

MK-1318 CONCRETE GAS SAW OWNER'S MANUAL, OPERATING INSTRUCTIONS & PARTS LIST



MK-1318 Honda

Revision 106	08.2018
Manual Part# 171159	

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

INTRODUCTION

Congratulations on your purchase of a MK-1318 Concrete Saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-1318 Concrete Saw should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-1318 Concrete Saw safely and correctly. Please take the time to familiarize yourself with the MK-1318 Concrete Saw by reading and reviewing this manual.

Read and follow all safety, operating and maintenance instructions.

If you should have questions concerning your MK-1318 Concrete Saw, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

NOTE THIS INFORMATION FOR FUTURE USE:

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

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

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

SAFETY MESSAGES

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

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

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

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

DAMAGE PREVENTION AND INFORMATION MESSAGES

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

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

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS

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



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



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



NEVER operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job. Non-slip foot wear is recommended.

**PERSONAL PROTECTIVE EQUIPMENT**

ALWAYS wear approved respiratory, head, ear and eye protection when operating this machine.

**ACCIDENTAL STARTS!**

Before starting the engine/motor, be sure the **ON/OFF** switch is in the **OFF** position to prevent accidental starting. Place the **ON/OFF** switch in the **OFF** position before performing any service operation. **ALWAYS** place the power **ON/OFF** switch in the **OFF** position when the machine is not in use.

**ROTATING PARTS**

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the motor with covers, shrouds, or guards, removed.

**HOT PARTS!**

Engine components can become extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running, or immediately after it is turned off. Never operate the engine with heat shields removed.

**OVER SPEED**

NEVER tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

**ELECTRICAL SHOCK**

NEVER touch electrical wires or components while the engine is running. Exposed, frayed or worn electrical wiring and plugs can be sources of electrical shock which could cause severe injury or burns. Do not touch the plug with wet hands.



ALWAYS avoid inhalation of and skin contact with silica dust and/or mist. Provide proper dust removal. Use dust-collection system when applicable.



NEVER operate the machine in an explosive atmosphere or near combustible materials. Sparks from the cutting-action of this machine can ignite flammable materials, liquids, gases or dust.



This equipment should not be operated by persons under 18 years of age.

**KEEP CHILDREN AWAY**

All visitors and children should be kept a safe distance from work area. Maintain a safe operating distance to other personnel.

**MAKE THE WORKSHOP KID PROOF**

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

**DO NOT FORCE THE TOOL**

A power tool will do a job better and safer operating at the rate for which it was designed. **DO NOT** force a tool or an attachment to do a job that it was not designed to do.

**USE PROPER APPAREL**

DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

**SECURE WORK**

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

**DO NOT OVERREACH**

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

**DISCONNECT TOOLS**

Power tools should always be disconnected before servicing, adjusting or when changing accessories, such as blades, bits, cutters, and the like.

**MAINTAIN TOOLS WITH CARE**

Keep tools clean and maintained for the best and safest performance. Always follow maintenance instructions and examine the machine before use. If any abnormal vibrations or noises occurs, turn off machine immediately and have the problem corrected before further use.

**REMOVE ADJUSTING KEYS AND WRENCHES**

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

**KEEP WORK AREA CLEAN**

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

**DO NOT USE IN DANGEROUS PLACES**

DO NOT operate equipment in dangerous or hazardous environments. **DO NOT** use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

**USE RECOMMENDED ACCESSORIES**

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



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

**NEVER STAND ON THE TOOL**

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

**TRANSPORT**

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

**CHECK FOR DAMAGED PARTS**

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced. Always check the machine for loose bolts before starting.

**DIRECTION OF ROTATION**

A blade or cutter should always be installed so that rotation is in the direction of the arrow imprinted on the side of the blade or cutter. It should correspond with the rotational direction of the motor. Always feed work into a blade against the direction of rotation.

**NEVER LEAVE A TOOL UNATTENDED**

TURN POWER OFF - Do not leave a tool until it comes to a complete stop. **ALWAYS** turn a power tool **OFF** when leaving the work area, or, when a cut is finished.



NEVER disconnect any "emergency or safety devices". These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm, or even death! Disconnection of any of these devices will void all warranties. Unauthorized equipment modifications will void all warranties. Manufacturer does not assume responsibility for any accident due to equipment modifications.



NEVER use this machine with any cutter designed for woodworking.



NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.



NEVER operate this equipment under the influence of drugs or alcohol.



On belt driven equipment, overtensioning of belts will result in premature crank and/or bearing failure.



Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.



ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children



DO NOT lend or rent this equipment without including the Owner's Manual and the Engine/Motor Manufacturer's Manual.



Check the chemical properties of the material to be cut/grinded and follow all EPA/OSHA Regulations. (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.

GAS ENGINE SAFETY

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



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

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.

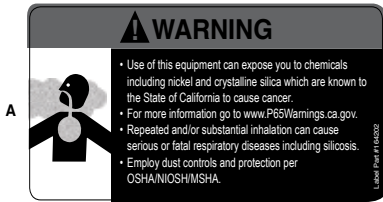


ALWAYS close fuel value on engines when machine is not being operated.

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.

OPERATION & SAFETY DECALS

The MK-1318 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**.



Part # 164202



Part # 155587 (3)



