



MK- 2005G

**GAS POWERED BRICK SAW
OWNER'S MANUAL &
OPERATING INSTRUCTIONS**



CAUTION:

Read all safety and operating instructions before using this equipment

Enter the Serial Number of your new saw in the space below. The Serial Number is located on the left side of the blade guard.

SERIAL NUMBER:

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.

INTRODUCTION

We at MK Diamond want to congratulate you on selecting the MK-2005G Brick Saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your MK-2005G should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-2005G safely and correctly. Please take a few minutes to familiarize yourself with the MK-2005G by reading and reviewing this manual.

If you should have questions concerning your MK-2005G, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

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SAFETY

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 MESSAGES:

Safety messages inform the user about potential hazards that could lead to injury, death and/or equipment damage. Each safety message will be preceded by one of the following (3) three words that identify the severity of the message.

⚠ DANGER

Not following instructions **WILL** lead to **DEATH** or **SERIOUS INJURY**

⚠ WARNING

Not following instructions **COULD** lead to **DEATH** or **SERIOUS INJURY**

⚠ CAUTION

Not following instructions **CAN** lead to injury

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!

Safety Precautions:

KEEP GUARDS IN PLACE.



In order to prevent injury, keep guards in place and in working order at all times.

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 start the engine near spilled fuel. Never use gasoline as a cleaning agent.

LETHAL EXHAUST GASES!



Engine exhaust gasses contain poisonous carbon monoxide, an odorless colorless gas that can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.

ELECTRICAL SHOCK!



Never touch electrical wires or components while the motor is running. Exposed, frayed or worn electrical motor wiring can be sources of electrical shock that could cause severe injury or burns.

ENGINE OVER-SPEED.



Never tamper with the governor components or settings to increase the maximum speed of the machine. Severe personal injury and/or equipment damage could result if the equipment is operated speeds above design maximum.

SAFETY

ACCIDENTAL STARTS!



Before starting the engine, 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.

ROTATING OR MOVING PARTS!



Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate a power tool with 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.

ALWAYS USE SAFETY GLASSES!



Safety glasses should always be worn when working around power tools. Everyday eyeglasses only have impact resistant lenses and may not prevent eye injury; they are NOT safety glasses.

ALWAYS USE RESPIRATORY PROTECTION!



Exhaust gases may be harmful if inhaled. Do not operate gas-powered equipment in enclosed spaces. Respiratory protection should be worn when operating gas powered equipment.

ALWAYS USE HEARING PROTECTION!



To reduce the possibility of hearing loss, always use hearing protection when operating equipment.

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.

DO NOT USE IN DANGEROUS ENVIRONMENTS.

Do not operate equipment in dangerous environments. Always keep the work area well lighted.

KEEP CHILDREN AWAY.

All visitors and children should be kept a safe distance from work area.

MAKE 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.

USE THE RIGHT TOOL.

Do not force a tool or an attachment, to do a job that it was not designed to do.

WEAR 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.

SAFETY

DO NOT OVERREACH.

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

MAINTAIN TOOLS WITH CARE.

Keep tools sharp and clean for the best and safest performance. Always follow maintenance instructions for lubricating and when changing accessories.

SHUTDOWN TOOL.

The saw should always be shutdown before servicing or when changing accessories such as blades, bits, cutters, and the like.

USE RECOMMENDED ACCESSORIES.

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury.

NEVER STAND ON THE TOOL.

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

NEVER LEAVE TOOL RUNNING 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.

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 it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts, 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.

DIRECTION OF FEED.

Always feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

⚠WARNING

Sawing and drilling generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200). 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.

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠WARNING

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

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 those dust masks that are specially designed to filter out microscopic particles.

For further information, consult the following sources:

<http://www.osha-slc.gov/sltc/silicystalline/index.html>

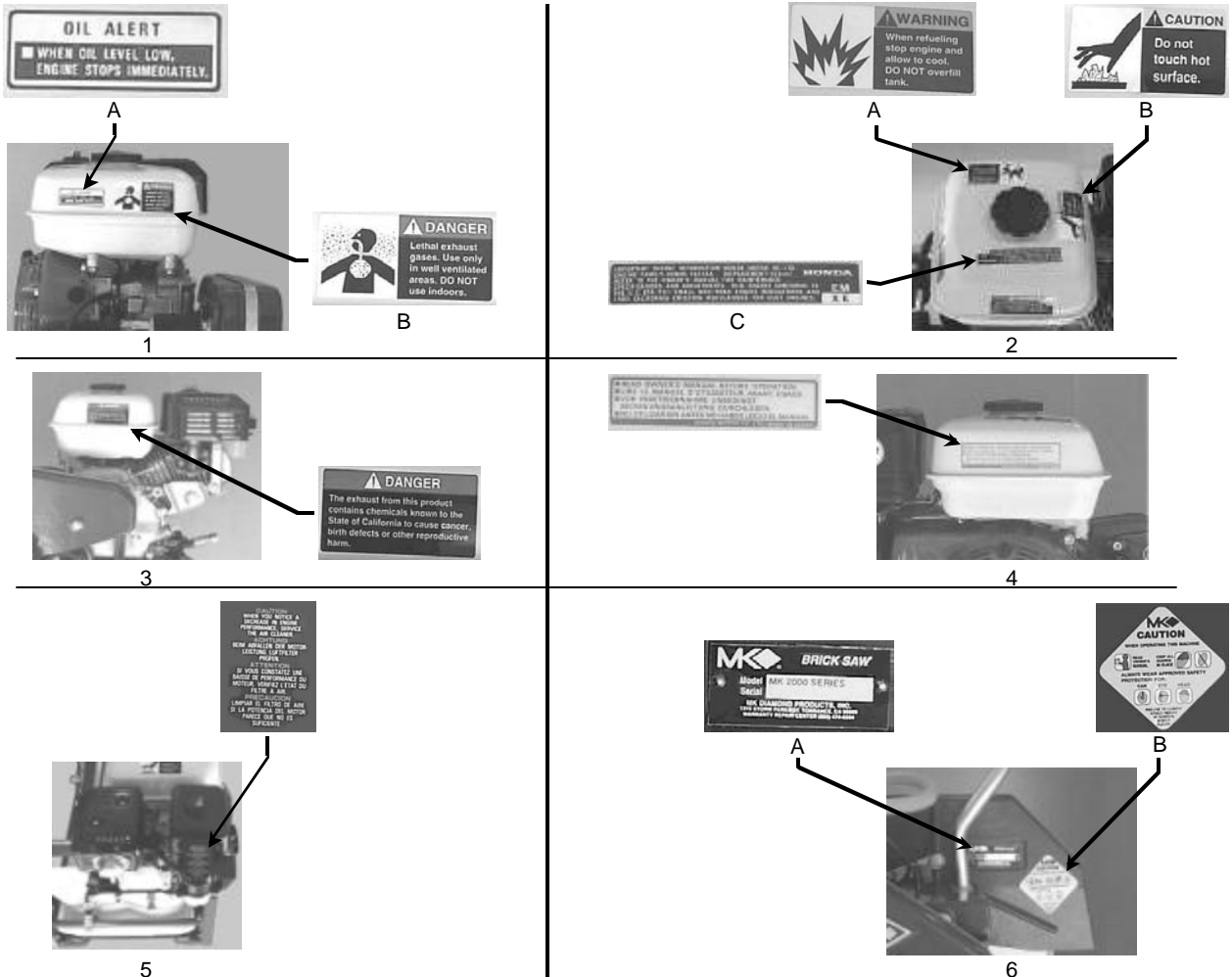
http://www.oehha.org/prop65/out_of_date/6022kLstA.html

SAFETY

SAFETY LABEL LOCATIONS:

Safety labels are located according to Figures 1 through 6 below. The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement.

Item	Location	Description	Part No.
1A	Motor-tank, front	Oil Alert	N/A
1B	Motor-tank, front	Danger-Use in Ventilated Areas	155582
2A	Motor-tank, top	Warning-Do Not Overfill	155580
2B	Motor-tank, top	Caution-Hot Surface	155578
2C	Motor-tank, top	Honda Motor Information	N/A
3	Motor-tank, right	Danger-California Exhaust Warning	155581
4	Motor-tank, left	Read Honda Owner's Manual	N/A
5	Motor-air filter	Caution-Clean Air Filter	N/A
6A	Blade Guard	Serial Number	157007
6B	Blade Guard	Caution-Operating Safety Instructions	155040



Brick Saw SPECIFIC WARNINGS:

⚠ CAUTION

- Read Owner's Manual
- Keep All Guards In Place
- Always Wear Approved Safety Protection For:

- Ear
- Eye
- Head

SAFETY

PRODUCT SPECIFICATIONS:

The MK-2005G is a versatile gas powered brick saw. Operated and used according to this manual, the MK-2005G will provide years of dependable service.

General Description:

The MK-2005G Brick Saw is engineered as a portable brick saw powered by a 5.5 horsepower, pull start, Honda gas engine. The saw is capable of cutting masonry up to five (5) inches (127 mm) in height in a single pass.

Motor Specifications:

Honda motor specifications for the MK-2005G are listed in Table 1 below.

Motor Type	4-stroke, overhead valve, single cylinder
Max Power Output	5.5 Hp
Max RPM	3,600 RPM
Fuel Tank Capacity	0.95 gallons (3.6 liters)
Engine Oil Capacity	0.63 quarts (0.6 liters)

Table 1

Blade Capacity:

The MK-2005G is designed for use with a 14-inch diameter segmented wet or dry MK Diamond blade with a .110 to .375 inch cutting width.

Masonry Types:

The MK-2005G can cut a variety of masonry types including, cinder block, slump stone block, wall brick, paver brick, concrete block and cylinders, roofing tile, marble, granite, decorative rock or almost any other non-ferrous material.

NOTE:

The MK-2005G is not designed to cut plastic or ferrous (metals) material.

Spring Assisted Cutting Head:

The MK-2005G is designed with a spring-assisted cutting head to allow for easier step cutting. The Cutting Head can be locked in the down position when cutting smaller pieces.

Shaft Operated Water Pump:

The MK-2005G has a flexible shaft, belt driven water pump supplying cooling water to the blade for wet cutting operations.

Design Size:

The MK-2005G is designed to accommodate a piece up to eighteen and one-half (18-1/2) inches (470 mm) wide, thirty (30) inches (760mm) long and seven and one-half (7-1/2) inches high.

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

UNPACKING:

Your MK-2005G has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

If not done, completely remove the plastic wrapping from the MK-2005G.

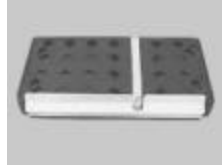
Remove the accessories box from the Water Basin and remove the contents from the box.

CONTENTS:

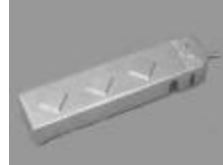
In your container, you will find one (1) MK-2005G, one (1) movable cutting table, one (1) adjustable cutting guide, one (1) drain plug, one (1) blade wrench, one (1) owner's manual, one (1) Honda owner's manual and one (1) warranty card.



MK-2005G



Movable
Cutting Table



Adjustable
Cutting Guide



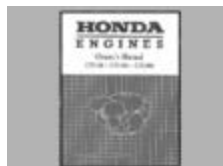
Drain Plug



Blade
Wrench



Owner's Manual



Honda
Owner's Manual



Warranty
Card

TRANSPORT:

The MK-2005G weighs approximately 200 pounds; two people should be used when transporting the saw.

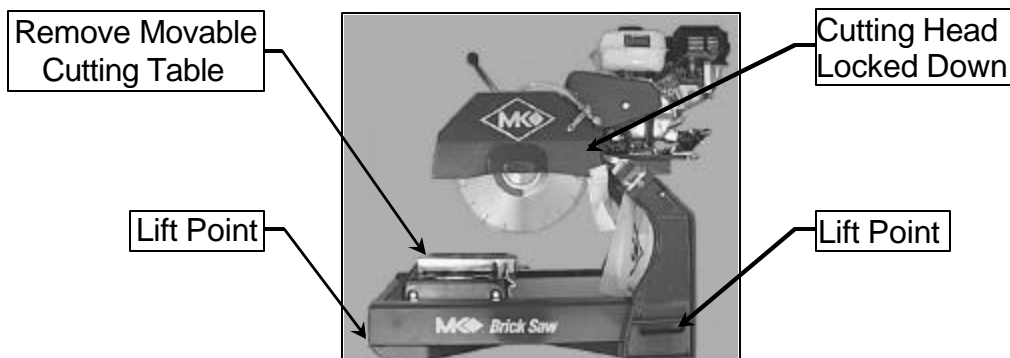
- CAUTION**
1. Never transport the MK-2005G with water in the Cooling Basin.
 2. The MK-2005G, Brick Saw weighs approximately 200 pounds; two people are required when lifting or moving.

NOTE: Lock the Cutting Head in the DOWN position, and remove the Movable Cutting Table when transporting the MK-2005G.

The MK-2005G is designed with recessed handles in the right and left upright castings for ease of transport.

To transport –

- Verify the Movable Cutting Head is locked in the down position and the Movable Cutting Table is removed
- Grasp the saw by the recessed handle in the right and left upright castings
- Grasp the front of the saw
- Lift and transport the saw to the desired work location



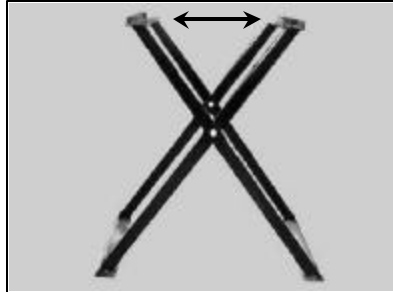
UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

UNIVERSAL STAND:

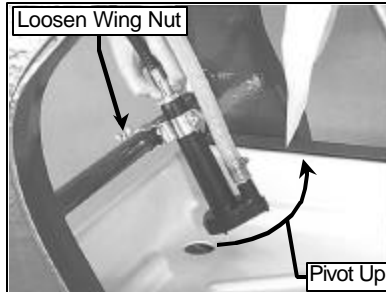
Note: If using the MK Diamond, Universal Stand, perform the following steps.

1. Preparing to Seat Saw:

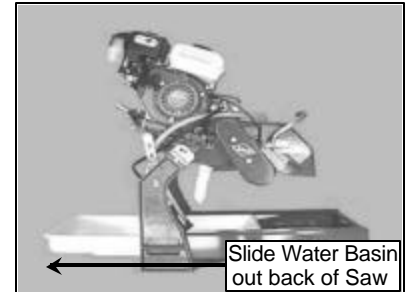
CAUTION The MK-2000, Brick Saw weighs approximately 200 pounds; two people are required when lifting or moving.



(A)
Open the Universal Stand
and place on flat surface

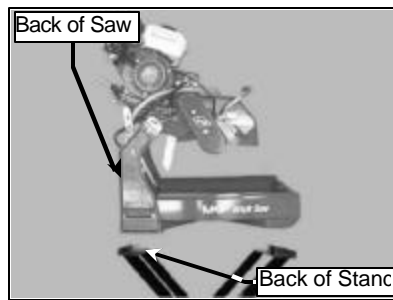


(B)
Position Water Pump
clear of Water Basin

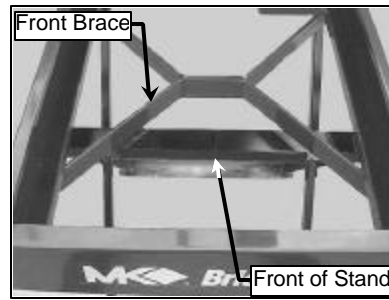


(C)
Remove Water Basin

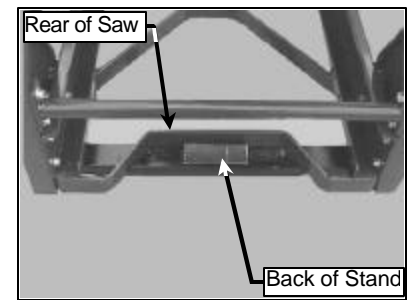
2. Seating the Saw:



(A)
Orient the Saw
to the Stand

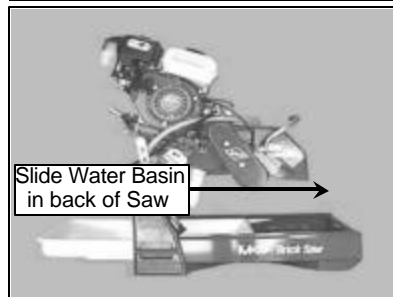


(B)
Seat front of Saw
on the front of the Stand



(C)
Seat rear of Saw
on the back of the Stand

3. Final:



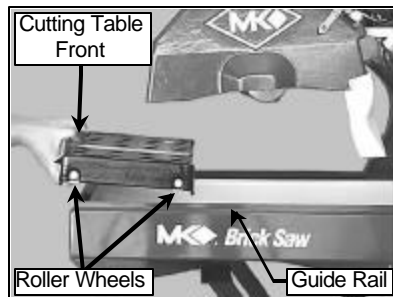
(C)
Reinstall Water Basin

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

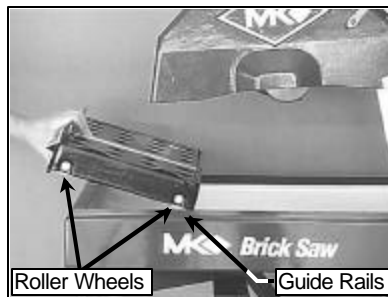
ASSEMBLY:

Follow the assembly instructions in this section to prepare your MK-2005G for operation.

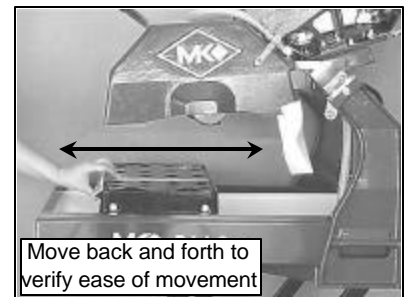
1. Movable Cutting Table Installation:



(A)
Position Movable Cutting Table Roller Wheels above Saw Guide Rails



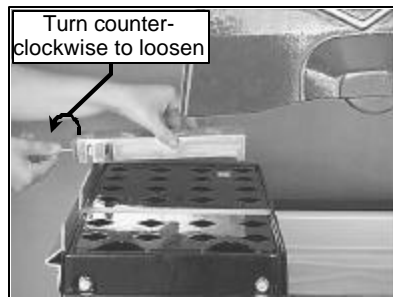
(B)
Seat Movable Cutting Table Roller Wheels on Saw Guide Rails



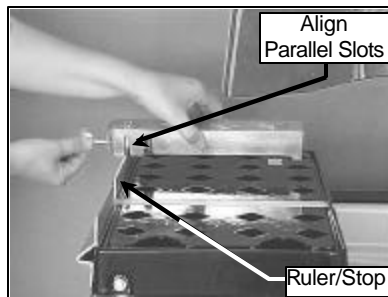
(C)
Verify Movable Cutting Table is seated correctly

2. Adjustable Cutting Guide Installation:

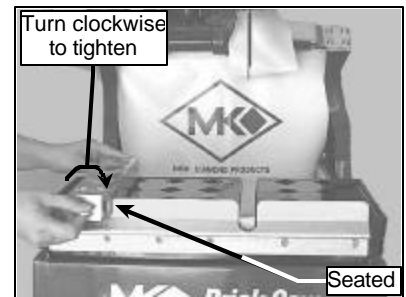
NOTE: The Adjustable Cutting Guide can be used on either side of the Diamond Blade.



(A)
Loosen Adjustable Cutting Guide retaining thumbscrew



(B)
Position Adjustable Cutting Guide above Movable Cutting Table



(C)
Seat and tighten the Adjustable Cutting Guide retaining thumbscrew

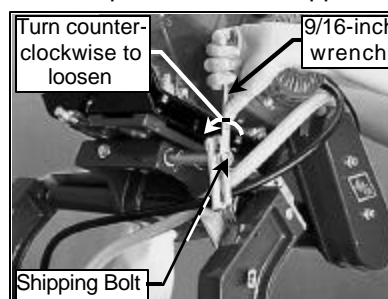
3. Releasing Cutting Head:

CAUTION The following actions will cause the Cutting Head to rotate upward, hold the saw by the handle and control the upward movement.

