



Operator's Instruction Manual

EDCO CRACK CHASER Model C-10



RANDOM CRACK SAW



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READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.



Death or serious injury could occur if this machine is used improperly.



SAFETY MESSAGES

- Safety Instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.



Indicates an imminent hazard which, if not avoided, will result in death or serious injury.



Indicates an imminent hazard which, if not avoided, can result in death or serious injury.



Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE/PROPANE POWERED EQUIPMENT



- Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



- Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

- Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline or propane powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, headache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

ELECTRICAL POWERED EQUIPMENT



Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- **NOTE:** In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. **DO NOT** modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.
- Switch motor OFF **before** disconnecting power.

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing.

GENERAL INSTRUCTIONS

- Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the **operators' responsibility** to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
- This equipment is intended for commercial use only.
- For the operator's safety and the safety of others, always keep all guards in place during operation.
- Never let equipment run unattended.



- Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection **MUST** be used (operational noise levels of this equipment may exceed 85db). Eye protection **MUST** be worn at all times.



Keep body parts and loose clothing away from moving parts. Failure to do so could result in dismemberment or death.

- Do not modify the machine.
- Stop motor/engine when adjusting or servicing this equipment.



Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

DUST WARNING



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

- Lead from lead-based paints, and
 - Crystalline silica from bricks and concrete and other masonry products.
- Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.

Equipment Instruction Manual

EDCO C-10 CRACK CHASER

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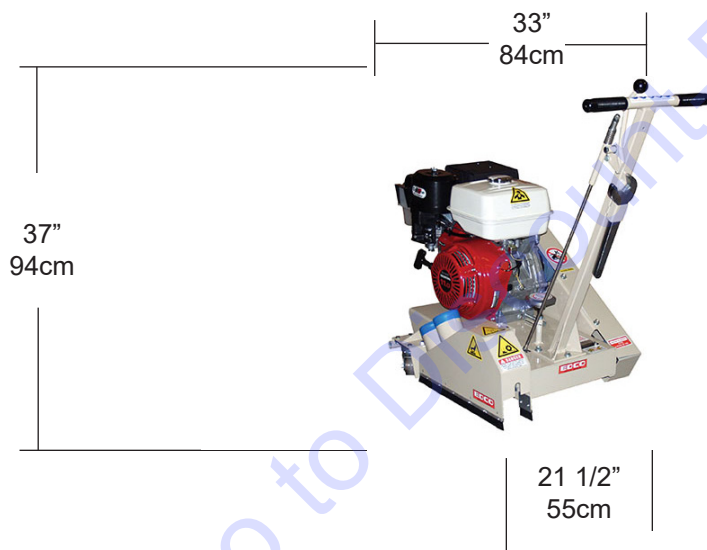


Figure 1

C-10 SPECIFICATIONS	
Width	21 1/2" / 55cm
Height	37" / 94cm
Length	33" / 84cm
Weight	180 lbs / 81.6 kg



**Read and understand the *Operator's Instruction Manual*,
before operating this equipment.
Death or serious injury can result if this machine is used improperly.**



Safety Guidelines



Electrical
Hazard



Breathing
Hazard



Eye
Hazard



Hearing
Hazard



As with all gasoline powered equipment, care and attention must be exercised at all times during use, in addition to ensuring that routine and preventative maintenance is carried out periodically to ensure safe operation. Failure to carry out maintenance as necessary, including the replacement of parts to correct standards could render this equipment unsafe.



- Keep your machine clean.
- Keep filters clean.
- Keep hoses clear.
- Replace any worn or damaged parts with genuine EDCO parts immediately.
- Empty dust container frequently for optimum operation when using a vacuum.



- Do not use steam cleaners or pressure washers to clean the machine.
- Do not use water while cutting, slurry will fill cut and harden when dry.
- Do not immerse in water for cleaning.
- Do not attempt machine maintenance or cleaning unless the spark plug wire has been removed for safety.
- Do not allow any modifications that do not meet the quality and standards of the original equipment.

Safety warnings and guidelines do not by themselves eliminate danger.
They are not substitutes for proper accident prevention and good judgement.

OPERATING AND SAFETY INSTRUCTIONS

General Description The EDCO Model C-10 "Crack Chaser"

The C-10 is designed to control dust during crack chasing. The vacuum used with the C-10 must have high CFM (over 200) and sufficient filtration to capture submicron silica particles. We recommend that a dual stage, self-purging system be utilized. There are many different types of vacuum systems available. Please contact Discount-equipment for our list of approved EDCO vacuum systems or visit our web site at www.discount-equipment.com for more information.

The blade is lowered into a cutting position from the handle, and can be raised out of the cut by releasing the spring loaded lifting handle.

The C-10 is available with (5) different power source options:

Gasoline

Honda 9,11,13 HP.

Electric

Baldor 5 HP 1PH-230 Volt

Baldor 5 HP 3PH-230/460 Volt

The C-10 can be used with either a 7", 8" or 10" diameter blade. We recommend that for crack chasing an 8" diameter blade be used. For joint cleaning, typically the 10" blade will work best.