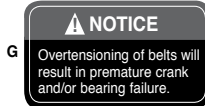
Part # 155038



Part # 155588



Part # 155585



Part # 154399



Part # 155580



Part # 155578

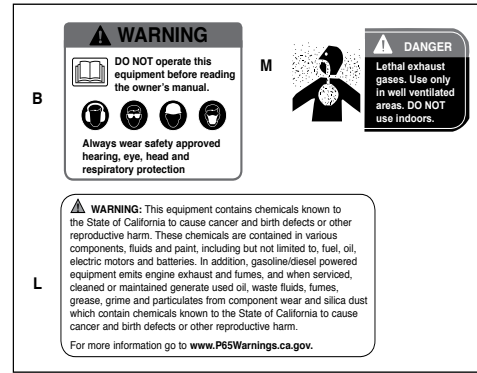


Part # 155579



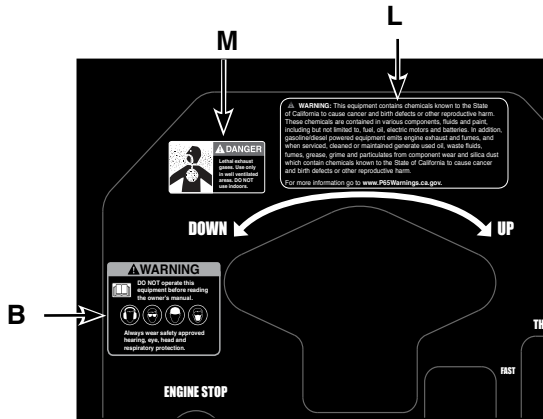
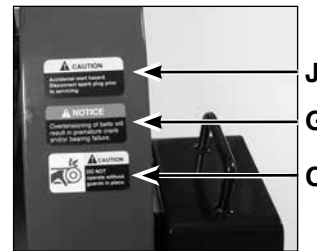
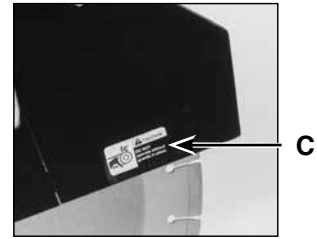
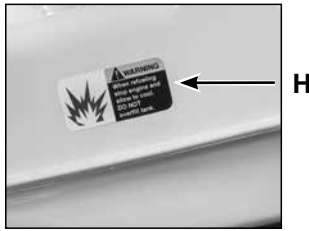
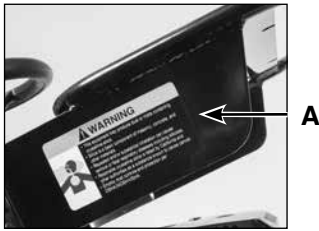
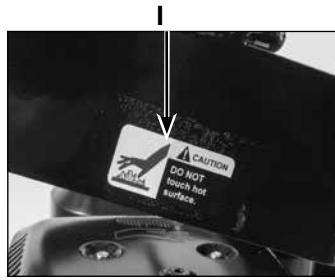
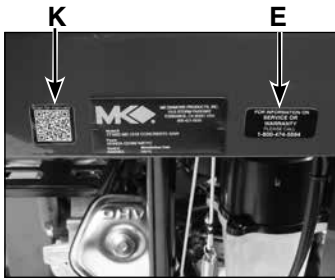
Part # 170480

N Console Label Part # 171036



Location	Description
A Lifting Bail	Silica
B Console	Read Manual
C Shaft Cover/Belt/Blade Guard	Guards in Place
D Blade Guard	Replace Blade Guard
E Frame/Back	Service
F Frame/Front	Hand & Feet Clear
G Belt Guard	Overtensioning Belts
H Gas Tank/Side	Refueling
I Lifting Bail	Hot Surface
J Belt Guard	Accidental Start
K Frame/Back	QR Code Manual
L Console	Prop 65
M Gas Tank/Side	Lethal Exhaust
N Console	Machinery Hazard

SAFETY DECALS LOCATION



PRODUCT SPECIFICATIONS

The MK-1318 is a versatile gas powered Concrete Saw. Operated and used according to this manual, the MK-1318 will provide years of dependable service.

General Description

The MK-1318 is engineered as a portable concrete saw powered by a Honda gas engine. The saw is capable of 6-5/8" depth of cut with an 18" blade.

Motor and Weight Specifications

Motor and Weight specifications for the MK-1318 are listed below.

Model	MK-1318
Engine	Honda (Gas)
Power	GX390
Starter	Electric
Fuel Capacity	1.6 Gallon (6.1 Liter)
Blade Capacity	18" (45mm)
Blade RPM	2,700
Depth of Cut	6-5/8" (168mm)
Weight	210 lbs. (95 kg)
Part #	171002

Blade

The MK-1318 uses a 16 or 18 inch diameter diamond blade.

Concrete Saw Usage

The MK-1318 is designed to cut various grades of concrete surfaces.

MK-1318 Series Features

- One-piece box construction chassis made from 3/16" hot-rolled steel
- Powder-coated chassis resists peeling and corrosion
- Spring-loaded steel hinged blade guard for easy blade inspection
- Water distribution system uses "ride on the blade" water tubes that supply water to both sides of blade
- 18" blade guard mounts on both left- or right-hand side of saw and cuts within 2" of wall or curb
- 30mm blade shaft supported by two heavy-duty, self-aligning pillow block bearings
- Depth control assembly engineered for smooth, controlled blade insertion
- Durable 8" x 2-1/4" non-slip rubber wheels with maintenance-free hubs & roller bearings
- Positive-locking depth control mechanism
- Includes built-in depth gauge, lifting bail and water tank
- One-year limited warranty

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.






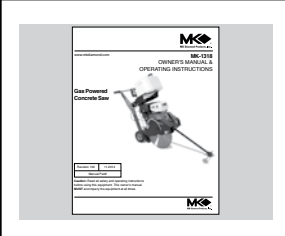
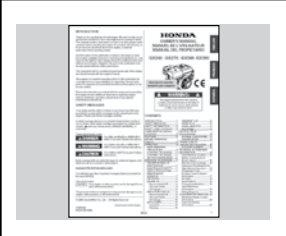



WARNING Never start engine until all initial servicing and set up steps are completed according to this operations manual and engine manual. Read and familiarize yourself with all controls and features of the saw before beginning operations.

Remove the saw from the pallet and place it on a flat surface. Two people are required to lift saw.

CONTENTS

In the containers, you will find one (1) MK-1318 Saw, two (2) Blade Nut Wrenchs, one (1) Pointer, one (1) Water Tank, one (1) Wheel Handle, one (1) MK-1318 Owner's Manual, one (1) Engine Owners Manual, one (1) Warranty Card.

				
MK-1318 Saw	Blade Nut Wrench	Pointer	Water Tank	Wheel Handle
				
MK-1318 Owner's Manual	Engine Manual	Warranty Card		

TRANSPORT

! CAUTION

1. The MK-1318 weighs approximately two hundred and ten (210 pounds), use care when transporting.
2. Two people are required to lift and transport the MK-1318.
3. A lifting bail is included.



1. The raise lever wheel raises the blade when rotated clockwise, and lowers the blade when rotated counterclockwise.
2. The raise/lower wheel lock is engaged when the knob is tightened.
3. The throttle control increases engine rpm from slow (idle) in the back position, to fast (full rpm) in the front position.
4. The water control lever is off in the vertical position and fully on in the horizontal position. It may be placed at in between settings to regulate the water flow.
5. The choke is located on the engine, by the pull starter, for convenient cold starting.
6. Depth control indicator should be adjusted to zero when setting up saw.
7. The pointer should be checked for proper alignment with the blade after every use.

