



MK CX-3

GAS POWERED CONCRETE 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
Rear Crossbar

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 and TABLE OF CONTENTS

INTRODUCTION:

We at MK Diamond want to congratulate you on selecting the MK CX-3 Concrete 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 CX-3 should provide you with years of quality service. In order to help you, we have included this manual. This owner's manual contains information necessary to operate and maintain your MK CX-3 safely and correctly. Please take a few minutes to familiarize yourself with the MK CX-3 by reading and reviewing this manual.

If you should have questions concerning your MK CX-3, please feel free to call our friendly customer service department at: 800 421-5830

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Manual Part No. 159348

Revision 07/15

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. The word note, as in the example below will precede each message.

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. Nonslip 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/silicacrystalline/index.html>

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

SAFETY

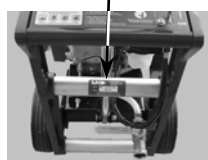
SAFETY LABEL LOCATIONS:

Safety labels are located according to Figures 1 to 7 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. Please, contact MK Diamond or your dealer for a replacement, if a label comes off or becomes hard to read.

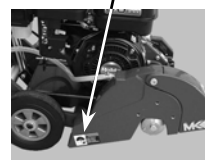
Item	Location	Description	Part No.
1	Console Assembly	Operating and Safety Instructions	159208
2	Horizontal Frame Support	Serial Tag	159251
3	Outer Blade Guard	Warning – Blade Failure	155588
4A	Inner Blade Guard	Caution – Do Not Lift Blade Guard	155586
4B	Shaft Cover	Caution – Do not Operate with Guards Removed	155587
5	Fuel Tank – Right Side	Warning – When Refueling Stop Engine	155580
6A	Fuel Tank – Top	Danger – California Warning	155581
6B	Fuel Tank – Top	Warning – Engine Mfg. Label	N/A
6C	Fuel Tank – Top	Caution – Hot Surface	155578
6D	Fuel Tank – Front	Danger – Lethal Exhaust	155582
7A	Belt Guard	Caution – Do Not Operate with Guards Removed	155587
7B	Belt Guard	Caution – Accidental Start Hazard	155579
7C	Belt Guard	Caution – Over tensioning Belt Hazard	155583
7D	Belt Guard	Caution – Keep Hands and Feet Clear	155585



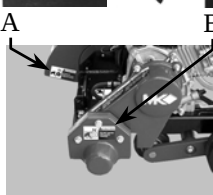
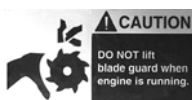
1



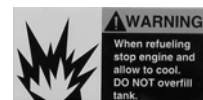
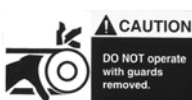
2



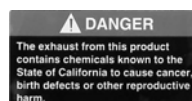
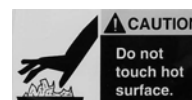
3



4



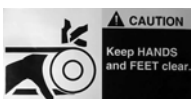
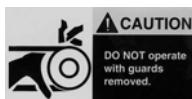
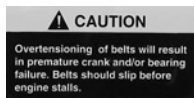
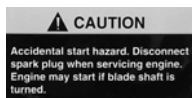
5



6



6



7

SAFETY

CX-3 SPECIFIC WARNINGS:

⚠ CAUTION

- Read Owners Manual
- Wear Protective Gear for –



Lungs



Ear



Eye

PRODUCT SPECIFICATIONS:

The MK CX-3 is a versatile Concrete Saw. Operated and used according to this manual, the MK CX-3 will provide years of dependable service.

General Description:

The MK CX – 3 is engineered as a portable concrete saw powered by a 6 horsepower, Robin gas engine or a 6.5 horsepower Honda gas engine. The saw is capable of cutting up to five (5) inches in depth.

Motor and Weight Specifications:

Motor and Weight specifications for the MK CX-3 are listed in Table 2 below.

Motor Type	4-stroke, Overhead valve, single cylinder
Max Power Output	6 / 6.5 Hp
Max RPM	3600 RPM
Blade Speed	3400 to 3600 RPM (Depending on Blade Diameter)
Fuel Tank Capacity	2.7 Liters
Engine Oil Capacity	0.6 Liters
Weight	Approximately 185 lbs.

Table 2

Blade:

The MK CX-3 uses a 12 to 14 inch diameter diamond blade.

Concrete Saw Usage:

The MK CX-3 is designed to cut various grades of concrete surfaces.

Features:

- Conveniently placed engine controls for ease of usage
- Height adjusting screw designed to accurately adjust the depth of the cut
- Ergonomically designed handlebar to reduce operator fatigue
- Poly micro V-belt to ensure maximum power transfer from the engine to the blade.

UNPACKING, TRANSPORT and ASSEMBLY

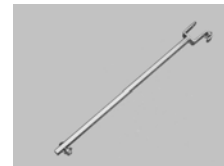
UNPACKING:

Your MK CX-3 has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

If not already done, remove the MK CX-3 from the pallet and place it on a flat surface (lift the Concrete Saw using the lifting points shown below).

CONTENTS:

In the containers, you will find one (1) MK CX-3, one (1) Diamond Blade, two (2) Blade Shaft Wrenches, one (1) Handlebar, two (2) Handlebar Tri-knobs, two (2) Tri-Knob Washers, one (1) Ball Knob, one (1) Shoulder Bolt, one (1) Pointer Arm, one (1) Pointer Wheel, one (1) Pointer, one (1) CX-3 Owners Manual, one (1) Robin's or Honda's Engine Owners Manual and one (1) warranty card.

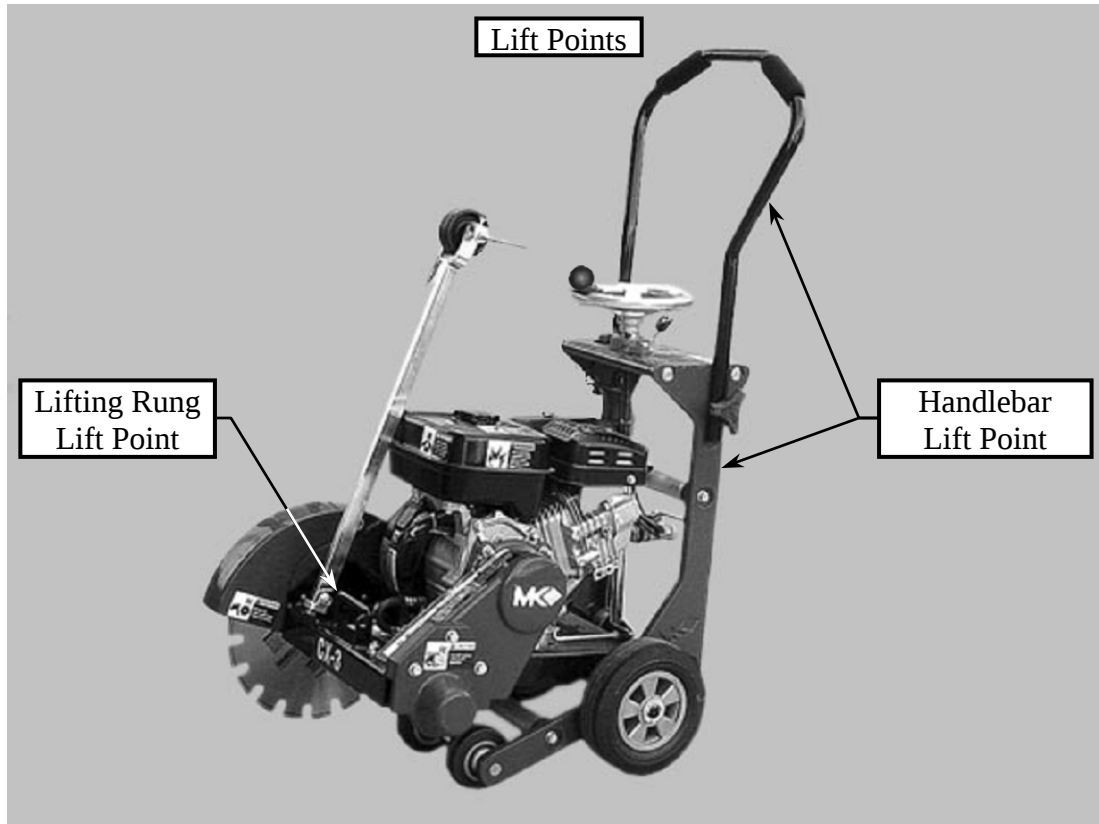
				
MK CX-3	Diamond Blade	2 Blade Shaft Wrench	Handlebar	Handlebar Tri-Knob
				
Tri-Knob Washer	Ball Knob & Shoulder Bolt	Pointer Arm	Pointer Wheel	Pointer
				
CX-3 Owners Manual	Robin or Honda Owner's Manual	Warranty Card		

UNPACKING, TRANSPORT and ASSEMBLY

TRANSPORT:

- ⚠CAUTION** 1. The MK CX-3 weighs approximately one hundred and eighty-five (185) pounds), use care when transporting.
2. Two people are required to lift and transport the MK CX-3.

To lift the CX-3, one person will lift by grasping the Handlebar (either extended or folded) and one person will lift by grasping the Lifting Rung on the front of the CX-3 as identified below.

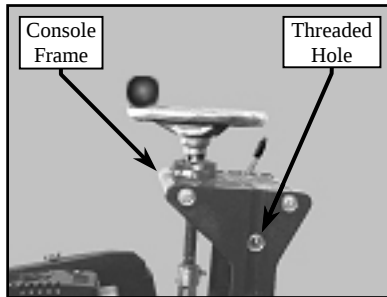


UNPACKING, TRANSPORT and ASSEMBLY

ASSEMBLY:

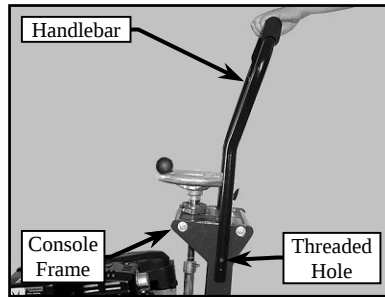
Follow the assembly instructions to prepare your MK CX-3 for operation.

1. Handlebar Assembly:



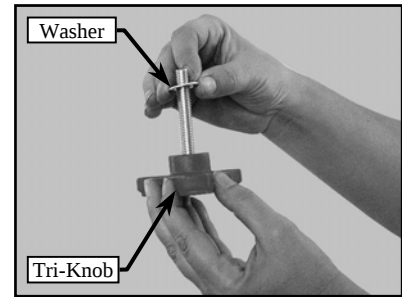
(A)

Locate the threaded holes on both sides of the CX-3 console frame



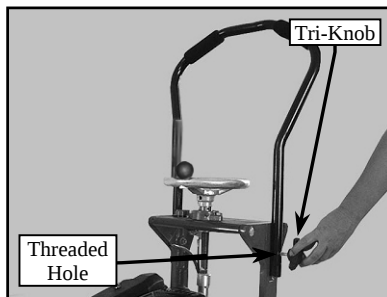
(B)

Align the Handlebar with the threaded holes on the sides of the CX-3 console frame



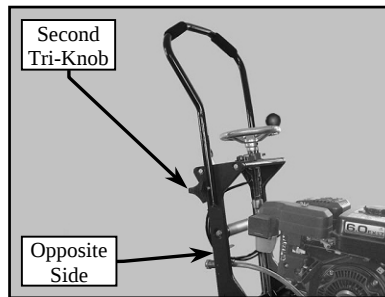
(C)

Install one Tri-Knob Washer onto each Tri-Knob



(D)

Install one Tri-Knob through the Handlebar and into the threaded hole on the CX-3 console frame

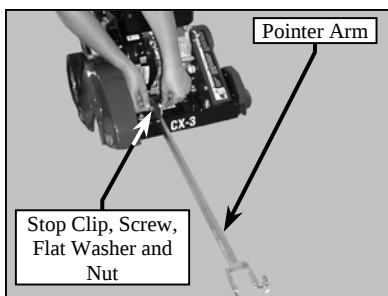


(E)

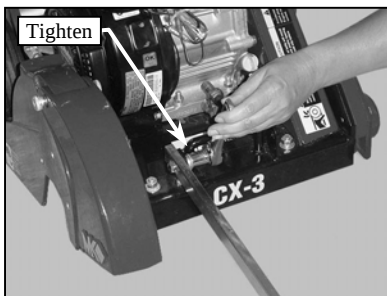
Repeat Step "C" on the opposite side of the CX-3

UNPACKING, TRANSPORT and ASSEMBLY

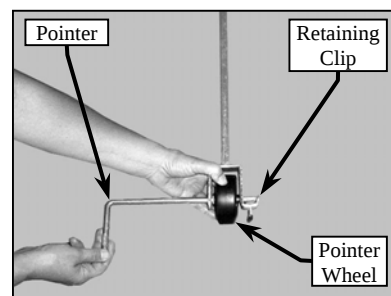
2. Cutting Pointer Arm Installation:



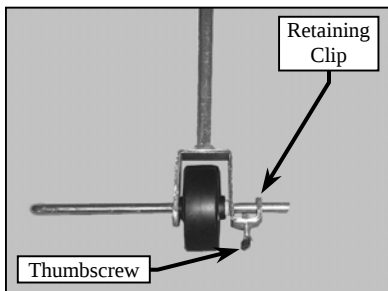
(A)
Install the Pointer Arm using the Stop Clip, a 3/4-inch screw, flat washer and a Nylock Nut



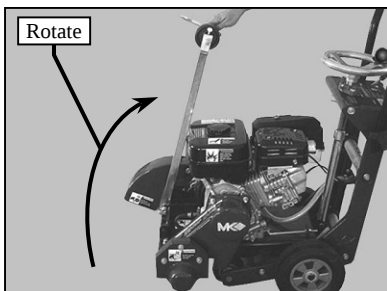
(B)
Tighten the Nylock Nut and 3/4-inch screw



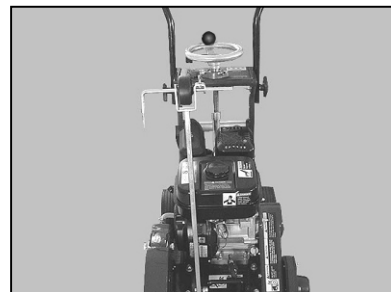
(C)
Install the Pointer Wheel, the Pointer and the Pointer Retaining Clip



(D)
Tighten the Retaining Clip Thumbscrew



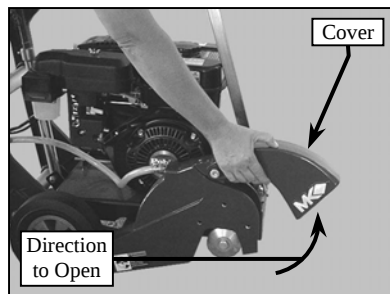
(E)
Rotate the Pointer Arm into the upright position



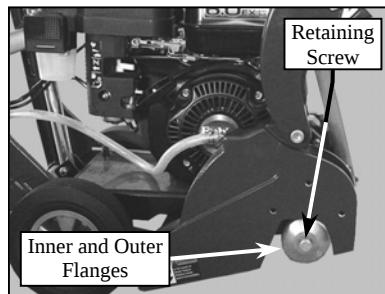
(F)
Rotate the Pointer down

3. 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.

