours. Refer to Engine Manual for details.



(C)

Lubricate the Blade Shaft Bearings (Monthly).



(D)

Clean engine Air Filter weekly and replace monthly. Refer to Engine Manual for details.



(E)

Clean Spark Plug Weekly and re-adjust Spark Plug monthly. Refer to Engine Manual for details.



(F)

Clean and lubricate the Blade Shaft.

**NOTE:** Definitive information on engine maintenance is contained in the engine manual provided separately. Perform all maintenance procedures as recommended by the engine manual.

**500 Hours and 1000 Hour Maintenance**

Perform the following maintenance every 500 hours.



(A)

Replace Spark Plug. Refer to Engine Manual for details.



(B)

Have Authorized Repair Shop perform 500-hour maintenance.



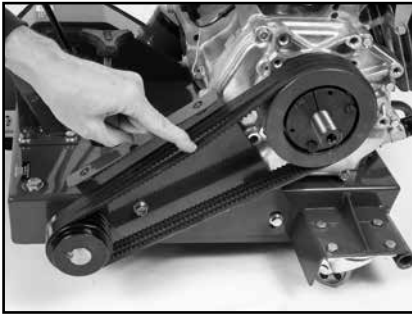
(C)

Have Authorized Repair Shop perform 1000-hour maintenance.



## Yearly and Two-Year Maintenance

Perform the following maintenance every year.



(A)

Inspect belts for proper tension and wear.

## Check Fuel Level

For all Engine related maintenance and troubleshooting refer to the Engine Manual.



### WARNING

1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
2. To fuel, stop engine if running and allow it to cool.
3. Refuel in a well-ventilated area.
4. Keep gasoline away from appliance pilot lights, barbeques, electric appliances, power tools, etc.
5. Wipe up spills immediately.

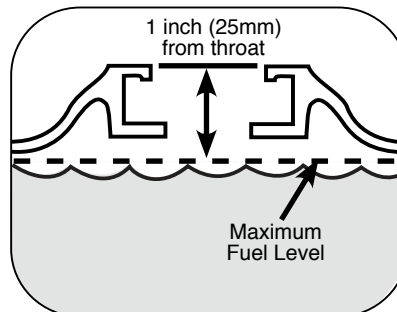
### NOTE:

1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
2. DO NOT use stale or contaminated gasoline or an oil/gasoline mixture.



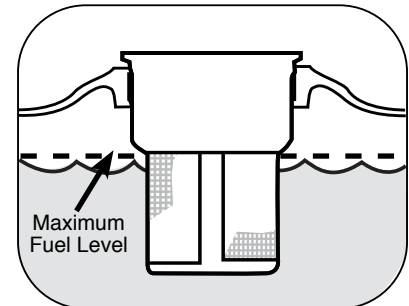
(A)

Remove the Fuel Cap. Refer to Engine Manual for details.



(B)

Ensure fuel level is 1" below the throat of the Fuel Tank.



(C)

Ensure fuel level is below the top of the strainer filter.

## Checking Oil Level



(A)

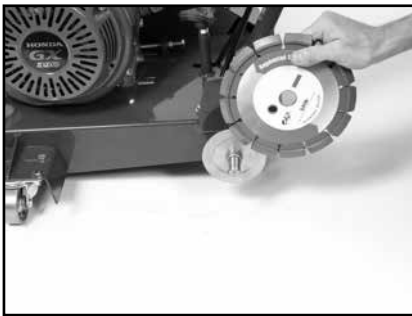
Verify the Engine is upright and level. Refer to Engine Manual for details.

**NOTE:**

When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to “cross-thread.”

## Engine Maintenance

Engine maintenance and adjustment is necessary to keep the saw in good operation condition. Maintenance operations include oil changes, filter changes, air cleaner, spark plug, fuel filter etc...Perform all maintenance procedures as recommended by the Honda engine manual provided separately.



(A)

Remove the Diamond Blade. See Blade removal section.



(B)

Lower the Crack Chaser Saw to its lowest position.



(C)

Free the Oil Drain Line. Place a catch basin below the Oil Drain Line. Remove the Drain Cap to drain oil completely. Refer to Engine Manual for details.

## Engine Air Filter Inspection Cleaning and Replacement



(A)

Clean the Air Filter. Refer to Engine Manual for details.

**Spark Plug Adjustments and Replacement**

For all Engine related maintenance and troubleshooting refer to the Engine Manual.

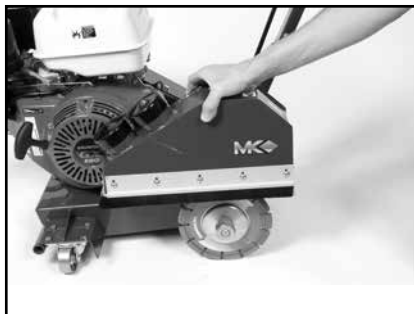
**! CAUTION** DO NOT work around the engine while hot.



(A)

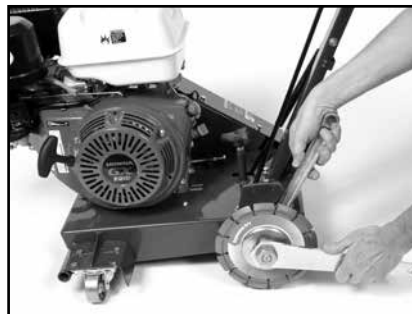
When installing the Spark Plug, ensure the threads are aligned with the threads in the engine so as not to “cross-thread” the plug.

**Diamond Blade Removal**



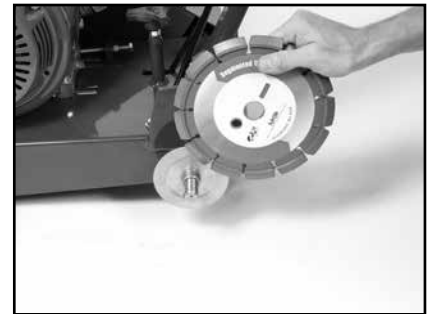
(A)

Remove the Blade Guard Cover.