The C-10 still works on a down cut principle, and you pull the unit toward you as the blade almost seems to seek the crack out. The unit is riding on three caster assemblies, and will allow you to follow any random crack.



The C-10 is designed to rout out random cracks using the diamond blade. Width and diameter selection is critical to the operation of the unit. Edco offers a complete line of dry diamond blades for the C-10 including:

Dia		Blade Width	Slot Cutting Width Auger	Arbor
8	x	.250	3/8"	1"
8	x	.375	1/2"	1"
8	x	.500	5/8"	1"

* "V" type blades are available. Call for further information.

CAUTION

The blade turns clockwise when facing the shaft. Make sure that the blade rotation arrow is pointing in the proper direction. Incorrect rotation of the blade could reduce cutting life.

SETTING CUTTING DEPTH

CAUTION

Make sure machine is not running while setting or making these adjustments.

1. Release the blade lifting lever with blade already mounted on shaft.

2. NOTE:

USE STEP A. If the blade is resting on the work surface.

OR

USE STEP B. If the blade is above the work surface.

A:

Note the distance between the height adjustment caster and the work surface. That represents the depth of cut the blade will provide you. In most cases, 1/2" depth is sufficient.

B:

Unscrew the height adjustment caster (in middle of saw) until the caster is above the work surface. The distance between the bottom of the caster and the work surface is the cutting depth.

After required cutting depth is determined, tighten locking nut on height adjusting caster assembly.

As the blade wears, slight adjustments in depth will be required.

STARTING THE SAW

1. Always start saw with lifting handle in the UP position. (Blade off the ground.)
2. See engine or motor manufacturers instruction manual for starting instructions.
3. After 2-3 minute warm-up period, (does not apply to electric models). Align the blade with the crack, slowly release the blade lowering handle until the diamond blade enters the crack. The saw will want to move in the direction of the crack (path of least resistance). Guide it along as desired. (Do not cut more than 3/4" deep per pass blade may overheat.)
4. Sawing
Run engine at full throttle, (does not apply to electric models). The faster the blade is turning, the cooler it will operate and the longer it will last.

Use the blade as a pivot point. Do not force the blade through tight corners. Let the saw do the cutting.

CUTTING SPEEDS OF BLADES ARE APPROXIMATE:

1/2" deep	.250 width - Asphalt - 15' per minute
1/2" deep	.375 width - Asphalt - 10' - 12' per minute
1/2" deep	.500 width - Asphalt - 10' - 12' per minute

1/2" deep	.250 width - Concrete - 10' per minute
1/2" deep	.375 width - Concrete - 8' - 10' per minute
1/2" deep	.500 width - Concrete - 8' - 10' per minute

When sawing is completed, lift blade out of cut using the blade raise/lower handle and allow engine to cool at idle for 2 - 3 minutes.

MAINTENANCE


The saw operates in very dusty conditions which require the special periodic maintenance actions noted below. Refer to the engine manufacturers manual for routine maintenance.

1. Clear the air filter after each day of operation. Remove the foam element and wash it in kerosene or liquid detergent and hot water, then wrap it in cloth and squeeze it dry. Blow the dust off of the paper element with low pressure compressed air to prevent damage but do not wash it. Replace the elements in the housing.
2. Grease the shaft bearings after each day's operation with heavy duty ball bearing grease.
3. Inspect the blade for damage frequently during each day's cutting. Do not cut with a damaged blade.
4. Wash the saw thoroughly after each day's use to remove accumulated dust. Do not allow the muffler to become clogged, or dirt to accumulate between the cooling fins and around the throttle linkages.
5. Check the belt tension after the first hour's operation and daily thereafter. Adjust the belt tension by loosening the 5/32" Allen head set screw, and turning the 1/2" belt tension adjusting screw so that the belt deflects no more than 1/2" under moderate finger pressure. Re-tighten the Allen head set screw before operation.
6. Change the spark plug after every 100 hours of operation.

*****WARNING*******“DO IT RIGHT” OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY*******WARNING*****

!Notice!

Do not use the C-10 Crack Chaser without a properly sized vacuum system. It will generate a great deal of concrete dust.

This dust can be harmful to the operation of the engine and the operator. The operator should wear a protective mask  and must CHANGE or CLEAN the air filter after each day of operation.

Failure to perform this operation may cause excessive engine wear and greatly reduce the expected engine life.

Warranty claims do not cover dust related problems.

Dust suppression kits are available.

**For more information on this machine(s) and other EDCO products please visit our website at:
www.discount-equipment.com**

*****WARNING*******“DO IT RIGHT” OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY*******WARNING*****

SMI Dust and Silica Warning

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheets and/or consult your employer, the manufacturers/suppliers, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being used.

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



Repairs are to be preformed by EDCO or by approved EDCO repair technicians.



Read and follow all instructions in the Operator's Instruction Manual.

Maintenance Schedule

	Before Operation	After Each Days Use	Before Each Use	As Necessary
Inspect Entire Machine	X			
Clean Filters		X		
Inspect Blade			X	
Inspect/Tighten Hardware				X
Tighten Belts				X

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