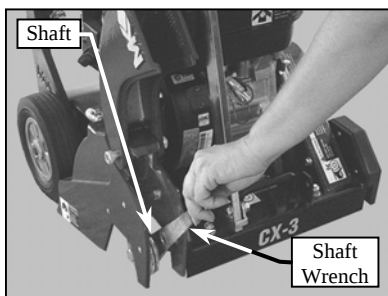


(A)
Open the Blade Guard Cover

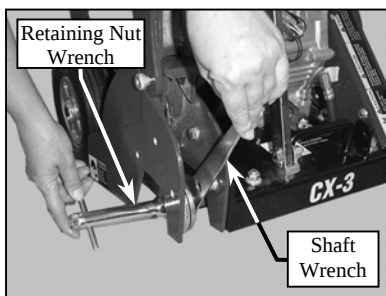


(B)
Locate the Blade Retaining Screw, the Outer and the Inner Flange

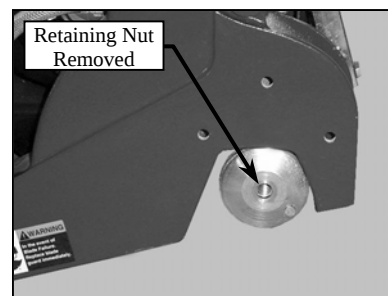
UNPACKING, TRANSPORT and ASSEMBLY



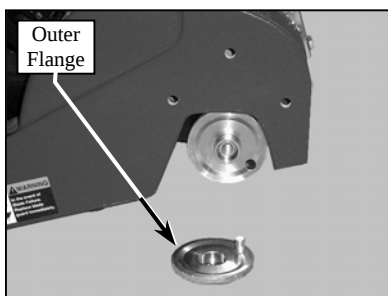
(D)
Place the Blade Shaft Wrench
onto the flat section of the Blade
Shaft



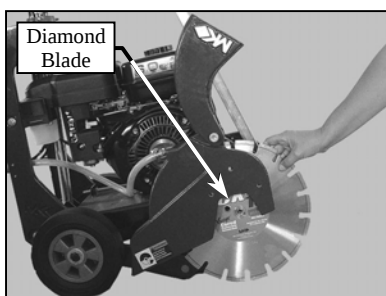
(E)
Loosen the Blade Retaining Screw
while holding the Shaft Wrench
steady



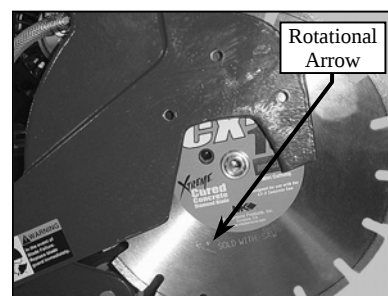
(F)
Remove the Blade
Retaining Screw



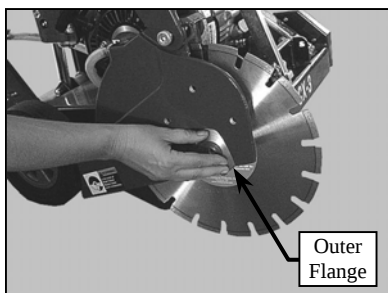
(G)
Remove the Outer Flange



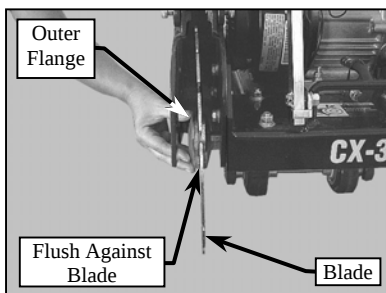
(H)
Install the Diamond Blade onto the
Blade Shaft



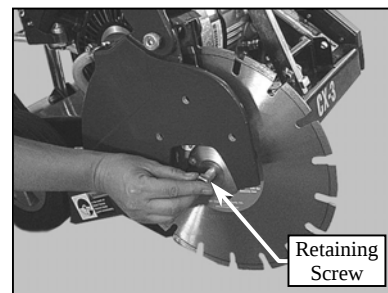
(I)
Verify the direction of rotation
arrow of the Blade matches the
direction of rotation on the CX-3



(J)
Install the Outer Flange



(K)
Verify the Outer Flange is seated
against the Blade

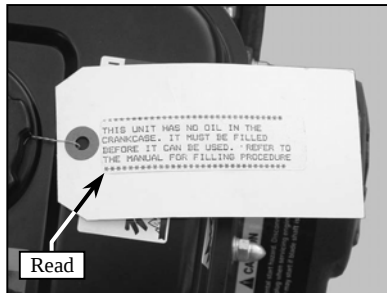


(L)
Install the Blade Retaining Screw

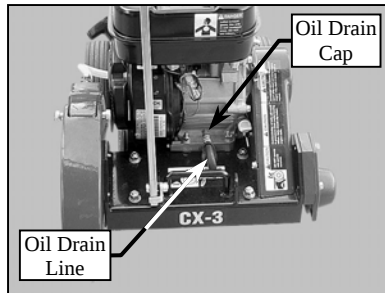
UNPACKING, TRANSPORT and ASSEMBLY

4. Filling Oil Reservoir:

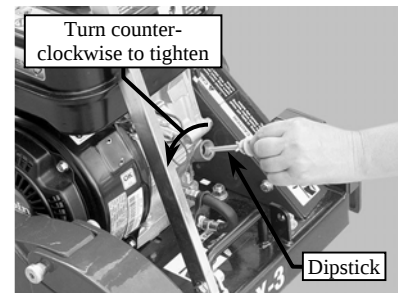
NOTE: SAE 10W-30 is recommended for general use in temperatures of – 4°F (20°C) and above. If you are operating outside of this range, consult the chart in this manual.
Engine Oil Capacity is 0.63 US qt (0.6l).



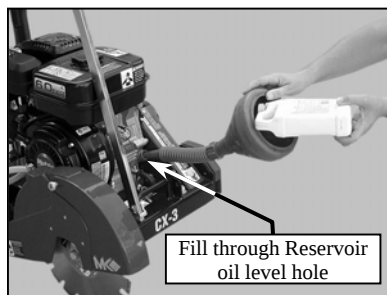
(A)
Read and remove caution tag attached to the Gas Cap



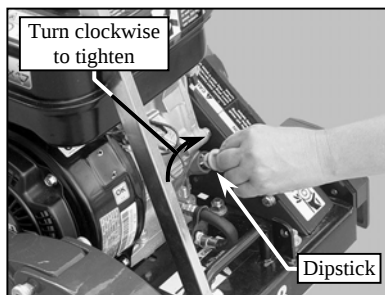
(B)
Verify the Oil Drain Cap is installed onto the Oil Drain Line and is tight



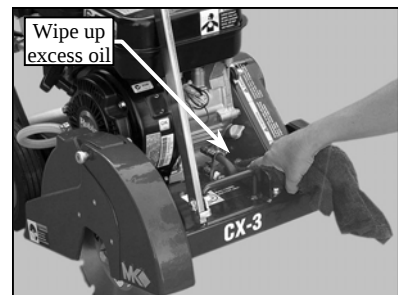
(C)
Remove the Oil Reservoir "Dipstick"



(D)
Fill the Oil Reservoir
(CAUTION: Do not overfill)



(E)
Install the Oil Reservoir "Dipstick"



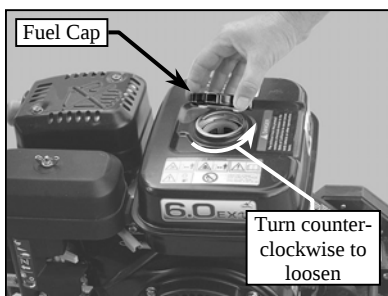
(F)
Cleanup any excess oil

UNPACKING, TRANSPORT and ASSEMBLY

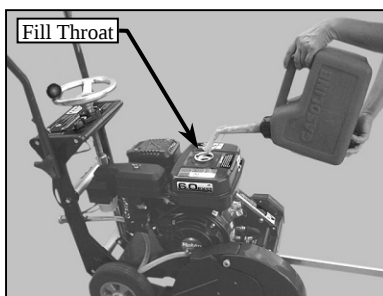
5. Filling Fuel Tank:

- ⚠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.

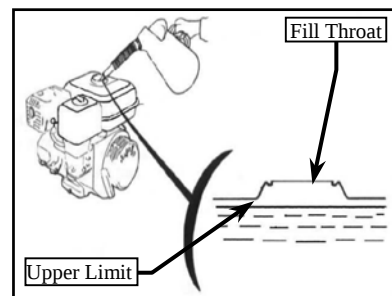
- NOTES:**
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
 2. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.
 3. Use unleaded gasoline with a pump octane rating of 86 or higher.



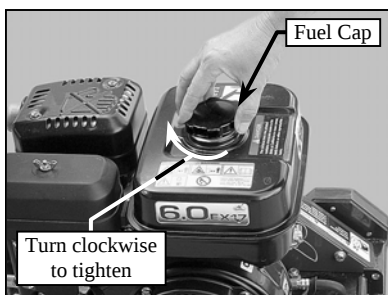
(A)
Remove the Fuel Cap



(B)
Fill Fuel Tank



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



(D)
Install the Fuel Cap

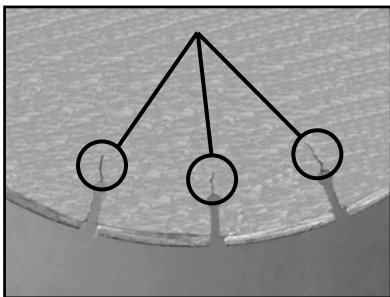
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

SETUP:

1. Pre-start Inspection:

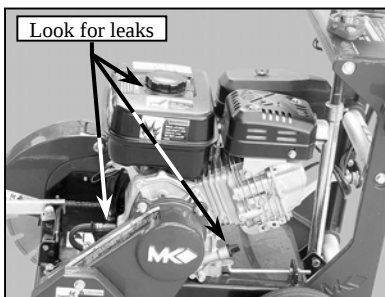
The pre-start inspection should be performed before beginning any job.

If Diamond Blade is worn, replace the blade before starting work.



(A)

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



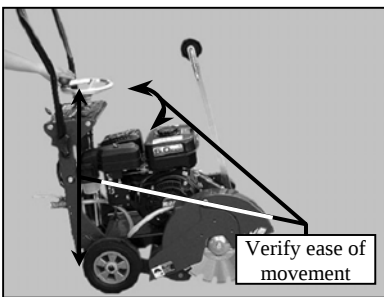
(B)

Inspect Engine for leaks



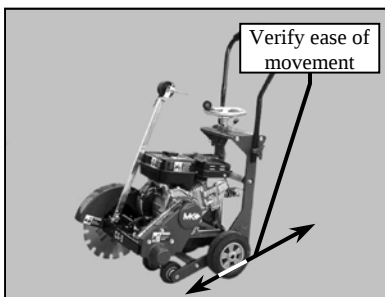
(C)

Inspect the MK CX-3 for general damage and/or loose hardware



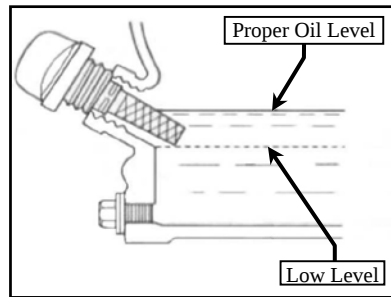
(D)

Verify the Height Adjusting Wheel moves freely and the CX-3 moves up and down smoothly



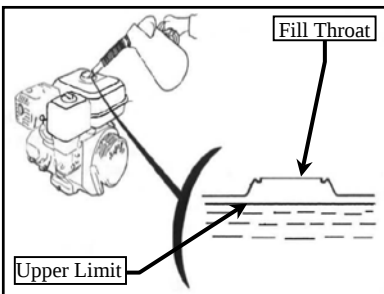
(E)

Verify the CX-3 rolls freely



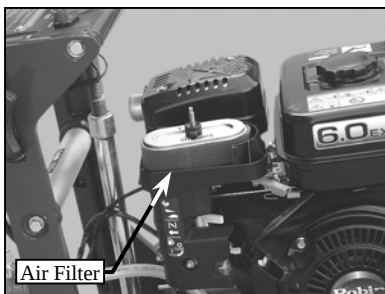
(F)

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)

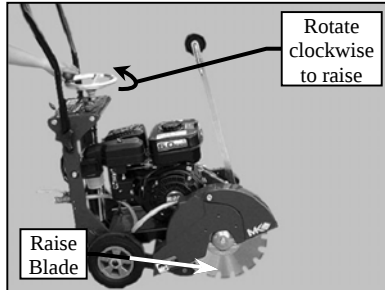
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

STARTUP:

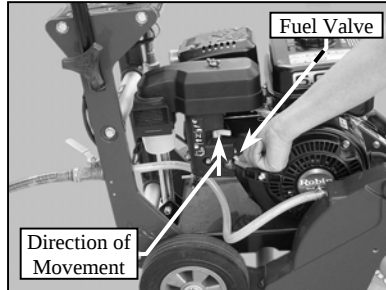
2. Engine Start:

- ⚠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.

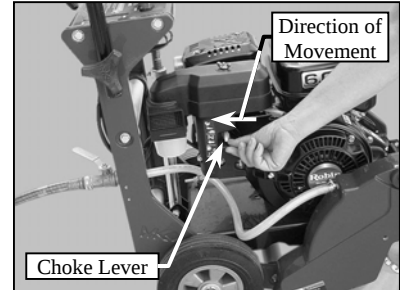
NOTE: If restarting a warm engine the Choke Lever may be left in the Half Open or in the OPEN position.