Follow the assembly instructions to prepare your saw for operation.

Handlebar Assembly



(A)

Loosen bolts. Remove top bolt. Rotate handlebars to the upright position.



(B)

Align the handlebar with the slots on both sides of the frame at the desired height. Install bolt through the Handlebar and into the holes and tighten.

Depth Control Wheel Handle



(A)

Align handle and shoulder bolt.



(B)

Tighten bolt with allen wrench.

Install Water Tank



(A)

Place water tank on top of lifting bail. Slide water tank in position so screws align with lifting bail slots.



(B)

Tighten screws.

Pointer Installation



(A)

Insert bolt through pointer bar and then through pointer tab on front of saw.



(B)

Tighten nut

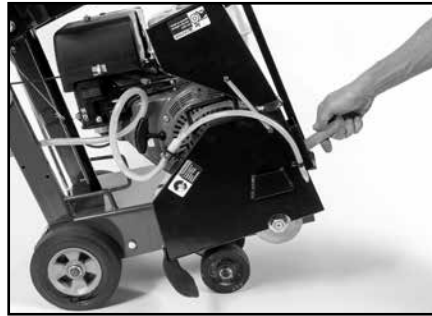
Diamond Blade Installation

- 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 on the right side of the saw and right-hand on the left of the saw.



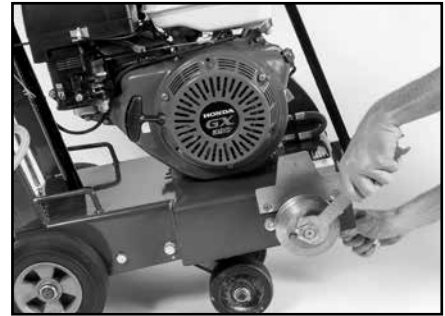
(A)

Use depth Control Wheel to raise the saw.



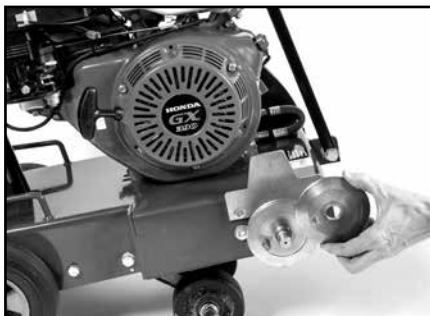
(B)

Open the blade guard. Loosen blade guard locking bolt. Remove blade guard.



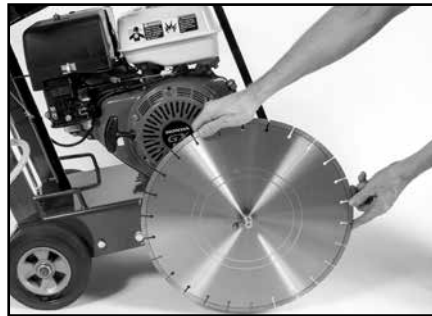
(C)

Loosen the Blade Shaft Nut while holding the Shaft Wrench steady on the flats of the blade shaft.



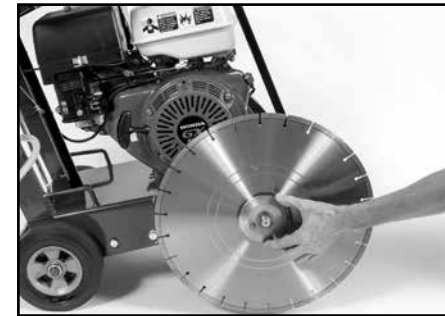
(D)

Remove the Blade Shaft Nut and Outer Flange.



(E)

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

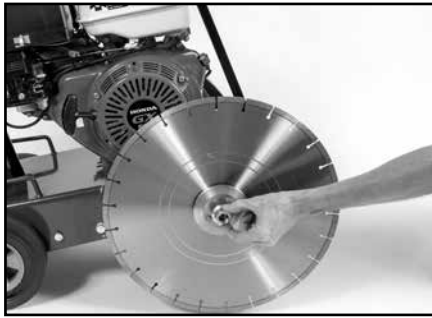


(F)

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

**CAUTION**

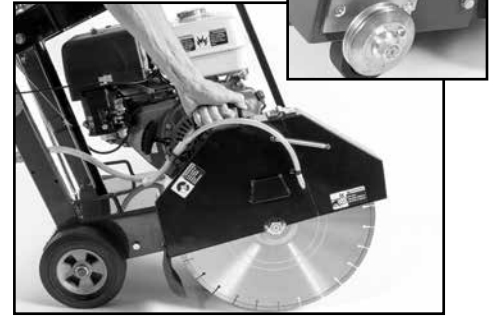
Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions.



(G)
Install the Blade Shaft Nut.



(H)
Tighten Blade Shaft Nut holding the Blade Shaft steady.




(I)
Attach Blade Guard ensuring Blade Guard is secure over spade. Tighten blade guard locking nut.

WARNING

Do not operate the saw without the proper Blade Guard covering. Ensure that the blade exposure does not exceed 180 degrees during operation.

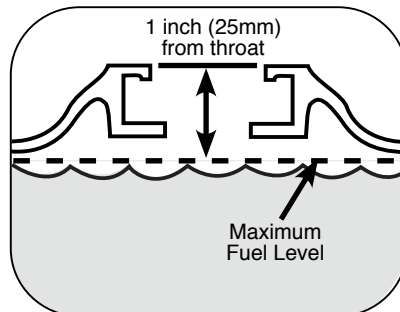
Filling Fuel Tank

-  **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.

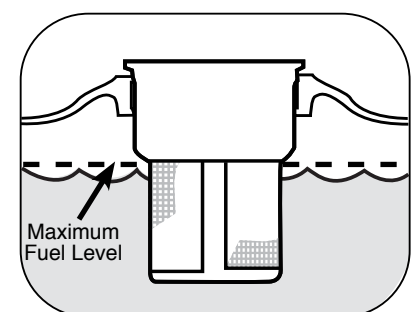
- NOTE:**
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
 2. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.



(A)
Remove the Fuel Cap. Refer to Engine Manual for details.



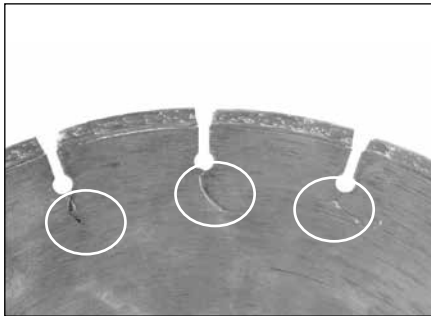
(B)
Ensure fuel level is 1" below the throat of the Fuel Tank.