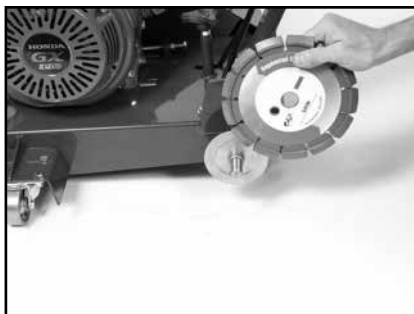
(B)

Remove the Blade Shaft Nut and the Outer Flange.



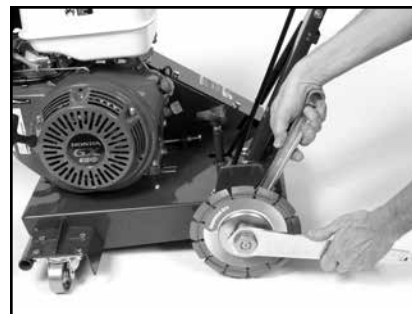
(C)

Remove blade.



(D)

Install the new Blade, Retaining Bolt and Outer Flange.



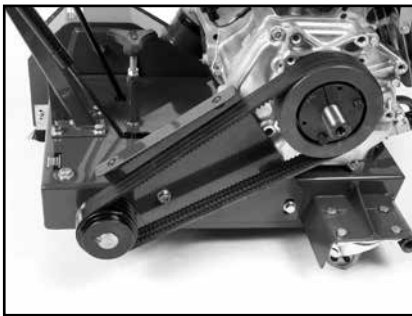
(E)

Tighten Blade Retaining Bolt while holding the Blade Shaft steady.  
Reinstall Blade Guard.

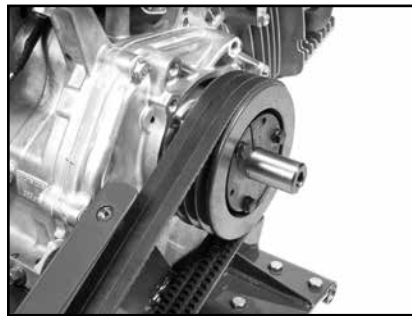
**Belt Adjustment and Replacement**

In order to ensure the saw operates at peak efficiency, the power transmission belt should be inspected monthly and changed if any signs of damage and/or excessive wear is observed.

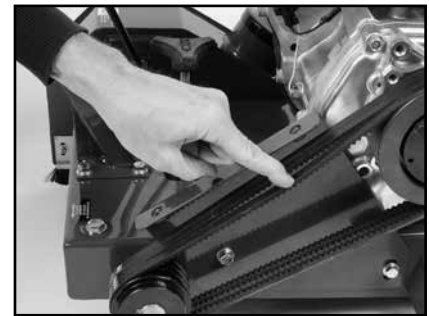
- NOTE:**
1. When a new belt is installed, it should be inspected and retensioned after the first forty-eight (48) hours of operation.
  2. Do not over tension belts as damage to belts and bearings may occur. Belts that are too loose may slip, resulting in short life of loss of power to the blade shaft. If any belts are worn or damaged, replace complete set.



(A)  
Remove the Belt Guard.



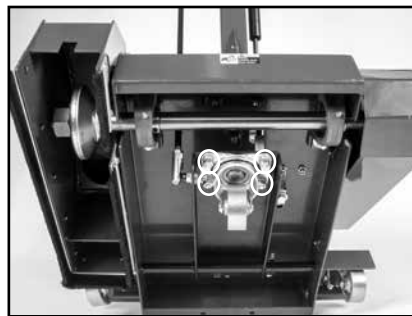
(B)  
Inspect the belt for excessive wear, cracks and cuts – if worn, proceed to Step E.



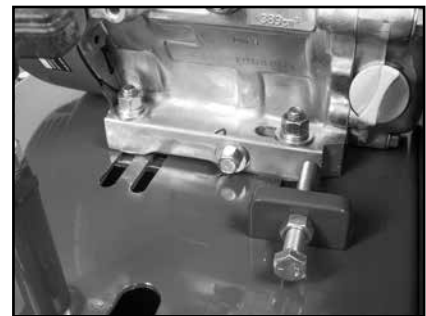
(C)  
Check belt for proper tension if tension is correct, go to Step P (Proper tension is approximately 1/8-inch deflection of the belt).



(D)  
Locate the four upper Engine Mounting Nuts on both ends of the motor and loosen.



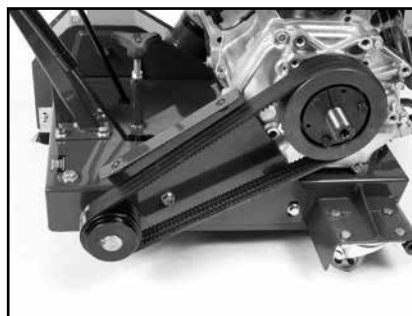
(E)  
Locate the four lower Engine Mounting Bolts on both ends of the motor and loosen.



(F)  
Loosen Jam Nut on Engine Tension Arm. Loosen the Engine Tension Arm adjusting nut. Push the Engine forward to loosen the belt.

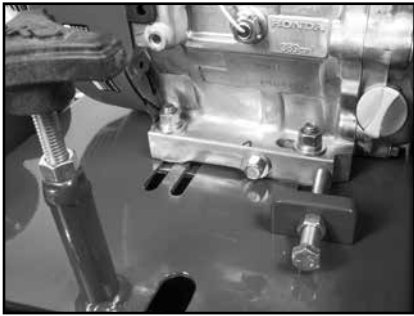


(G)  
Remove the old belts from the Engine and Blade Shaft Pulleys.

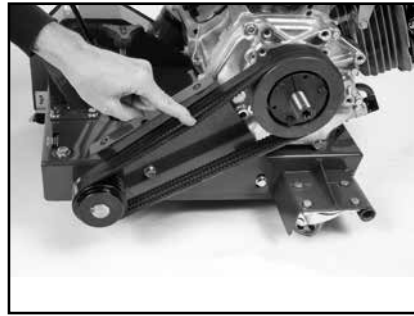


(H)  
Clean and verify the alignment of the Engine and Blade Shaft Pulleys. Install new belts onto the Engine Blade Shaft Pulleys.