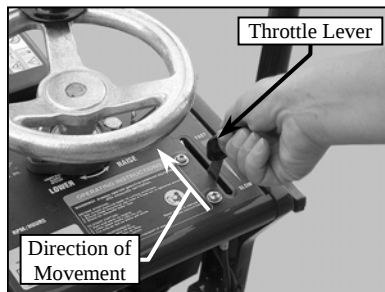
(A)
Use the Depth Control Wheel to raise the Blade clear of the floor



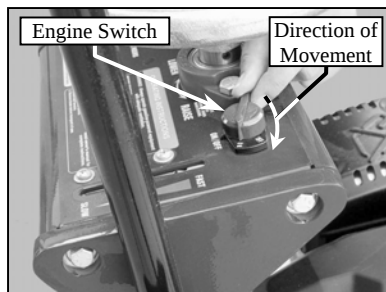
(B)
Place Fuel Valve in the ON position



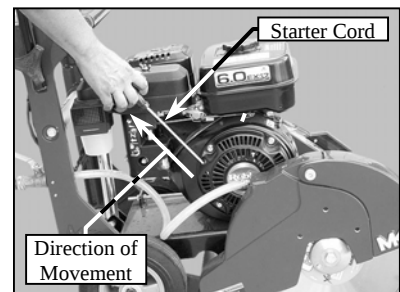
(C)
Place Choke Lever in the CLOSED position



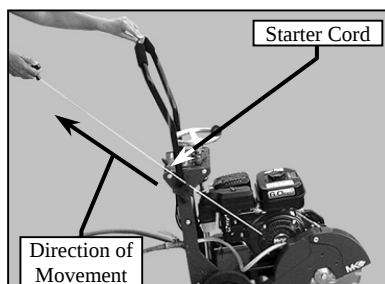
(D)
Move the Throttle Lever to 1/3rd open



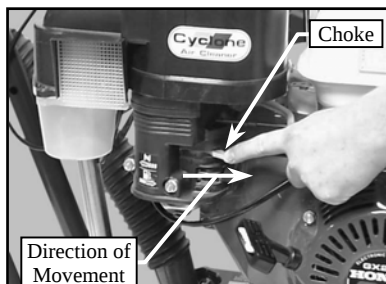
(E)
Place Engine Switch in the ON position



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



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



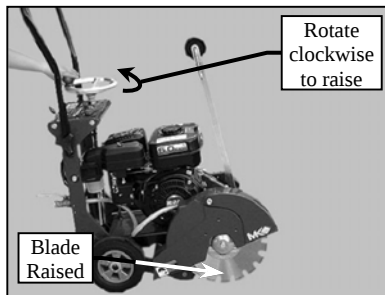
(H)
Place Choke Lever in the OPEN position when engine is warm

SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

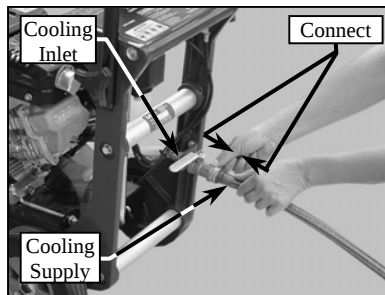
OPERATION:

3. Standard Operation:

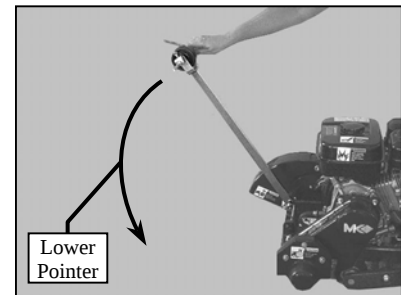
The following is a brief overview of operating the CX-3.



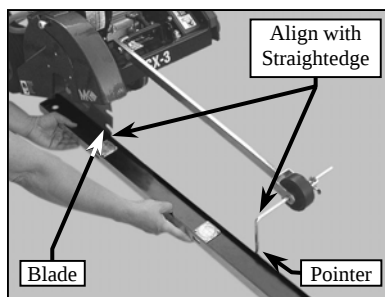
(A)
Verify the Blade is clear of the operating surface



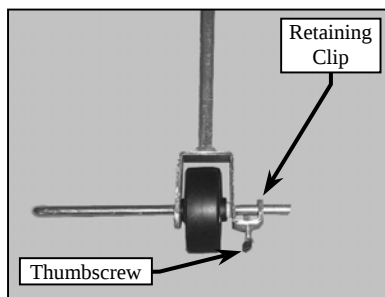
(B)
Attach the cooling supply hose to the Cooling Inlet of the CX-3



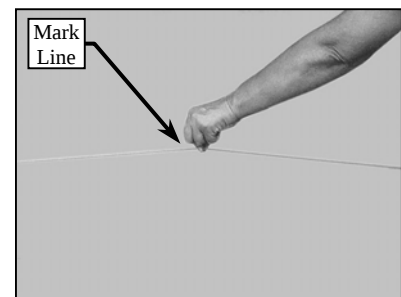
(C)
Lower the Pointer Assembly



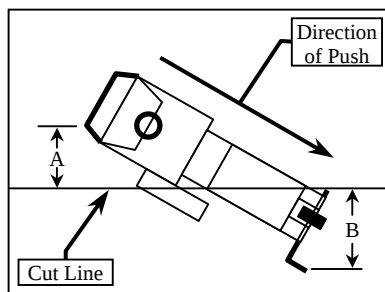
(D)
Using a Straightedge, align the Pointer to the Blade



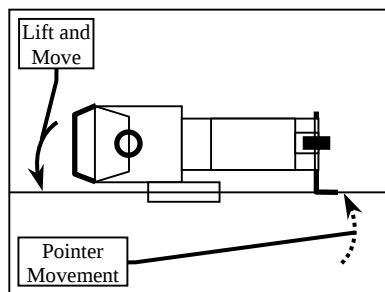
(E)
Tighten the Retaining Clip Thumbscrew



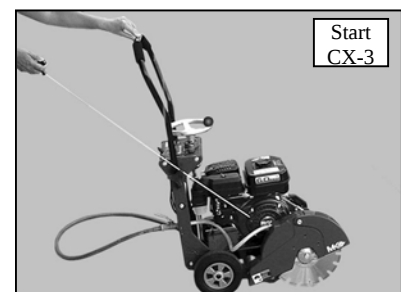
(F)
Layout and mark the area to be cut using a Chock-line or etc.



(G)
Push the saw diagonally across the marked cut line and stop when the distance from the rear of the saw to the line (distance A) and the distance from the pointer to the line (distance B) are approximately equal

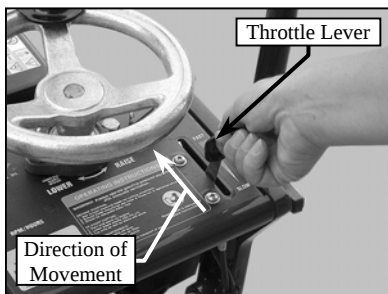


(H)
Lift the rear wheels slightly off the ground and swing the rear of the saw around until the pointer and Blade are over the line; do not tilt the saw too far forward to keep the Blade from contacting the concrete

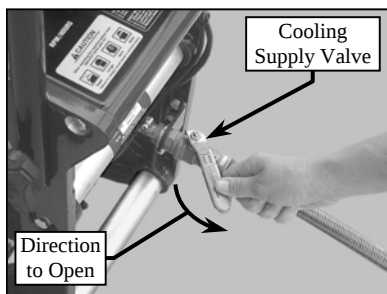


(I)
Start the CX-3 using the Engine Start procedure on Page 16

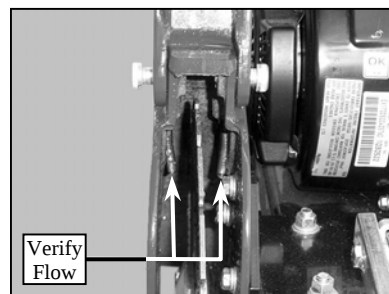
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



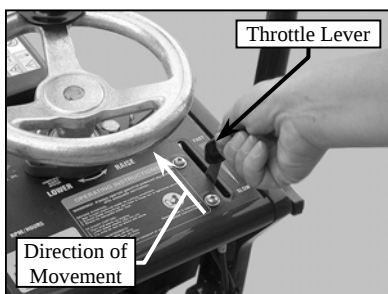
(I)
With the engine running adjust the throttle approximately half way



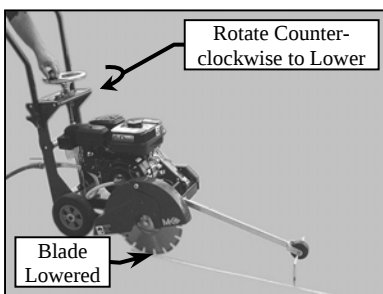
(J)
Open Cooling Supply Valve



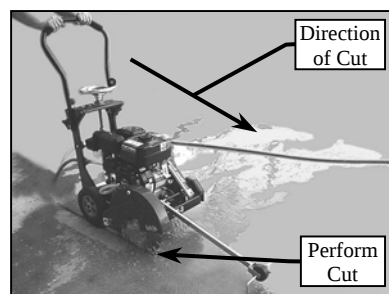
(K)
Verify proper cooling flow and adjust the water flow on the blade to a desired amount



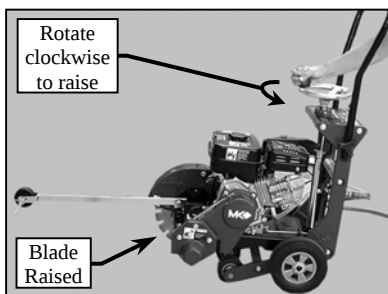
(L)
Adjust the throttle as needed to make the cut



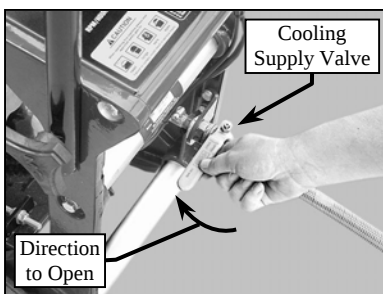
(M)
Slowly lower the Blade until the desired level is reached and begin the cut



(N)
Perform the cut using only enough pressure to follow the original marked line. **Do not attempt to steer the saw**



(O)
When the Cut is Complete, Raise the Blade

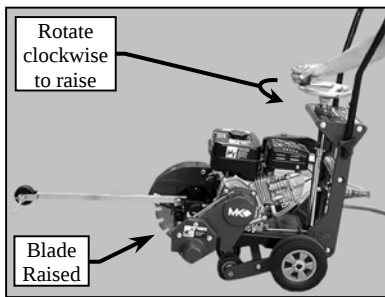


(P)
Close Cooling Supply Valve

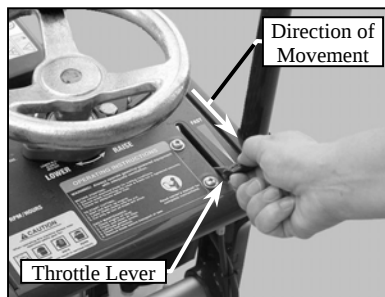
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN

SHUTDOWN:

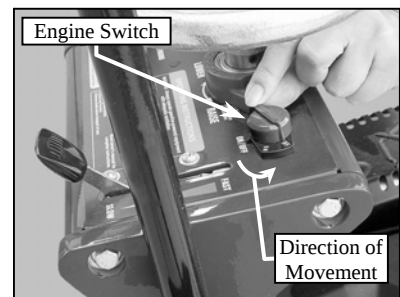
4. Normal Engine Shutdown:



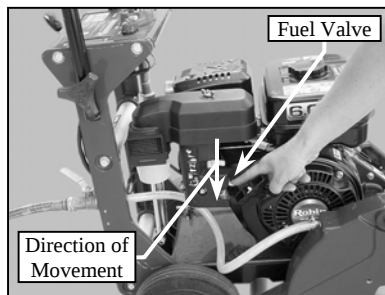
(A)
Raise or Verify the Blade is raised



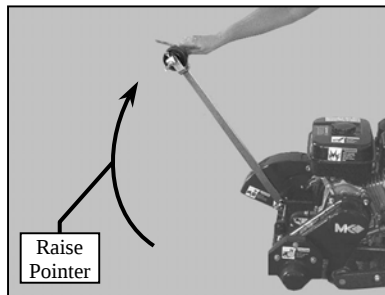
(B)
Move the Throttle Lever to the minimum "Slow" position to lower the Blade speed



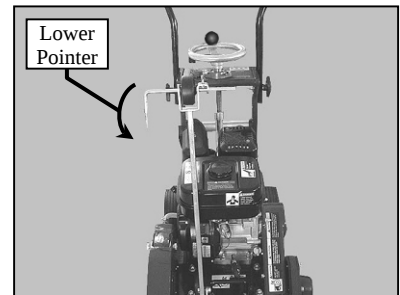
(C)
Place Engine Master Switch in the OFF position



(D)
Place Fuel Valve in the OFF position

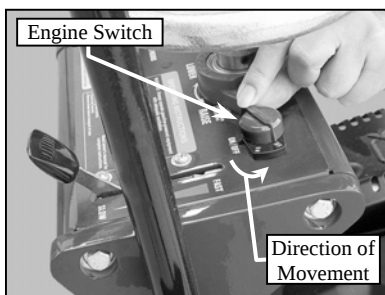


(E)
Raise the Pointer Assembly

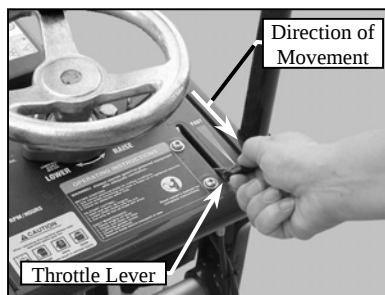


(F)
Rotate the Pointer downward

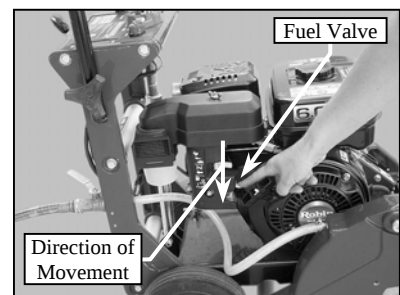
5. Emergency Engine Shutdown:



(A)
Place Engine Master Switch in the OFF position

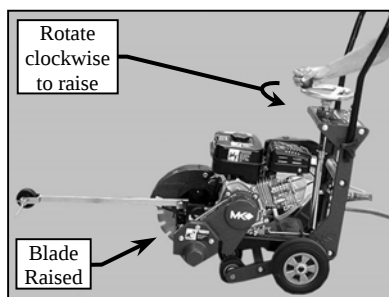


(B)
Move the Throttle Lever to lower blade speed

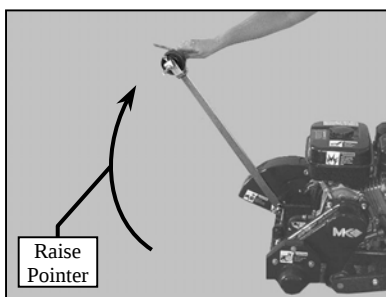


(C)
Place Fuel Valve in the OFF position

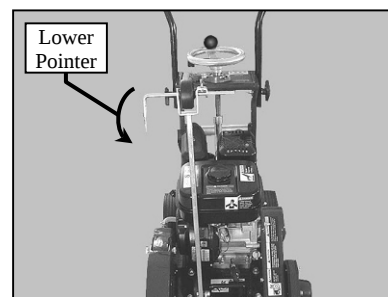
SETUP, STARTUP, ADJUSTMENT, OPERATION and SHUTDOWN



(D)
Raise the Blade



(E)
Raise the Pointer Assembly

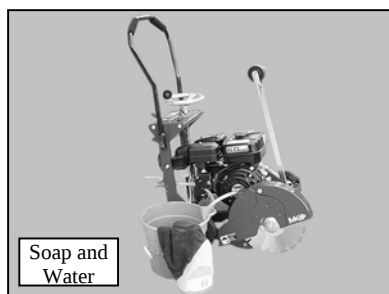


(F)
Rotate the Pointer downward

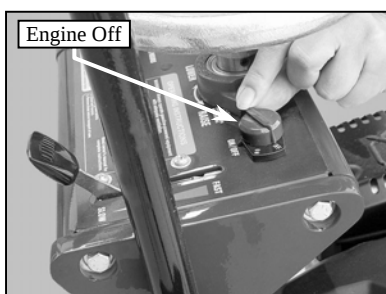
6. Cleanup:

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

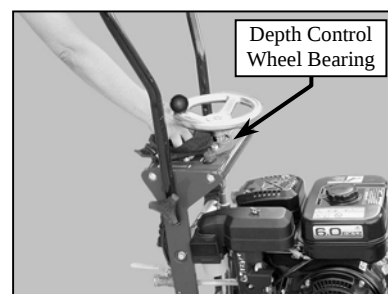
- NOTE:
1. To extend operating life, the Concrete Saw should be cleaned following every use.
 2. Using a garden hose or pressure washer can force water into the air cleaner or muffler opening.
 3. Use care when cleaning around electrical components.