(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 for cracks. Verify the Blade is correct for the material being cut.



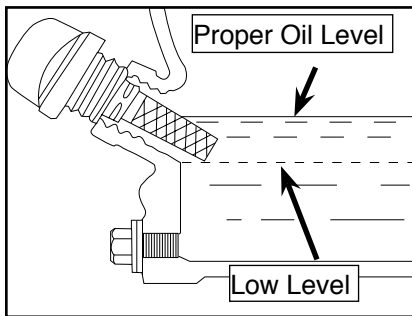
(B)

Inspect Engine for leaks.



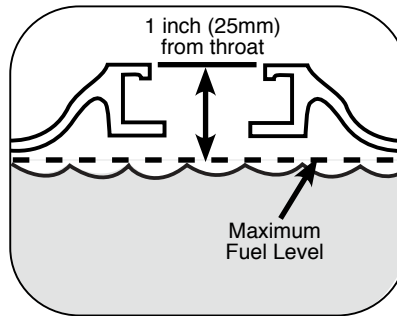
(C)

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



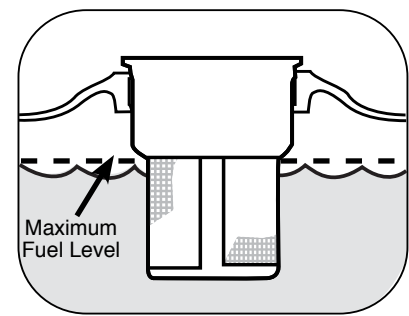
(D)

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.

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.)

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.

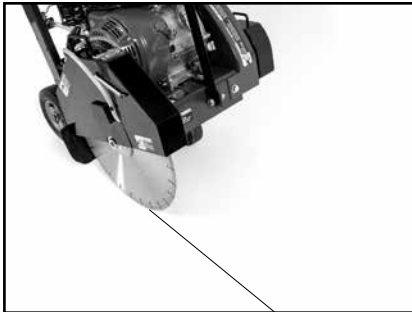


(A)

Use the Depth Control Wheel to raise the Blade clear of the floor. Refer to Engine Manual for starting procedure.

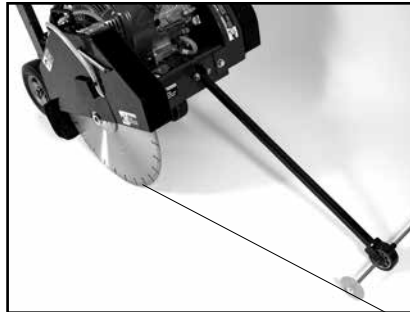
Front Pointer Alignment

The pointer should be checked for proper alignment with the blade after every use.



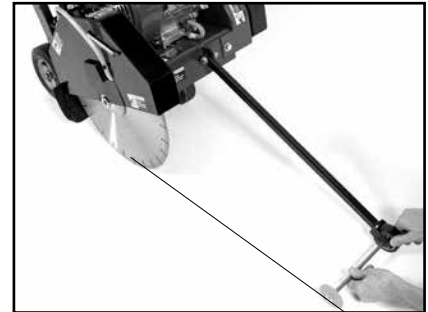
(A)

Mark a 4 feet long straight line on a smooth level surface. Place Saw parallel to line; lower Blade and center it over the line.



(B)

With the Blade parallel to the line, lower the front Pointer assembly and position the pointer over the line.



(C)

Adjust the Pointer in or out if the orange wheel is off the line by loosening the bolt on the end of pointer. Align orange wheel with line.

Adjusting Depth of Cut Gauge



(A)
Unlock Crank Wheel.



(B)
Turn Crank Wheel until Blade touches the ground.



(C)
Set depth indicator to zero.

Standard Operation

The MK-1318 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

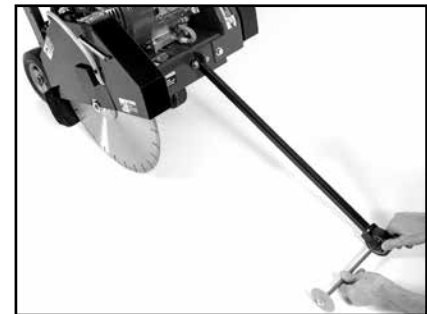
Prior to operation of this machine the operator must determine the existence and location of any subsurface features that may be hazardous or could damage the equipment, (i.e. electric cable, natural gas line etc...)



(A)
Use the Depth Control Wheel to raise the blade clear of the floor.



(B)
Attach the water hose to the Cooling Inlet, if wet cutting.



(C)
Lower the Pointer, ensuring the Pointer is aligned to the blade. See "Front Pointer Alignment."



(D)

Layout and mark the area to be cut using a chalk-line. Align Pointer and Blade to chalk-line.



(E)

Place Engine Master Switch in the "ON" Position.



(F)

Start the Saw using the Engine Start procedure in the Engine Manual.



(G)

With the engine running adjust the throttle approximately halfway.



(H)

For Wet Cutting, open Cooling Supply Valve. Verify proper cooling flow and adjust the water flow on the Blade to a desired amount.



(I)

Move the throttle to the "Fast" position.

NOTE:

Perform the cut using only enough pressure to follow the original marked line. The saw has a natural tendency to pull towards the side on which the blade is mounted. To assure straight line cutting, apply pressure to the appropriate handle. If excessive pressure is required reduce the forward speed of the saw. Driving the saw too fast while cutting may cause the front wheels to lift causing the blade to cut at uneven depths. Do not attempt to steer the saw. Sudden and severe corrections can cause the blade to be damaged or broken.



(J)

Slowly lower the Blade until the desired level is reached and begin the cut.



(K)

When the cut is complete, raise the Blade completely out of the cut by turning Depth Control Wheel counter-clockwise.



(L)

Close Cooling Supply Valve.



(M)

Move the Throttle Lever to lower blade speed.



(N)

Place Engine Master Switch in the OFF position. Place Fuel Valve in the OFF position. Refer to Engine Manual.

Dry Cutting

- 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. Step cut in increments of 2 inches or less, for best results. Thinner blades are especially advantageous when cutting dry.



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. Employ dust controls and protection per OSHA/NIOSH/MSHA.

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.