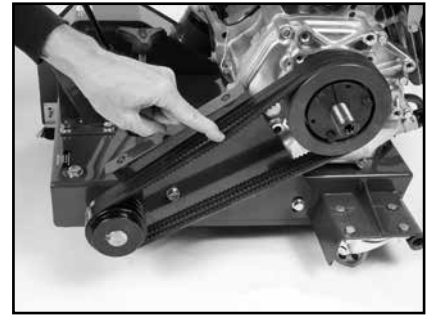
**NOTE:** Verify the belts are seated in all grooves of the Engine and Blade Shaft Pulleys.



(I)  
Tighten the Engine Tension Arm Nuts.



(J)  
Check belt for proper tension (Proper tension is approximately 1/8-inch deflection of the belt).



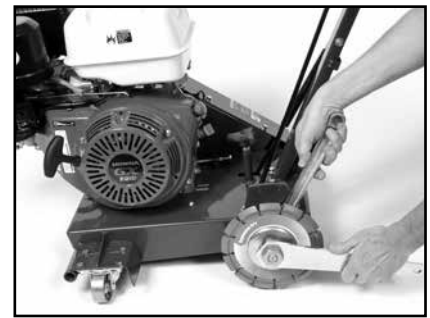
(K)  
Repeat Steps L and M until proper tension is achieved.



(L)  
Tighten the Engine Mounting Bolts.



(M)  
Install the Belt Guard and Belt Guard Retaining Bolts.



(N)  
Install the Blade and Blade Guard (See Blade Installation section).

**TROUBLESHOOTING**

When trouble occurs, be sure to check the simple causes which, at first, may seem too obvious to be considered. Refer to the table below for problems and their possible causes.

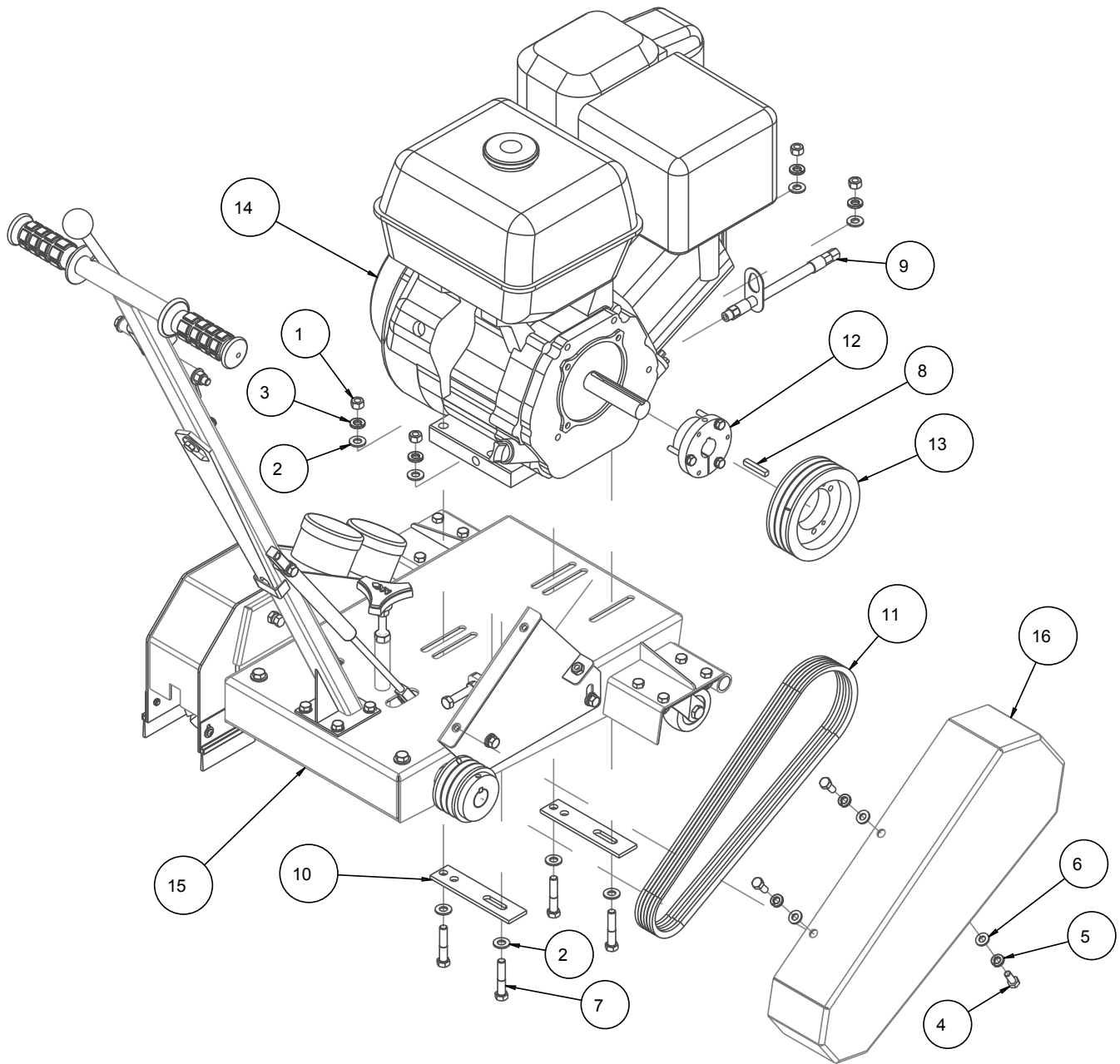
<b>ENGINE</b>	<b>Cause</b>	<b>No Fuel</b>	<b>Improper Fuel</b>	<b>Dirt in Fuel Line</b>	<b>Incorrect Oil Level</b>	<b>Dirty Air Filter</b>	<b>Faulty Spark Plugs</b>
	<b>Problem</b>						
	Will not start	X		X	X	X	X
	Hard starting	X	X	X		X	X
	Stops suddenly	X		X	X	X	
	Lacks power		X	X	X	X	X
	Operates erratically		X	X		X	X
	Knocks or pings		X				X
	Skips or misfires			X		X	X
	Back fires			X		X	X
	Overheats			X		X	
	High Fuel Consumption					X	X