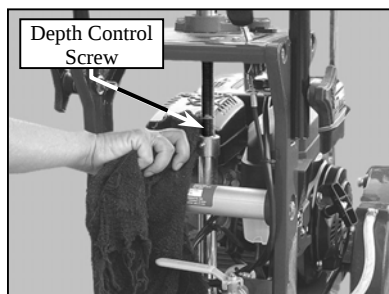
(A)
Clean the CX-3 with soap and water



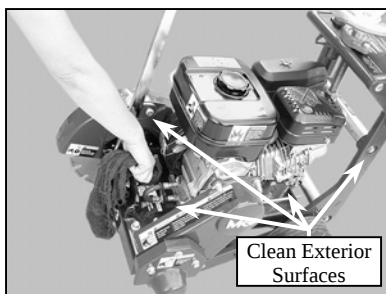
(B)
Verify the engine is off and cool before beginning to clean



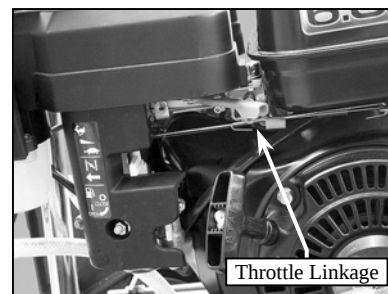
(C)
Clean around the Depth Control Wheel bearing



(D)
Clean the Depth Control Screw



(E)
Clean the remainder of the exterior surface of the CX-3 (except the engine)



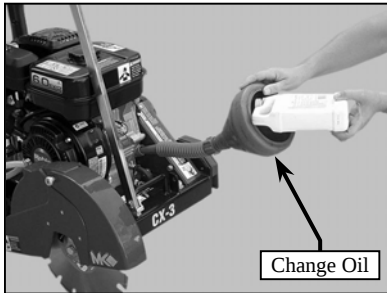
(F)
Clean engine throttle linkage with a dry cloth

MAINTENANCE AND TROUBLESHOOTING

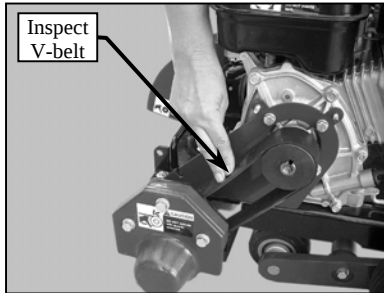
MAINTENANCE:

1. New Maintenance:

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



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

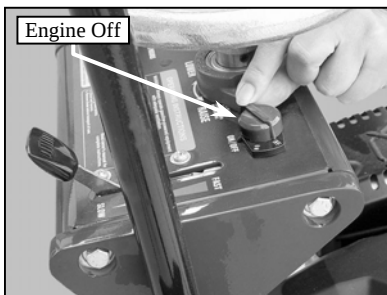


(B)
Check and adjust tension on all V-belts following 1st 48 hours of operation (See V-belt Inspection)

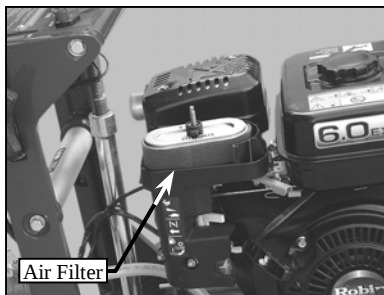
2. Maintenance Following Use:

The following maintenance should be performed following each use. Use Light oil, such as WD-40 or 3 in 1 when lubricating parts.

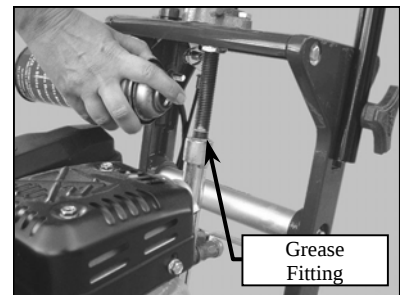
NOTE: Due to the material used in the Blade and Shaft, it is critical that Steps C and D be performed.



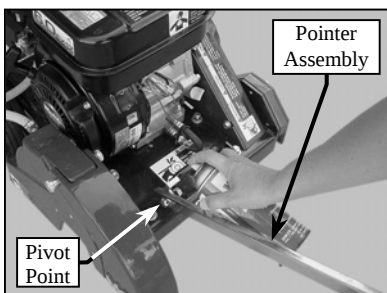
(A)
Shutdown the Engine
(See Normal Engine Shutdown)



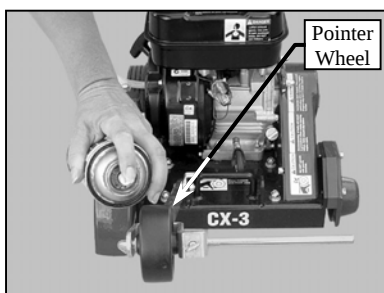
(B)
Check Air Filter for cleanliness
(See Maintenance section if dirty)



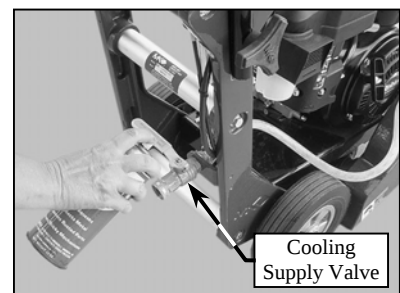
(C)
Lubricate the Grease fitting



(D)
Lubricate the pivot point of the Pointer Assembly

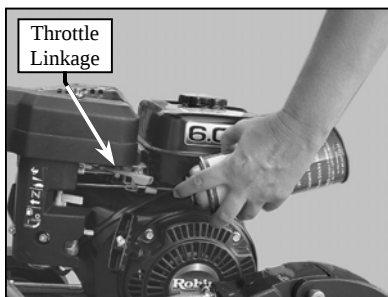


(E)
Lubricate the Pointer Wheel Assembly

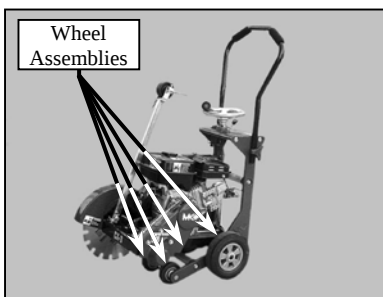


(F)
Lubricate the Cooling Supply Valve

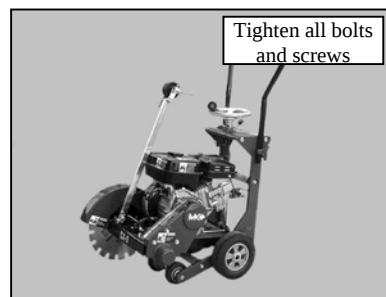
MAINTENANCE AND TROUBLESHOOTING



(G)
Lubricate the engine Throttle Linkage



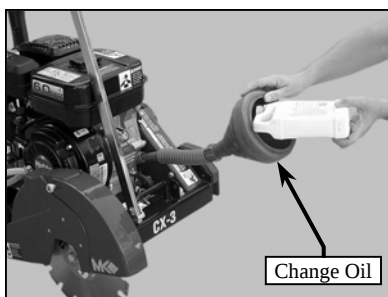
(H)
Lubricate the Wheel Assemblies



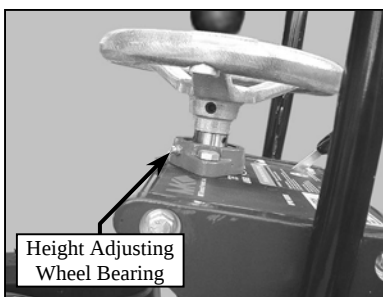
(I)
Verify the tightness of all bolts and screws found on the CX-3

3. Weekly (50 Hours) and Monthly (200 Hours) Maintenance:

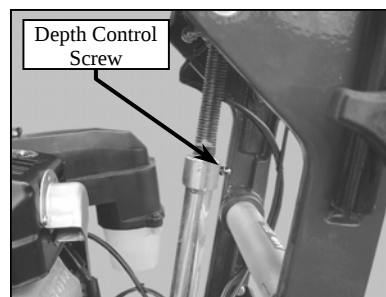
The following should be performed monthly. Items should be lubricated using waterproof grease.



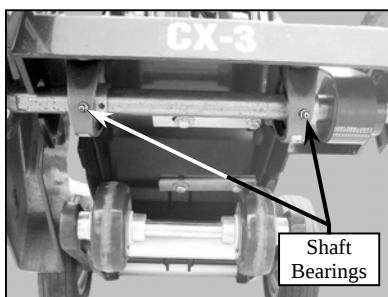
(A)
Change engine oil
(Every 100 Hours; See Engine Oil Change)



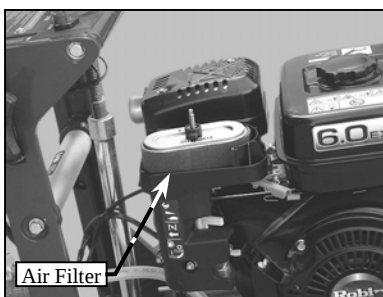
(B)
Lubricate the Height Adjusting Wheel Bearing (Monthly)



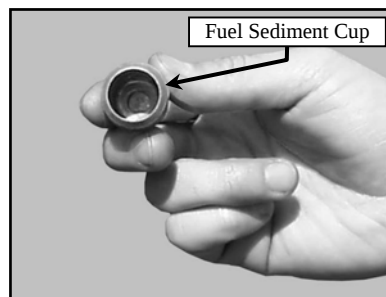
(C)
Lubricate the Depth Control Screw (Monthly)



(D)
Lubricate the Blade Shaft Bearings (Monthly)

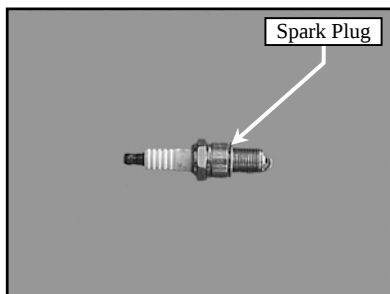


(E)
Clean engine Air Filter Weekly and Replace Monthly
(See Engine Air Filter Inspection Cleaning and Replacement)

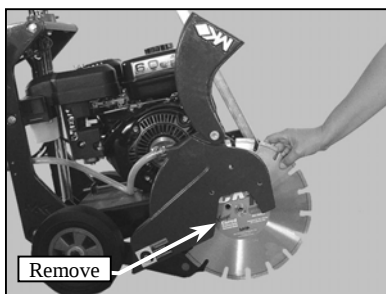


(F)
Clean Fuel Sediment Cup Monthly
(See Fuel Sediment Cup Cleaning)

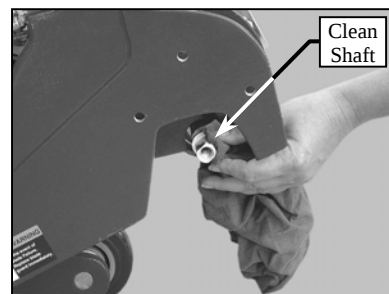
MAINTENANCE AND TROUBLESHOOTING



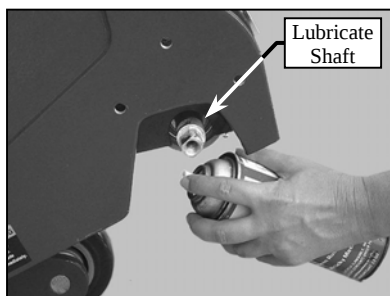
(G)
Clean Spark Plug Weekly and
Readjust Spark Plug Monthly (See
Spark Plug Adjustment and
Replacement)



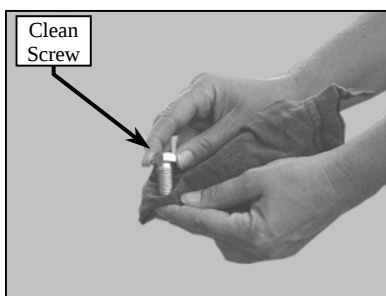
(H)
Remove the Diamond Blade
(See Blade Removal /Installation
section)



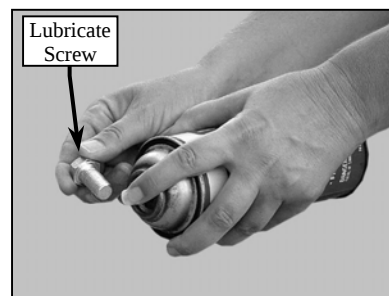
(I)
Clean the Blade Shaft



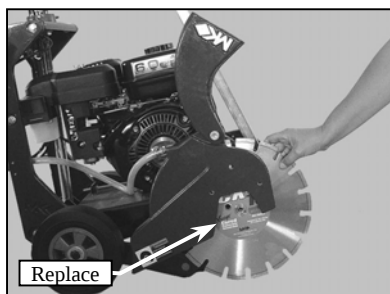
(J)
Lubricate the Blade Shaft



(K)
Clean the Blade Retaining Screw



(L)
Lubricate the Blade Retaining
Screw

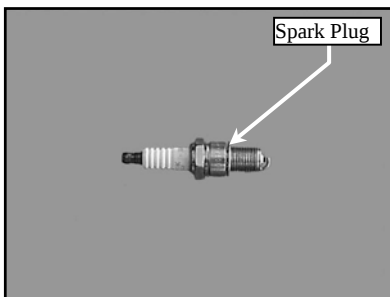


(M)
Replace the Diamond Blade (See
Blade Removal /Installation
section)

MAINTENANCE AND TROUBLESHOOTING

4. 500 Hour and 1000 Hour Maintenance:

Perform the following maintenance every 500 hours.



(A)

Replace Spark Plug (See Spark Plug Adjustment and Replacement)



(B)

Have Authorized Repair Shop perform remainder of 500-hour maintenance (See Robin Owners Manual)

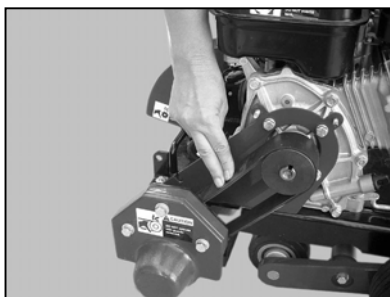


(B)

Have Authorized Repair Shop perform remainder of 1000-hour maintenance (See Robin Owners Manual)

5. Yearly and Two-Year Maintenance:

Perform the following maintenance every year.