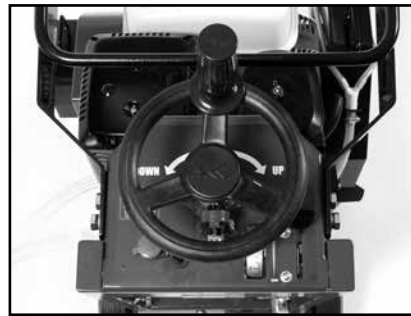
NOTE:

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.



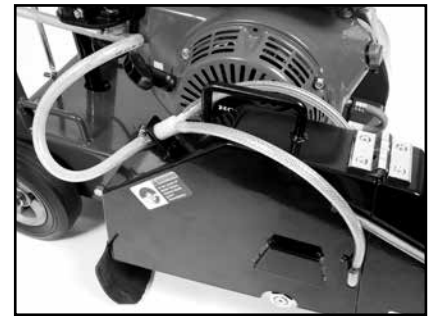
(A)

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



(B)

Clean around the Console.



(C)

Clean water system outlets, including water tubes in blade guard.

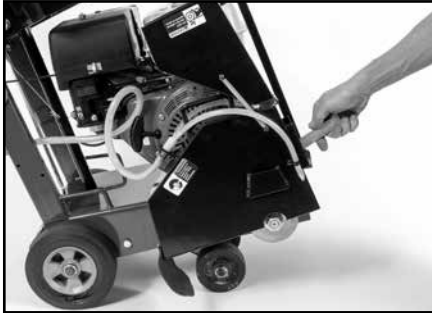


(D)

Clean the remainder of the exterior surface (except the engine).

Blade Repositioning

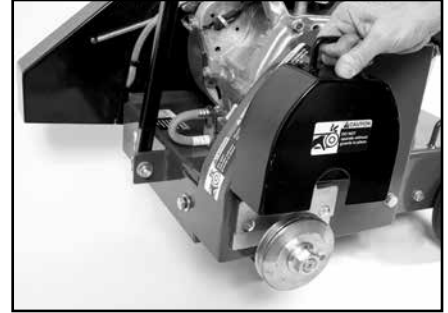
! WARNING Do not operate saw with any guards removed. Turn master engine switch to off position to avoid accidental starts when removing guards.



(A)
Remove Diamond Guard and Diamond Blade. Refer to Blade Installation.



(B)
Locate the Blade Shaft Cover locking bolt hole.



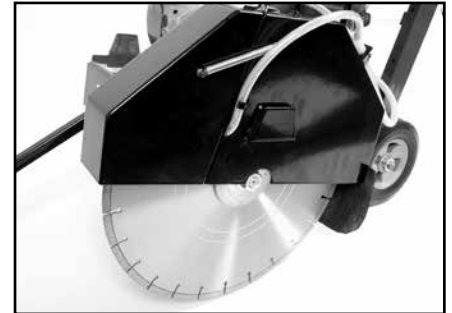
(C)
Remove the Blade Shaft Cover with allen wrench.



(D)
Install Diamond Blade on opposite side.



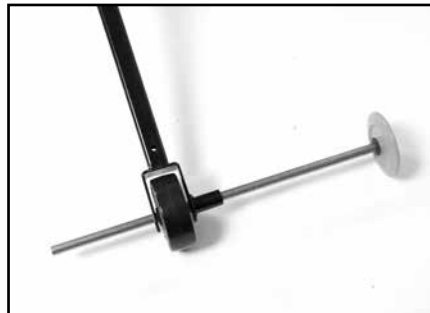
(E)
Remove water hose from blade guard.



(F)
Move the Blade Guard onto the spade on the opposite side of the saw. Attach water hose.



(G)
Install the Blade Shaft Cover and tighten bolts.



(H)
Install the Orange Wheel on the opposite side, next to Blade Guard.

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.

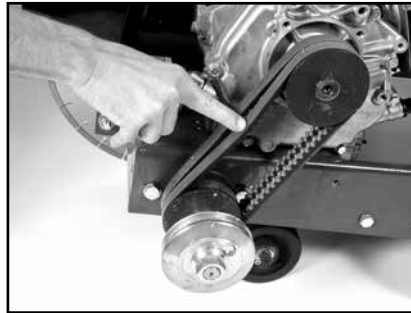
New Maintenance

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 all 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.



(B)

Check Air Filter (See Engine Manual).



(C)

Lubricate the Grease Fittings.



(E)
Lubricate the Cooling
Supply Valve.



(F)
Verify the tightness of all bolts
and screws. Clean the saw (ex-
cept 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.



(B)
Lubricate the Blade Shaft
Bearings (Monthly).



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



(D)
Clean Spark Plug Weekly and
readjust Spark Plug monthly.
Refer to Engine Manual for
details.



(E)
Clean and lubricate the Blade
Retaining Bolt.

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.

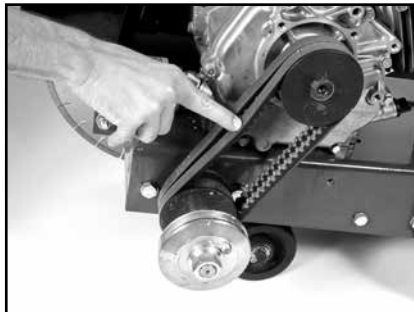


(C)

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.

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

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.

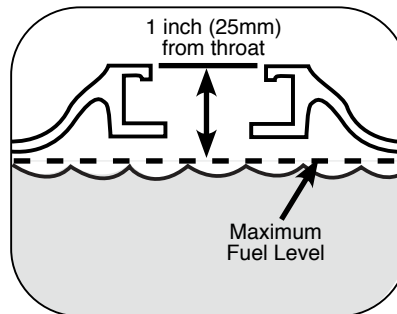
NOTE:

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.



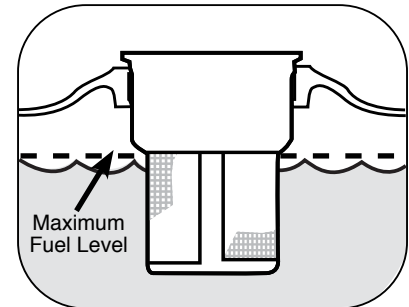
(A)

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 Blade Guard and Diamond Blade. See Blade Removal section.



(B)
Lower the MK-1318 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.



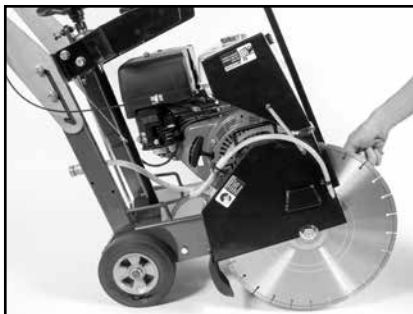
CAUTION DO NOT work around the engine while hot.