<b>OTHER</b>	<b>Cause</b>	<b>Improper Blade for the Application</b>	<b>Improper Belt Tension</b>	<b>Damage Caused by External Objects</b>
	<b>Problem</b>			
	Reduced blade life	X	X	
	Excessive belt wear		X	X



MK CC-100-13H, 13HP HONDA P/N 171320-13H

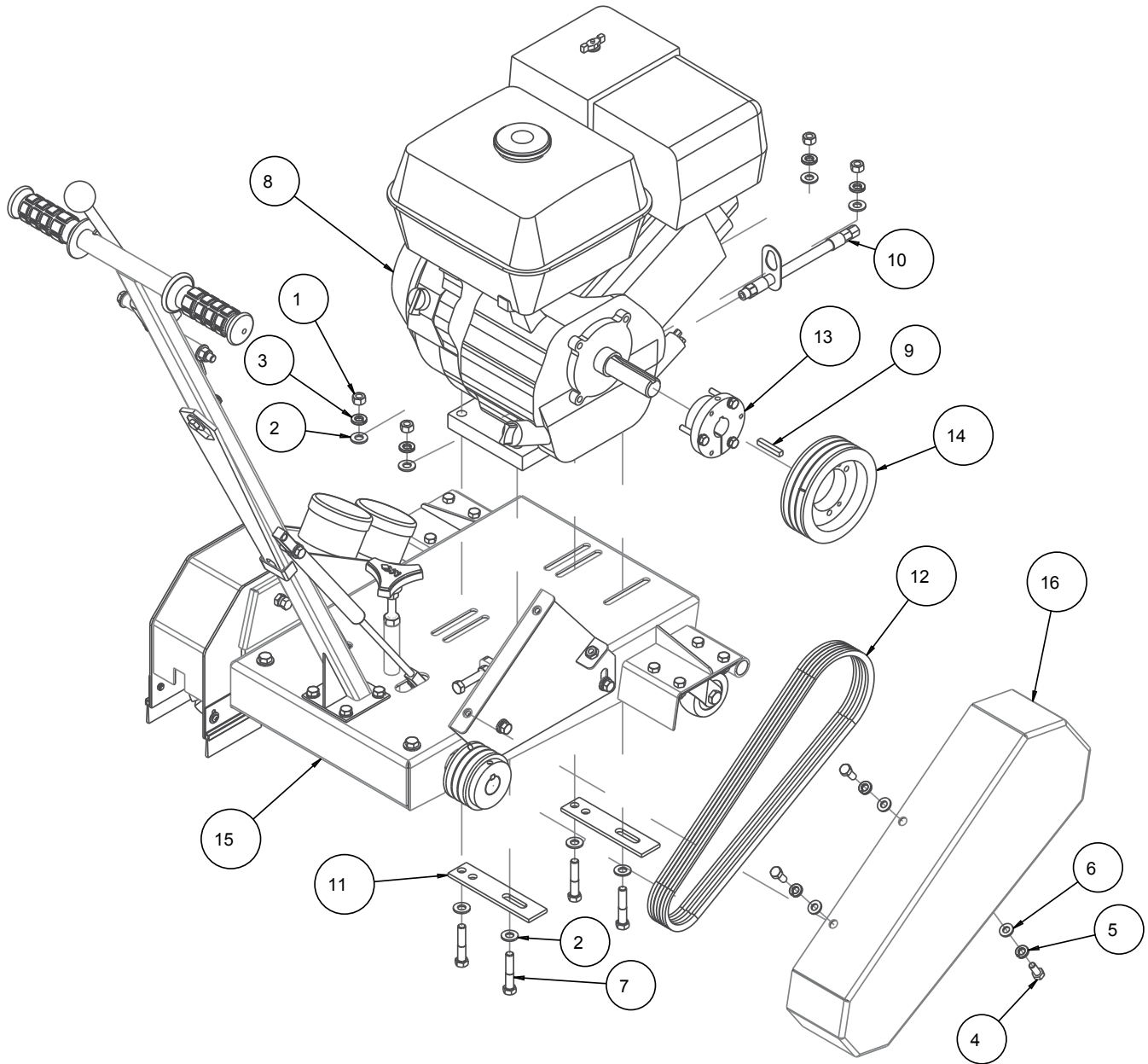




**MK CC-100-13H, 13HP HONDA P/N 171320-13H**

ITEM NO.	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 3/8-16	101188	4
2	WASHER, FLAT, SAE, 3/8	150923	8
3	WASHER, LOCK, SPLIT, 3/8	150925	4
4	SCREW, HEX HD, CAP, 5/16-18 X 3/4	151369	3
5	WASHER, LOCK, SPLIT, 5/16	151747	3
6	WASHER, FLAT, SAE, 5/16	151754	3
7	SCREW, HEX HD, CAP, 3/8-16X2	153485	4
8	KEY, 1/4 SQUARE X 1-1/2	157560	1
9	ASSY, OIL DRAIN, 12MM	157577-02	1
10	PLATE, ENGINE BOLT	157847	2
11	BELT, V, 3VX375	157891	3
12	BUSHING, LRG SHEAVE QD X 1" SD	157899	1
13	PULLEY, 3-3VX X 2.5 X1.0 +A	160193	1
14	ENGINE, HONDA GX390 W/CYC	169260	1
15	MK CC-100 CRACK CHASER, PARENT	171320	1
16	GUARD, BELT, OUTER	171334	1