(C)

Inspect belts

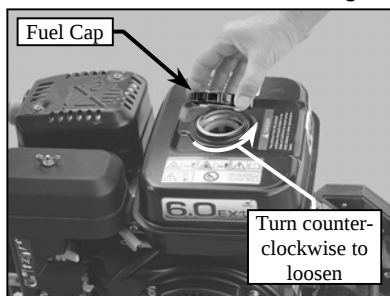
MAINTENANCE AND TROUBLESHOOTING

6. Check Fuel Level:

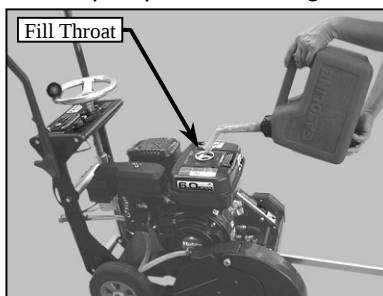
⚠ WARNING

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.

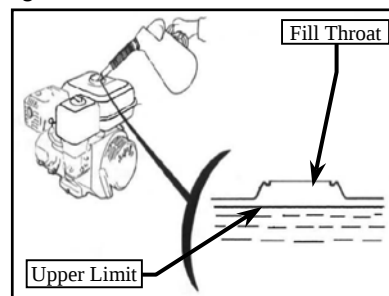
- NOTES:
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Damage caused by spilled fuel IS NOT covered under the warranty.
 2. DO NOT use stale or contaminated gasoline or an oil/gasoline mixture.
 3. Use unleaded gasoline with a pump octane rating of 86 or higher.



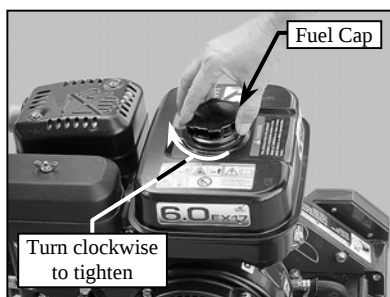
(A)
Remove Fuel Cap



(B)
Fill Fuel Tank



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



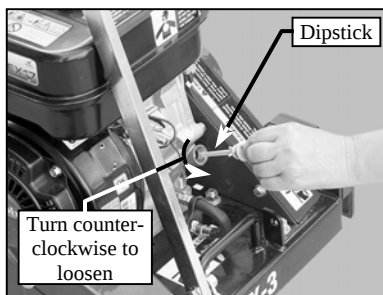
(D)
Install Fuel Cap

7. Checking Oil Level:

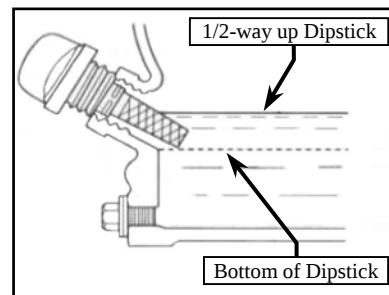
- NOTES:
1. Engine Oil Capacity is 1.16 US qt (1.1 l).
 2. When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to "cross-thread."



(A)
Verify the Engine is upright and level

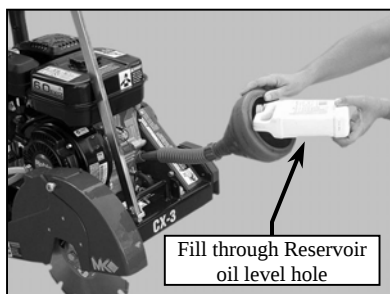


(B)
Remove Dipstick

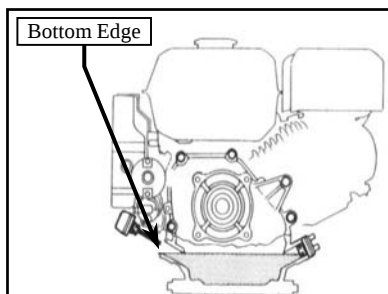


(C)
Check Oil Level if the level is normal, go to step F, if low, go to Step D

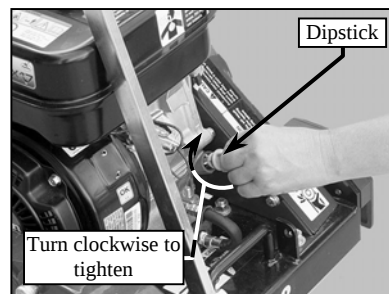
MAINTENANCE AND TROUBLESHOOTING



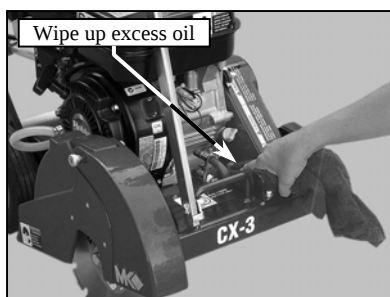
(D)
Fill Oil Reservoir



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



(F)
Install Dipstick



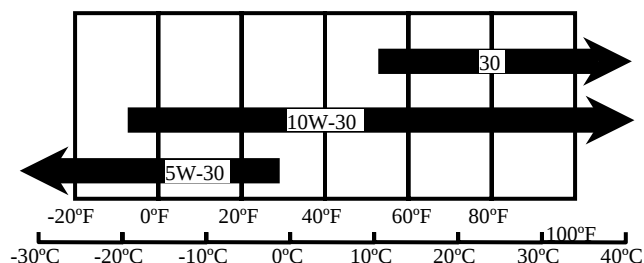
(G)
Clean up excess oil

MAINTENANCE AND TROUBLESHOOTING

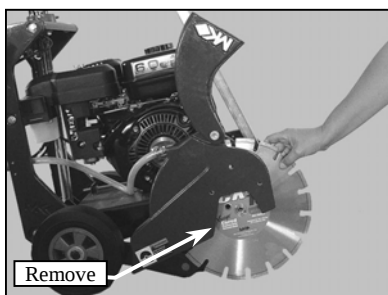
8. Changing Oil:

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

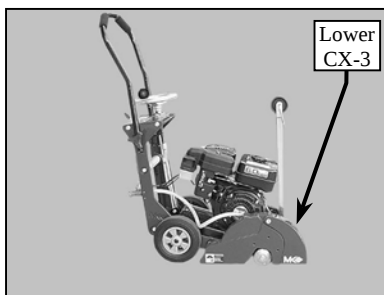
SAE 10W-30 is recommended for general use. Other viscosity oil shown in the chart below may be used when the average temperature in your area is within the recommended range.



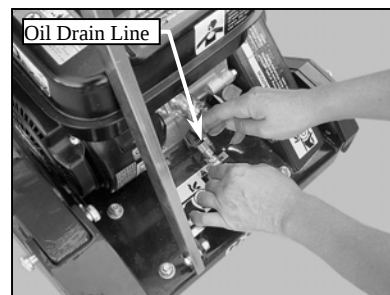
- NOTES:
1. Drain used oil while the engine is warm.
 2. Conform to Federal, State and Local laws, codes and ordinances relative to environmental protection for oil disposal.



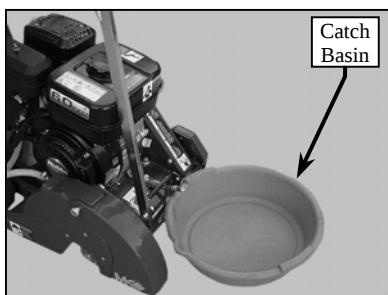
(A)
Remove the Diamond Blade
(See Blade Removal /Installation
section)



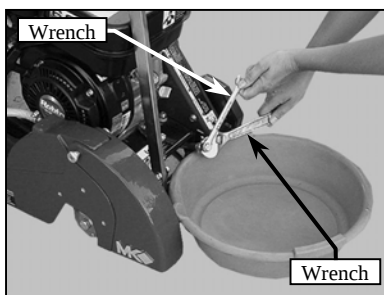
(B)
Lower the CX-3 to its lowest
position



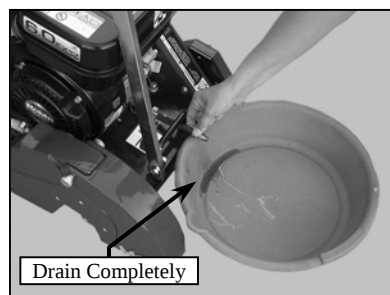
(C)
Free the Oil Drain Line



(D)
Place a catch basin below the
Oil Drain Line

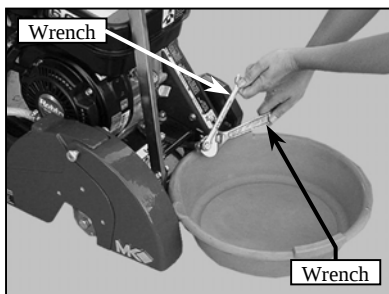


(E)
Remove the Drain Cap using
two 1/2 -inch or adjustable
wrenches

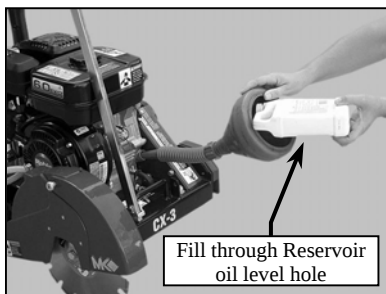


(F)
Drain Oil the engine oil (conform to
Federal, State and Local laws for
disposal)

MAINTENANCE AND TROUBLESHOOTING

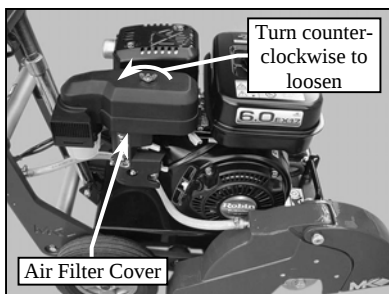


(G)
Using two 1/2 – inch or adjustable wrenches, install the Drain Cap onto the Oil Drain Line (Ensure the Cap is tight)

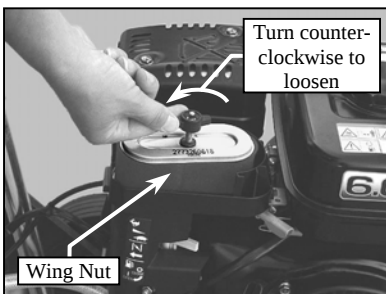


(H)
Fill the Oil Reservoir (See Checking Oil Level for filling instructions)

9. Engine Air Filter Inspection Cleaning and Replacement:



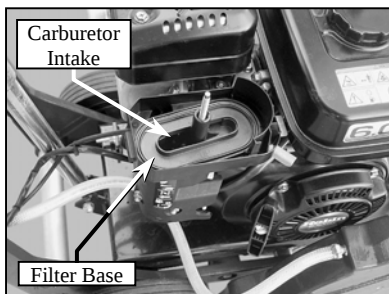
(A)
Remove the Air Filter Cover



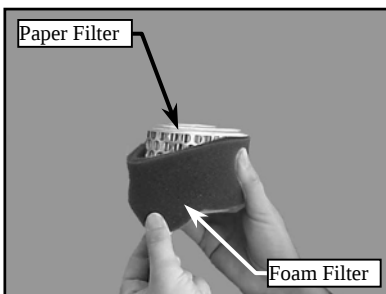
(B)
Remove the Dual Air Filter Retaining Wing nut



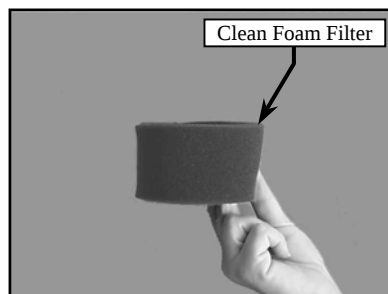
(C)
Remove the Dual Air Filter



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

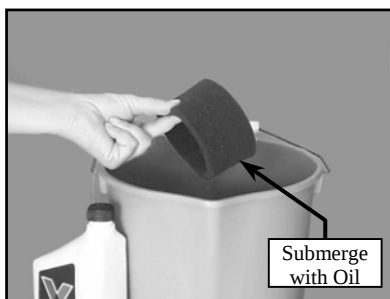


(E)
Separate the outer Foam Filter from the inner Paper Filter

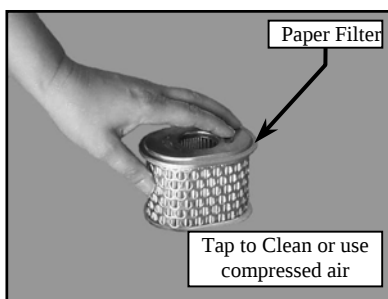


(F)
Clean the Foam Filter with warm soapy water – allow to air dry

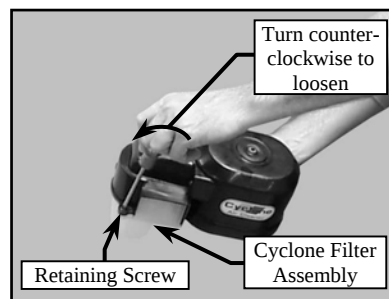
MAINTENANCE AND TROUBLESHOOTING



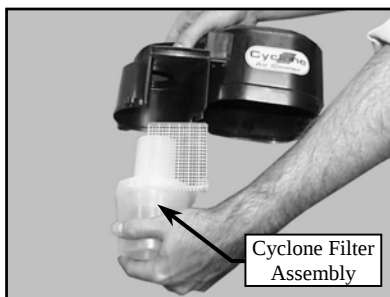
(G)
Dip the Foam Filter in clean engine oil – Squeeze out excess oil



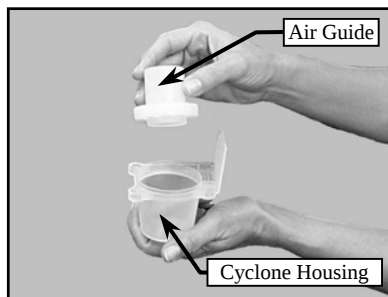
(H)
Inspect Paper Filter, tap on hard surface to clean or use 30psi air (direct air inside filter to clean)



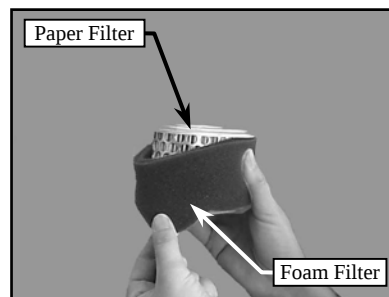
(I)
Remove the 3 Cyclone Filter Assembly retaining screws



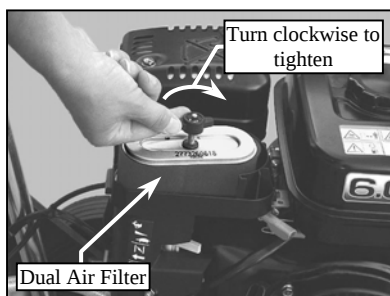
(J)
Remove the Cyclone Filter Assembly from the Air Filter Cover