(A)

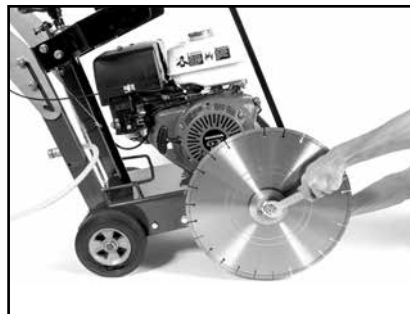
When installing the Spark Plug, ensure the threads are aligned with the threads in the engine so as not to “cross-thread” the plug.

Diamond Blade Removal



(A)

Open the Blade Guard Cover and loosen Blade Guard Locking Nut. Remove Blade Guard.



(B)

Remove the Blade Shaft Nut and the Outer Flange.



(C)

Remove blade.



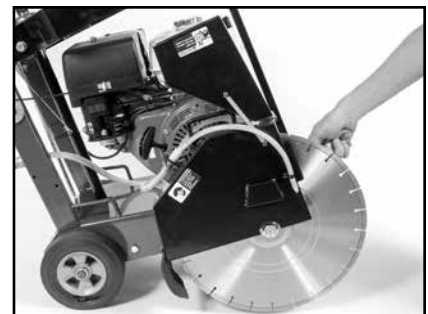
(D)

Install the new Blade, Retaining Bolt and Outer Flange.



(E)

Tighten Blade Retaining Bolt while holding the Blade Shaft steady.



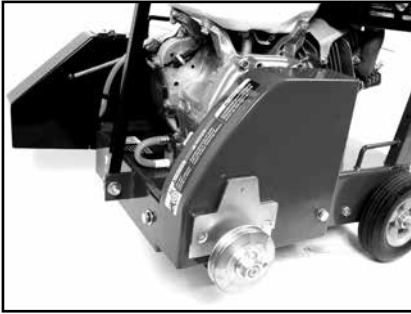
(F)

Replace Blade Guard on spade and tighten Blade Guard Locking Nut.

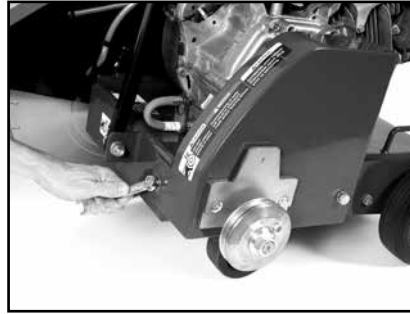
Belt Adjustment and Replacement

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.

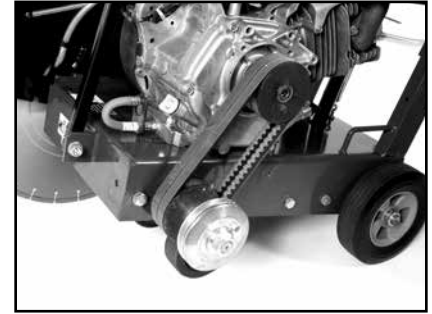
- NOTE:**
1. When a new belt is installed, it should be inspected and retensioned after the first forty-eight (48) hours of operation.
 2. Do not over tension belts as damage to belts and bearings may occur. Belts that are too loose may slip, resulting in short life or loss of power to the blade shaft.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



(A)
Remove the Blade Shaft cover
(See Blade Repositioning section).



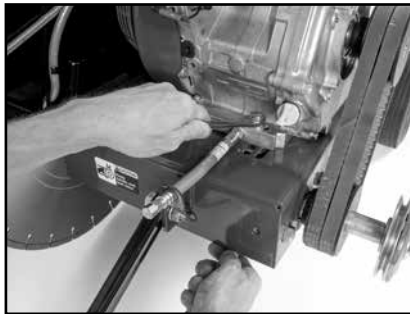
(B)
Locate and remove the two Belt
Guard Retaining Bolts and then
remove the Belt Guard.



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



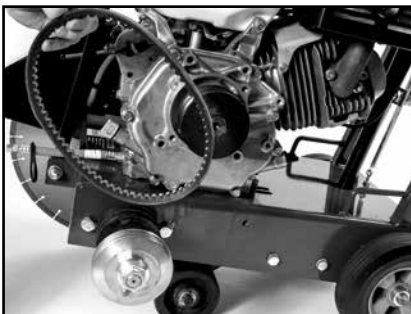
(D)
Check belt for proper tension if tension is correct, go to Step P (Proper tension is approximately 1/8-inch deflection of the belt).



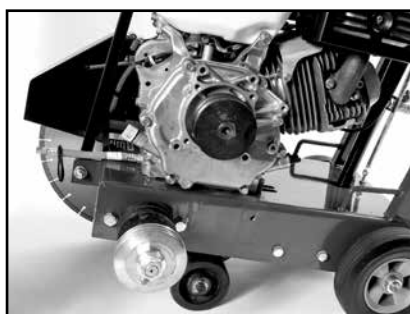
(E)
Locate the four upper Engine
Mounting Bolts on both ends of
the engine and loosen.



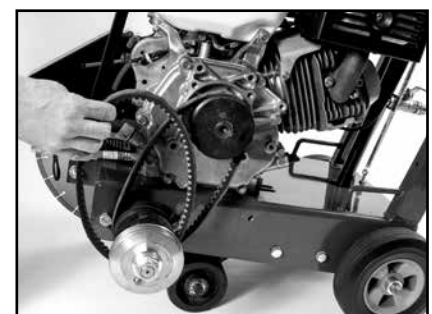
(F)
Loosen the Engine Tension Arm
adjusting nut. Push the Engine
forward to loosen the belt.



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



(H)
Clean and verify the alignment
of the Engine and Blade Shaft
Pulleys.



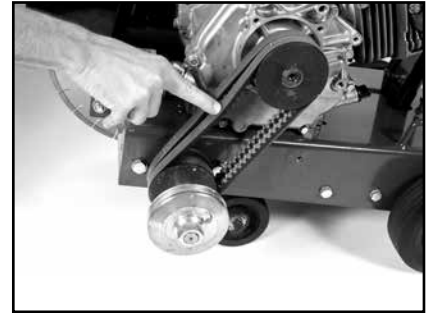
(I)
Install new belts onto the Engine
Blade Shaft Pulleys.