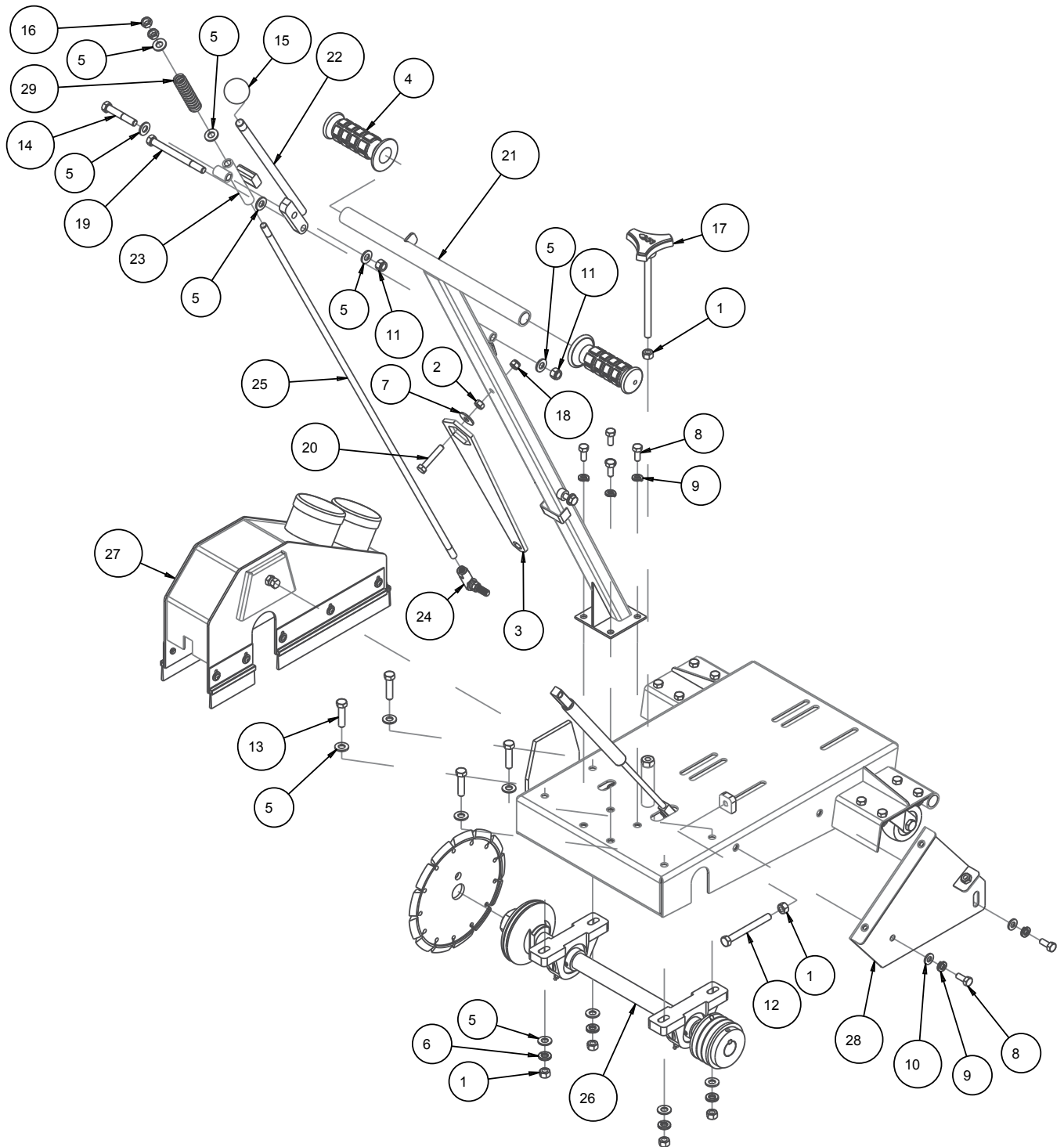
MK CC-100-9H, 9HP HONDA P/N 171320-9H



**MK CC-100-13H, 9HP HONDA P/N 171320-9H**

ITEM NO.	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 3/8-16	101188	4
2	WASHER, FLAT, SAE, 3/8	150923	8
3	WASHER, LOCK, SPLIT, 3/8	150925	4
4	SCREW, HEX HD, CAP, 5/16-18 X 3/4	151369	3
5	WASHER, LOCK, SPLIT, 5/16	151747	3
6	WASHER, FLAT, SAE, 5/16	151754	3
7	SCREW, HEX HD, CAP, 3/8-16X2	153485	4
8	ENGINE, HONDA GX270	155897	1
9	KEY, 1/4 SQUARE X 1-1/2	157560	1
10	ASSY, OIL DRAIN, 12MM	157577-02	1
11	PLATE, ENGINE BOLT	157847	2
12	BELT, V, 3VX375	157891	3
13	BUSHING, LRG SHEAVE QD X 1" SD	157899	1
14	PULLEY, 3-3VX X 2.5 X1.0 +A	160193	1
15	MK CC-100 CRACK CHASER, PARENT	171320	1
16	GUARD, BELT, OUTER	171334	1

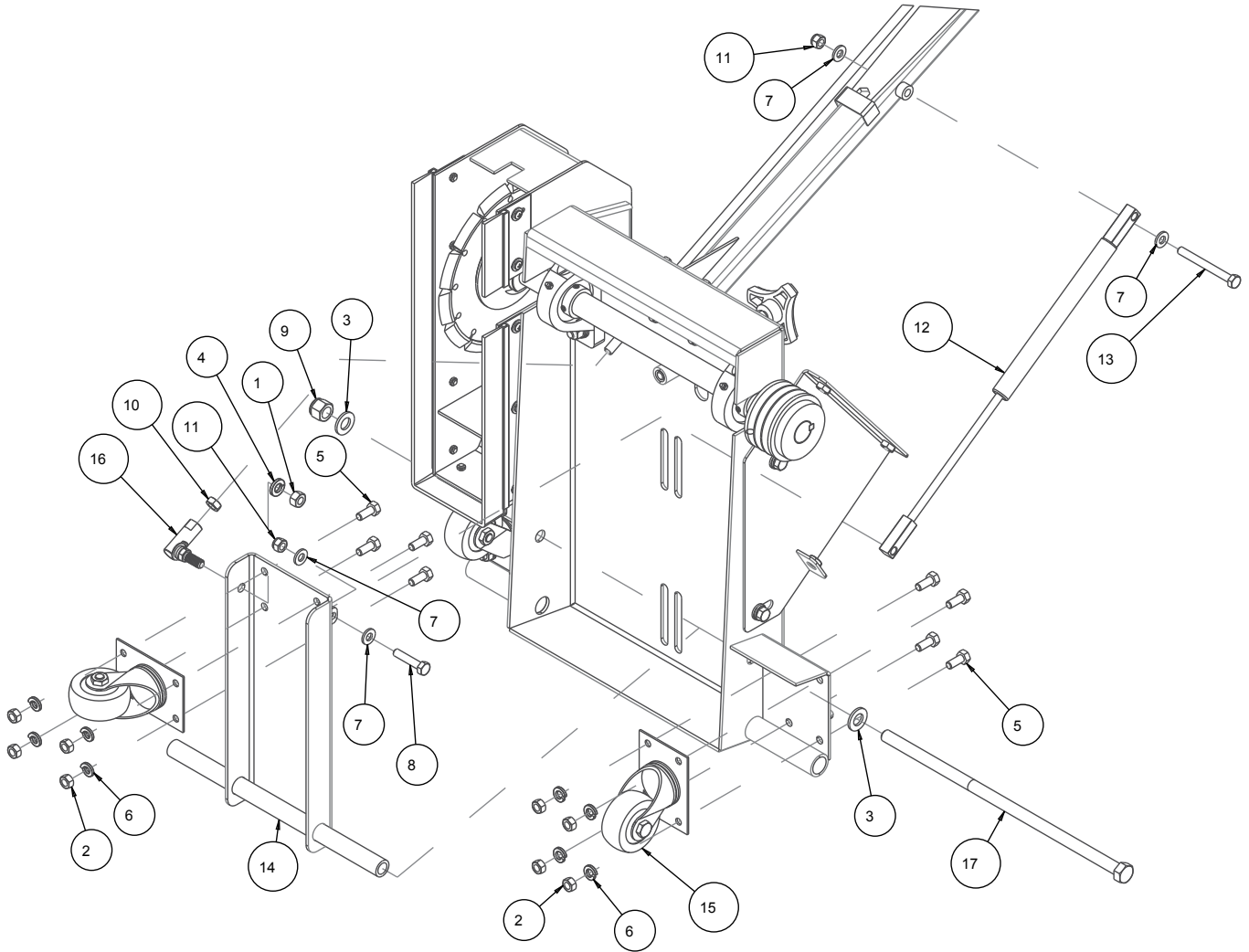
MK CC-100 CRACK CHASER, PARENT P/N 171320