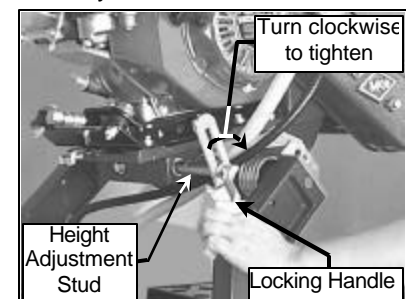
NOTE: The Cutting Head is locked in the down position when shipped from the factory.



(A)
Remove Cutting Head Locking Handle from shipping location discard the Shipping Nut



(B)
Remove Shipping Bolt from the Cutting Head – discard Shipping Bolt

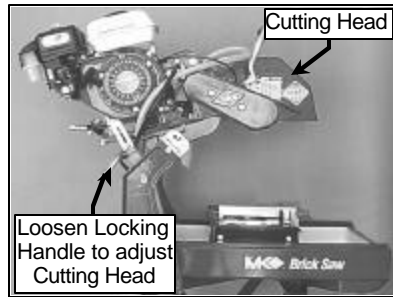


(C)
Install Cutting Head Locking Handle into Height Adjustment Stud

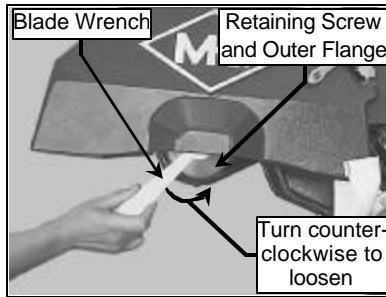
UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

4. Diamond Blade Installation:

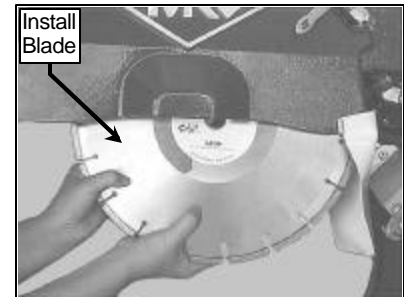
NOTE: When installing the diamond blade retaining-bolt, ensure the threads of the bolt are aligned with the threads of the drive shaft so as not to "cross-thread" the bolt.



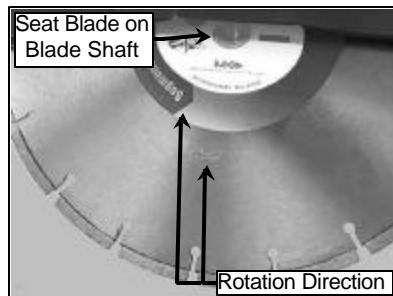
(A)
Raise Cutting Head



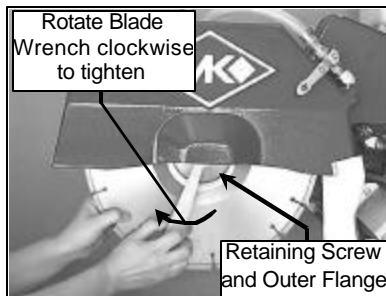
(B)
Identify and remove Retaining Screw and Outer Flange



(C)
Install Diamond Blade onto Blade Shaft



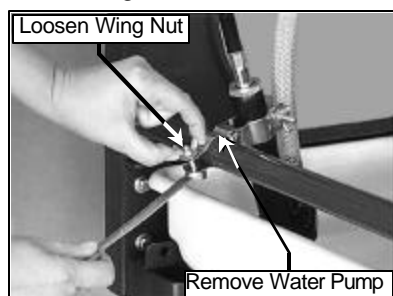
(D)
Verify Blade is seated on Blade Shaft in correct rotation direction



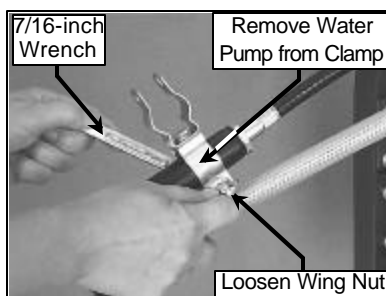
(E)
Install Retaining Screw and Outer Flange then tighten

5. Water Pump Installation:

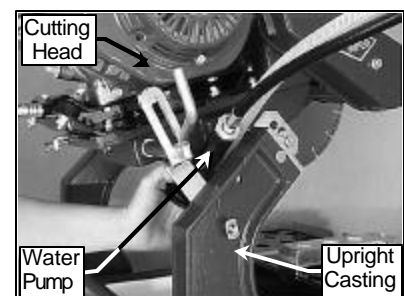
NOTE: The Belt Driven, Flexible Shaft Water Pump is locked in the shipping position from the factory. It will need to be removed from between the left Upright Casting and the Cutting Head to allow free movement of the Cutting Head.



(A)
Loosen and remove Water Pump adjustment clamp, wing nut and bolt

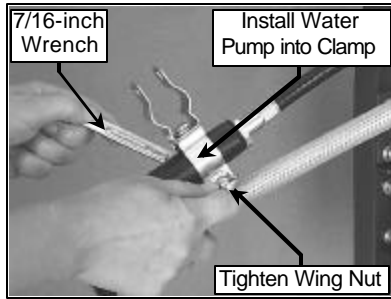


(B)
Loosen and remove Water Pump retaining clamp, wing nut and bolt

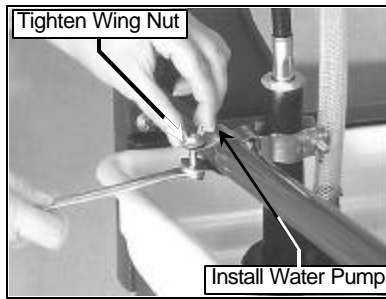


(C)
Remove Water Pump Assembly from between left Upright Casting and Cutting Head

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY



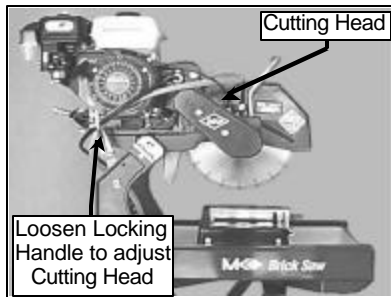
(D)
Install Water Pump retaining clamp, wing nut and bolt



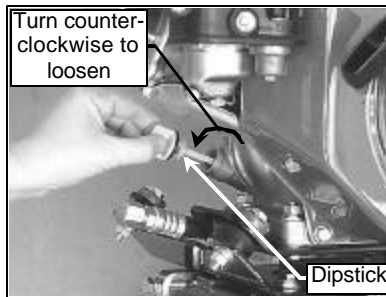
(E)
Install Water Pump adjustment clamp, wing nut and bolt

6. Filling Oil Reservoir:

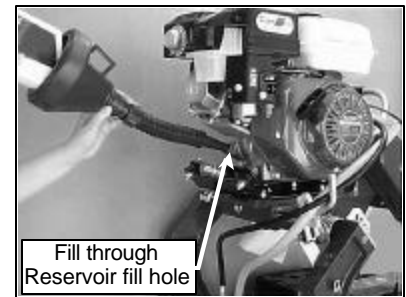
NOTE: SAE 10W-30 is recommended for general use in temperatures of -4°F (20°C) and above. If you are operating outside of this range, consult the chart in this manual.
Engine Oil Capacity is 0.63 US qt (0.6).



(A)
Level Cutting Head

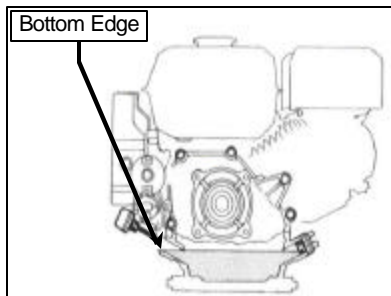


(B)
Remove Dipstick

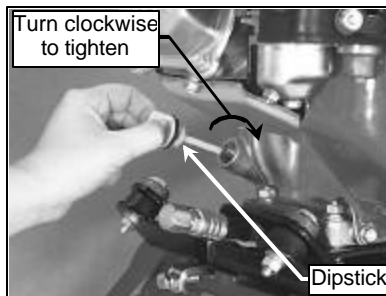


(C)
Fill Oil Reservoir

NOTE: When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to "cross-thread" the dipstick.



(D)
Add Oil until level reaches the bottom edge of fill hole



(E)
Install Dipstick



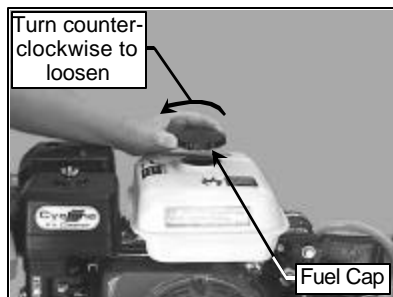
(F)
Clean Up

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

7. 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, barbecues, electric appliances, power tools, etc.
 5. Wipe up spills immediately.

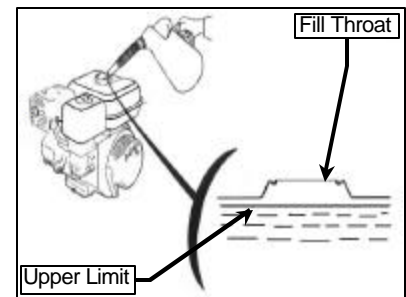
- NOTES:**
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
 2. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.
 3. If using the Universal Stand with the MK-2005G, a ladder meeting OSHA specification is recommended.
 4. Use unleaded gasoline with a pump octane rating of 86 or higher.



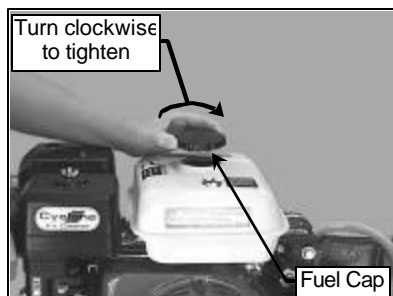
(A)
Remove Fuel Cap



(B)
Fill Fuel Tank



(C)
Verify fuel level is below
the throat of the Fuel Tank



(D)
Install Fuel Cap

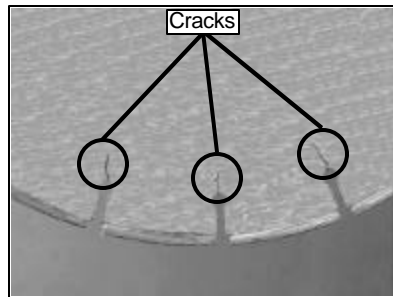
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

SETUP:

1. Pre-start Inspection:

The pre-start inspection should be performed before beginning any job.

CAUTION If the Diamond Blade shows signs of fatigue cracking, replace the blade before starting work.



(A)

Inspect Blade for damage –
Verify Blade correct for material
being cut



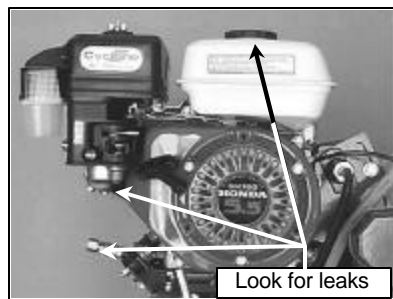
(B)

Inspect Wooden Strip for
excessive grooves



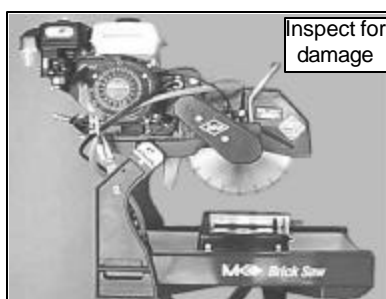
(C)

Verify Movable Cutting Table
moves freely



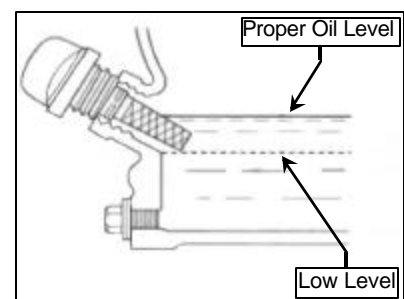
(D)

Inspect Engine for leaks



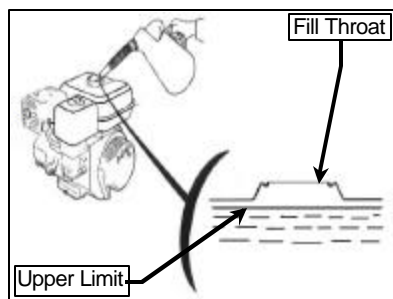
(E)

Inspect MK-2005G for general
damage, loose connections
and hardware



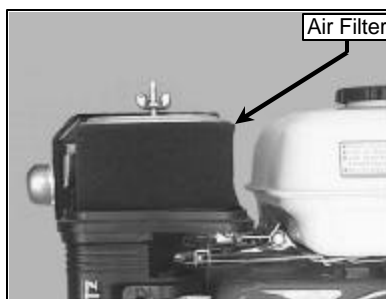
(F)

Check for proper oil level
(See Maintenance section if low)



(G)

Check for proper fuel level
(See Maintenance section if low)



(H)

Check Air Filter for cleanliness
(See Maintenance section
if dirty)

SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

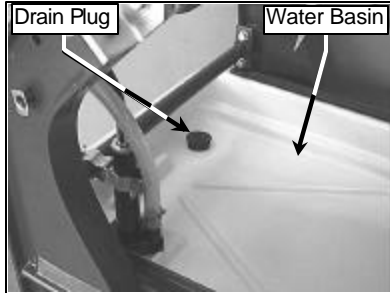
2. Water Pump Setup:

The Water Pump can be setup in three ways, External Water Source, Re-circulation or Un-coupled for dry blade operation.

NOTE: To extend the life of the Diamond Blade and Water Pump, MK Diamond recommends a clean cooling water source when using a Wet Diamond Blade.

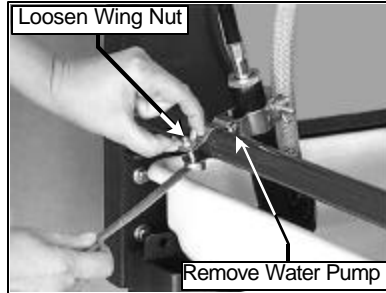
I. External Water Source:

This is the preferred method of cooling when using a "wet" diamond blade.



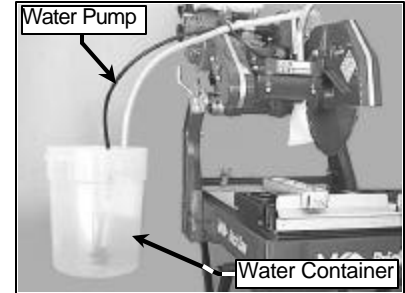
(A)

Verify Water Basin is inserted into the MK-2005G and remove the Drain Plug



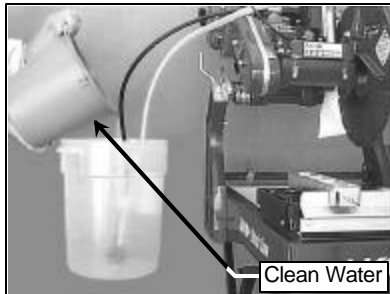
(B)

Loosen and remove Water Pump adjustment clamp, wing nut and bolt



(C)

Place the Water Pump Assembly into an External Water Source Container

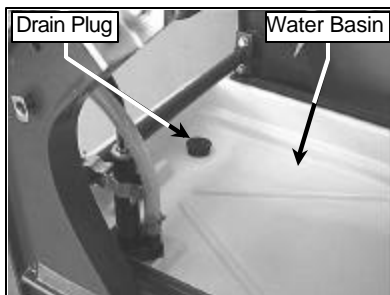


(D)

Fill the External Water Source Container and place a Catch Basin below the Drain Hole

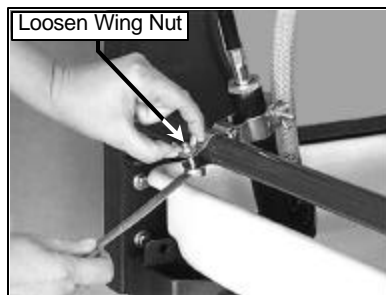
II. Re-circulation:

NOTE: 1. Water Pump could interfere with masonry being cut.
2. Water should be periodically replaced when using this method.



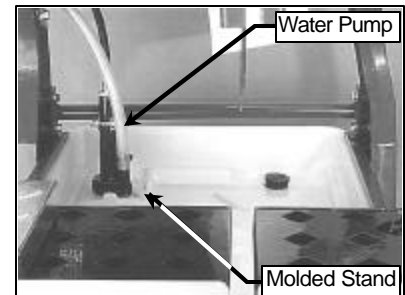
(A)

Verify Water Basin is inserted into the MK-2005G and install the Drain Plug



(B)

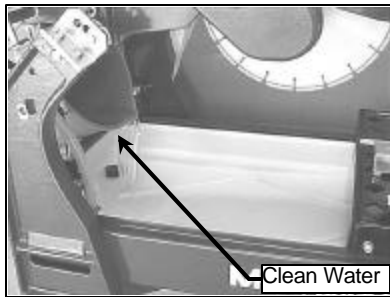
Loosen Water Pump adjustment clamp wing nut and bolt



(C)

Place Water Pump on Pump Stand molded into Water Basin

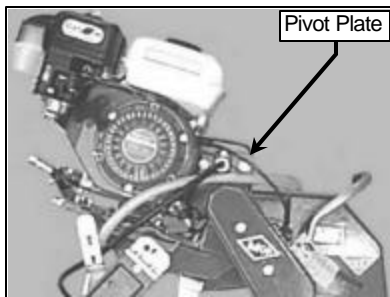
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



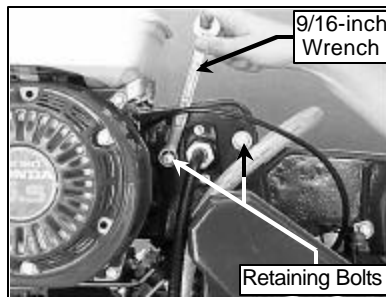
(D)
Fill the Water Basin
with clean water

III. Dry Blade Operation:

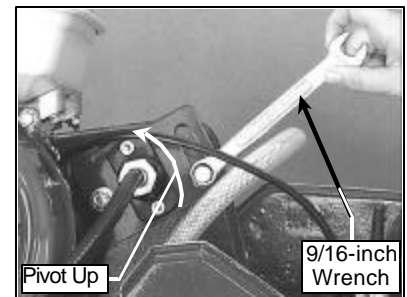
NOTE: Failure to perform the following steps will lead to premature pump failure.



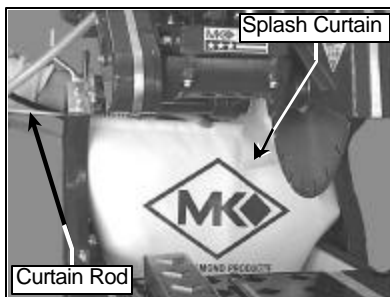
(A)
Identify Water Pump Drive
End Pivot Plate



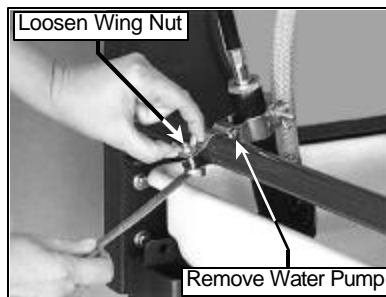
(B)
Loosen Water Pump Drive End
Pivot Plate front and rear
retaining bolts



(C)
Pivot front of Water Pump Drive
End Pivot Plate up and tighten
the retaining bolts



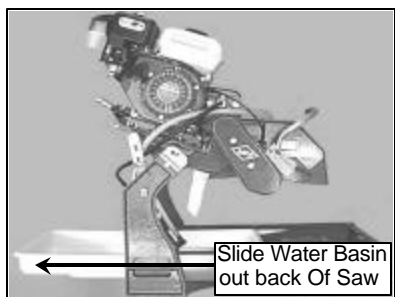
(D)
Remove the Splash Curtain



(E)
Loosen and remove Water
Pump adjustment clamp,
wing nut and bolt



(F)
Move Water Pump Assembly
to the outside of the
Water Basin



(G)
Remove Water Basin

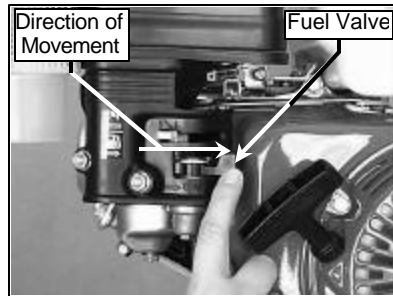
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

STARTUP:

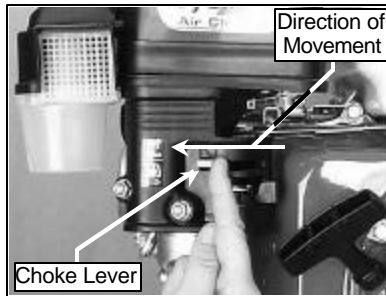
1. Engine Start:

- ⚠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.