(J)
Verify the belts are seated
in all grooves of the Blade
Shaft Pulleys.



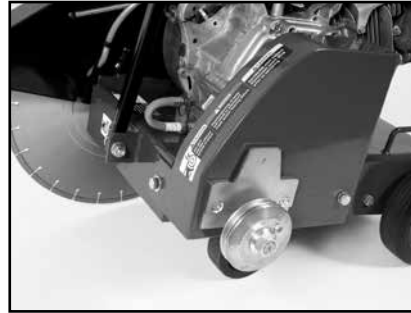
(K)
Tighten the Engine Tension
Arm Nut.



(L)
Check belt for proper tension
(Proper tension is approxi-
mately 1/8-inch deflection of
the belt).



(M)
Tighten the Engine
Mounting Bolts.



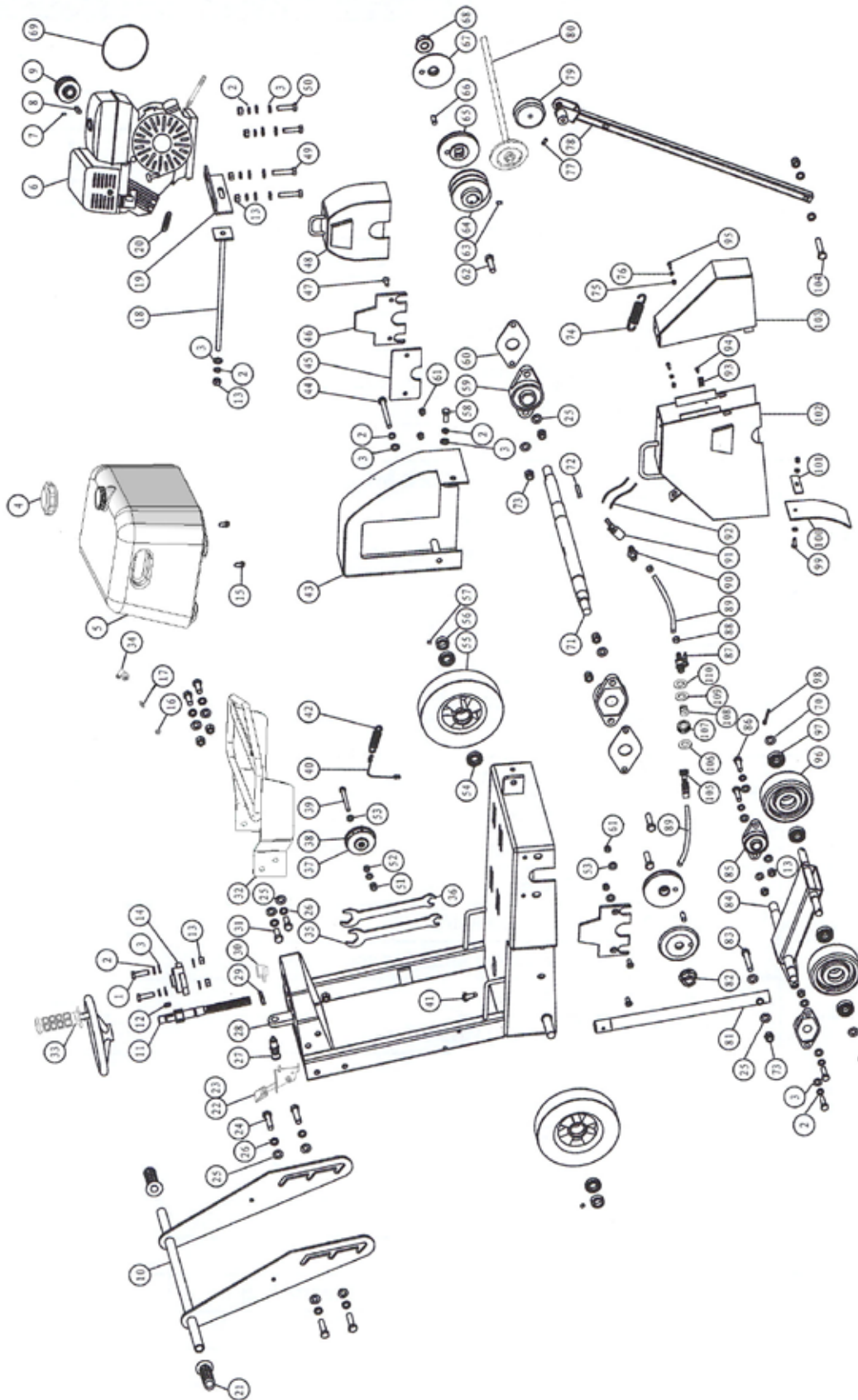
(N)
Install the Belt Guard and Belt
Guard Retaining Bolts.

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.

	Cause Problem	No Fuel	Improper Fuel	Dirt in Fuel Line	Incorrect Oil Level	Dirty Air Filter	Faulty Spark Plugs
		ENGINE	Will not start	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
OTHER	Cause Problem	Improper Blade for the Application		Improper Belt Tension	Damage Caused by External Objects		
		X		X			
	Excessive belt wear			X	X		

MK-1318 Honda Engine Part # 171002



MK-1318 Honda Engine Part # 171002

Item	Description	Part #	Qty
1	HEX HEAD BOLT M10X40	171115	2
2	SPRING WASHER 10	171055	13
3	FLAT WASHER 10	171043	27
4	CAP, WATER TANK 2.5 DIA	156956	1
5	TANK, WATER 2016HSP	156644	1
	ENGINE,HONDA GX390 W/CYC	169260	1
6	HOSE, OIL DRAIN	157577-02	1
7	FLAT HD SET SCREW M6X12	171049	2
8	KEY	150796	1
9	ENGINE PULLEY	171114	1
10	ARMREST	171051	1
11	LEAD SCREW	171052	1
12	KEY 6X16	171054	1
13	HEX NUT M10	171046	11
14	BEARING	171056	1
15	SCREW, PAN HD, 1/4-20X3/4	153880	2
16	CLAMP, HOSE, 5/8	151198	2
17	COUPLING, 3/8 BARB	152076	1
18	DRAWBAR FOR BELT	171058	1
19	DRAWPLATE FOR BELT	171059	1
20	SPRING FOR ACCELERO	171156	1
21	GRIP	171044	2
22	ASSEMBLY, THROTTLE HEAD	155406	1
	SCREW, 10-24 X 1/2 PAN HEAD PHILLIPS CAP	151744	2
	NUT, 10-24 CLIP	155407	2
23	CABLE, THROTTLE, HONDA	154158	1
24	HEX HEAD BOLT M12X55	171062	4
25	FLAT WASHER 12	171063	24
26	SPRING WASHER 12	171064	8
27	LEAD SCREW LOCKING ASSY	171066	1
28	FRAME	171118	1
29	ROUND NUT M20X1.5	171067	1
30	ENGINE SWITCH, HONDA	157851	1
	WIRE HARNESS, PREMIUM, HONDA (NOT SHOWN)	156633	1
31	HEX HEAD BOLT M12 X30	171068	4
32	LIFTING BAIL, MK-1318 SERIES	171158	1
33	ASSY, DEPTH CTRL WHEEL	155457	1
34	ELBOW, 90 DEG. STREET, 3.8, NYLON	157895	1
35	WRENCH, 30-19	171069	1
36	WRENCH, 30-14	171119	1
37	CUTTING DEPTH DIAL	171071	1
38	RULER	171140	1
39	HEX HEAD BOLT M6X45	171072	1
40	CABLE WIRE	171076	1
41	EYEBOLT, M8	171251	1
42	SPRING	171078	1
43	BELT COVER	171079	1
44	HEX HEAD BOLT M10X120	171126	1