**MK CC-100 CRACK CHASER, PARENT P/N 171320**

ITEM NO.	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 3/8-16	101188	7
2	NUT, HEX, 5/16-18	101196	13
3	WRENCH, BOX END, 1-1/2 X 9/16	137976	1
4	GRIP, HANDLE, 1.0 ID	150842	2
5	WASHER, FLAT, SAE, 3/8	150923	14
6	WASHER, LOCK, SPLIT, 3/8	150925	5
7	WASHER, FENDER, 5/16 X 1.0	151053	1
8	SCREW, HEX HD, CAP, 5/16-18 X 3/4	151369	18
9	WASHER, LOCK, SPLIT, 5/16	151747	18
10	WASHER, FLAT, SAE, 5/16	151754	6
11	NUT, HEX, NYLK, 3/8-16	152505	2
12	BOLT, 3/8-16 X 3-1/2 HEX HEAD TAP	153147	1
13	SCREW, 3/8-16X1-1/2 HEX HEAD	153528	4
14	SCREW, HEX HD, CAP, 3/8-16X2-1/4	153529	1
15	KNOB, 1/2-20 FEM BALL	154486	1
16	NUT, HEX, JAM, 3/8-24	156623	3
17	MK KNOB 6-12" LG.	156770-65	1
18	NUT, HEX, NYLK, 5/16-18	158289	3
19	SCREW, HEX HD, 3/8-16X4-1/4	158604	1
20	SCREW, HEX HD, TAP, 5/16-18X1-1-3/4	160948	1
21	HANDLEBAR, CC100	171323	1
22	HANDLE, ENGAGE	171324	1
23	GUIDE, ENGAGE ROD	171325	1
24	LINKAGE, BALL JOINT, 3/8-24	171326	1
25	ROD, TRUCK LIFT	171327	1
26	ASSY, BLD SHAFT, CC100	171328	1
27	ASSY, GUARD, BLADE, CC100	171331	1
28	GUARD, BELT, INNER	171333	1
29	SPRING, COMPRESSION, 3/4OD X 3L	171365	1

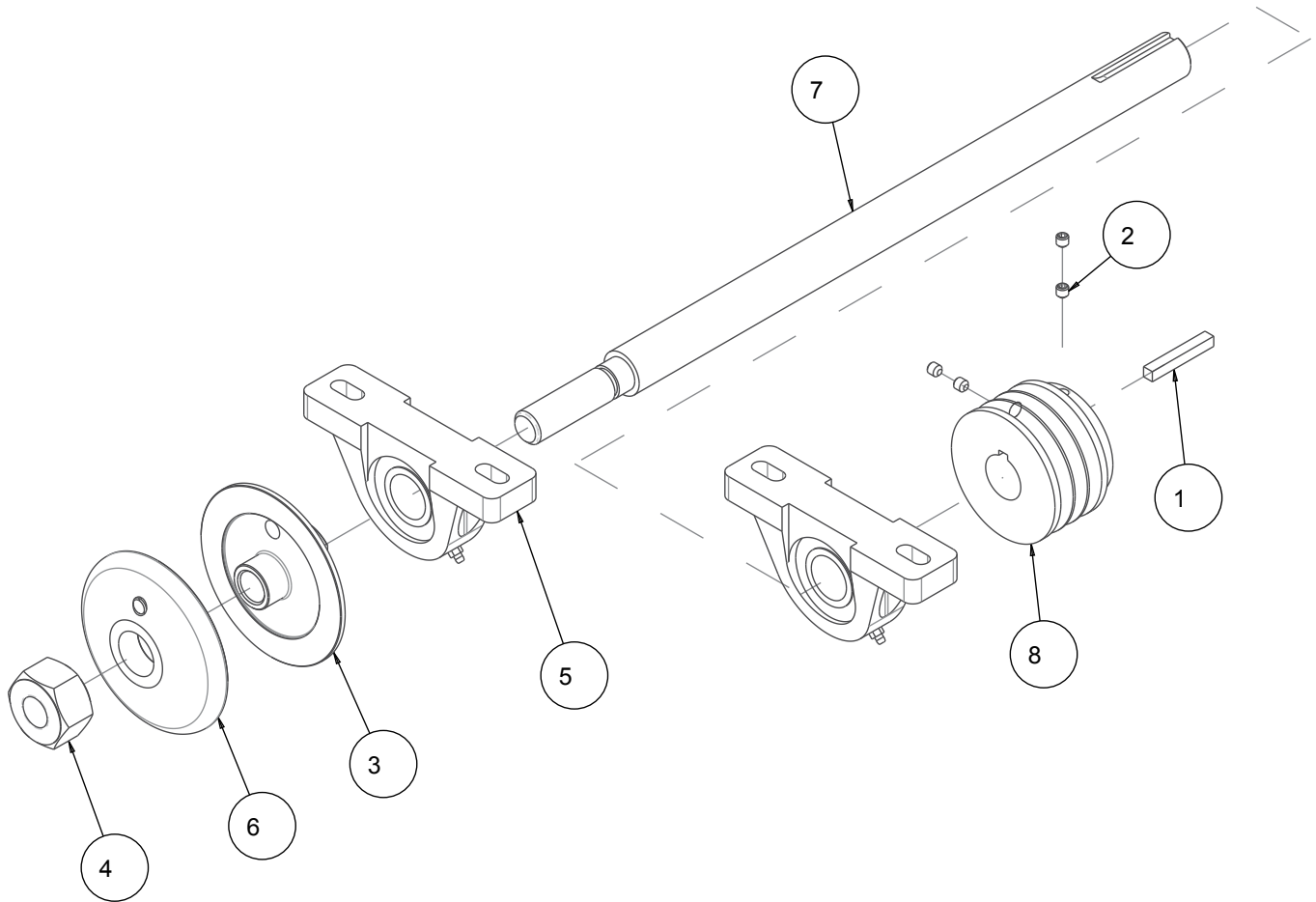
MK CC-100 CRACK CHASER, PARENT P/N 171320