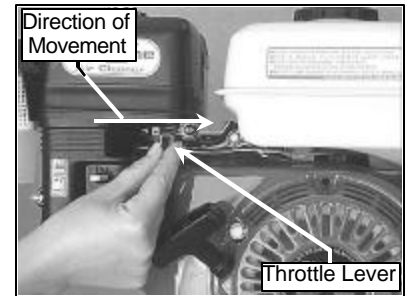
NOTE: If restarting a warm engine leave the Choke Lever in the OPEN position.



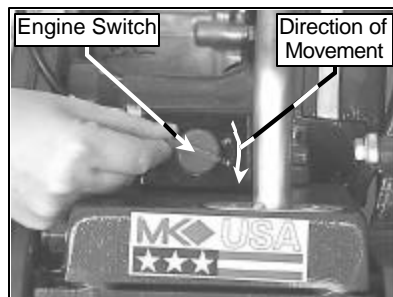
(A)
Place Fuel Valve in the ON position



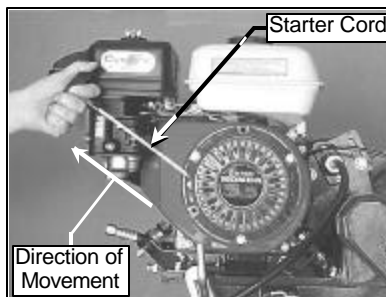
(B)
Place Choke Lever in the CLOSED position



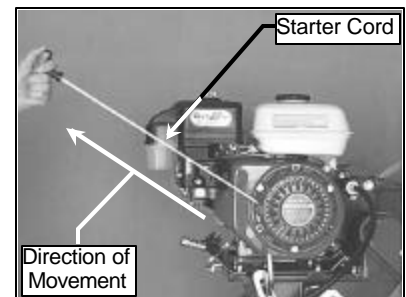
(C)
Move the Throttle Lever to 1/3rd Open



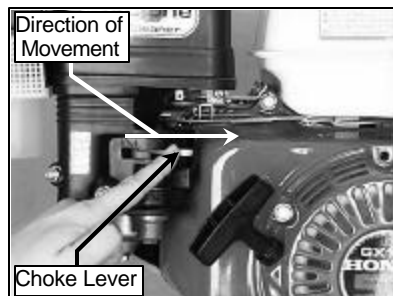
(D)
Place Engine Switch in the ON position



(E)
Pull Starter Cord slowly, until slack is removed and resistance is felt



(F)
Pull Starter Cord straight back in a smooth fast motion



(G)
Place Choke Lever in the OPEN position when engine is warm

SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

ADJUSTMENT AND OPERATION:

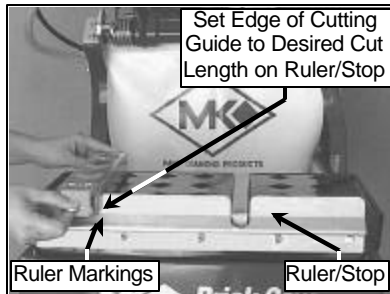
- NOTE: 1. Step Cutting is the preferred cutting method for all cuts.
2. When cutting hard material Step Cutting should always be used.
3. Step Cutting will extend the life of the Diamond Blade.

1. Step Cuts:

A Step Cut is performed when a series of small cuts of increasing depth are used to complete a single cut. Step Cuts are used for large objects or for hard objects such as Firebrick and Pavers.

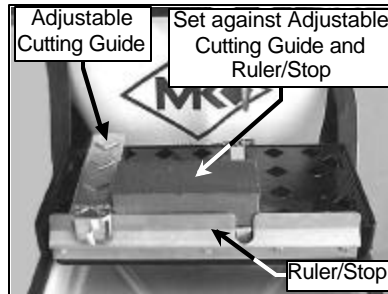
CAUTION DO NOT FORCE TOOL, it will do the job better and safer at the rate for which it was designed.

Note: Skip steps C and D, if cutting dry.



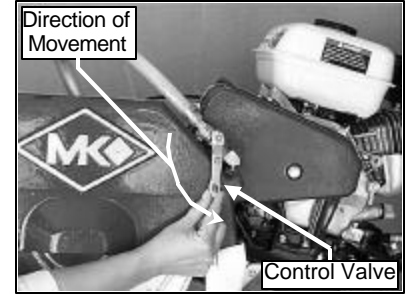
(A)

Set the Adjustable Cutting Guide



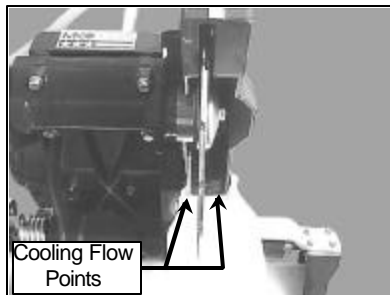
(B)

Position the masonry piece



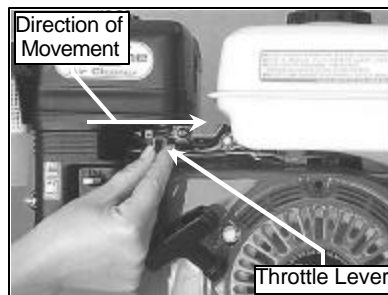
(C)

Open the Cooling Flow Control Valve and adjust flow



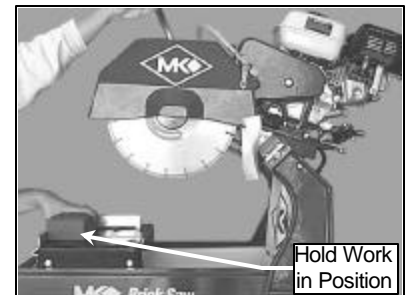
(D)

Verify cooling flow exists on both sides of the blade



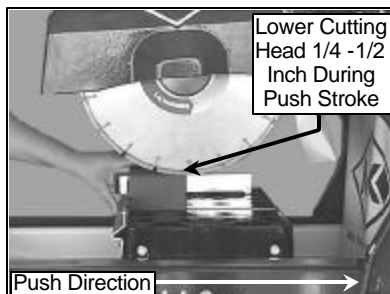
(E)

Move the Throttle Lever to adjust blade speed (faster blade speed for smoother cuts)



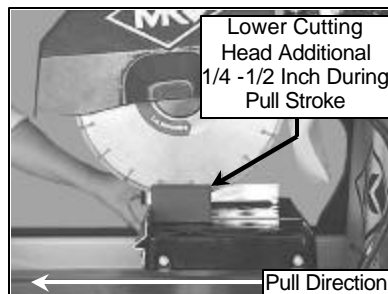
(F)

Setup to Cut



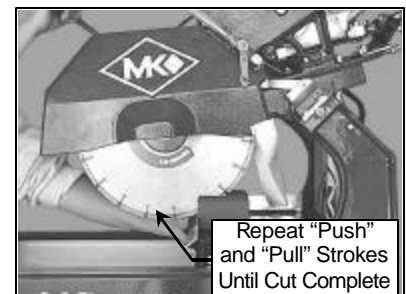
(G)

Step Cut "Push" stroke



(H)

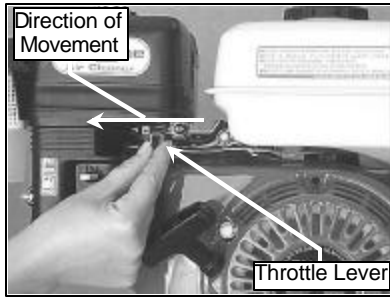
Step Cut "Pull" stroke



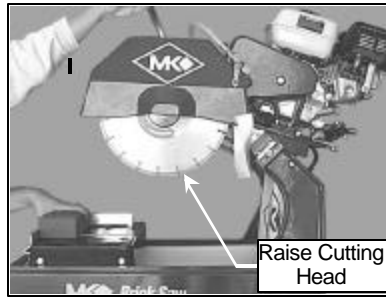
(I)

Repeat steps G and H until cutting is complete

SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



(K)
Move the Throttle Lever to lower blade speed



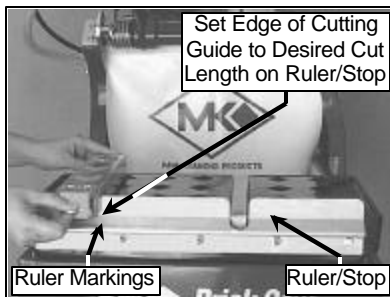
(J)
Raise Cutting Head once cut is complete

2. Chop Cutting:

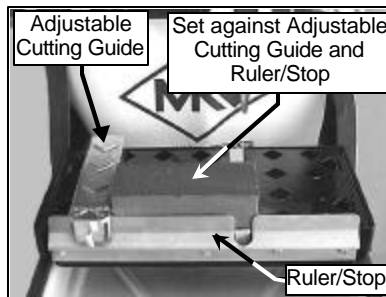
A Chop Cut is performed by cutting completely through an object in one pass.

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

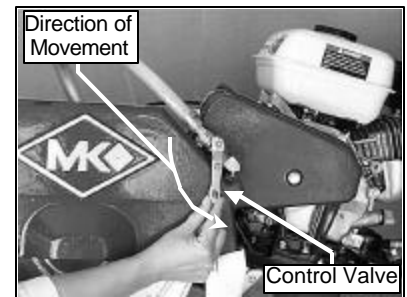
Note: Skip steps C and D, if cutting dry.



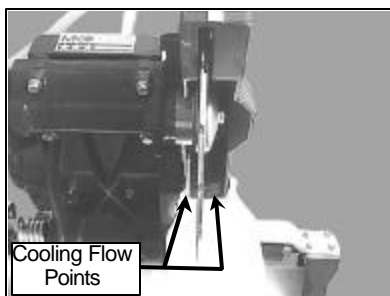
(A)
Set the Adjustable Cutting Guide



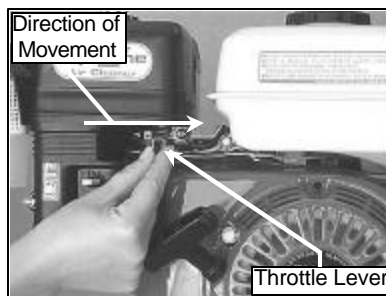
(B)
Position the masonry piece



(C)
Open the Cooling Flow Control Valve and adjust flow



(D)
Verify cooling flow exists on both sides of the blade

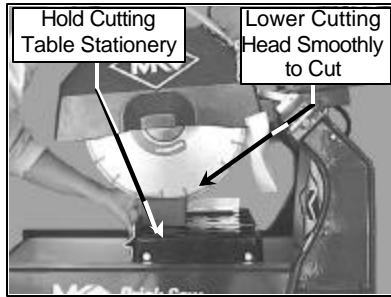


(E)
Move the Throttle Lever to adjust blade speed (faster blade speed for smoother cuts)



(F)
Setup to Cut

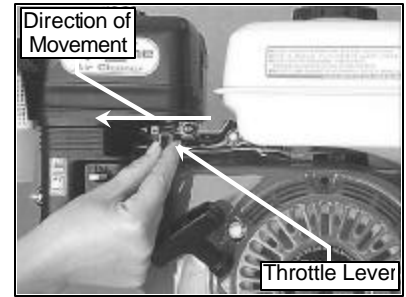
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



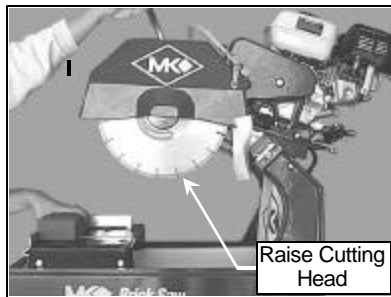
(G)
Lower Cutting Head to begin the cut



(H)
Continue lowering the Cutting Head until the cut is complete



(J)
Move the Throttle Lever to lower blade speed



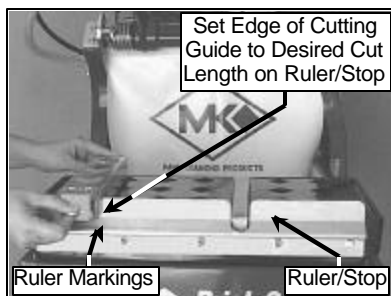
(J)
Raise Cutting Head once cut is complete

3. Cutting with the Cutting Head Locked Down:

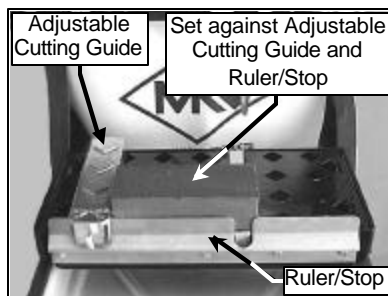
This method is preferred when cutting small objects.

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

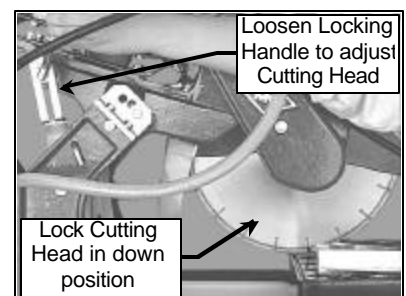
Note: Skip steps D and E, if cutting dry.



(A)
Set the Adjustable Cutting Guide

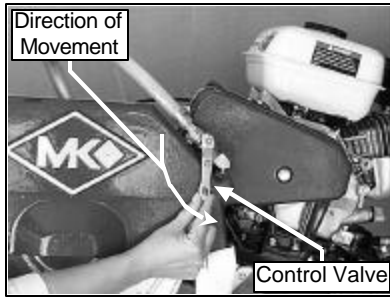


(B)
Position the masonry piece

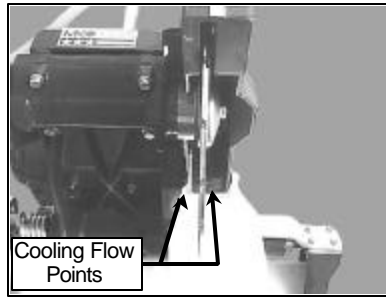


(C)
Lock Cutting Head in the down position

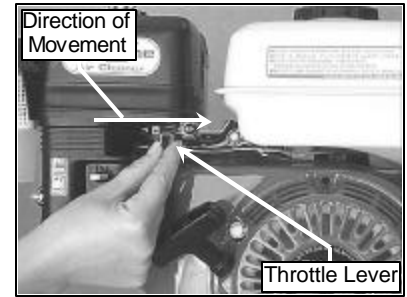
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



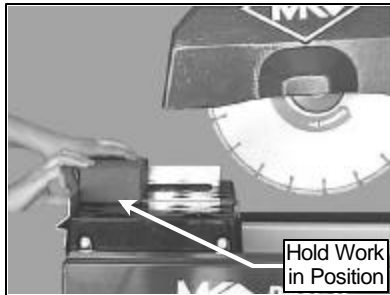
(D)
Open the Cooling Flow Control Valve and adjust flow



(E)
Verify cooling flow exists on both sides of the blade



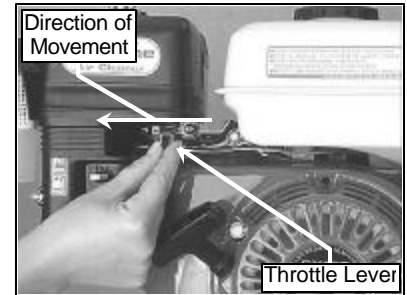
(F)
Move the Throttle Lever to adjust blade speed (faster blade speed for smoother cuts)



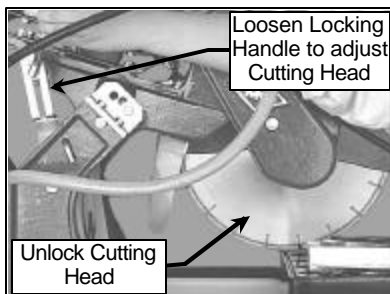
(G)
Setup to Cut



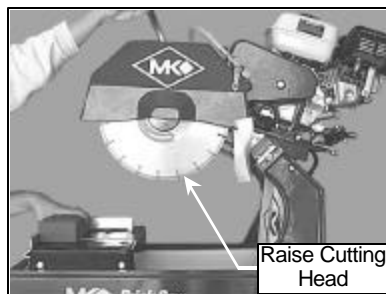
(H)
Slowly push piece toward the blade – continue until the cut is complete



(I)
Move the Throttle Lever to lower blade speed



(J)
Unlock Cutting Head



(K)
Raise Cutting Head once cut is complete

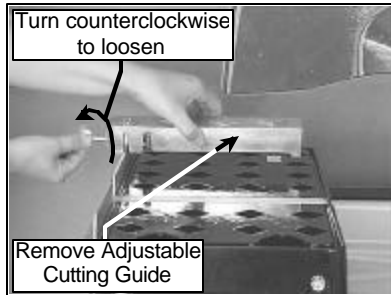
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

4. Angle Cuts:

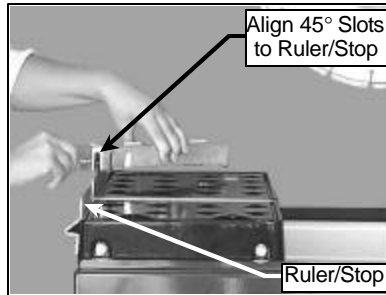
Angle Cuts may be performed using the Step Cut, Chop Cut or the Locked Cutting Head cutting methods. The following is utilizing the Locked Cutting Head method.

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

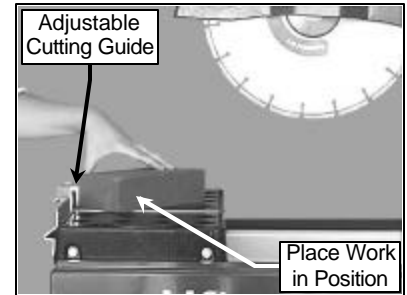
NOTE: Care must be used when cutting angles so as not to damage the Adjustable Cutting Guide. Skip steps F and G, if cutting dry.