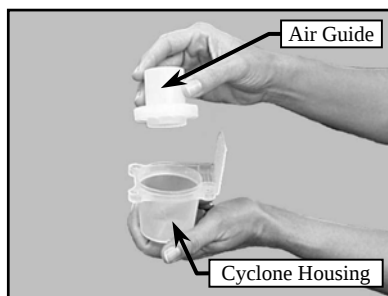
(K)
Separate the Air Guide from the Cyclone Housing and clean using soap and water



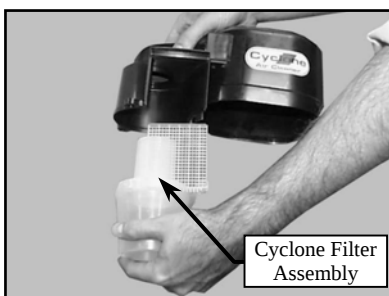
(K)
Install the Foam Filter over the Paper Filter



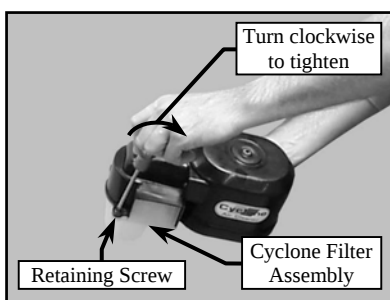
(L)
Install the Dual Air Filter



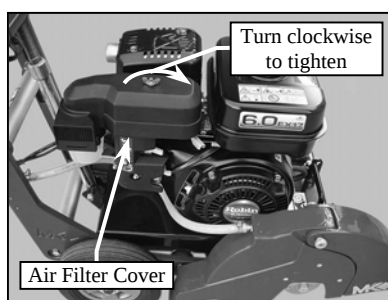
(M)
Install the Air Guide into the Cyclone Housing



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



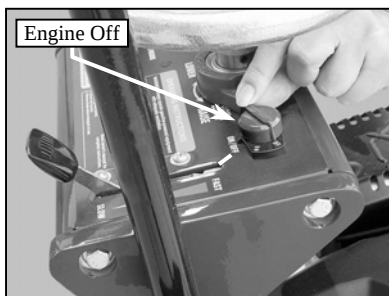
(O)
Install the 3 Cyclone Filter Assembly retaining screws



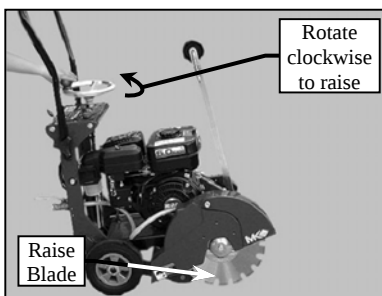
(P)
Install the Air Filter Cover

MAINTENANCE AND TROUBLESHOOTING

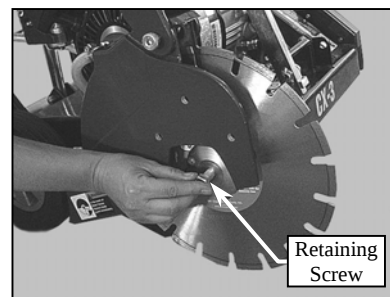
10. Diamond Blade Change-out:



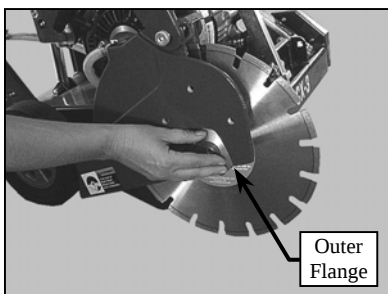
(A)
Verify the Engine Switch is in the OFF position



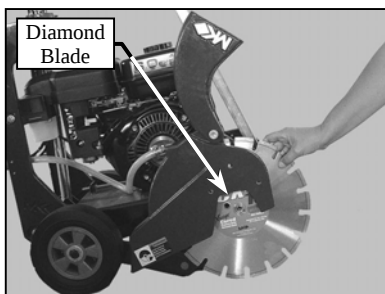
(B)
Use the Depth Control Wheel to raise the Blade clear of the floor



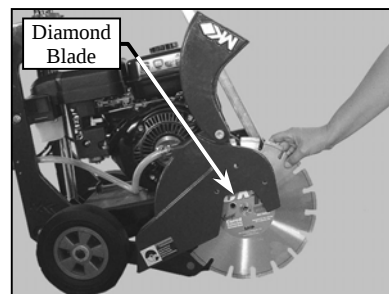
(C)
Remove the Blade Retaining Screw



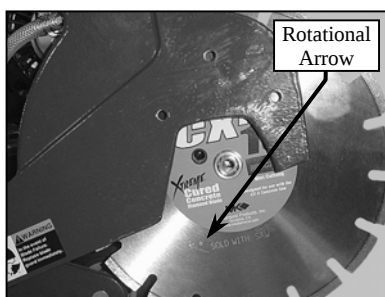
(D)
Remove the Outer Flange



(E)
Remove the old Diamond Blade

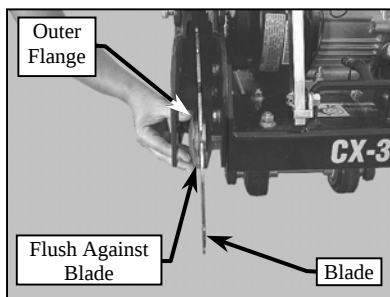


(F)
Install new Diamond Blade onto Blade Shaft



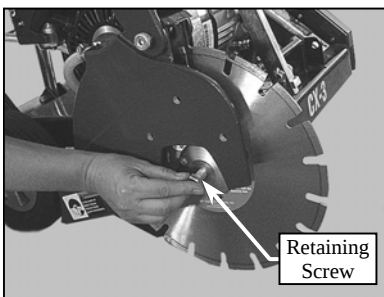
(G)
Verify the direction of rotation arrow of the Blade matches the direction of rotation on the CX-3

MAINTENANCE AND TROUBLESHOOTING



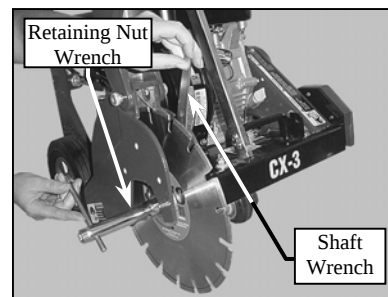
(H)

Install the Outer Flange and verify it is seated against the Blade



(I)

Install the Blade Retaining Screw



(J)

Install the Blade Retaining Screw Wrench and the Blade Shaft Wrench and tighten the Retaining Screw

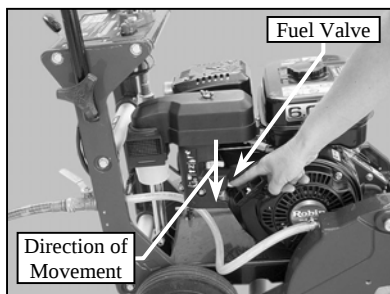
11. Fuel Sediment Cup Cleaning:

⚠ WARNING

1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
2. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.
3. Wipe up spills immediately.

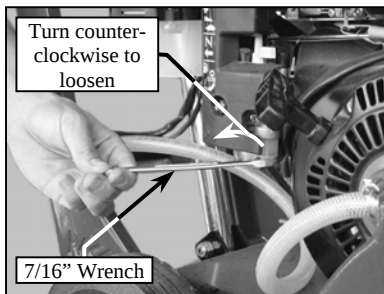
NOTES:

1. Conform to Federal, State and Local laws for the proper disposal of fuel
2. Fuel can damage paint and plastic. When filling, be careful not to spill fuel. Damage caused by spilled fuel IS NOT covered under the warranty.
3. DO NOT use stale or contaminated gasoline or an oil/gasoline mixture.
5. When installing the Sediment Cup ensure the threads of the cup are aligned with the threads on the engine so as not to "cross-thread the cup."



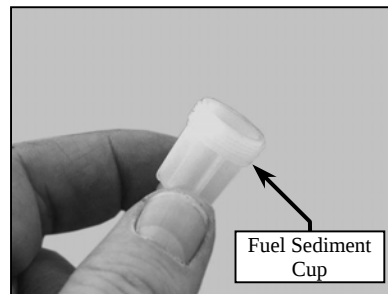
(A)

Place Fuel Valve in the OFF position



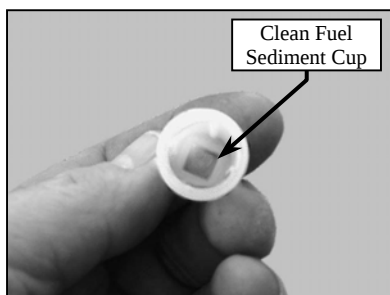
(B)

Loosen the Fuel Sediment Cup



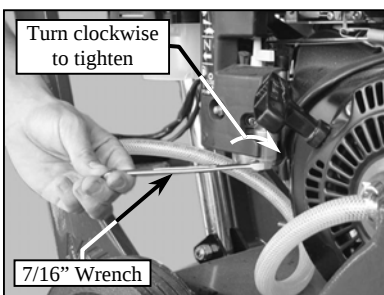
(C)

Remove the Fuel Sediment Cup (The Cup will contain fuel)



(D)

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



(E)

Reinstall and tighten the Fuel Sediment Cup

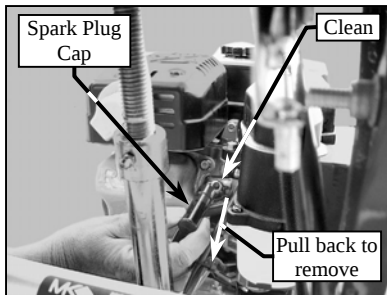
MAINTENANCE AND TROUBLESHOOTING

12. Spark Plug Adjustments and Replacement:

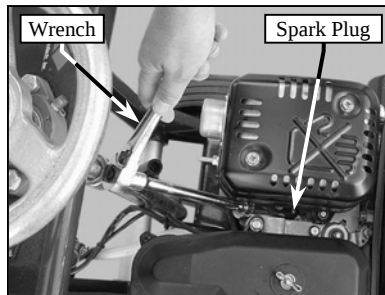
⚠ CAUTION DO NOT work around the engine while hot.

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

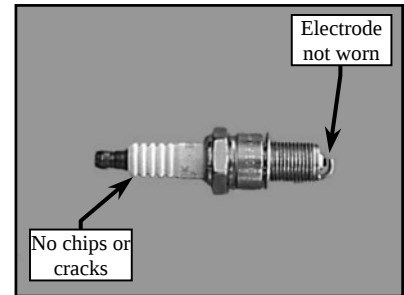
2. When installing the Spark Plug, ensure the threads of the are aligned with the threads in the engine so as not to “cross-thread” the plug.



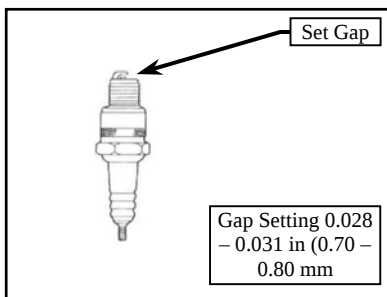
(A)
Remove Spark Plug Cap and clean around the cap and spark plug



(B)
Remove the Spark Plug using a 13/16-inch Spark Plug Socket



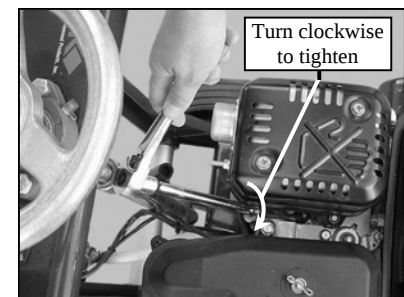
(C)
Inspect Spark Plug if worn replace Spark Plug and go to step E



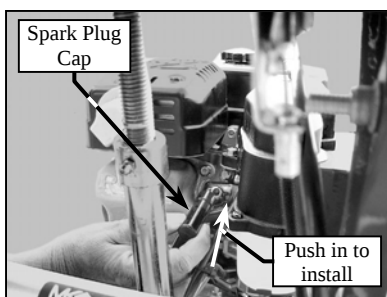
(D)
Clean with a wire brush and re-gap the Spark Plug



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



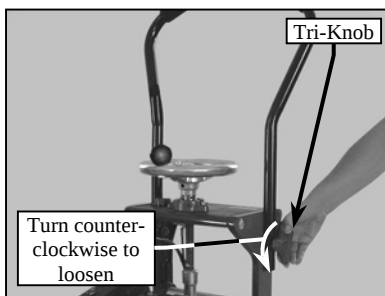
(F)
Tighten the Spark Plug If new, tighten 1/2-turn, if old, tighten 1/8-1/4 turn using a 13/16-inch Spark Plug Socket



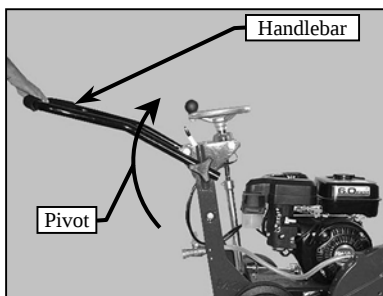
(G)
Install the Spark Plug Cap verify the Spark Plug Cap is seated

MAINTENANCE AND TROUBLESHOOTING

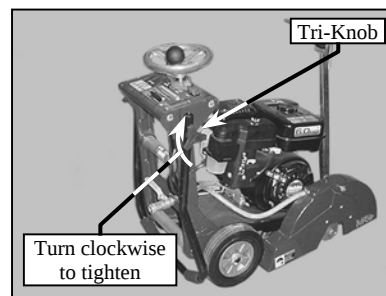
13. Handlebar Repositioning for Storage:



(A)
Loosen the Tri-Knobs on both sides of the Handlebar

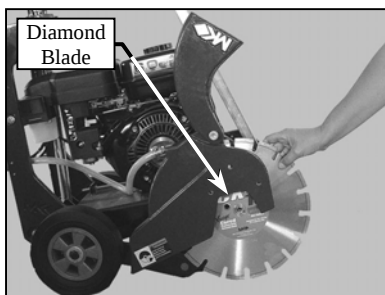


(B)
Pivot the Handlebar in the forward direction towards the motor

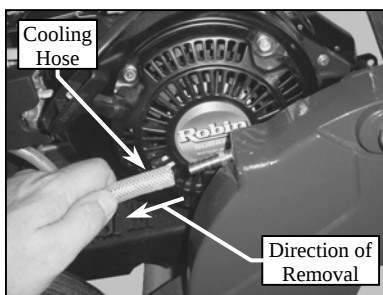


(C)
Tighten the Tri-Knobs on both sides of the Handlebar

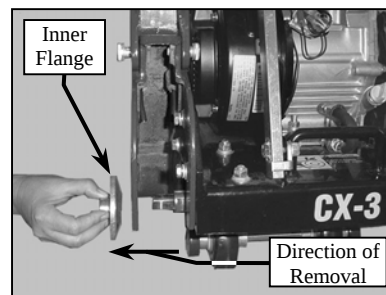
14. Blade Repositioning:



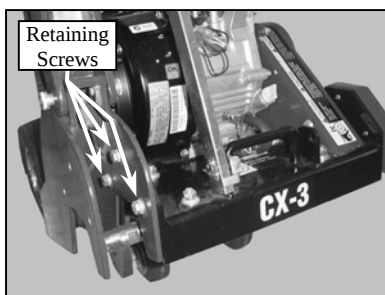
(A)
Install new Diamond Blade onto Blade Shaft



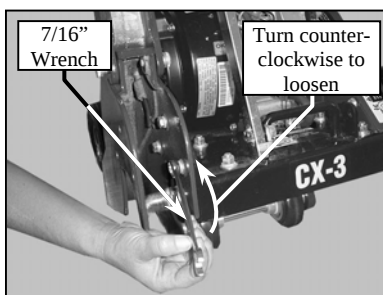
(B)
Remove the Cooling Transfer Hose from the Blade Guard



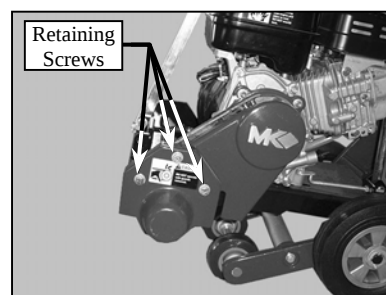
(C)
Remove the Inner Blade Flange



(D)
Locate the 3 Blade Guard Retaining Screws

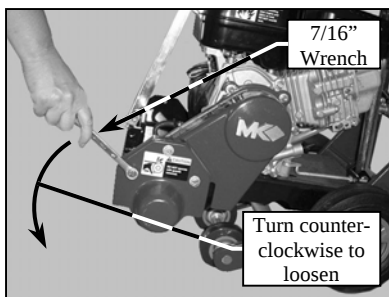


(E)
Remove the Blade Guard Retaining Screws and Remove the Blade Guard

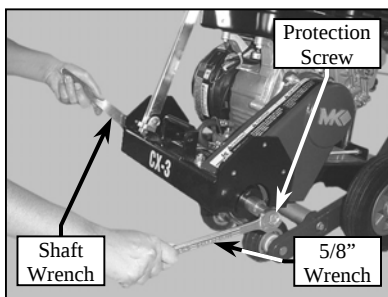


(F)
Locate the Blade Shaft Cover Retaining Screws

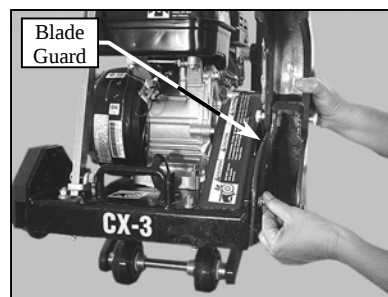
MAINTENANCE AND TROUBLESHOOTING



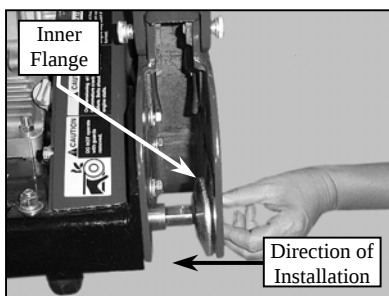
(G)
Remove the Blade Shaft Cover
Retaining Screws and the Blade
Shaft Cover



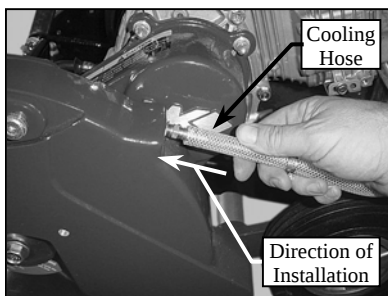
(H)
Remove the Shaft Thread
Protection Screw using the Shaft
Wrench and a 5/8" Wrench



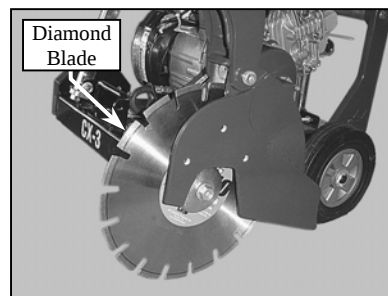
(I)
Install the Blade Guard on the
opposite side of the CX-3



(J)
Install the Inner Blade Flange



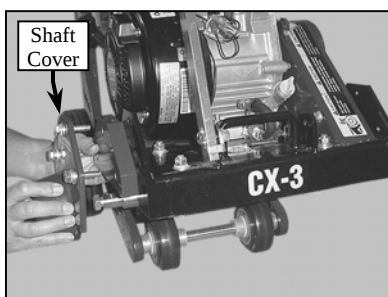
(K)
Install the Cooling Transfer Hose
from the Blade Guard



(L)
Install the Blade
(See Blade Removal /Installation
section)



(M)
Install the Shaft Thread Protection
Screw



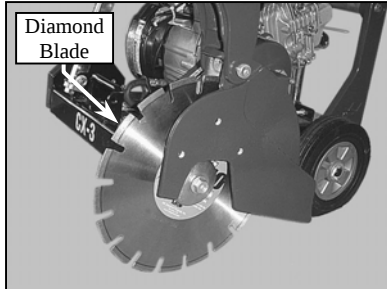
(N)
Install the Blade Shaft Cover

MAINTENANCE AND TROUBLESHOOTING

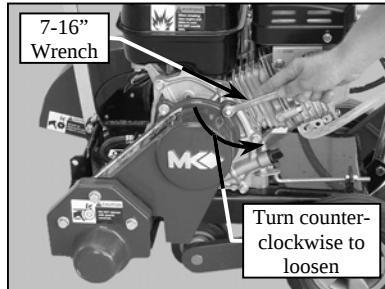
14. Micro-V Belt, Adjustment and Replacement:

In order to ensure the CX-3 operates at peak efficiency, the power transmission Micro-V belt should be inspected monthly and changed if any signs of damage and/or excessive wear is observed.

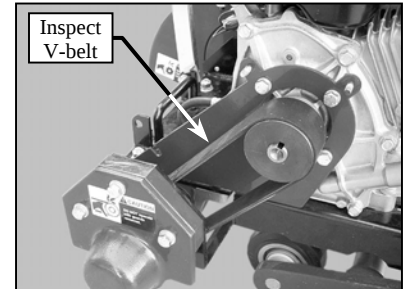
NOTE: 1. When a new belt is installed, it should be inspected and re-tensioned after the first forty-eight (48) hours of operation.



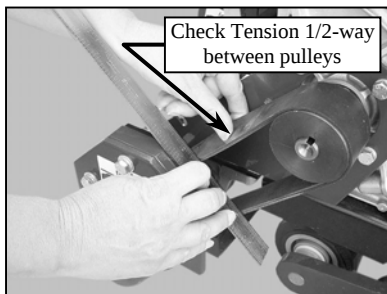
(A)
Remove the Blade
(See Blade Removal /Installation
section)



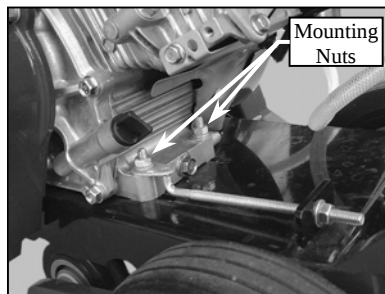
(B)
Locate and remove the Belt Guard
Retaining Screws using a 7/16-
wrench and then remove the Belt
Guard



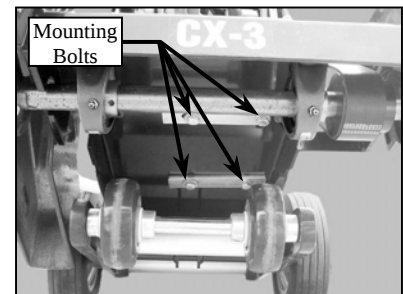
(C)
Inspect the V-belt for excessive
wear, cracks and cuts – if worn,
proceed to Step E



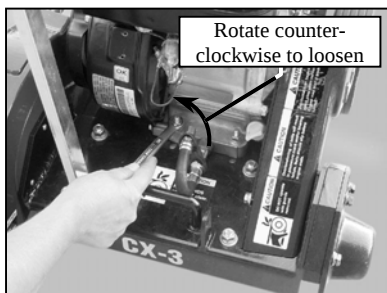
(D)
Check V-belt for proper tension if
tension is correct, go to Step R
(Proper tension is approximately
1/8-inch deflection of the belt)



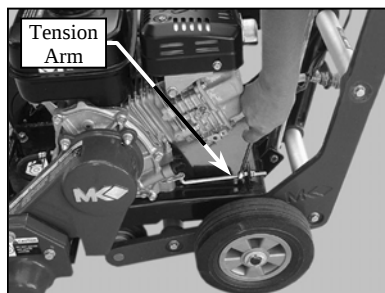
(E)
Locate the 4 upper Engine
Mounting Nuts on both ends of
the CX-3 motor



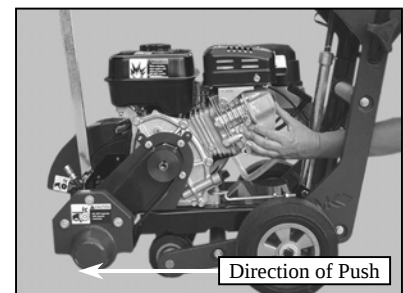
(F)
Locate the 4 Lower Engine
Mounting Bolts on both ends of
the CX-3 motor



(G)
Loosen the Engine Mounting
Bolts using two 1/2-inch wrenches

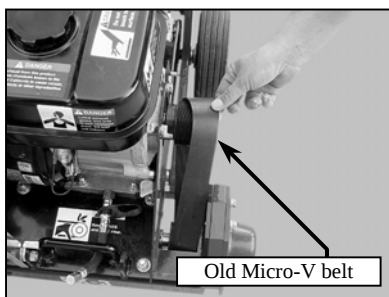


(H)
Loosen the Motor Tension Arm
using a 1/2-inch Wrench

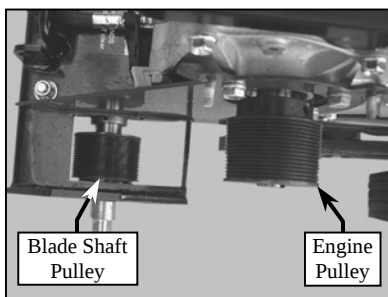


(I)
Push the Motor forward to loosen
the Micro-V belt

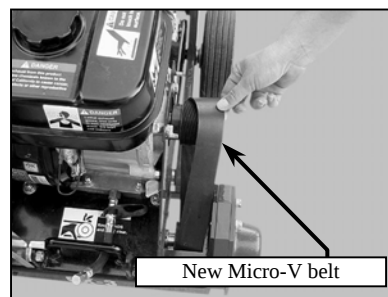
MAINTENANCE AND TROUBLESHOOTING



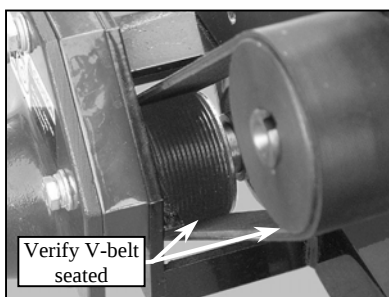
(J)
Remove the old Micro-V belt from the Engine and Blade Shaft Pulleys



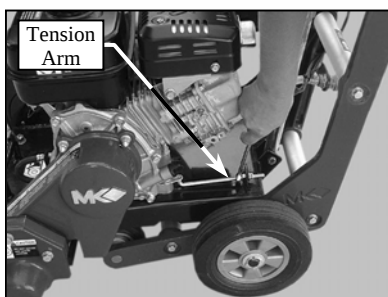
(K)
Clean and verify the alignment of the Engine and Blade Shaft Pulleys



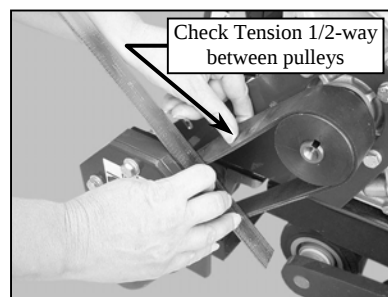
(L)
Obtain and install a new Micro-V belt onto the Engine Blade Shaft Pulleys



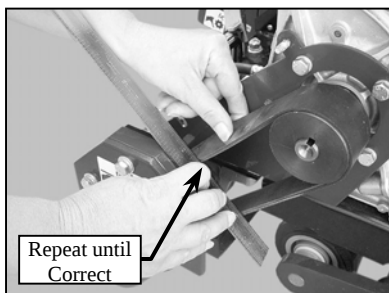
(M)
Verify the Micro-V belt is seated in all grooves of the Engine and Cutting Drum Pulleys



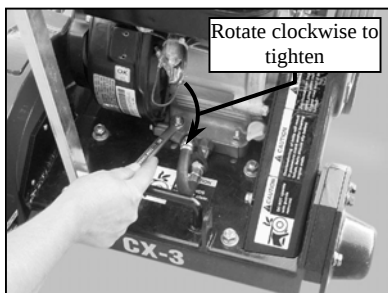
(N)
Tighten the Motor Tension Arm using a 1/2-inch Wrench



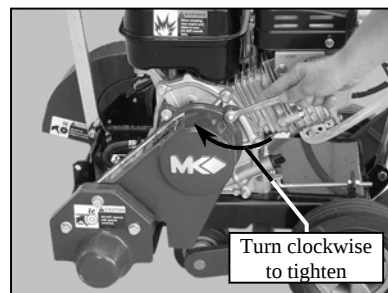
(O)
Check Micro-V belt for proper tension, if tension is correct (Proper tension is approximately 1/8-inch deflection of the belt)



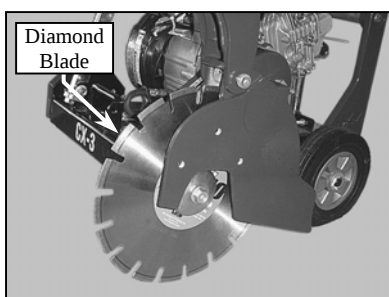
(P)
Repeat Steps N and O until Proper Tension is achieved