**MK CC-100 CRACK CHASER, PARENT P/N 171320**

ITEM NO.	DESCRIPTION	PART #	QTY.
1	NUT, HEX, 3/8-16	101188	7
2	NUT, HEX, 5/16-18	101196	13
3	WASHER, 1/2 SAE FLAT	150924	2
4	WASHER, LOCK, SPLIT, 3/8	150925	5
5	SCREW, HEX HD, CAP, 5/16-18 X 3/4	151369	18
6	WASHER, LOCK, SPLIT, 5/16	151747	18
7	WASHER, FLAT, SAE, 5/16	151754	6
8	SCREW, 5/16-18 X 1-1/2 HEX HEAD MACHINE	152467	1
9	NUT, 1/2-13 NYLOK, HEX	155162	1
10	NUT, HEX, JAM, 3/8-24	156623	3
11	NUT, HEX, NLK, 5/16-18	158289	3
12	SPRING, GAS, 600N	160696	1
13	SCREW, HEX HD, TAP, 5/16-18X3	162473	1
14	TRUCK, CC100	171321	1
15	WHEEL, CASTER, 2-1/2 X 1 IRON	171322	3
16	LINKAGE, BALL JOINT, 3/8-24	171326	1
17	SCREW, HEX HD, 1/2-13X13-1/2	171364	1

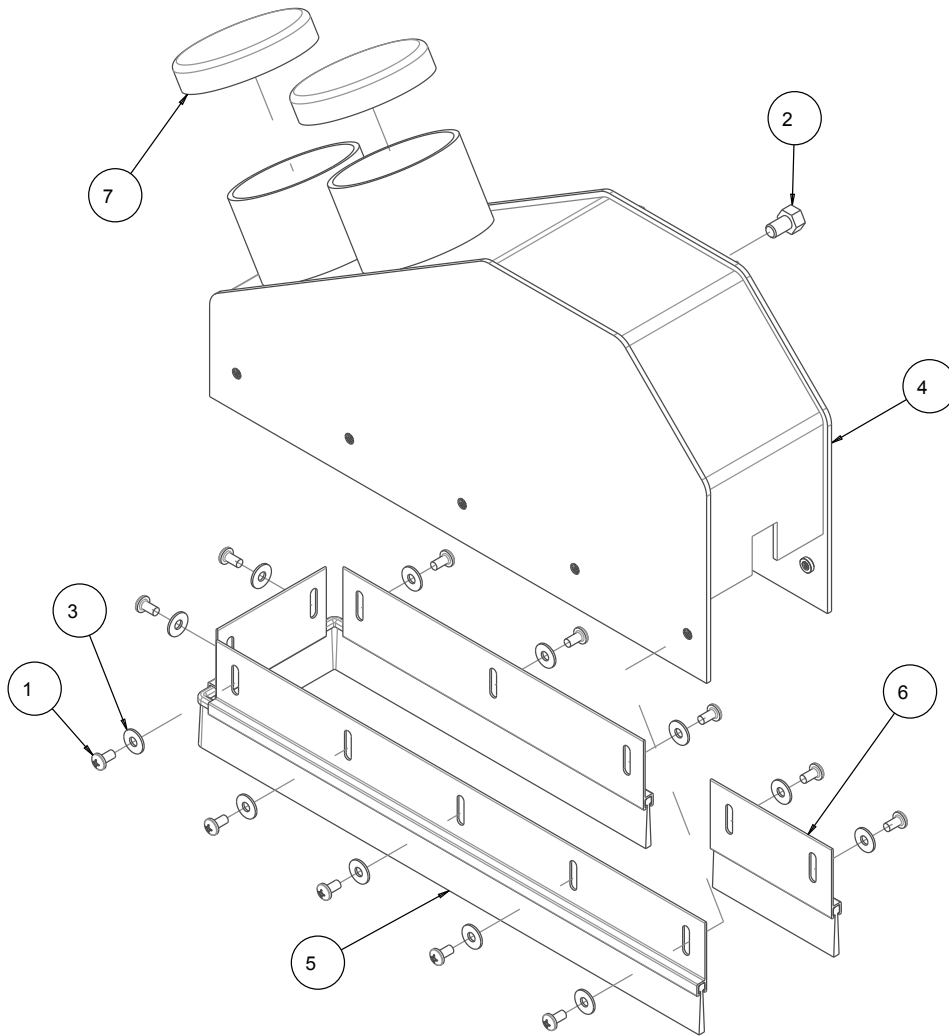
**MK CC-100 ASSY, BLADE SHAFT P/N 171328**