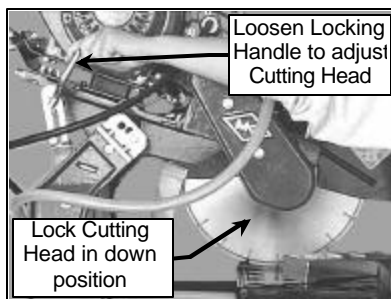
(A)
Remove Adjustable Cutting Guide



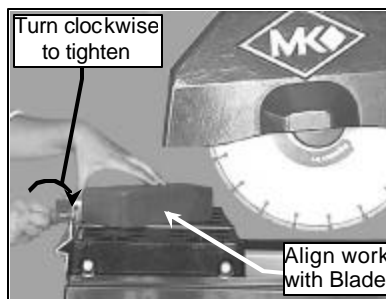
(B)
Reposition Adjustable Cutting Guide



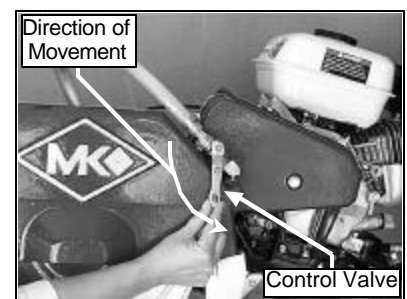
(C)
Position masonry piece against the Adjustable Cutting Guide



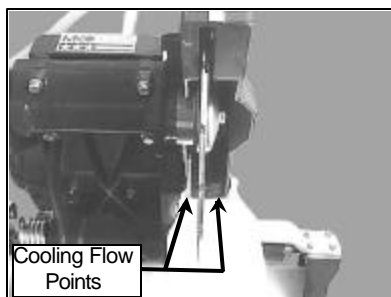
(D)
Lock Cutting Head in the down position



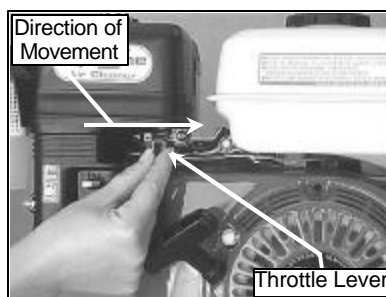
(E)
Position Adjustable Cutting Guide and masonry piece to required cut position



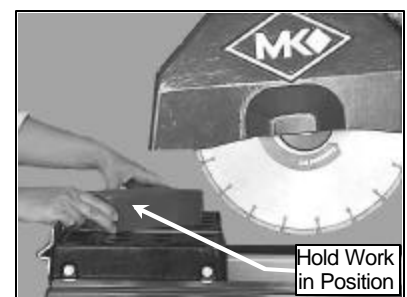
(F)
Open the Cooling Flow Control Valve and adjust flow



(G)
Verify cooling flow exists on both sides of the blade

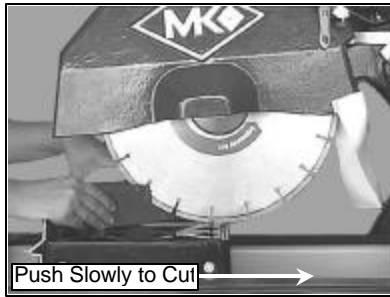


(H)
Move the Throttle Lever to adjust blade speed (faster blade speed for smoother cuts)

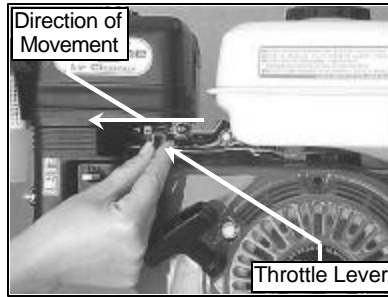


(I)
Setup to Cut

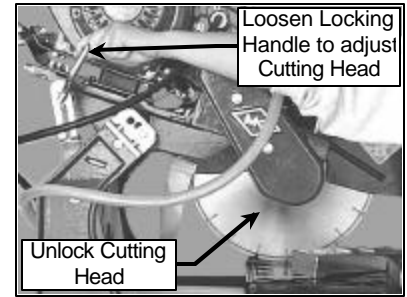
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



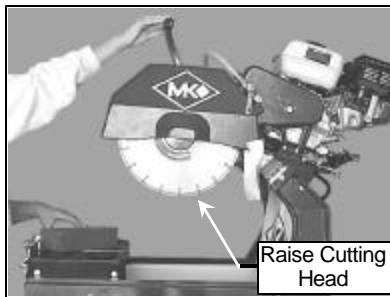
(J)
Slowly push piece toward the blade – continue until the cut is complete



(K)
Move the Throttle Lever to lower blade speed



(L)
Unlock Cutting Head

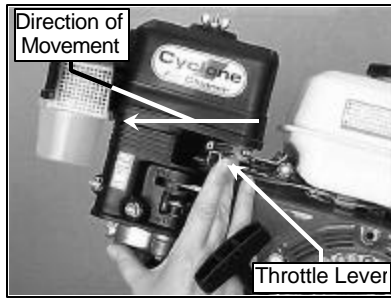


(M)
Raise Cutting Head once cut is complete

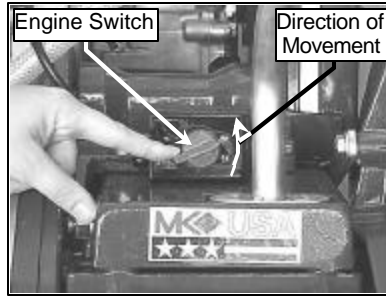
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

SHUTDOWN:

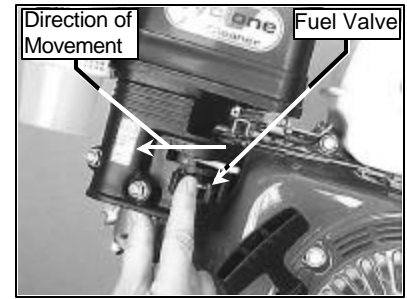
1. Normal Engine Shutdown:



(A)
Move the Throttle Lever to lower blade speed

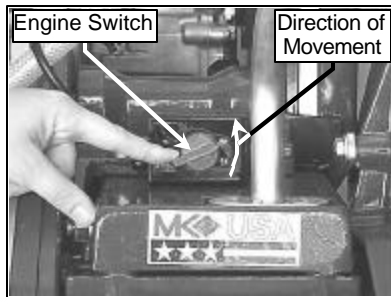


(B)
Place Engine Switch in the OFF position

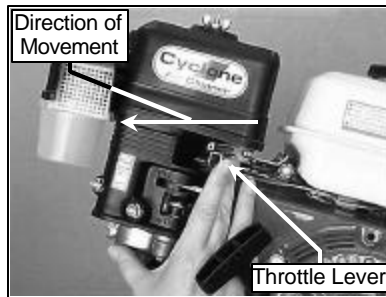


(C)
Place Fuel Valve in the OFF position

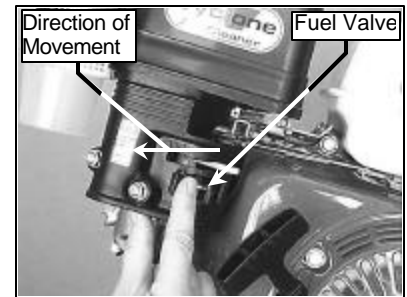
2. Emergency Engine Shutdown:



(A)
Place Engine Switch in the OFF position



(B)
Move the Throttle Lever to lower blade speed

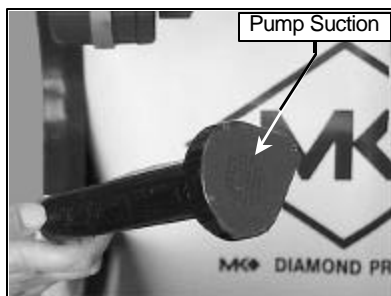


(C)
Place Fuel Valve in the OFF position

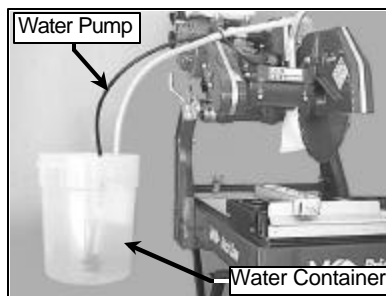
3. Cleanup:

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

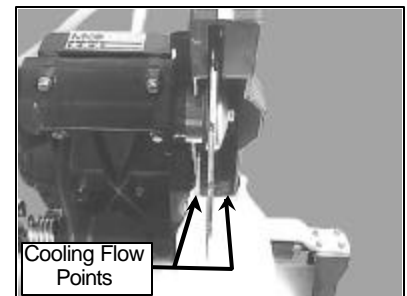
NOTE: If a clean external water source was used, steps A to C may be skipped.



(A)
Clean Water Pump suction of all debris

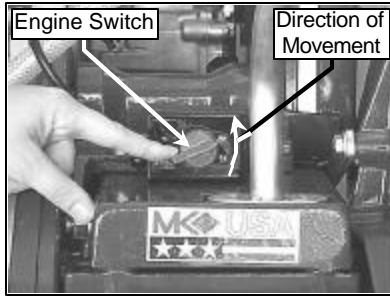


(B)
Place Water Pump in a container of clean water

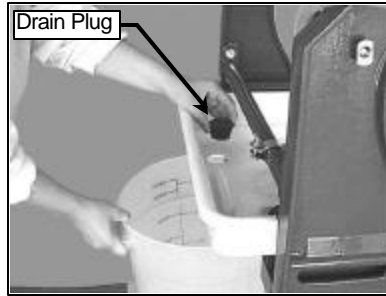


(C)
Run MK-2005G until clear water is seen at blade cooling ports (Approx. 1 minute)

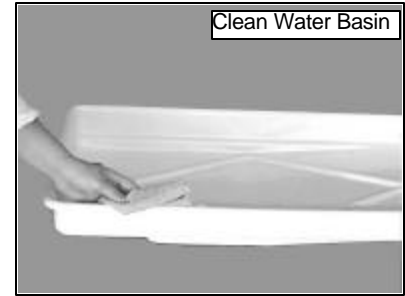
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



(D)
Place Engine Switch
in the OFF position

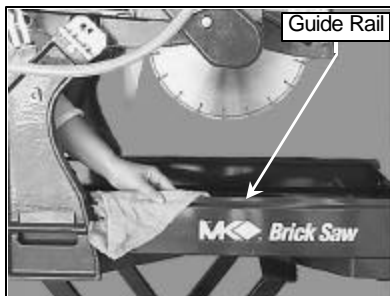


(E)
Remove Drain Plug and dispose
of water (conform to Federal,
State and local laws for disposal)



(F)
Clean Water Basin with soap
and clean water

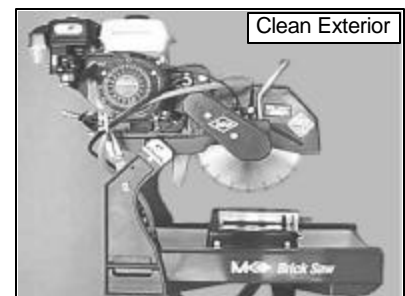
- NOTE: 1. To extend operating life, the MK-2005G should be cleaned following every use.
2. Using a garden hose or pressure washer can force water into the air cleaner or muffler opening.
3. Use care when cleaning around electrical components.



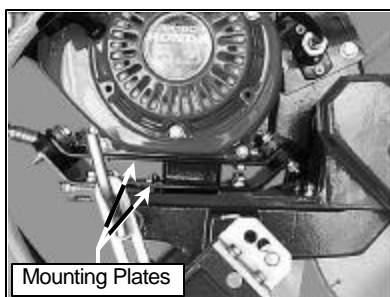
(G)
Clean Movable Cutting Table
Guide Rails with soap and
clean water



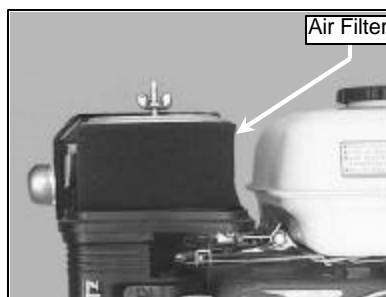
(H)
Clean Movable Cutting Table
Roller Wheels



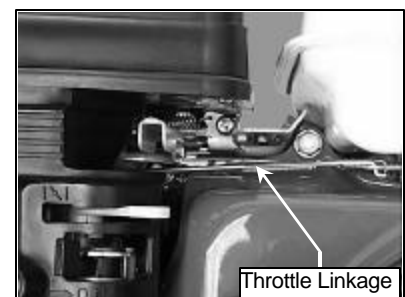
(I)
Clean exterior surface of
MK-2005G (except engine)
with soap and clean water



(J)
Clean between engine
mounting plates



(K)
Clean Air Filter
(See Maintenance section)



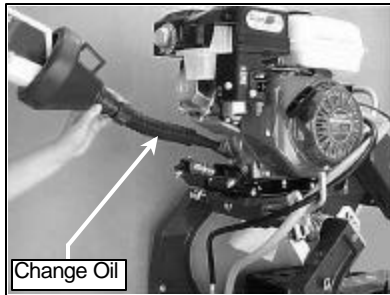
(L)
Clean engine throttle linkage
with a dry cloth

MAINTENANCE AND TROUBLESHOOTING

MAINTENANCE:

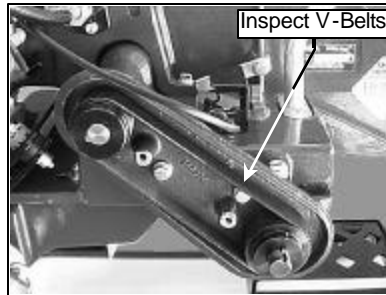
1. New Maintenance:

Perform the following after initial purchase and operation of the MK-2005G.



(A)

Change engine oil after 1st month or 1st 20 operating hours
(See Engine Oil Change)

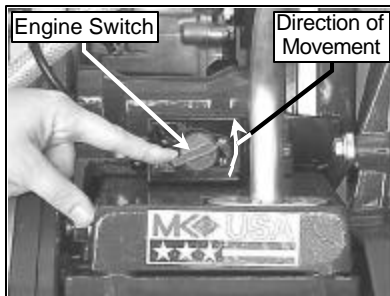


(B)

Check and adjust V-belt tension
Following 1st 48 hours of operation
See V-belt Inspection

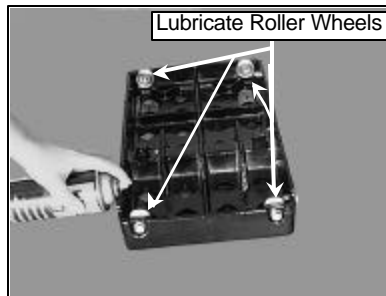
2. Maintenance Following Use:

To extend the life of the MK-2005G, the following procedure should be performed after each use. Lubricate all points listed below with light oil such as, 3 in 1, WD-40, etc.



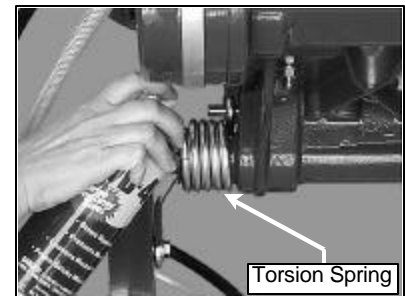
(A)

Place Engine Switch
in the OFF position



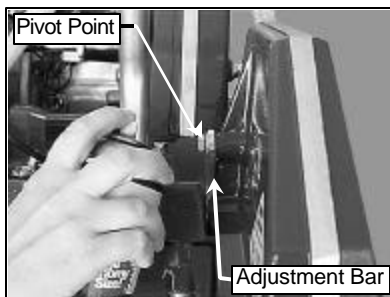
(B)

Lubricate the Movable Cutting
Table Roller Wheels



(C)

Lubricate Torsion Spring



(D)

Lubricate Blade Guard Pivot
Points and Adjustment Bar



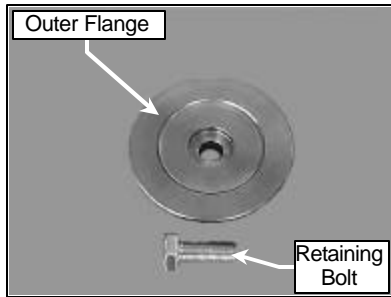
(E)

Lubricate engine throttle linkage

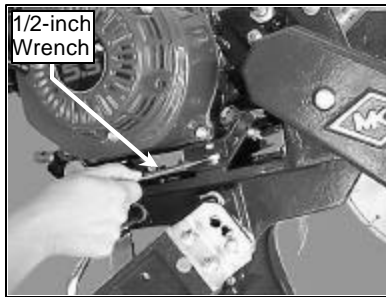
MAINTENANCE AND TROUBLESHOOTING

3. Monthly Maintenance:

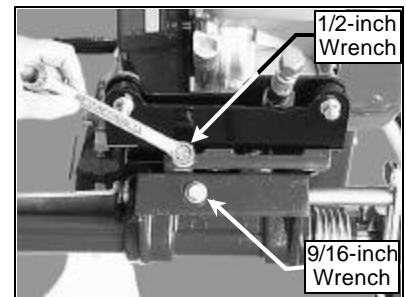
The following should be performed monthly. Items should be lubricated as directed.



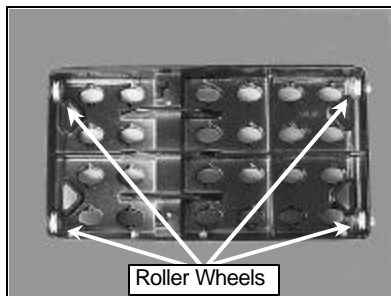
(A)
Remove and clean Diamond
Blade Outer Flange and
Retaining Bolt



(B)
Verify all engine mounting
bolts are tight



(C)
Verify engine Adjustment
Straps are tight



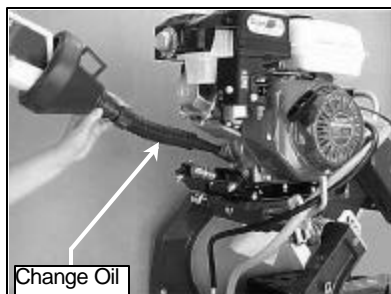
(D)
Check Movable Cutting Table
Roller Wheels for wear



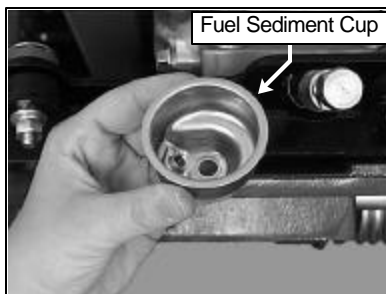
(E)
Clean engine Air Filter
(See Engine Air Filter Inspection
Cleaning and Replacement)

4. Six (6) Month Maintenance:

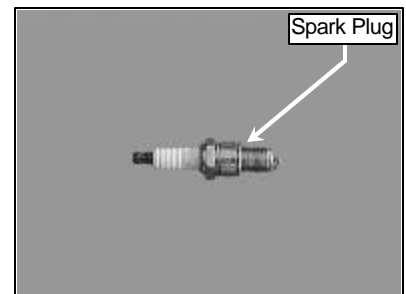
Perform the following maintenance every six months.



(A)
Change engine oil
(See Engine Oil Change)



(B)
Clean Fuel Sediment Cup
(See Fuel Sediment
Cup Cleaning)



(C)
Clean and Readjust engine
Spark Plug (See Spark Plug
Adjustment and Replacement)

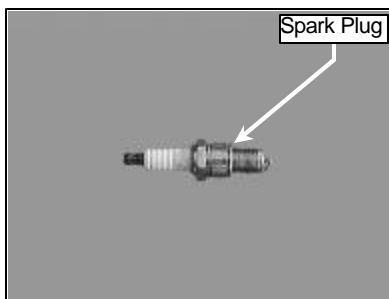
MAINTENANCE AND TROUBLESHOOTING

5. Yearly Maintenance:

Perform the following maintenance every year.



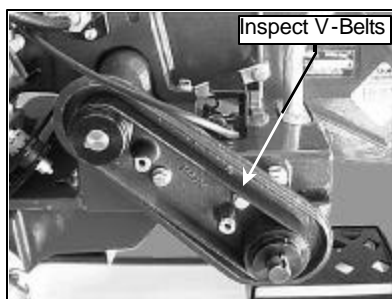
(A)
Replace engine Air Filter
(See Engine Air Filter Inspection
Cleaning and Replacement)



(B)
Replace Spark Plug
(See Spark Plug
Adjustment and Replacement)



(C)
Check/Adjust Idle Speed
Check/Adjust Valve Clearance
(Shop Maintenance Required)



(D)
Inspect V-belts
(See V-Belt Inspection,
Adjustment and Replacement)

6. Two Year Maintenance:



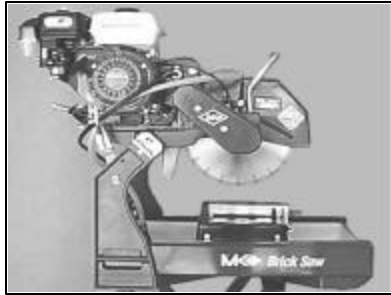
(A)
Check Fuel Line
(Shop Maintenance Required)

MAINTENANCE AND TROUBLESHOOTING

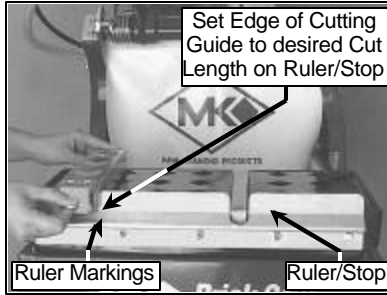
7. Blade Dressing:

Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge will become smoothed or “glazed” over. This will reduce grinding efficiency and may cause the blade to “wander” or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part number 152792) and by following the steps below.