(Q)
Tighten the Engine Mounting Bolts using two 1/2-inch wrenches



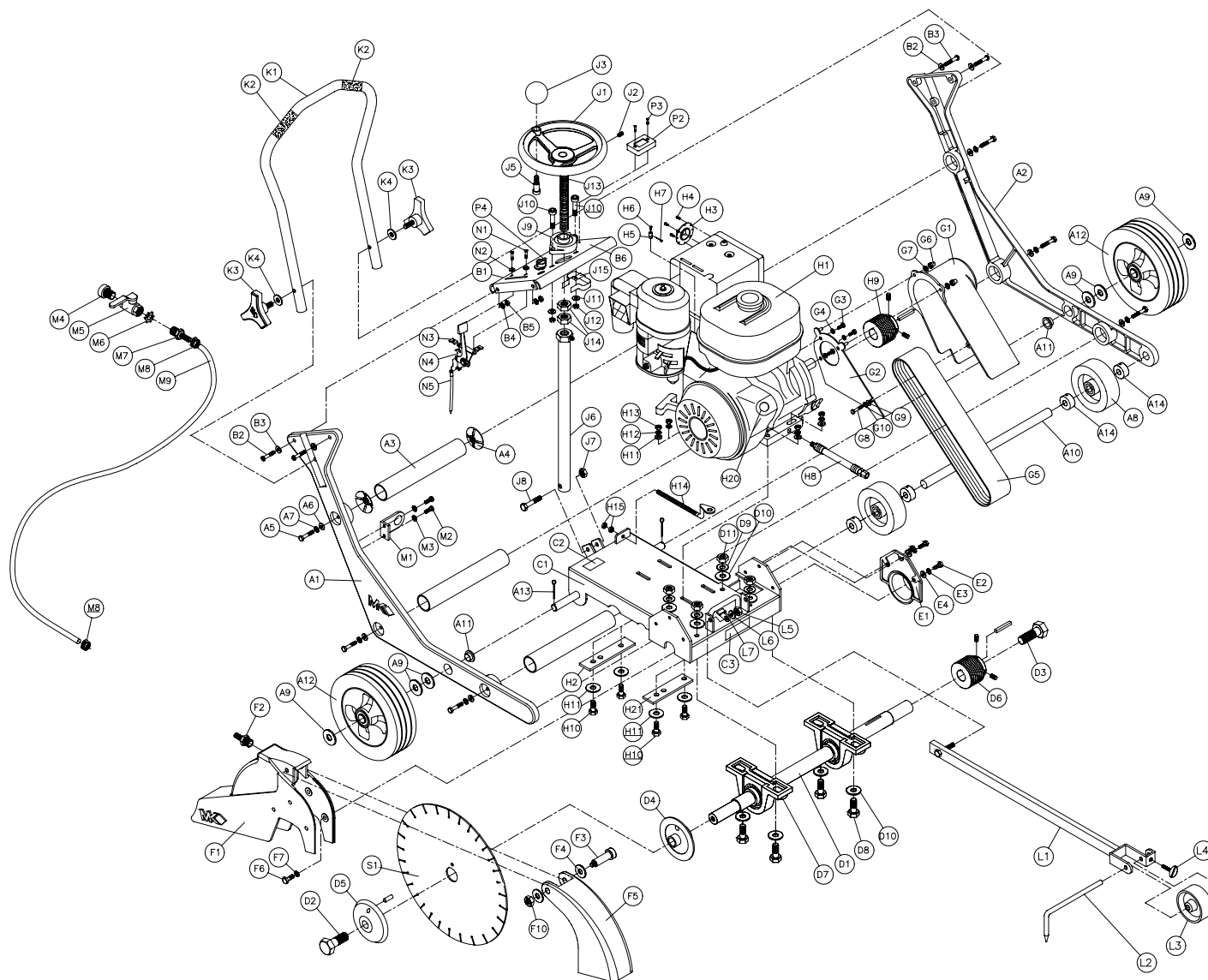
(R)
Install the Belt Guard and Belt Guard Retaining Screws



(S)
Install the Blade
(See Blade Removal /Installation section)

EXPLODED VIEW AND PARTS LIST

EXPLODED VIEW:



EXPLODED VIEW AND PARTS LIST

PARTS LIST:

Item	Description	Qty	MK p/n
A	Assembly, Frame	1	n/a
A1	Casting, Frame, Right	1	159257
A2	Casting, Frame, Left	1	159259
A3	Support, Horizontal Frame	3	158857
A4	Connector, Tube Ø1 3/8 x 5/16-18	6	159206
A5	Screw, 5/16-18 x 1 1/2 Hex Hd. Cap	6	152467
A6	Washer, 5/16 SAE Flat	6	151754
A7	Washer, 5/16 Split Lock	6	151747
A8	Wheel, Front, 4 X 1 1/2	2	150830
A9	Shim, 3/4 x 1 1/4 x .045	6	153699
A10	Axle, Front	1	158862
A11	Bushing, Flange	2	159207
A12	Wheel, Rear, 8 X 2 1/4	2	155986
A13	Pin, Cotter 1/8 x 1.0	4	156613
A14	Collar, Set 3/4	4	153814
B	Assembly, Console	1	n/a
B1	Console, Frame	1	158828
B2	Screw, 5/16-18 x 1 1/2, Hex Head Cap	4	152467
B3	Washer, 5/16 SAE Flat	4	151754
B4	Washer, 5/16 Split Lock	4	151747
B5	Nut, 5/16 Hex	4	101196
B6	Label, Console	1	159208
C	Assembly, Truck	1	n/a
C1	Truck, Weldment	1	159260
C2	Plate, Serial Number	1	157918
C3	Label, CX3	1	159482
C4	Tag, Serial Number, Blank	1	157500
D	Assembly, Blade Shaft	1	n/a
D1	Shaft, Blade,	1	158879
D2	Screw, Blade Shaft, 1/2-13 x 1 Hex Head, Left Hand Thread, Grade 5	1	159203
D3	Screw, Blade Shaft, 1/2-13 x 1 Hex Head, Right Hand Thread, Grade 5	1	159204
D4	Flange, Inner	1	158880
D5	Flange, Outer	1	158881
D6	Pulley, Polly-V 2 1/2 x 1 x J16	1	158470
D7	Bearing, 1" Pillow Block	2	155072
D8	Screw, 3/8-16 X 1 1/2 Hex Head Cap	4	153528
D9	Washer, 3/8 Split Lock	4	150925
D10	Washer, 3/8 SAE Flat	8	101360
D11	Nut, 3/8-16 Hex	4	101188
E	Assembly, Shaft Cover	1	n/a
E1	Casting, Cover, Shaft	1	158843
E2	Screw, 5/16-18 X 1 Hex Head Cap	3	151743
E3	Washer, 5/16 Split Lock	3	151747
E4	Washer, 5/16 SAE Flat	3	151754

EXPLODED VIEW AND PARTS LIST

F	Assembly, Blade Guard	1	n/a
F1	Guard, DC Rear Blade	1	159262DC
F2	Fitting, Brass, 1/8 MNPT X 3/8 BARB	1	152501
F3	Screw, 3/8 X 2 1/2 Socket Head Shoulder, w/ 5/16-18 Thread	1	160492
F4	Washer, 3/8 SAE Flat	2	150923
F5	Guard, DC Front Blade	1	158951DC
F6	Screw, 5/16-18 x 3/4 Hex Head Cap	3	151369
F7	Washer, 5/16 Split Lock	3	151747
F8	Label, Caution, Lift Guard, 1.5 X 3.0	1	155586
F9	Label, Warning, Blade Failure, 1.5 X 3.0	1	155588
F10	Nut, 5/16-18 Nylock Hex	1	151746
G	Assembly, Belt Guard	1	n/a
G1	Casting, Guard, Belt	1	159021
G2	Guard, Inner Belt	1	159250
G3	Screw, 5/16-24 UNF X 1/2 Hex Head Cap	3	159205
G4	Washer, 5/16 Split Lock	3	151747
G5	Belt, Polly-V, 240J16	1	158824
G6	Nut, 1/4-20 Acorn, High Crown	2	159464
G7	Washer, 1/4 Split Lock	2	152591
G8	Screw, 1/4-20 x 1/2 Hex Head Cap	1	152608
G9	Washer, 1/4 SAE Flat	3	151915
G10	Washer, 1/4 Split Lock	3	152591
G11	Label, Caution, Guards in Place, 1.5 x 3.0	1	155587
H	Assembly, Honda 6.5 H.P. Engine		n/a
H1	Honda GX200QXC9 6.5 hp w/ Cyclone Filter	1	159347
H2	Plate, Engine Bolt	1	157847
H3	Deflector, 8 hp	1	155375
H4	Screw, 6-32 x 1/2 Pan Head Phillips Self-Tapping Cap	3	153466
H5	Pin, Throttle Control	1	151284
H6	Screw, 8-32 x 3/8 Pan Head Cap	1	156614
H7	Pin, Cotter, 1/16 x 3/4	1	152518
H8	Oil Drain, Sub-assembly	1	157577-01
H9	Pulley, Polly-V, J16 x 2 1/2 x 1.0 I.D.	1	158959
H10	Screw, 5/16-18 x 2 Hex Head Cap	4	155494
H11	Washer, 3/8 SAE Flat	7	150923
H12	Washer, 3/8 Split Lock	4	150925
H13	Nut, 3/8-16 Hex	4	101188
H14	Arm, Tension	1	157848
H15	Nut, 5/16-18	2	101196
H16	Label, Caution, Hot Surface 1.5 x 3.0	1	155578
H17	Label, Warning, Refueling, 1.5 x 3.0	1	155580
H18	Label, Danger, California, 1.5 x 3.0	1	155581
H19	Label, Danger, Lethal Exhaust, 1.5 x 3.0	1	155582
H20	Plug, Plastic, 3/4 Round	1	156615
H21	Plate, Engine Bolt, Front	1	159868
H22	Label, Home Depot Tool Rental	1	160602
H23	Label, Caution Belt Tension, 1.5 x 3.0	1	155583
H24	Label, Caution, Sparkplug, 1.5 x 3.0	1	155579
H25	Label, Caution, Hands and Feet, 2 X 4	1	155585

EXPLODED VIEW AND PARTS LIST

J	Assembly, Depth Control	1	N/a
J1	Wheel, Depth Control	1	155156
J2	Screw, 3/8-16 X 1/2 Socket Head Set	1	153710
J3	Knob, Ball, 2", 3/8-16 Insert	1	158519
J5	Screw, 1/2 X 3/4 Socket Head Shoulder, w/ 3/8-16 X 5/8 Thread	1	156177
J6	Tube, Depth Control 3/4-10	1	159098
J7	Nut, 3/8-16 Nylock Hex	1	152505
J8	Screw, 3/8-16 X 2 Hex Head Cap	1	153485
J9	Bearing, Flange, FHSLF 204-12G	1	155151
J10	Screw, 3/8-16 X 1 1/2 Hex Head Cap	2	153528
J11	Washer, 3/8 SAE Flat	2	151915
J12	Nut, 3/8-16 Nylock Hex	2	152505
J13	Screw, Depth Control	1	155062
J14	Nut, 3/4-10 Hex	2	155063
J15	Spring, Detent	1	156609
K	Assembly, Handlebar	1	n/a
K1	Handlebar	1	158849
K2	Grip, Handle	2	229413
K3	Tri-Knob, 3/8-16 X 2	2	156770-04
K4	Washer, 3/8 SAE Flat	4	150923
L	Assembly, Pointer	1	155568
L1	Arm, Pointer	1	155056
L2	Pointer	1	155057
L3	Wheel, Pointer, w/ 3/8 X 1/2 X 1 5/8 nylon bushing	1	155066
L4	Screw, 1/4-20 X 3/4 Thumb	2	150991
L5	Nut, 3/8-16 Nylock Hex	3	152505
L6	Washer, 3/8 SAE Flat	1	150923
L7	Clip, Stop	1	157837
M	Assembly, Water Valve	1	155458
M1	Bracket, Water Valve	1	158833
M1A	Bracket, Water Valve	1	158833-OR
M2	Screw, 1/4-20 x 1/2 Hex Head Cap	2	152608
M3	Washer, 1/4 Split Lock	2	152591
M4	Fitting, Brass, 1/2 MNPT X Garden Hose Swivel	1	151322
M5	Valve, Ball, Shut-Off, 1/2 FNPT X 1/2 FNPT	1	150843
M6	Nut, 1/2 NPT	1	152729
M7	Fitting, Brass, 1/2 MNPT X 3/8 BARB	1	153653
M8	Clamp, 5/8 Hose	2	151198
M9	Hose, 3/8 ID Vinyl	30"	150845
N	Assembly, Throttle, Honda	1	n/a
N1	Screw, 10-24 X 1/2 Pan Head Phillips Cap	2	151744
N2	Washer, #10 SAE Flat	2	154369
N3	Nut, 10-24 Clip	2	155407
N4	Assembly, Throttle Control	1	155406
N5	Cable, Throttle, CX3 Honda	1	159479
NA	Assembly, Throttle, Robin	1	n/a
NA1	Screw, 10-24 X 1/2 Pan Head Phillips Cap	2	151744
NA2	Washer, #10 SAE Flat	2	154369

EXPLODED VIEW AND PARTS LIST

NA3	Nut, 10-24 Clip	2	155407
NA4	Assembly, Throttle Control	1	155406
NA5	Cable, Throttle, CX3 Robin	1	159495
P	Assembly, Wire Harness, CX3 Premium	1	n/a
P1	Harness, Wire, CX3 Premium	1	159480
P2	Tachometer (redington)	1	159477
P3	Screw, 6-32 x 3/8, Pan Head Self Tapping	2	153466
P4	Switch, Engine On/Off	1	157851
PA	Assembly, Wire Harness, Standard	1	n/a
PA1	Harness, Wire, Standard	1	158232
PA2	Switch, Engine On/Off	1	157851
Q	Assembly, Accessory Pack,	1	n/a
Q1	Manual, Owner's	1	159348
Q2	Card, Warranty	1	155859
Q3	Tube, Owner's Manual	1	155419
Q4	Wrench, 3/4, Open End	2	159476
R	Assembly, Carton		159349
R1	Carton, Outer	1	159349-01
R2	Carton, Top Pad	1	159349-02
R3	Carton, Tray	1	159349-03
R4	Carton, Chock	1	159349-04
R5	Carton, Accessory Box	1	159349-05
R6	Carton, Bumper	1	159349-06
S	Blades	-	-
S1	MK-CX10, 12 x .100 x 1.0	1	159615-CX
S2	MK-CX10, 14 x .100 x 1.0	1	159616
S3	MK-AX10, 12 x .100 x 1.0	1	159617
S4	MK-AX10, 14 x .100 x 1.0	1	159618
S5	MK-GX10, 12 x .100 x 1.0	1	159619
S6	MK-GX10, 14 x .100 x 1.0	1	159620

THEORY

THEORY OF DIAMOND BLADES:

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



Types of Cutting:

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

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

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

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

Know All You Can About the Material You Wish to Cut

ACCESSORIES, ORDERING and RETURN INFORMATION

ACCESSORIES:

ITEM	NUMBER	DESCRIPTION	
1.	159615	MK – CX10 12 x .100 x 1.0	
2.	159616	MK – CX10 14 x .100 x 1.0	
3.	159617	MK – AX10 12 x .100 x 1.0	
4.	159618	MK – AX10 14 x .100 x 1.0	
5.	159619	MK – GX10 12 x .100 x 1.0	
6.	159620	MK – GX10 14 x .100 x 1.0	

ACCESSORIES, ORDERING and RETURN INFORMATION

ORDERING INFORMATION:

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

Parts may be ordered by calling toll free to – **800 421-5830**, or **310 539-5221** and ask for Customer Service. If you have any technical questions, call – **800 474-5594** or **310 257-2845**.

RETURN MATERIALS POLICY:

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

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

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

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

PACKAGING INSTRUCTIONS:

- Dry the saw before shipping
- When packing, include the following: MK CX-3, Diamond Blade
- 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. If you have any technical questions, please call – **800 474-5594**



**CONCRETE 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
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310 539 5158**