ITEM NO.	DESCRIPTION	PART #	QTY.
1	KEY, 1/4 SQR X 1-3/4	150796	1
2	SCREW, SET, CUP PT, 5/16-18X1/4	152607	4
3	FLANGE, 4.0 X 3/4-16LH INNER	155068	1
4	NUT, BLD SHFT, LH, 3/4-16	155069	1
5	BEARING, PILLOW BLK 1"	155072	2
6	ASSY, OUTER FLANGE, 4"	155451	1
7	SHAFT, BLADE, CC-100	171329	1
8	PULLEY, 3/3V30 X 1 BORE	171330	1

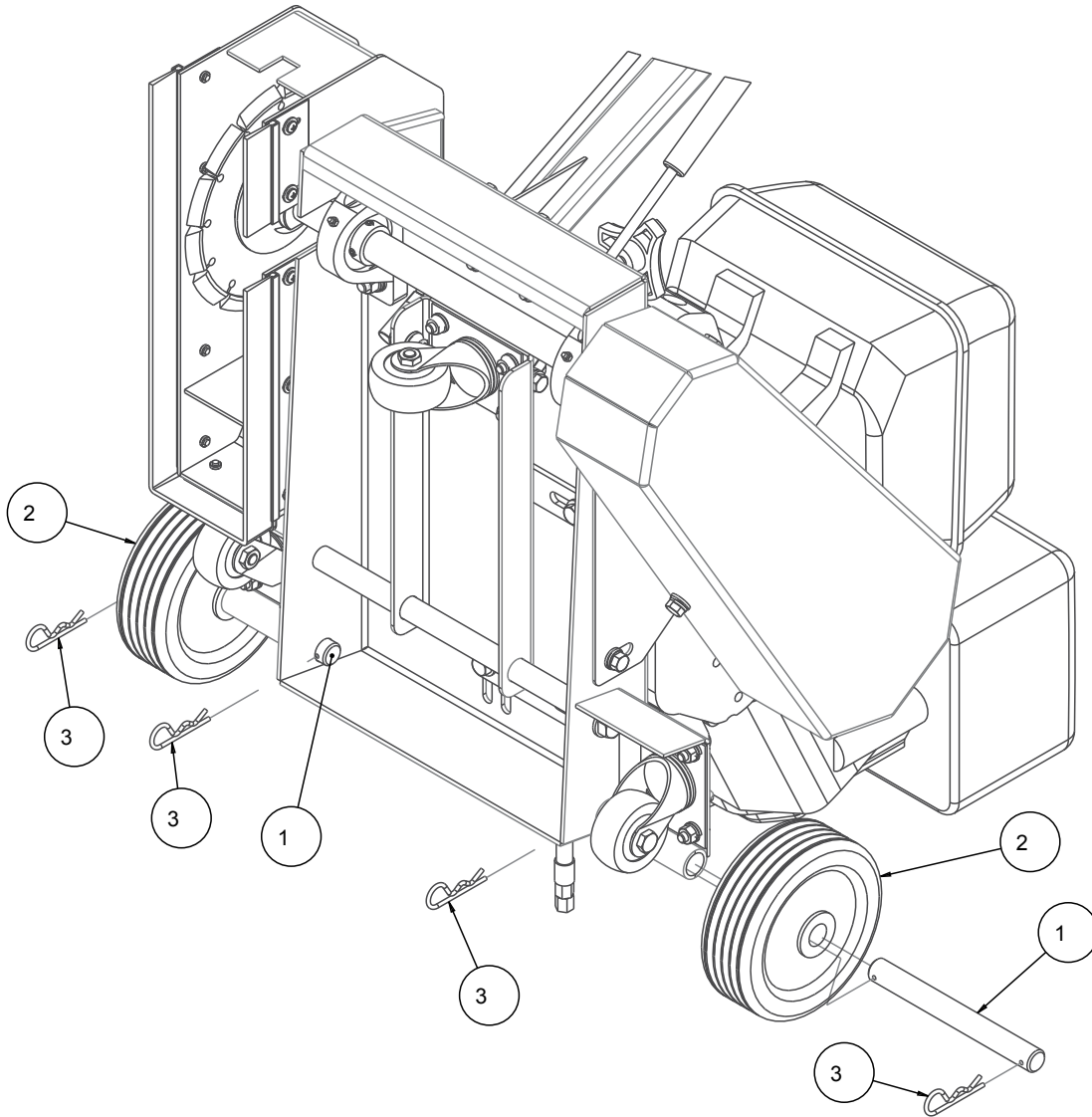


**MK CC-100 ASSY, GUARD, BLADE P/N 171331**







ITEM NO.	DESCRIPTION	PART #	QTY.
1	SCREW, PAN HD, #10-24X3/8	151097	12
2	SCREW, 5/16-18 X 1/2 HEX HEAD MACHINE	152473	1
3	WASHER, FLAT, SAE, #10	154369	12
4	GUARD, BLADE, 8"	171332	1
5	ASSY, BRUSH 1, BLD GRD	171360	1
6	ASSY, BRUCH 2, BLD GRD	171361	1
7	CAP, 3' TUBING, VINYL	171362	2

**MK CC-100 KIT, WHEEL, 6X2 P/N 172014**



ITEM NO.	DESCRIPTION	PART #	QTY.
1	AXLE, 6 X 2 WHEEL	172015	2
2	WHEEL, 6 X 2, 150LB	172016	2
3	PIN, HAIRPIN COTTER, 1/8 X 2-1/2	172017	4

**ACCESSORIES**

ITEM	NUMBER	DESCRIPTION	
1	151927	MK-404DV 8" x .250 x 1"	
2	151934	MK-404DV 8" x .375 x 1"	
3	151938	MK-404DV 8" x .500 x 1"	
4	172014	Straight Cut Wheel Kit	

**ORDERING INFORMATION**

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

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

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

**NOTE:** 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**

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

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

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

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

**AUTHORIZED SERVICE CENTERS**

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

**CONTACT**

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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**

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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](http://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.





**CC-100 CRACK CHASER SAW**  
**OWNER'S MANUAL**  
**& PART LISTS**



**MK Diamond Products, Inc.**

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