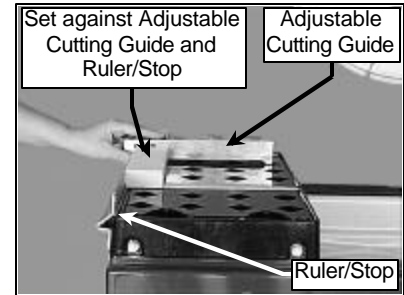
NOTE: Skip Steps D and E if cutting dry.



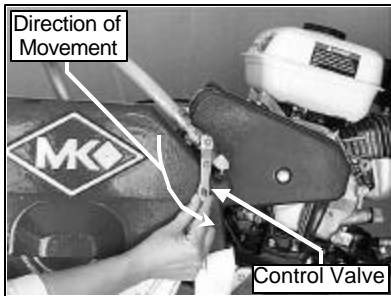
(A)
Setup MK-2005G for operation
(See Setup, Startup, Adjustment
Operation and Shutdown)



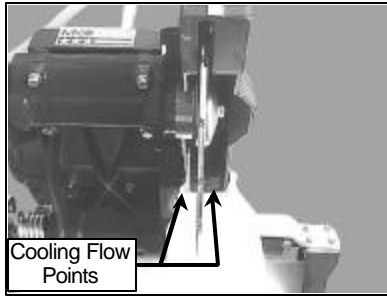
(B)
Set the Adjustable Cutting Guide
to cut 1/16-inch strips



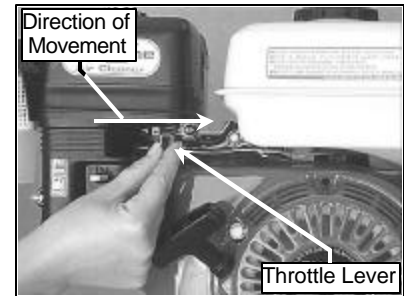
(C)
Position the Dressing Stick



(D)
Open the Cooling Flow Control
Valve and adjust flow



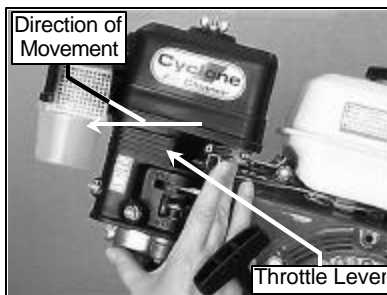
(E)
Verify cooling flow exists on
both sides of the blade



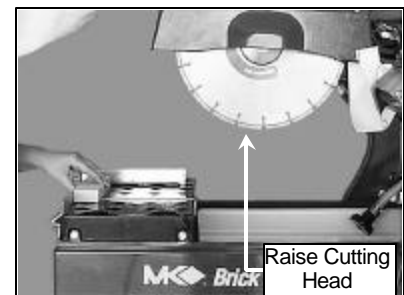
(E)
Move the Throttle Lever to
adjust blade speed (faster blade
speed for smoother cuts)



(F)
Cut the Dressing Stick 7 or 8
times to dress the Blade



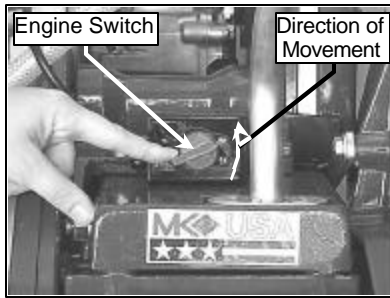
(G)
Move the Throttle Lever to lower
blade speed



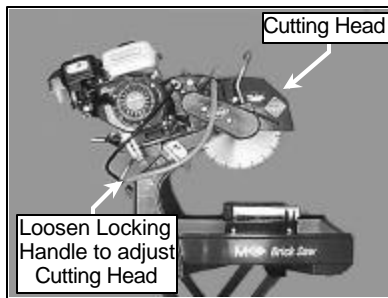
(H)
Raise Cutting Head once
cut is complete

MAINTENANCE AND TROUBLESHOOTING

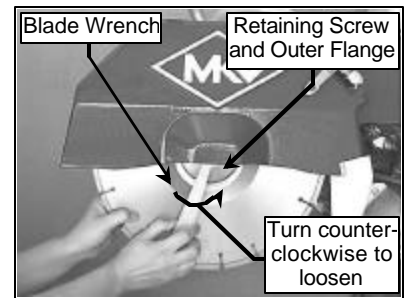
8. Diamond Blade Change-out:



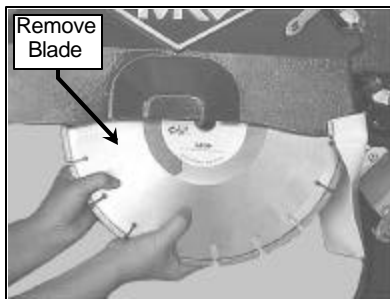
(A)
Place Engine Switch
in the OFF position



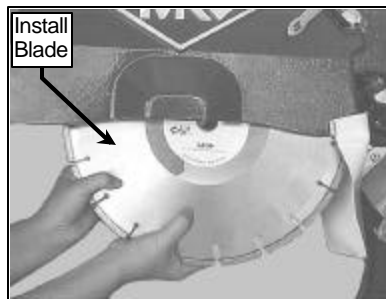
(B)
Raise Cutting Head



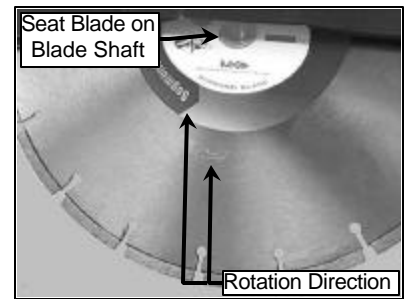
(C)
Identify and remove Retaining
Screw and Outer Flange



(D)
Remove old Diamond Blade

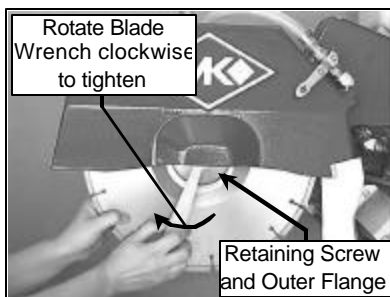


(E)
Install new Diamond Blade
onto Blade Shaft



(F)
Verify Blade is seated on Blade
Shaft in correct rotation direction

NOTE: When installing the diamond 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.

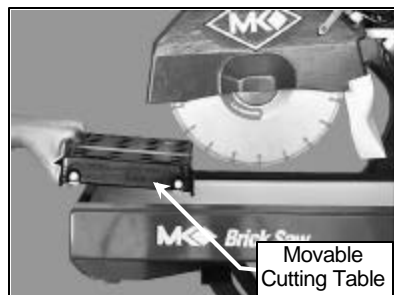


(G)
Install Retaining Screw and
Outer Flange then tighten

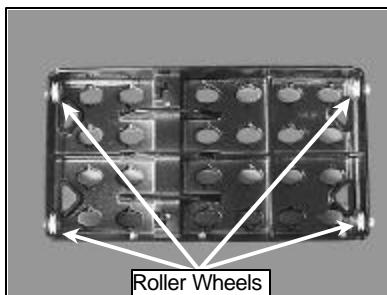
MAINTENANCE AND TROUBLESHOOTING

9. Movable Cutting Table Wheel Change Out:

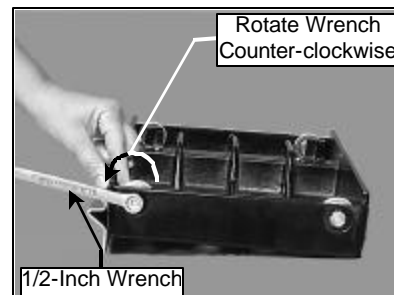
NOTE: All four (4) Movable Cutting Table, Roller Wheels should be replaced at the same time (MK Diamond Part No. – 133090)



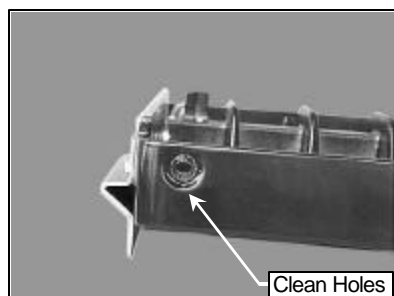
(A)
Remove the Movable Cutting Table



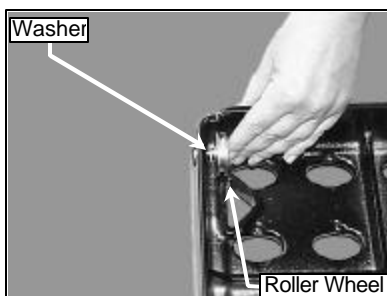
(B)
Place Movable Cutting Table On Work Bench with Roller Wheels Up



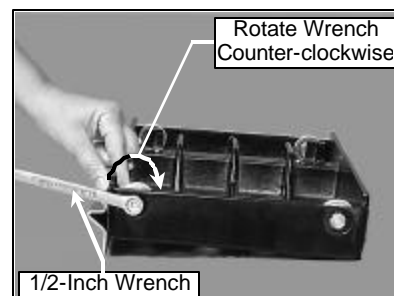
(C)
Remove Roller Wheels



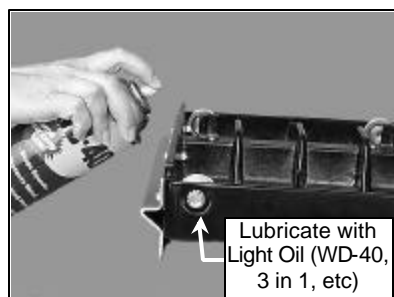
(D)
Prepare for Installation Of New Roller Wheels



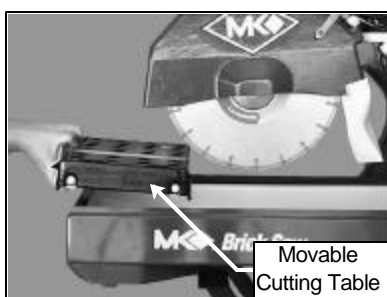
(E)
Install Wheel/Washer Assembly Into Movable Cutting Table



(G)
Install Roller Wheel Retaining Nut – Tighten



(F)
Lubricate Roller Wheels

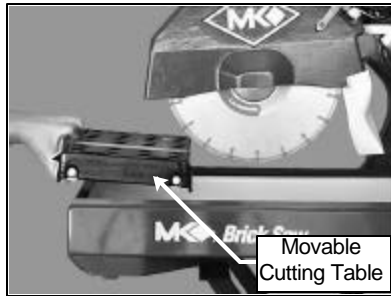


(H)
Install the Movable Cutting Table

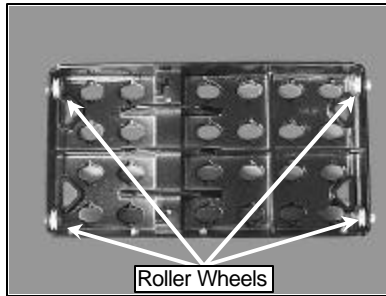
MAINTENANCE AND TROUBLESHOOTING

10. Protective Wooden Strip Replacement:

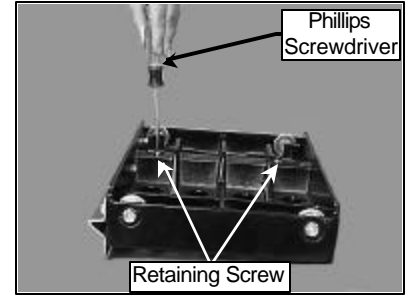
The protective wooden strip is to protect the Movable Cutting Table from damage during operation. Over time, the wooden strip will become grooved from use. A grooved wooden strip will not support masonry during cutting causing the blade to "break through" the piece instead of performing a smooth cut (MK Diamond Part No. – 156427).



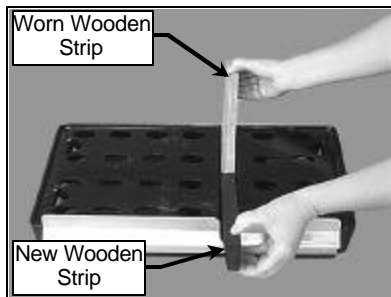
(A)
Remove the Movable
Cutting Table



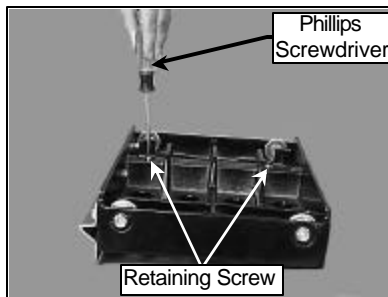
(B)
Place Movable Cutting
Table On Work Bench
with Roller Wheels Up



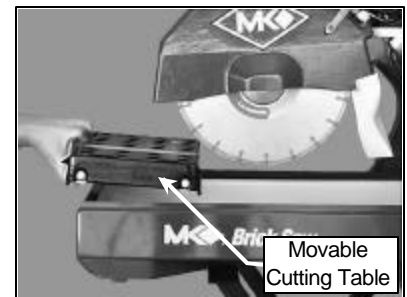
(C)
Remove the two Protective
Wooden Strip Retaining Screws



(D)
Replace Worn
Protective Wooden Strip



(F)
Place Movable Cutting Table on
Work Bench – Wheels Up,
Reinstall Retaining Screws



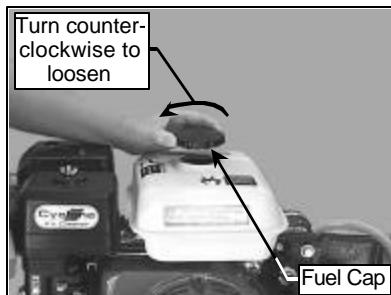
(G)
Install the Movable
Cutting Table

MAINTENANCE AND TROUBLESHOOTING

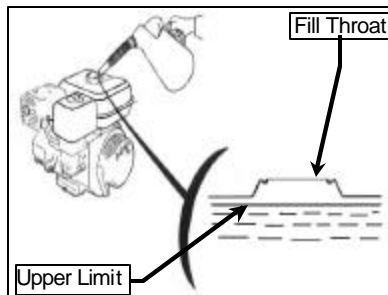
11. Check Fuel Level:

- ⚠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, barbecues, electric appliances, power tools, etc.
 5. Wipe up spills immediately.

- NOTES:**
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.
 3. If using the Universal Stand with the MK-2005G, a ladder meeting OSHA specification is recommended.
 4. Use unleaded gasoline with a pump octane rating of 86 or higher.



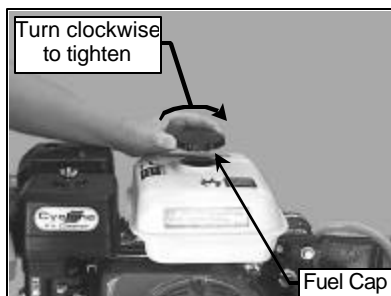
(A)
Remove Fuel Cap



(B)
Check Fuel Level
(If level is 1/2 full or greater, go to step D)



(C)
Fill Fuel Tank until level is below throat

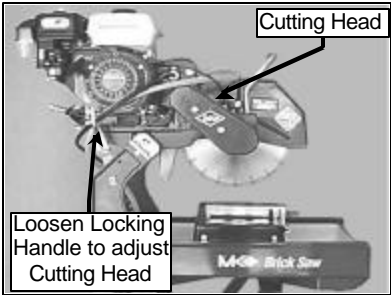


(D)
Install Fuel Cap
DO NOT over-tighten

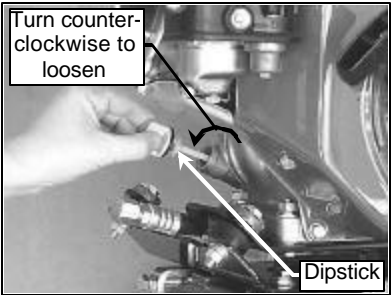
MAINTENANCE AND TROUBLESHOOTING

12. Checking Oil Level:

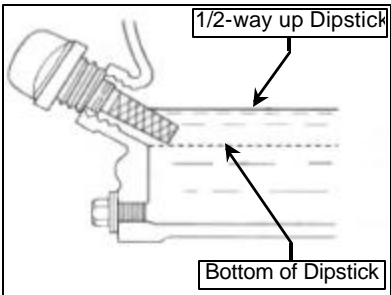
- NOTES:
- 1. Engine Oil Capacity is 0.63 US qt (0.6 l).
 - 2. When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to "cross-thread."



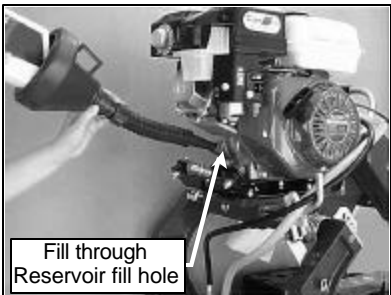
(A)
Level Cutting Head



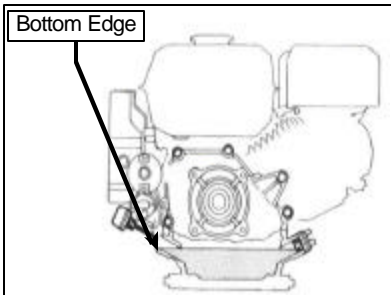
(B)
Remove Dipstick



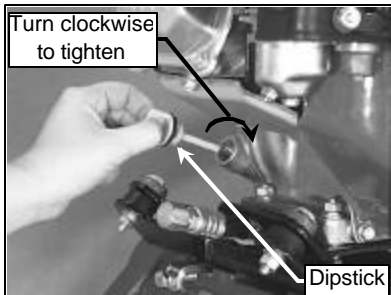
(C)
Check Oil Level
If level is normal go to step F



(D)
Fill Oil Reservoir



(E)
Add Oil until level reaches
The bottom edge of fill hole



(F)
Install the Dipstick



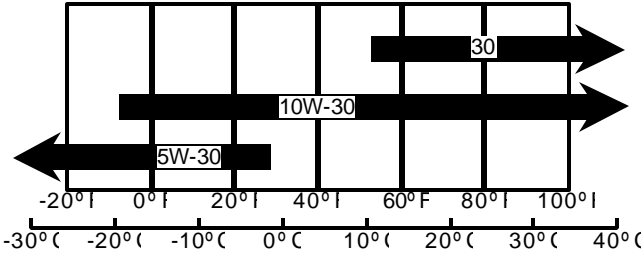
(G)
Clean Up

MAINTENANCE AND TROUBLESHOOTING

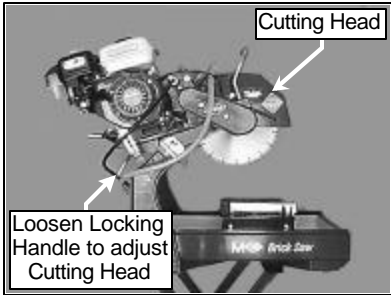
13. Changing Oil:

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

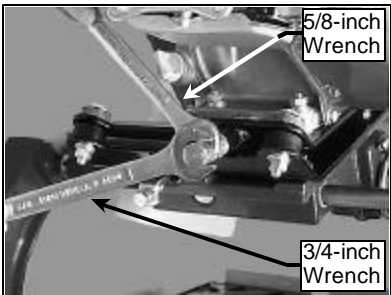
SAE 10W-30 is recommended for general use. Other viscosity oil shown in the chart below may be used when the average temperature in your area is within the recommended range.



- NOTES:
1. Drain used oil while the engine is warm.
 2. Conform to Federal, State and Local laws, codes and ordinances relative to environmental protection for oil disposal.