MK-1318 Honda Engine Part # 171002

Item	Description	Part #	Qty
45	BACKING BOARD	171080	1
46	LOCATION PLATE	171081	2
47	HEX SOCKET COUNTERSUNK SCREW M8X20	171120	4
48	SPINDLE GUARD	171121	1
49	HEX BOLT M10X50	171122	2
50	HEX HEAD BOLT M10X45	171146	2
51	NONMETAL HEX LOCKNUT M6	171075	4
52	THIN NUT M6	171074	3
53	FLAT WASHER 6MM	171073	10
54	BEARING 60000	171141	4
55	REAR WHEEL	171083	2
56	RETAINING RING	171084	2
57	HEX SET SCREW M6X8	171142	2
58	HEX BOLT M10X25	171123	1
59	BEARING	171085	2
60	BACKING BOARD	171086	2
61	LOCK NUT M8	171147	4
62	HEX BOLT M12X45	171124	4
63	FLAT HD SET SCREW M6X12	171049	2
64	BLADE SHAFT PULLEY	171089	1
65	INNER PLATEN	171125	2
66	COLUMN PIN 10M6X26	171090	2
67	OUTSIDE PLATEN	171127	2
68	RIGHT-HAND THREADED NUT	171128	1
69	BELT	171041	2
70	WASHER GB848-16	171042	4
71	SPINDLE	171129	1
72	KEY 8X45	171092	1
73	NONMETAL HEX LOCKNUT M12	171088	4
74	SPRING FOR BLADE COVER	171096	2
75	NONMETAL HEX LOCKNUT M5	171094	3
76	HEX NUT M5	171108	4
77	WING BOLT M6X50	171130	1
78	GUIDE LEVER	171131	1
79	POLYURETHANE WHEEL 75X27	171098	1
80	ASSY, POINTER WHEEL, LONG	168573	1
81	TUBE	171100	1
82	LEFT-HAND THREADED NUT	171132	1
83	HEX SCREW M12X65	171143	1
84	FORE CARRIAGE	171101	1
85	BEARING UCFLU204	171056	2
86	HEX HEAD BOLT 5/8X3-1/2	171133	4
	WATER VALVE	171113	1
87	HOSE JOINT	171144	1
88	PIPE CLAMP JOINT	171045	2
89	HOSE, WATER VINYL 3/8X1/2	150845	1
90	PIPE JOINT	171045	1

MK-1318 Honda Engine Part # 171002

Item	Description	Part #	Qty
91	TEE JOINT	171104	1
92	FLEXIBLE CONDUIT 0.4M	171105	2
93	CLAMP	171106	2
94	RIVET	171107	2
95	HEX HEAD BOLT M5X16	171157	4
96	WHEEL	171109	2
97	BEARING	171135	2
98	SPLIT PIN	171136	2
	HEX HEAD BOLT M6X20	171110	1
	FLAT WASHER 6	171073	2
99	NONMETAL HEX LOCKNUT M6	171075	1
100	WATER CURTAIN	171137	1
101	WATER CURTAIN CLAMP	171111	1
102	BLADE COVER I	171138	1
103	BLADE COVER II	171139	1
104	HEX HEAD BOLT M12X50	171112	1
105	FITTING, 3/8ID	171053	1
106	RUBBER WASHER	171093	1
107	FITTING THREADED, INSIDE	170923	1
108	FITTING THREADED, OUTSIDE	171082	1
109	RING 20	171077	1
110	FLAT WASHER 20 GALVANIZED	171102	1
	CARTON (NOT SHOWN)	171250	1

THEORY OF DIAMOND BLADES

Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material. This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized. Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of “controlled bond erosion”



Types of Cutting

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on:



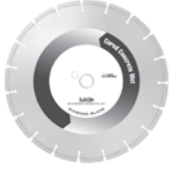

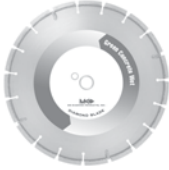

- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of “free-spinning” (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut

ACCESSORIES

ITEM	NUMBER	DESCRIPTION	
1	134965	MK-500 18" x .125 x 1" Standard grade wet cutting blade for cured concrete	
2	129072	MK-505 18" x .125 x 1" Premium grade, wet cutting blade for cured concrete	
3	134965	MK-525 18" x .125 x 1" Supreme grade, wet cutting blade for cured concrete	
4	133850	MK-705W 18" x .142 x 1" Premium grade, wet cutting blade for asphalt	
5	139162	MK-610W 18" x .142 x 1" Supreme grade, wet cutting blade for green concrete	
6	153550	MK-465D 18" x .142 x 1" Premium grade, dry cutting blade for asphalt and green concrete	

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

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

RETURN MATERIALS POLICY

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

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

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

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

PACKAGING INSTRUCTIONS

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

AUTHORIZED SERVICE CENTERS

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

CONTACT

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

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

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

E-mail: **Customer_Service@MKDiamond.com**

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

MK Diamond Products, Inc.
1315 Storm Parkway
Torrance, CA 90501

MK DIAMOND PRODUCTS, INC. LIMITED WARRANTY

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

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

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

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

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

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

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

MK-1318 CONCRETE SAW
OWNER'S MANUAL, OPERATING INSTRUCTIONS, &
PARTS LIST



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