

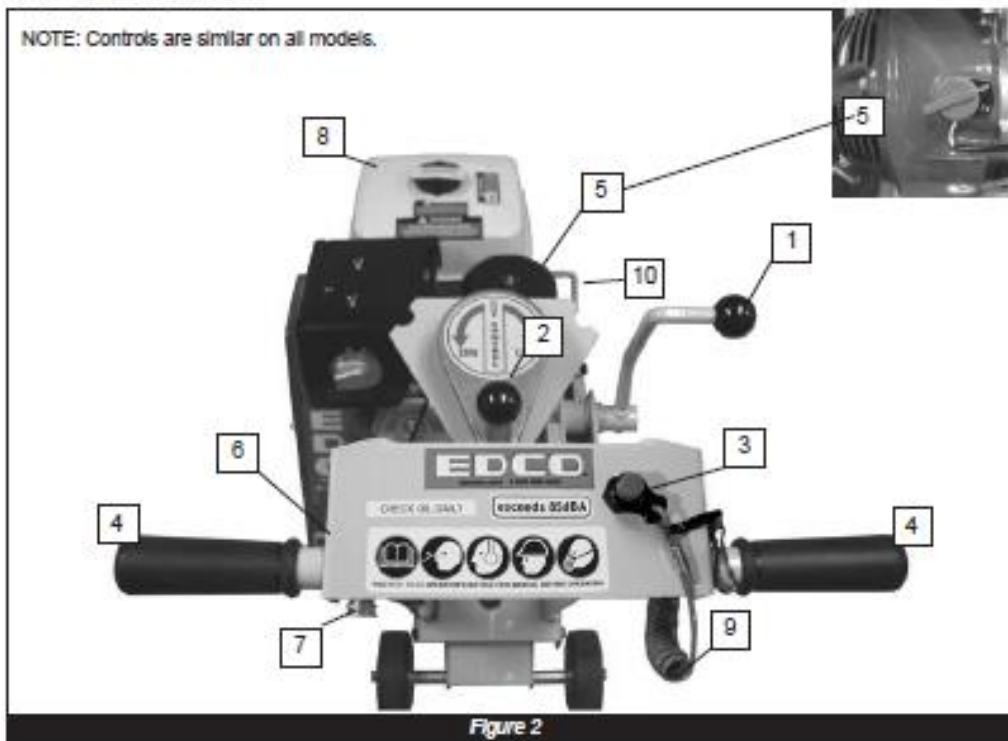


## SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER MODEL CPM8-9H

### Operating Instructions

1. Cutter Head Lever
2. Depth Control Knob
3. Emergency Stop Tether (CPM-10)  
Stop button on (CPM-4 & CPM-8) \*
4. Cushioned Handles
5. Ignition Switch (Position will vary) \*
6. Throttle Control \*
7. Water Hook Up
8. Fuel Tank \*
9. Emergency Stop Switch Lanyard  
(CPM-10) \*
10. Easy Lift Handle
11. Fuel Lockoff Solenoid Toggle  
For Propane Models Only.  
(Not Shown) \*

\* Not on Electric models



Page 5



SAFETY AND OPERATION INSTRUCTIONS EDco 8" SCARIFIER  
MODEL CPM8-9H



## CPL8, CPM-4-8-10 OPERATING INSTRUCTIONS

When using Hi-carbon steel or Tungsten Carbide cutter wheels:

### IMPORTANT!

Read the engine manufacturer's manual, familiarize yourself with engine start procedures.

### BEFORE STARTING THE ENGINE: \*Gasoline models only

Be sure that the cutter drum assembly has been properly installed and the cutter drum shaft is in place and secured.

1. Select a level place at the job site. Set the "disengage lever" in the full DOWN position. Refer to (Figure A).  
It is most important to determine the position of the cutter wheels as they relate to the slab or floor surface. If the drum assembly is filled with cutters, the cutter wheels will most likely contact the slab when the "disengage lever" is lowered. Refer to (Figure B).  
Turn the "depth adjustment crank" UP until the cutter wheels are clear of the slab. Refer to (Figure A). Follow these instructions each time before the engine is started to prevent accidental damage to the slab.
2. Raise the "disengage lever" to the full UP position. DO NOT force the lever. If resistance is felt, turn the "depth adjustment crank" DOWN one or two turns. This will allow the "disengage lever" to reach its normal full UP position. Refer to (Figure C).
3. Check level of oil in engine crankcase (engines are usually shipped dry, oil must be added as per engine manufacturers instructions). \*
4. Check fuel level ( follow engine manufacturers instructions). \*
5. Be sure all guards (belt, motor, cutter wheel) are in place and secure.
6. Vacuum hose port should have hose attached or cap installed to control dust generated during the cutting operation.
7. Locate engine on/off switch, if the engine is so equipped. On some engines the throttle control is also the engine shut-off switch. Familiarize yourself with this operation. \*
8. All EDco gasoline engine operated planers are equipped with a STOP switch, usually located on the handle. Use this switch for emergency engine shut-off. \*
9. Cold engine starting: Be sure fuel line valve is open. Set choke (separate lever on some engines - others have choke as part of throttle control). Open throttle (full to engage choke) 3/4 to full on engines with a separate choke. Turn engine ignition switch ON. Be sure emergency STOP switch is ON. \*
10. Before starting determine that the recoil starter assembly turns freely, starter rope pulls easily and the rope retracts properly. \*





**SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER  
MODEL CPM8-9H**

**Before Starting the Machine:**

- Perform a visual inspection of the entire machine and all daily maintenance according to the Maintenance Schedule on page 19.
- Locate and be familiar with all engine/motor and operating controls.
- For Gasoline models, obtain the Engine Manufacturer's Owner's Manual. Read it and understand it before continuing. Follow the engine manual for break-in Instructions.
- Use the correct cutters for the job. Be sure cutter drum is balanced, the number, size and type of cutter wheels are correct and the cutter drum shaft is locked and secured.
- Be sure all fasteners are tight and secure, check for signs of metal cracking or fatigue, inspect for damage to electrical wiring, damage to fuel lines, check bearings, etc.
- Be sure all guards are in place. Do not operate unless cutter drum guard is in place and secure.
- Inspect work area to determine the presence and location of deck inserts, pipes, columns and objects protruding from the slab surface so that they may be avoided during operation.

**Starting the Engine/Motor:**

**For Electric Models:**

- Be sure the "ON/OFF" rotary cam switch is in "OFF" position.
  - Hook up the correct voltage/phase electrical power source by plugging into the connector provided. If the cord does not mate with the connector, consult a qualified licensed electrician before continuing.
  - Verify that the electrical current being supplied is the proper voltage and phase required to run the equipment.
- Check motor rotation. Cutter drum rotation on the model CPM machines is "down cut." DO NOT use if drum rotation is incorrect - have a qualified electrician make the necessary change in the main control panel or motor connection box.

**For Gasoline Models:**

- Consult the Engine Manufacturer's Owner's Manual and follow the directions for starting the engine and allow the engine to warm up.

**DANGER**

DO NOT operate gasoline/propane powered equipment without adequate ventilation. Carbon monoxide is an invisible, odorless gas that can kill.



**Lanyard Kill Switch (CPM-10 Only):**

- The CPM-10 comes equipped with a lanyard kill switch. The operator should attach the snap hook around his wrist or to his belt. If control of the machine is lost the hook will pull free and release from the stop switch, immediately stopping the machine.



## SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER MODEL CPM8-9H

### CUTTING

#### Starting the Cut:

- Slowly lower the cutter head to the slab surface with the cutter head lever. (Figure 2, Item 1) & (Figure 4)
- Lift the knob of the Depth Control to unlock and turn the hand wheel slowly until the cutter head contacts the slab (you will hear the sound of the cutter wheels contacting the slab). Continue adjusting the depth of cut until the desired depth is reached; max depth of cut 3/8" (9.5 mm).
- Use an Industrial Vacuum Dust Control System for dry planing operations.
- Optional water hookup also available.



#### To Stop Cutting:

- Move cutter head control lever to raise cutter head assembly above slab surface.
- For gasoline and propane models, close throttle and turn the Ignition switch to the "off" position.
- For electric models, depress the "OFF" button.

#### After Cutting:

- At the end of the day, clean the entire machine after it has cooled. Check for worn or damaged cutters and perform any required maintenance. See Maintenance Schedule page 19 and Instructions on page 17.
- If water was used for dust control --- clean slurry under machine before it dries.

#### Cutting Heads / Drums:

- Drum assembly revolves at approximately 1200-1800 R. P. M.; Model CPM-10 is a "down-cut" planer, Model CPM-8 is a "down-cut" planer, and ScariLite-8 is a down-cut planer, Model CPM-4 is an "up-cut" planer. Depth of cut is completely determined by the material to be cut, horsepower of the engine/motor and spacing of the cutter wheels on the cutter head.
- All cuts should be started from a stationary position - when the cutting depth is reached the planer should then move forward.
- The engine/motor should not labor. Run at full speed and adjust forward speed to fit the work being performed. Very hard concrete will have to be cut at a slower pace than asphalt or deteriorated surfaces.
- If it is necessary to make deep cuts - make several shallow cuts to achieve the desired depth. If the cutting depth is set too deep the cutter wheels will not be able to absorb the shock and damage to the equipment will result.
- The cutter wheels have an oversized arbor hole. This "play" is needed to absorb some of the shock of the cutter contacting the concrete and allow the cutter to "rebound" from the surface.
- Cutting speed is directly proportional to the amount of material to be removed in one pass; an example - cutters spaced on 1" centers will penetrate to a greater depth than those spaced at 1/2" centers, and the planer will move forward faster. Most of the material in the path of the cutting head will be removed either by the cutters themselves or through the natural hammering action and spalling of the material being cut. A later pass with cutters spaced closer together will remove the ridges.



## SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER MODEL CPM8-9H



### To Reach Maximum Depth in Concrete:

- It is best to make several passes - increments of 1/32-1/8" or even less if surface is extremely hard.
- Use coarse (wide spacing) for initial passes. Complete job with medium spacing. Never use a fine spaced cutter head to cut deeper than 1/32-1/8".
- Some concrete slabs, especially if they are covered with water a good deal of the time or if they have been treated with hardeners, develop an extremely high surface strength.
- Material removal depth should not exceed 1/32-1/8" per pass thus requiring several passes to reach the desired depth of cut.

## SMI Dust and Silica Warning

### **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.

### **WARNING**

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. When grinding/cutting/drilling such materials, always follow the respiratory precautions mentioned above.



SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER  
MODEL CPM8-9H



# DRY PLANING

## Dry Planing:



Dry Planing creates a large volume of airborne dust. For health reasons, the operator should wear an applicable respirator. The dust may contain chemicals known to cause serious illnesses, including Silicosis a fatal disease of the lungs. Check the chemical properties of the material to be removed and follow all EPA/OSHA regulations.

- An Industrial vacuum, capable of handling high volume of fine dust, such as the VAC-200 (Figure 5), should be used when dry planing with this machine. If the material being used is hazardous or contains Silica - the vacuum unit should be capable of removing Respirable Silica and hazardous particles of less than 3 microns and if necessary, have the capability to be equipped with a HEPA filter.
- Most standard drum type units use a paper bag filter. The dust created during planing is extremely fine and will clog the filter bag of these units and eventually damage the vacuums motor. In addition, damage to the CPM-4-8-10 engine could occur.
- The collected debris and filters should be disposed of according to procedures that comply with current EPA/OSHA standards.



Figure 5

**DANGER**

DO NOT operate gasoline/propane powered equipment without adequate ventilation. Carbon monoxide is an invisible, odorless gas that can kill.

To remove cutter drum assembly or perform drum maintenance  
**TILT MACHINE FORWARD**

**WRONG**      **RIGHT**

**DO NOT TILT CPM-8 ON TO HANDLE**  
Engine damage and/or operator injury may result.





SAFETY AND OPERATION INSTRUCTIONS EDCO 8" SCARIFIER  
MODEL CPM8-9H



## Safety Guidelines



Eye and ear protection must be worn at all times when this machine is in use. During normal use, sound levels exceed 85dB. Use only ANSI approved safety glasses to help prevent eye injury. Everyday eyeglasses have only impact resistant lenses; they are NOT safety glasses.



Operator must wear appropriate clothing and footwear. Do not wear loose clothing or jewelry that can get tangled or caught in moving parts. Steel toe safety shoes should be worn.

- Maintain the machine in safe operating condition with all guards in place and secure, all mechanical fasteners tight, all controls in working order and the machine configured for the job application. Be sure all safety decals can be clearly read and understood. Replace damaged or missing decals immediately.
- The CPL-8, CPM-4-8 & 10 Planers are designed to plane flat, horizontal concrete or asphalt slabs. They may be called Planers, Mills, Grinders or Scarifiers and may be equipped with gasoline, propane engines or electric motors. They are designed to be operated by a single operator from a position at the rear of the equipment.
- Keep a safe operating distance to other personnel in the area and never leave the machine running unattended.
- Avoid deck inserts, pipes, columns, openings, electrical outlets, or any objects protruding from slab surface.
- Never operate this machine while under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.

### For Electric Models:



Electric motors must be properly grounded at all times. Check the outlet box to be sure the electrical service is properly grounded. Be sure adequate power is available. Insufficient power will cause a motor to overheat and burn out. Use only grounded extension cords correctly sized for the current draw and voltage drop (amp rating and length). Never use frayed, damaged, taped or under rated extension cords. Electrical shock could result in death or serious injury to the operator and damage to the equipment.

**NOTE: On 5HP, single-phase, turn rotary power switch to the OFF position before pressing the manual reset button on the motor. On 3 phase push button on control box before pressing reset on the motor. Failure to do so could cause bodily harm and damage to the machine and/or work surface.**