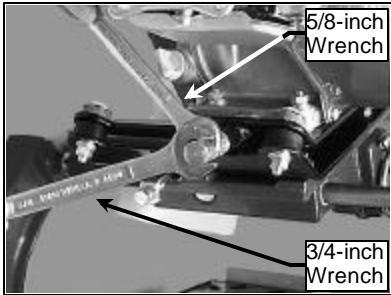
(A)
Raise Cutting Head



(B)
Place container below Oil Drain
Open Oil Drain



(C)
Drain Oil
(conform to Federal, State and Local laws for disposal)



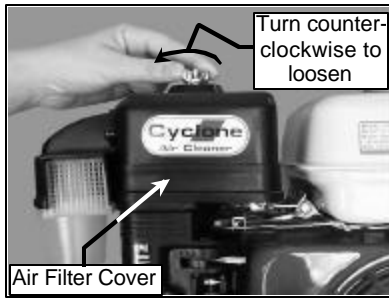
(D)
Install Oil Drain



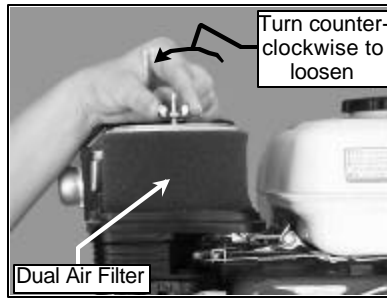
(E)
Fill Oil Reservoir
(See Checking Oil Level)

MAINTENANCE AND TROUBLESHOOTING

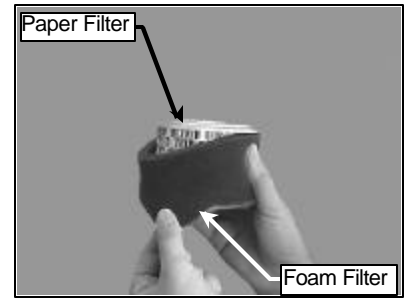
14. Engine Air Filter Inspection Cleaning and Replacement:



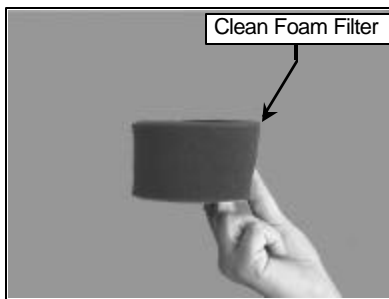
(A)
Remove Air Filter Cover



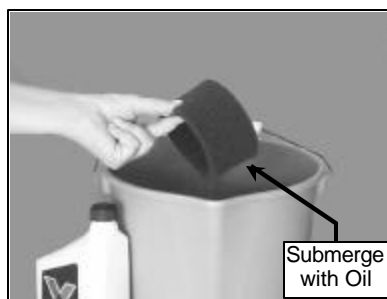
(B)
Remove Dual Air Filter



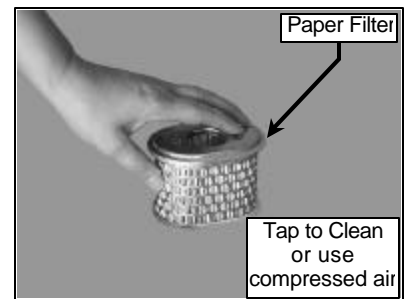
(C)
Separate outer Foam Filter from inner Paper Filter



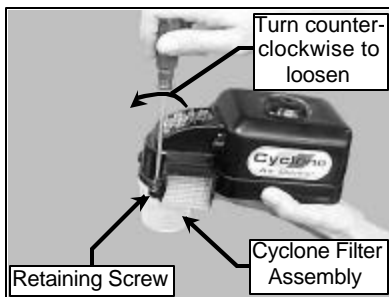
(D)
Clean Foam Filter with warm soapy water – allow to air dry



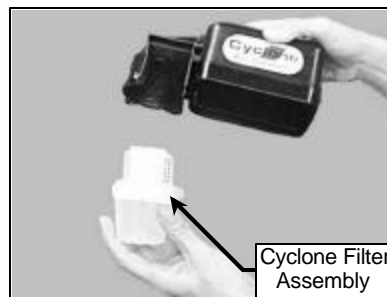
(E)
Dip Foam Filter in clean engine oil – Squeeze out excess oil



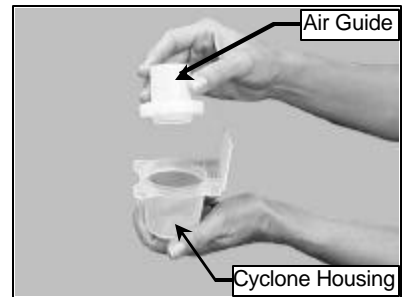
(F)
Inspect Paper Filter, tap on hard surface to clean or use 30psi air (direct air inside filter to clean)



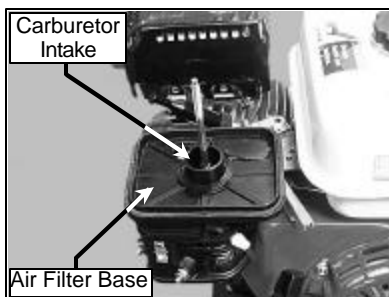
(G)
Remove the 3 Cyclone Filter Assembly retaining screws



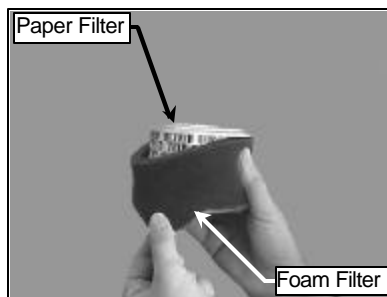
(H)
Remove the Cyclone Filter Assembly from the Air Filter Cover



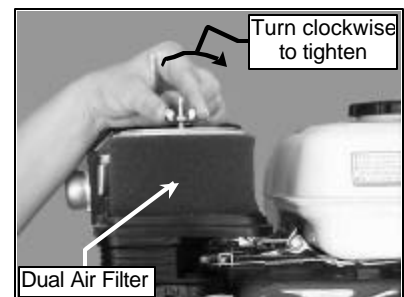
(I)
Separate the Air Guide from the Cyclone Housing and clean using soap and water



(J)
Clean the Air Filter Base DO NOT allow dirt to enter the carburetor intake

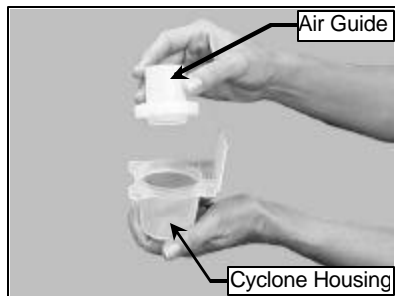


(K)
Install Foam Filter over Paper Filter

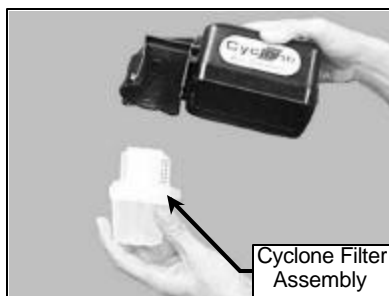


(L)
Install Dual Air Filter

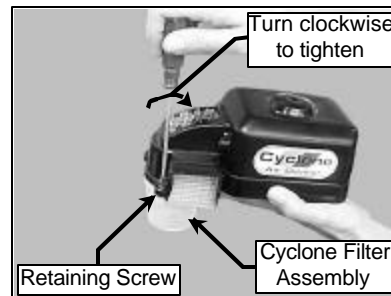
MAINTENANCE AND TROUBLESHOOTING



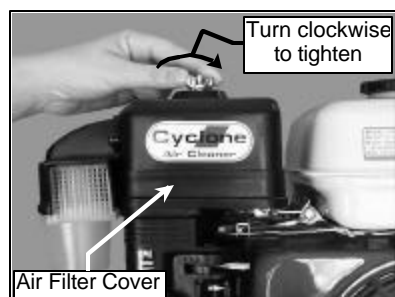
(M)
Install the Air Guide into
the Cyclone Housing



(N)
Install the Cyclone Filter
Assembly into the Air
Filter Cover



(O)
Install the 3 Cyclone
Filter Assembly
retaining screws



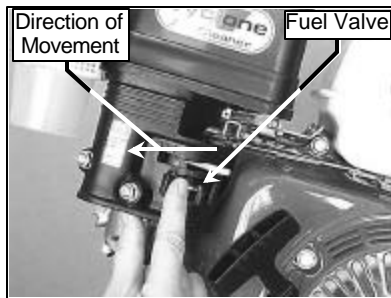
(P)
Install Air Filter Cover

MAINTENANCE AND TROUBLESHOOTING

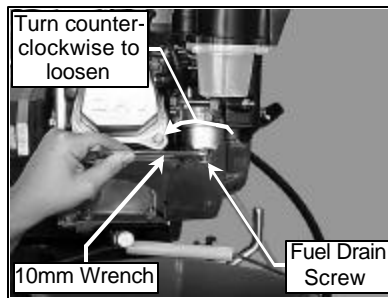
15. Fuel Sediment Cup Cleaning:

- ⚠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, barbecues, electric appliances, power tools, etc.
 5. Wipe up spills immediately.

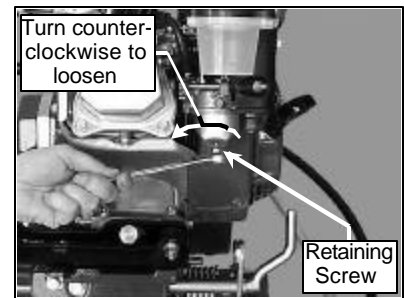
- NOTES:**
1. Conform to Federal, State and Local laws for the proper disposal of fuel
 2. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
 3. DO NOT use stale or contaminated gasoline or an oil/gasoline mixture.
 4. If using the Universal Stand with the MK-2005G, an OSHA approved ladder is recommended when fueling.
 5. When installing the Sediment Cup retaining bolt, ensure the threads of the bolt are aligned with the threads on the Fuel Valve so as not to "cross-thread the nut."



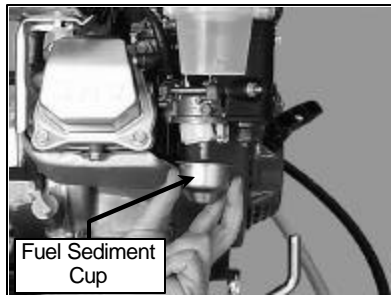
(A)
Place Fuel Valve in the OFF position



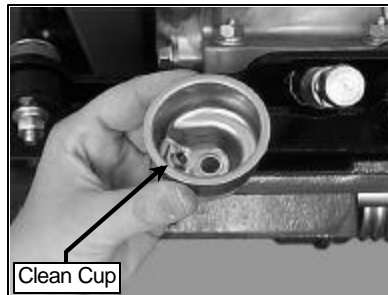
(B)
Drain the Fuel Sediment Cup by removing the angled Fuel Drain screw



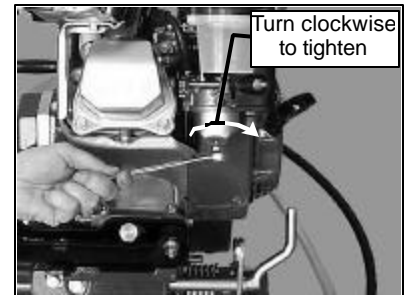
(C)
Remove Sediment Cup Retaining Screw



(D)
Remove Fuel Sediment Cup



(E)
Clean Fuel Sediment Cup using a nonflammable solvent – allow Sediment Cup to dry



(F)
Install Fuel Sediment Cup and Sediment Cup Drain Screw

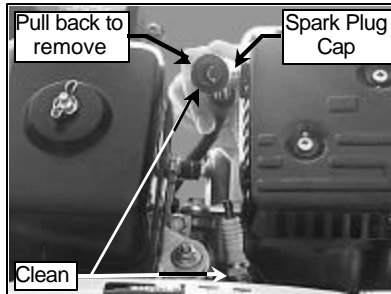
MAINTENANCE AND TROUBLESHOOTING

16. Spark Plug Adjustment and Replacement:

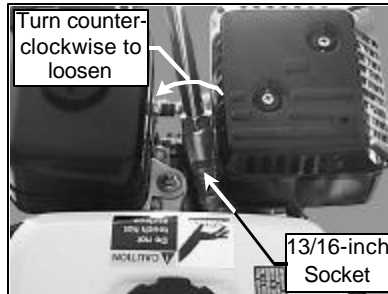
⚠CAUTION DO NOT work around the engine while hot.

NOTE: 1. Recommended spark plugs are: NGK – BPR6ES or DENSO – W20EPR-U

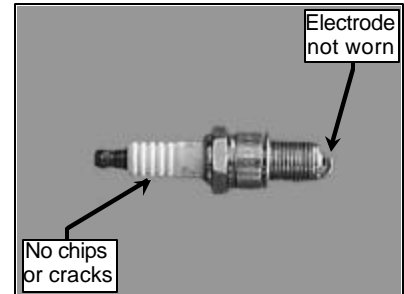
2. When installing the Spark Plug, ensure the threads of the are aligned with the threads in the engine so as not to “cross-thread” the plug.



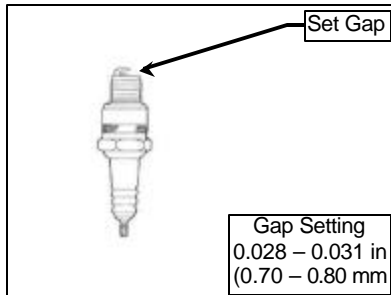
(A)
Remove Spark Plug Cap
clean cap and around
spark plug



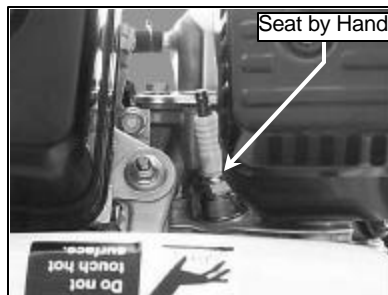
(B)
Remove Spark Plug



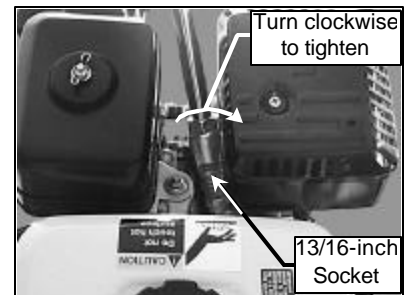
(C)
Inspect Spark Plug
if worn replace Spark Plug
and go to step E



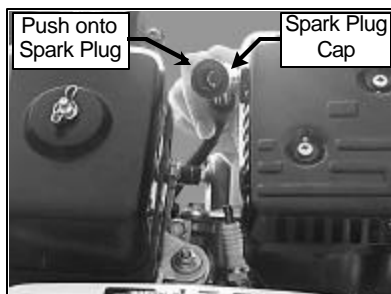
(D)
Clean with a wire brush and
re-gap the Spark Plug



(E)
Install the Spark Plug by Hand
DO NOT cross-thread
the Spark Plug



(F)
Tighten the Spark Plug
If new, tighten 1/2-turn
If old, tighten 1/8-1/4 turn



(G)
Install the Spark Plug Cap
verify the Spark Plug Cap
is seated

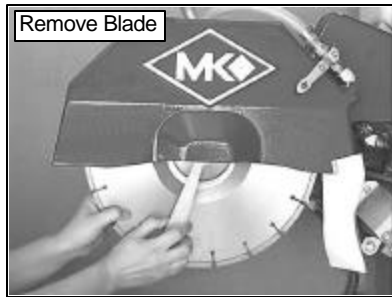
MAINTENANCE AND TROUBLESHOOTING

17. V-Belt Inspection, Adjustment and Replacement:

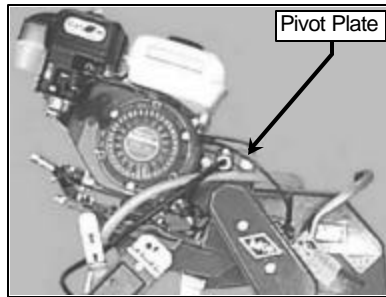
The MK-2005G is designed with two power transmission v-belts. The two belts are a matched set and should be inspected, adjusted and/or replaced at the same time.

- NOTES:
1. When new belts are installed, they should be inspected and re-tensioned after the first forty-eight (48) hours of operation.
 2. When performing any maintenance on the power transmission V-belts, always start with the belt on the Blade Guard side.

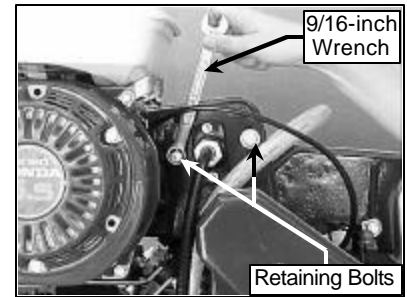
I. Blade Side V-belt:



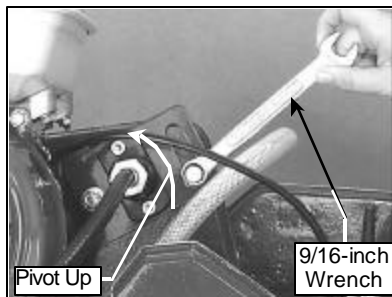
(A)
Remove Diamond Blade
(See Diamond Blade
Change-out)



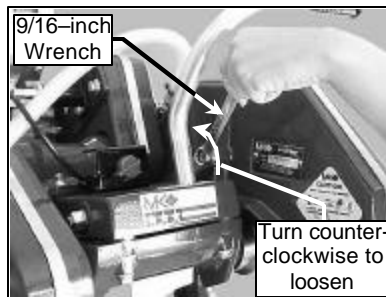
(B)
Identify the Water Pump
Pivot Plate



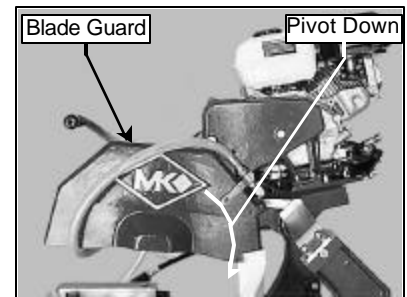
(C)
Loosen Water Pump Drive End
Pivot Plate front and rear
retaining bolts



(D)
Pivot front of Water Pump Drive
End Pivot Plate up and tighten
the retaining bolts

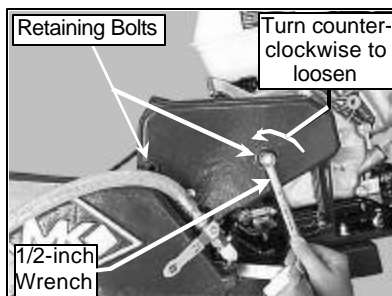


(E)
Disconnect the Blade Guard
Adjustment Bar

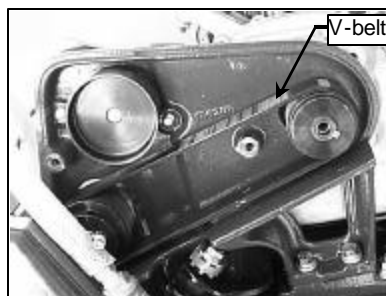


(F)
Pivot Blade Guard to expose
Belt Guard retaining bolts

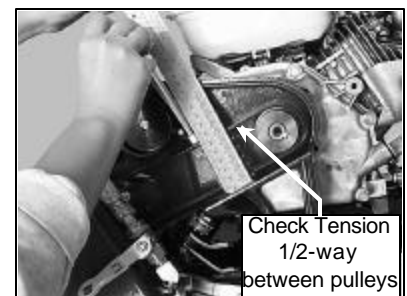
NOTE: The Step G may require the pump discharge line to be repositioned.



(G)
Remove the Belt Guard
Retaining Bolts

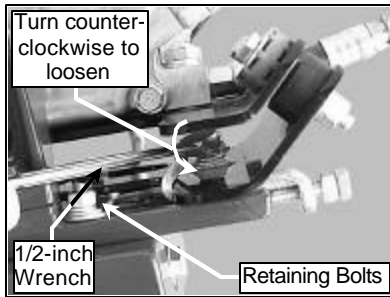


(H)
Inspect the V-belt for cracks,
fraying, separation and wear. Go
to step J if replacement required



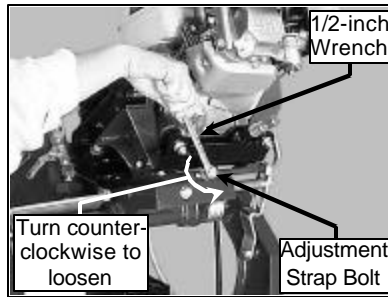
(I)
Check Belt for proper tension
If tension correct, go to step U
(proper tension 1/8-inch)

MAINTENANCE AND TROUBLESHOOTING



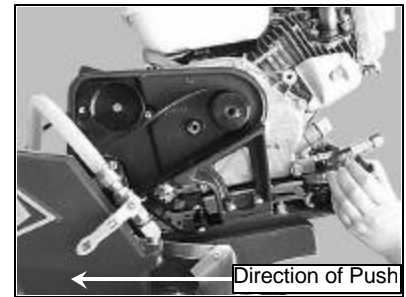
(J)

Loosen engine mounting plate
If re-tensioning, go to step S



(K)

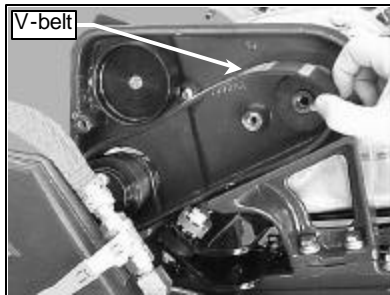
Loosen Engine Adjustment
Strap Lock-nut then loosen
the Engine Adjustment Strap



(L)

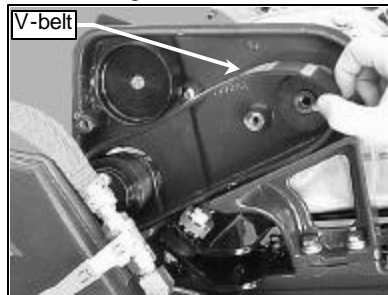
Push the Engine Mounting Plate
toward the front of the unit to
loosen the V-belt

NOTE: DO NOT use a screwdriver when installing new belts.



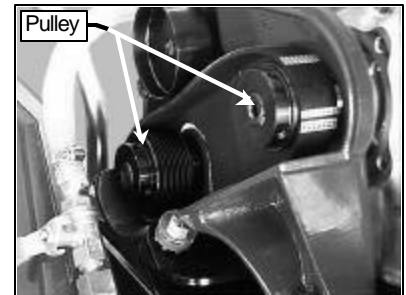
(M)

Remove the V-belt



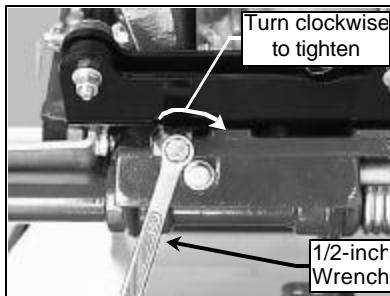
(N)

Install the new V-belt
(MK Diamond Part No. 156294)



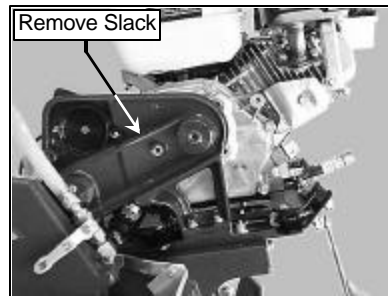
(O)

Verify the V-belt is seated in
The grooves of both pulleys



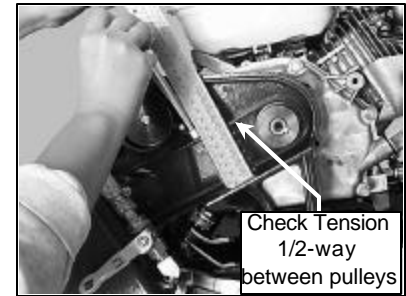
(P)

Verify the Engine Adjustment
Strap Lock-nut is loose then
tighten the Adjustment Strap



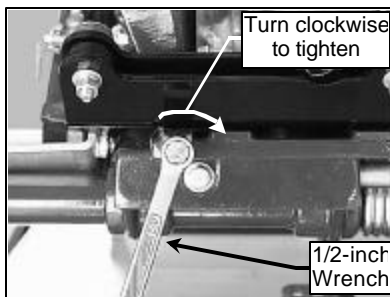
(Q)

Tighten the Engine Adjustment
Strap to remove slack



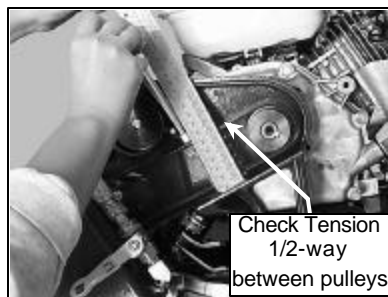
(R)

Check V-belt tension
(proper tension 1/8-inch)



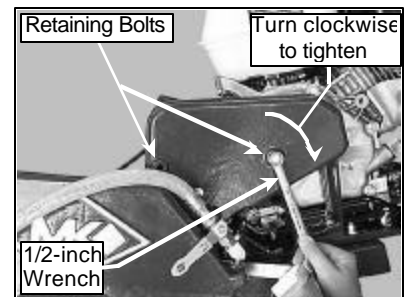
(S)

Continue adjusting V-belt until
tension is correct then tighten the
Engine Adjustment Strap Lock-nut



(T)

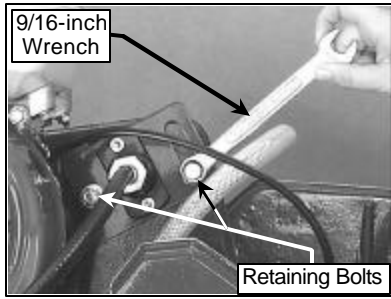
Check V-belt tension
(proper tension 1/8-inch)



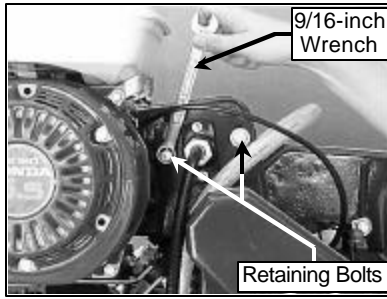
(U)

Install the Belt Guard

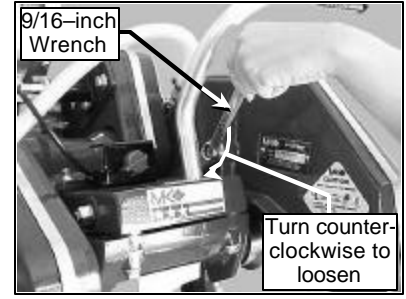
MAINTENANCE AND TROUBLESHOOTING



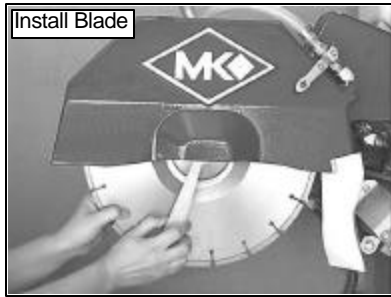
(V)
Locate Water Pump Pivot Plate
Loosen retaining bolts



(W)
Relocate Water Pump Pivot Plate and retighten retaining bolts

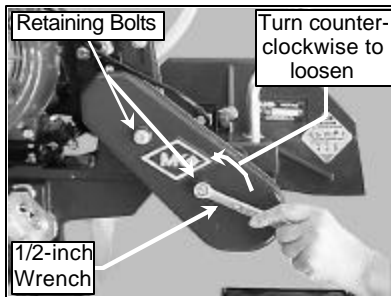


(X)
Install the Blade Guard Adjustment Bar

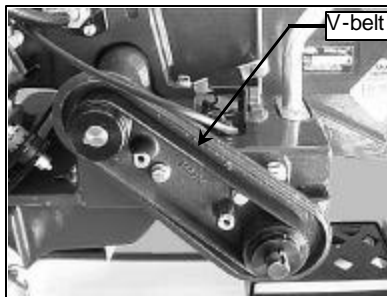


(Y)
Install the Diamond Blade

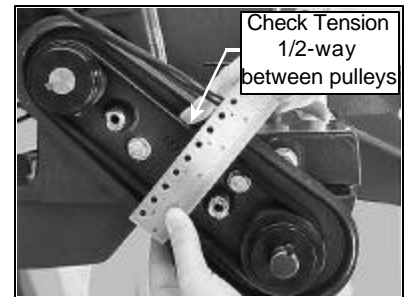
II. Engine Side V-belt:



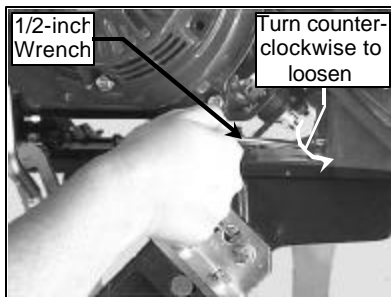
(A)
Remove the Belt Guard Retaining Bolts



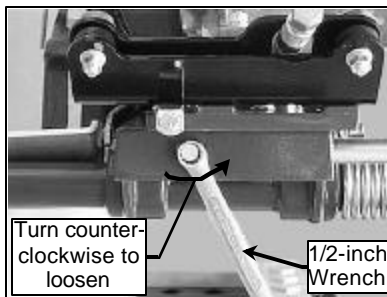
(B)
Inspect the V-belt for cracks, fraying, separation and wear. Go to step D if replacement required



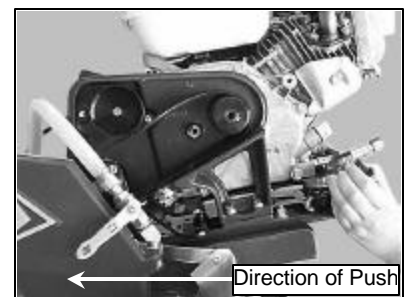
(C)
Check Belt for proper tension
If tension correct, go to step O
(proper tension 1/8-inch)



(D)
Loosen engine mounting plate
If re-tensioning, go to step J



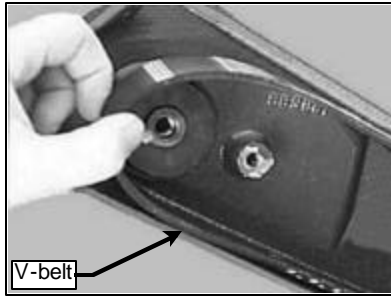
(E)
Loosen Engine Adjustment Strap Lock-nut then loosen the Engine Adjustment Strap



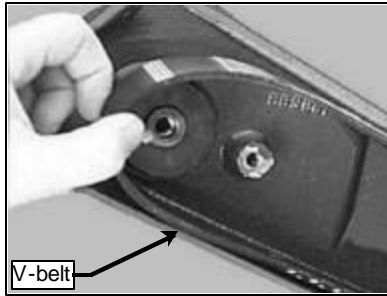
(F)
Push the Engine Mounting Plate toward the front of the unit to loosen the V-belt

MAINTENANCE AND TROUBLESHOOTING

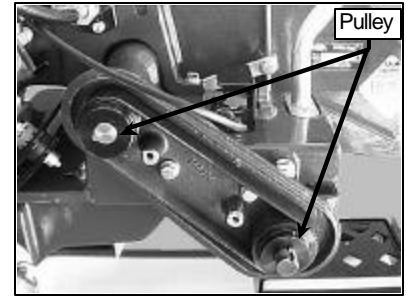
NOTE: DO NOT use a screwdriver when installing new belts.



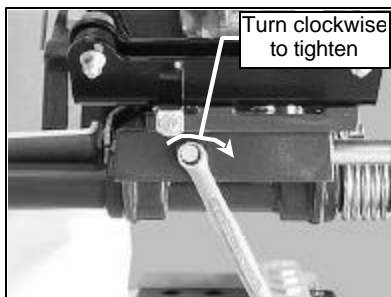
(G)
Remove the V-belt



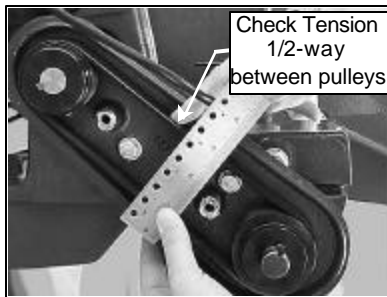
(H)
Install the new V-belt
(MK Diamond Part No. 156294)



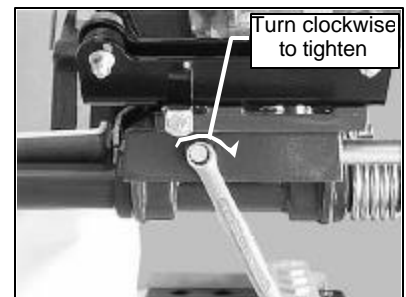
(I)
Verify the V-belt is seated in
The grooves of both pulleys



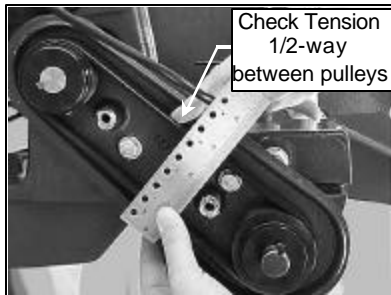
(J)
Verify the Engine Adjustment
Strap Lock-nut is loose then
tighten the Adjustment Strap



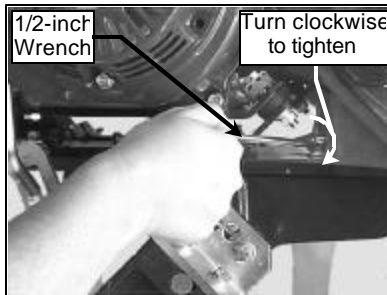
(K)
Check V-belt tension
(proper tension 1/8-inch)



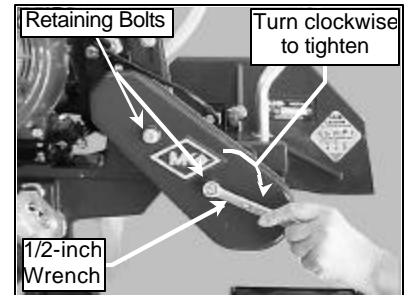
(L)
Continue adjusting V-belt until
tension is correct then tighten the
Engine Adjustment Strap Lock-nut



(M)
Check V-belt tension
(proper tension 1/8-inch)



(N)
Tighten Base Plate



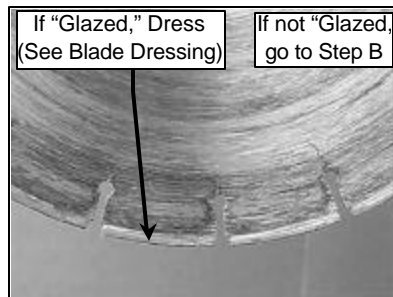
(O)
Install the Belt Guard

MAINTENANCE AND TROUBLESHOOTING

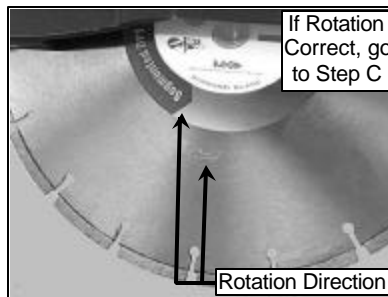
TROUBLESHOOTING:

⚠WARNING Turn the ON/OFF switch to the OFF position and place the Fuel Valve in the CLOSED position before performing the following.

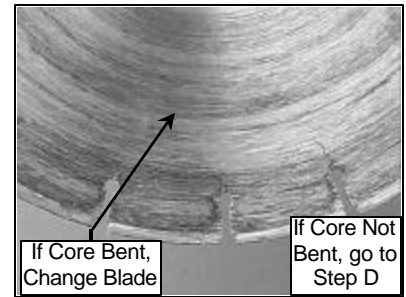
1. Blade Will Not Cut Properly:



(A)
Check for Smoothness
or "Glazing"



(B)
Check for Proper Rotation



(C)
Ensure Blade
Core Not Bent

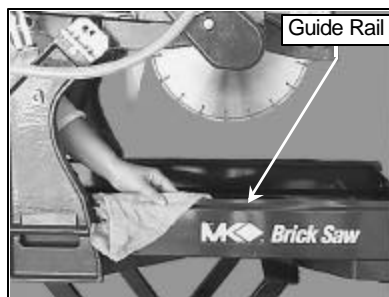


(D)
Verify Blade Correct for
Material Being Used

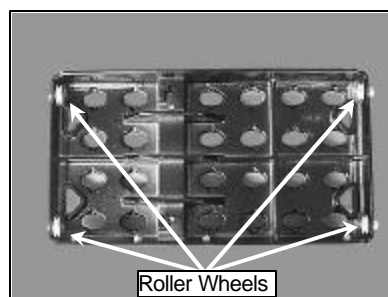
**Return to
MK Diamond
for Repair**

(E)
Return to MK Diamond

2. Movable Cutting Table Does Not Move Correctly:



(A)
Check that the Guide
Rails are clean and
clean if dirty



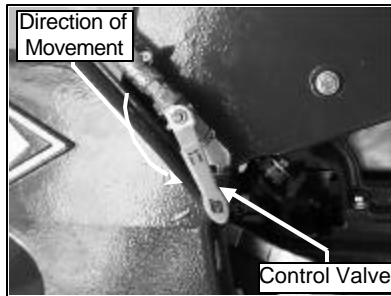
(B)
Check the Movable Cutting Table
Roller Wheels and replace if
necessary

**Return to
MK Diamond
for Repair**

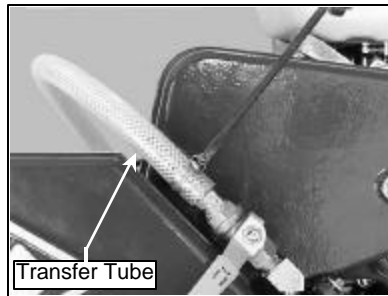
(E)
Return to MK Diamond

MAINTENANCE AND TROUBLESHOOTING

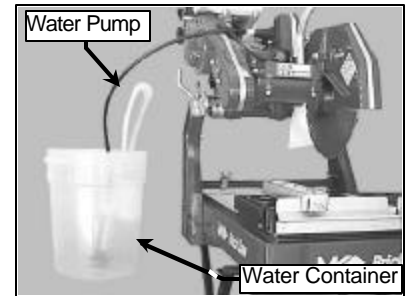
3. Cooling Flow:



(A)
Check Cooling Flow
Control Valve is open

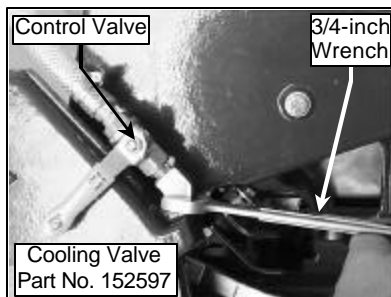


(B)
Remove Transfer Tube from
Blade Guard

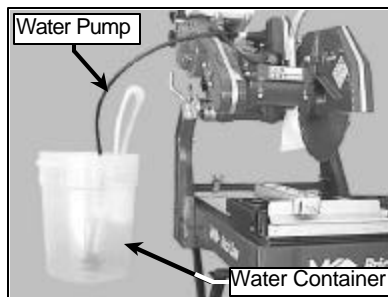


(C)
Place Water Pump in clean
water source and check for
flow (if no flow go to step G)

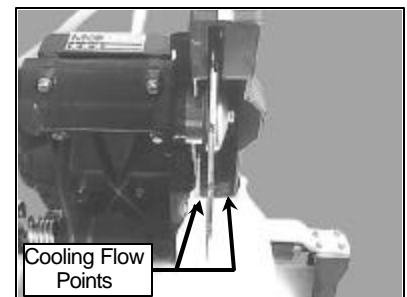
NOTE: "Rodding" cooling channels is performed by removing the flow control valve and then inserting a small wire rod through the cooling channel inlet, on the top of the Blade Guard and directing the rod out through each of the diamond blade cooling flow outlet ports, located on the underside of the Blade Guard. The cooling channels should be "rodded" until each of the outlet ports are open and free of foreign debris.



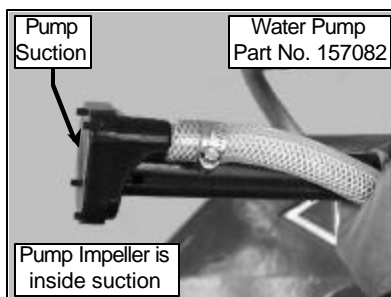
(D)
Verify Cooling Valve operation
by removing the valve from the
Blade Guard



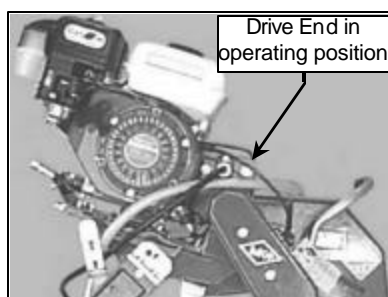
(E)
Attach the Cooling Valve to the
Transfer Tube to verify flow –
if no flow, replace valve



(F)
Rod Cooling Channels and
recheck flow
If no flow go to step I



(G)
Verify Water Pump suction is
clean and pump impeller is
turning – if not turning, replace



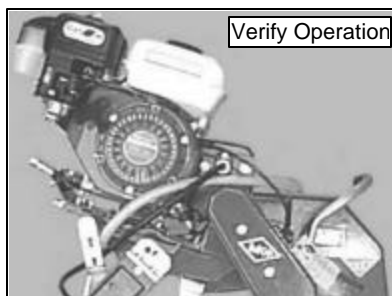
(H)
Verify Water Pump drive end is
in the operating position – if in
operating position go to step I

**Return to
MK Diamond
for Repair**

(I)
Return to MK Diamond

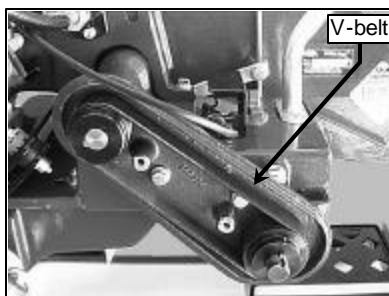
MAINTENANCE AND TROUBLESHOOTING

4. Blade Stops Turning:



(A)

Check engine operating if not restart
(See Setup, Startup, Adjustment,
Operation and Shutdown)



(B)

Check V-belts
(See V-belt Inspection,
Adjustment and Replacement)

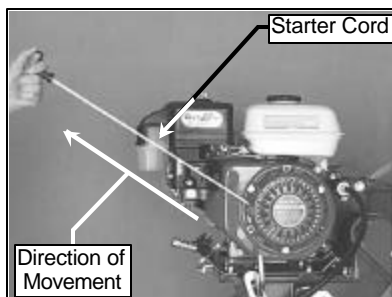
**Return to
MK Diamond
for Repair**

(C)

Return to MK Diamond

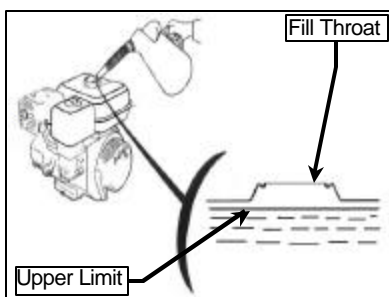
5. Engine Stops:

NOTE: The Honda Engine is equipped with an oil level sensor that will stop the engine on a low oil level



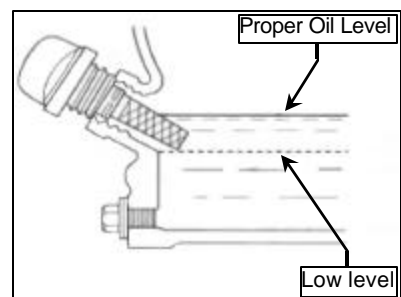
(A)

Pull Starter Cord straight back
in a smooth fast motion



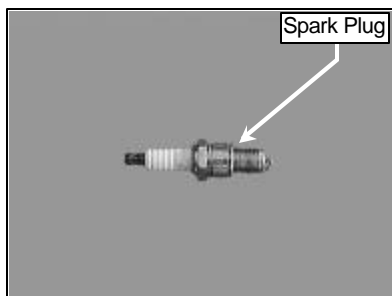
(B)

Verify fuel level is below
the throat of the Fuel Tank



(C)

Check for proper oil level
(See Maintenance section if low)



(D)

Clean and Readjust engine
Spark Plug (See Spark Plug
Adjustment and Replacement)

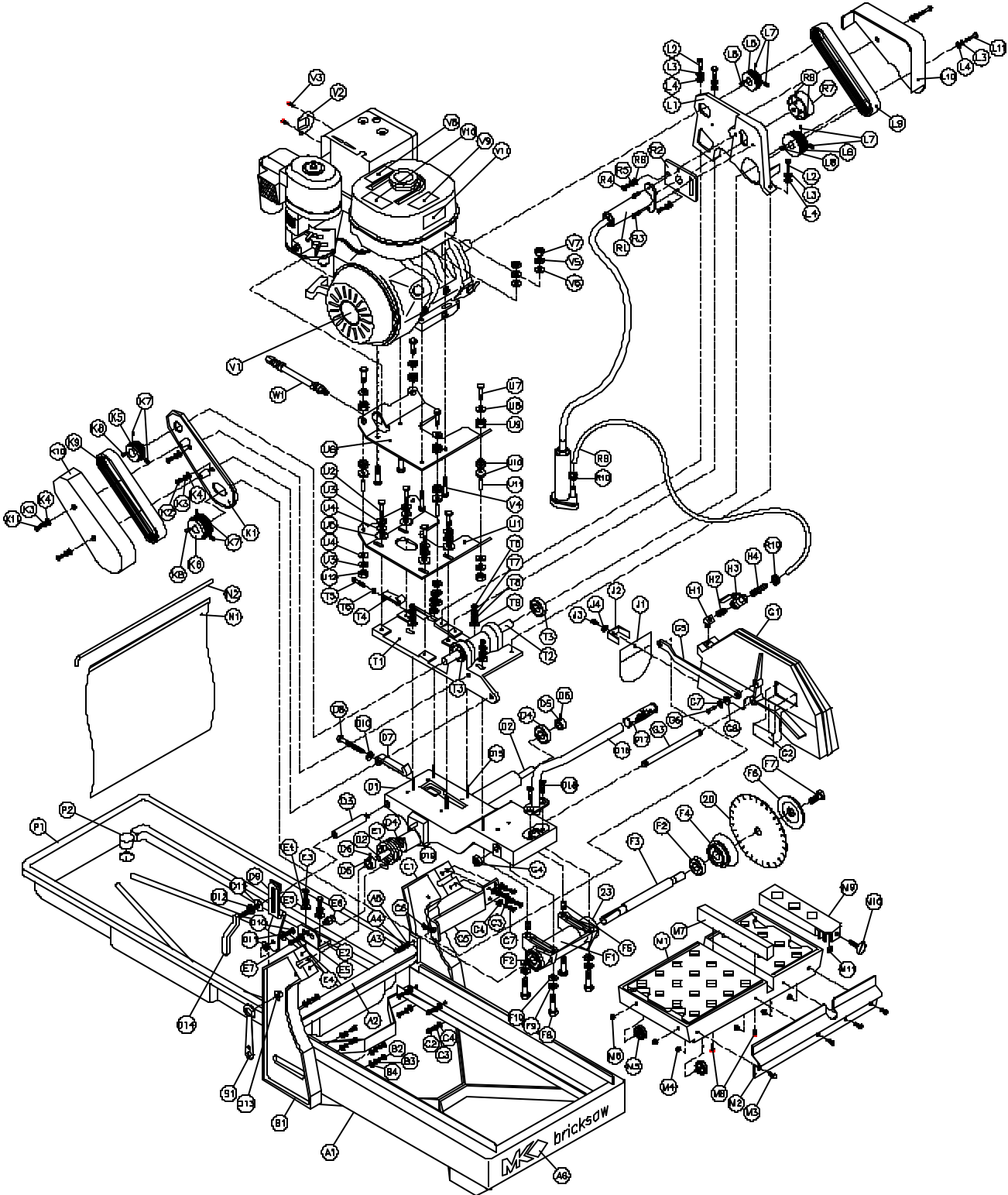
**Return to
MK Diamond
for Repair**

(E)

Return to MK Diamond

EXPLODED VIEW AND PARTS LIST

EXPLODED VIEW:



EXPLODED VIEW AND PARTS LIST

PARTS LIST:

Item	Description	Qty	MK p/n
A	Assembly, Frame, MK2000 Brick saw	1	-
A1	Frame, MK-2000	1	150595
A2	Crossbar, Support	1	150594
A3	Screw, 5/16-18 x 1 Hex Head Cap	1	151743
A4	Washer, 5/16 Split Lock	4	151747
A5	Washer, 5/16 SAE Flat	4	151754
A6	Label, MK Brick saw 12 – 1/2 x 1-3/4	1	155230
B	Assembly, Upright Left	1	-
B1	Casting, Upright Left	1	150592
B2	Screw, 5/16-18 x 3/4, Hex Head	6	151369
B3	Washer, 5/16 Split Lock	6	151747
B4	Washer, 5/16 SAE Flat	6	151754
C	Assembly, Upright Right	1	-
C1	Casting, Upright Right	1	150593
C2	Screw, 5/16-18 x 3/4, Hex Head	6	151369
C3	Washer, 5/16 Split Lock	10	151747
C4	Washer, 5/16 SAE Flat	10	151754
C5	Bracket, Blade Guard (Stay Level)	1	150582
C6	Clip, Hairpin 1/4 Shaft	1	153953
C7	Screw, 5/16 x 1 Hex Head Cap	4	151743
D	Assembly, Cutting Head	1	-
D1	Casting, Cutting Head	1	150583
D2	Shaft, Pivot	1	154147
D3	Stud, Height Adjustment	1	150585
D4	Bearing, Pivot Shaft	2	140004
D5	Collar, Pivot Shaft	2	140012
D6	Screw, 5/16-8 x 3/16 Socket Head Set	2	151167
D7	Strap, Motor Adjustment	1	150584
D8	Bolt, 3/8-16 x 3 1/2 Hex Head Cap	1	153147
D9	Bracket, Cutting Head Height Adjustment	1	156839
D10	Screw, 3/8-16 x 1 1/2	1	153528
D11	Washer, 3/8 SAE Flat	3	150923
D12	Washer, 3/8 Split Lock	1	150925
D13	Nut, T Plan Slab Weld	1	153945
D14	Handle, Cutting Head Height Adjustment Lock Nut,	1	151140
D15	Stud, 5/16-18 x 2	6	156959
D16	Handle	1	139931
D17	Grip, Handle	1	139949
D18	Screw, 3/8-16 x 1 Flat Head Screw Cap	2	154019
D19	Pin, Split Wrist	1	151358
E	Assembly, Pivot Spring	1	-
E1	Spring, Torsion Pivot	1	150587
E2	Bracket, Spring Adjustment	1	150589
E3	Screw, 5/16-18 x 1 Hex Head	2	151743
E4	Washer, 5/16 Split Lock	3	151747
E5	Washer, 5/16 SAE Flat	3	151754
E6	Stud, Retaining Spring	1	153788
E7	Screw, 5/16-18 x 3/4 Hex Head	1	151369

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK p/n
F	Assembly, Blade Shaft	1	154636
F1	Casting, Blade Shaft-Arbor	1	153791
F2	Bearing, Blade Shaft	2	154594
F3	Shaft, Blade	1	154639
F4	Flange, Inner	1	154640
F5	Pin, Arbor Alignment	2	153946
F6	Flange, Outer 14 Inch M-Saw	1	132290
F7	Screw, 1/2-20 x 1 1/4, Hex Head (Blade Bolt)	1	152122
F8	Screw, 5/16-18 x 2 -1/4	4	153951
F9	Washer, 5/16 Split Lock	4	151747
F10	Washer, 5/16 SAE Flat	4	150923
G	Assembly, Blade Guard	1	-
G1	Casting, Blade Guard	1	150579
G2	Tag, Serial Number MK-2000	1	157007
G3	Shaft, Blade Guard Bolt	1	150581
G4	Nut, 1/2-13 Hex Lock, Top	1	153943
G5	Bar, Adjustment Blade Guard (Stay Level)	1	150580
G6	Screw, 3/8-16 x 1 Hex Head	1	152507
G7	Washer, 3/8 Split Lock	1	150925
G8	Washer, 3/8 SAE Flat	1	150923
H	Assembly, Water Control Valve	1	-
H1	Elbow, Street 45 1/4 MNPT	1	153869
H2	Nipple, 1/4 MNPT x Close	1	152598
H3	Valve, Female Ball - 1/4 Pipe	1	152597
H4	Fitting, 1/4 MNPT x 1/2 Barb	1	152704
J	Assembly, Splash Guard	1	-
J1	Curtain, Blade Guard	1	152417
J2	Bracket, Water Curtain	1	152723
J3	Screw, 1/4-20 x 1/2, Wing Screw	1	151888
J4	Washer, 1/4 SAE Flat	1	151915
K	Assembly, Belt Guard MK-2005 (Arbor Side)	1	-
K1	Casting, Belt Guard Inner	1	156669
K2	Screw, 5/16-18 x 1 3/4 Hex Head	2	151919
K3	Washer, 5/16 Split Lock	3	151747
K4	Washer, 5/16 SAE Flat	3	151754
K5	Pulley, Micro-V, 2.0 Diameter	1	156291
K6	Pulley, Micro-V 2 3/8 Diameter	1	156292
K7	Screw, 5/16-18 x 1/2, Socket Head Set (Cup Point)	4	157084
K8	Key, 1-1/8 x 3/16	2	150344
K9	Belt, Micro-V (Gates 220J-10)	1	156294
K10	Casting, Belt Guard Outer	1	156670
K11	Screw, 5/16-18 x 2 1/2 Hex Head	2	101675
L	Assembly, Belt Guard MK-2005 (Engine Side)	1	-
L1	Casting, Belt Guard Inner	1	156671
L2	Screw, 5/16-16 x 1 Hex Head	3	151743
L3	Washer, 5/16 Split Lock	5	151747
L4	Washer, 5/16 SAE Flat	5	151754
L5	Pulley, Micro-V, 2.0 Diameter	1	156291
L6	Pulley, Micro-V 2 3/8 Diameter	1	156292
L7	Screw, 5/16-18 x 1/2, Socket Head Set (Cup Point)	4	157084

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK p/n
L8	Key, 1-1/8 x 3/16	2	150344
L9	Belt, Micro-V (Gates 220J-10)	1	156294
L10	Casting, Belt Guard Outer	1	156672
L11	Screw, 5/16-18 x 2 1/2 Hex Head	2	101675
M	Assembly, Table	1	133082
M1	Casting, Table	1	153790
M2	Stop-Rule, Table	1	134387
M3	Screw, 1/4-20 x 3/4 Hex Head	4	152370
M4	Nut, 1/4-20, Keps	4	153941
M5	Wheel, Roller	4	133090
M6	Nut, 5/16-18 Keps	4	153942
M7	Wood Strip, Table Insert	1	156427
M8	Screw, Pan HD Phil. #8 x 1	2	151047
M9	Casting, Squaring Arm	1	132332
M10	Screw, 15/16-18 x 1 1/2, Thumb	1	151155
M11	Nut, 5/16-18 Square	1	151156
N	Assembly, Curtain MK Logo	1	-
N1	Rod, Splash Curtain	1	153956
N2	Curtain, Rear	1	150613
N/A	Assembly, Curtain Plain	1	-
N/A1	Rod, Splash Curtain	1	153956
N/A2	Curtain, Rear Plain	1	134841
P	Assembly, Pan MK Logo		
P1	Pan, Plastic	1	150308
P2	Plug, Rubber Drain Without Hole	1	153439
R	Assembly, Water Pump, Mechanical	1	-
R1	Pump, Water Centrifugal	1	157082
R2	Mount, Water Pump	1	156108
R3	Screw, 5/16-18 x 1/2 Socket Head Cap	2	152473
R4	Screw, 3/8-16 x 1 Hex Head	2	152507
R5	Washer, 3/8 Split Lock	2	150925
R6	Washer, 5/16 Flat Cut	2	101352
R7	Pulley, 2.69 Diameter	1	157048
R8	Screw, 5/16-18 x 1/2 Socket Head Set (Cup Point)	2	157084
R9	Hose, Vinyl 1/2 x .748	3 ft	152410
R10	Clamp, 7/8 Hose	2	154173
S	Assembly, Accessory Pack	1	-
S1	Wrench, Masonry Saw	1	134056
S2	Insert, Accessory	1	153576
T	Assembly, Engine Base	1	-
T1	Casting, Engine Base	1	156673
T2	Shaft, Arbor	1	156295
T3	Bearing, Jack Shaft	2	139956
T4	Strap, Engine Belt Tensioning	1	156955
T5	Screw, 5/16-18 x 1 Socket Head Cap	1	151743
T6	Nut, 5/16-18 Hex	6	101196
T7	Washer, 5/16 Split Lock	5	151747
T8	Washer, 5/16 SAE Flat	5	151754
T9	Washer, 7/16 Flat Cut	5	101352

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK p/n
U	Assembly, Plates, Engine Mounting (Top & Bottom)	1	-
U1	Plate, Lower Engine Mounting	1	156296
U2	Screw, 5/16-18 x 1, Socket Head Cap	1	151743
U3	Washer, 5/16 Split Lock	8	151747
U4	Washer, 5/16 SAE Flat	8	151754
U5	Washer, 5/16 Flat Cut	4	151050
U6	Plate, Engine Mounting, Upper	1	156297
U7	Screw, 5/16-18 x 2, Socket Head Cap	4	155494
U8	Washer, Fender, 5/16 ID x 1.0 OD	4	151053
U9	Shock Mount, Upper	4	156961
U10	Shock Mount, Lower	8	156962
U11	Bushing, Stand Off, Shock Mount	4	156104
U12	Nut, 5/16-18 Hex	4	101196
V	Assembly, Engine, Honda 5.5 hp	1	-
V1	Engine, Honda 5.5 hp W/Cyclone Filter	1	156282
V2	Deflector, Honda	1	156710
V3	Screw, 6-32 x 3/8 Pan Head Phillips Self-Tapping Cap	2	153466
V4	Screw, 5/16-18 x 1 1/2, Hex Head Cap	4	152467
V5	Washer, 5/16 SAE Flat	4	151051
V6	Washer, 5/16 SAE Flat	4	151050
V7	Nut, 5/16-18, Hex	4	101196
V8	Label, Hot Surface, Caution	1	155578
V9	Label, Refueling Warning	1	155580
V10	Label, California, Danger	1	155581
V11	Label, Lethal Exhaust, Danger	1	155582
V12	Oil Drain, M10 x 3/8 Push	1	157577-01

9/21/99 ECO #0224 Remove:

W1	Hose, Oil Drain (6LOLA 3/8 Hose, 3/8 MNPT Fitting)	1	156137
W2	Adapter, 10mm x 3/8 Push	1	156682
W3	Hose, Ferrule, .625 ID Brass	1	154660

Add:

V12	Oil Drain, M10 x 3/8 Push	1	157577-01
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ACCESSORIES, ORDERING and RETURN INSTRUCTIONS

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

EXPLODED VIEW AND PARTS LIST

ACCESSORIES:

ITEM	NUMBER	DESCRIPTION	
1.	132332	Adjustable Cutting Guide	
2.	133090	Roller Wheel	
3.	156427	Protective Wooden Strip	
4.	156294	Micro-V Belt	
5.	152792	Dressing Stick	
6.	153439	Rubber Drain Plug	

EXPLODED VIEW AND PARTS LIST

ORDERING INSTRUCTIONS:

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

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA or MasterCard.

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

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: All when returning 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 Materials Authorization (RMA) 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 Blade Guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-2005G, 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. For technical questions, call – 800 474-5594.



MK- 2005G

GAS POWERED BRICK SAW OWNER'S MANUAL & OPERATING INSTRUCTIONS

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠ WARNING

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 and
- Arsenic and chromium, from chemically treated lumber

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 those dust masks that are specially designed to filter out microscopic particles.

**MK DIAMOND PRODUCTS, INC
1315 STORM PARKWAY, TORRANCE, CA 90509-2803
310 539 5158**