



Operator's Instruction Manual

CD-3, CD-5 & CD-5H



CD-3

CD-5

CD-5H

EDCO Scabbler



**READ AND UNDERSTAND THE OPERATOR'S INSTRUCTION MANUAL THOROUGHLY
BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.**



Death or serious injury could occur if this equipment 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.

AIR POWERED EQUIPMENT



- When operating this equipment, the operator must wear approved job related safety attire. Eye and hearing protection must be worn at all times while equipment is in use as sound levels exceed 85 dBA. Steel toe safety shoes should be worn. Head protection is required if work is performed overhead. Wear proper dust mask based on material being removed.
- Use the correct size air hose for the tool, 1/2" diameter (minimum). Hose and fittings must be rated for safe handling in excess of 100 PSI pressure. The working pressure of this tool is 80-90 PSI and should never be allowed to exceed 100 PSI.
- Limit the hose length to 30 feet (10 meters) maximum.
Note: The pressure drop of 1/2" diameter hose is approximately 1 PSI per 90 linear feet.
- Limit the hose length to 30 feet (10 meters) maximum.
Note: The pressure drop of 3/8" diameter hose is approximately 3 PSI per 90 linear feet.
- A filter/water separator must be provided on the air source to afford an adequate supply of clean, dry air to this machine.



• Disconnect the air supply before performing any maintenance on this machine. Use only genuine EDCO parts with this equipment. Failure to do so may result in serious bodily injury or death.

- Replace any damaged parts immediately. Use only genuine EDCO parts.

AIR POWERED EQUIPMENT CONTINUED

- To activate machine, attach the air source, firmly grip the machine and then turn the hand lever on the air valve on.

- After turning the air valve hand lever off, the tool will continue to operate for a few seconds. This is a normal result of stored up pressure in the machine casing being released gradually. **Be sure to firmly grip the machine until ALL air leaves the chamber.**

- Remove the air source from the machine when not in use.



• This equipment will create dust from the material being removed. That dust may contain a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm. Check the chemical properties of the materials to be removed.



• It is the operator's 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.

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 dust/particle respirator designed to filter out microscopic particles.

OPERATOR RESPONSIBILITIES

- Read and follow all safety decals and labels.
- Maintain a safe operating distance to other personnel.
- Be familiar with all aspects of the machine's operation and controls before applying power to the equipment.
- Use the correct accessory for the job being performed and material being removed. Make sure accessories are mounted correctly.
- Never operate this machine while under the influence of drugs or alcohol, while taking medications that impair the senses or reactions, or when excessively tired or under stress.
- Follow the instructions in the operator's manual and exercise caution.
- Comply with all local safety and health regulations as well as EPA and OSHA regulations.
- Maintain a copy of the equipment's operator's manual with the machine for reference at all times.



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Model CD-3 Shown

Figure 1

SCABBLER SPECIFICATIONS			
Model	CD - 3	CD - 5	CD - 5H
Width	21 1/2" / 54.6cm	29 1/2" / 74.9/ cm	32 1/2" / 83/ cm
Height	38 1/2" / 97.8cm	40 3/4" / 103.5cm	40 3/4" / 103.5cm
Length	39" / 99cm	44" / 111.7cm	50" / 127cm
Weight	165 lbs / 74.8 kg	275 lbs / 124.7 kg	266 lbs / 130 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



Breathing
Hazard



Eye
Hazard



Hearing
Hazard



As with all air 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 hoses clear.
- Replace any worn or damaged parts with genuine EDCO parts immediately.
- Regularly examine hoses for damage, such as cracking. If damage is found, replace the hose before further use.



- Do not use steam cleaners or pressure washers to clean the machine.
- Do not immerse in water for cleaning.
- Do not attempt machine maintenance or cleaning unless the air supply has been removed from the machine.
- Do not allow any modifications that do not meet the quality and standards of the original equipment.
- Do not run the machine over the air supply hose during operation as a hazard may occur.
- Do not try to pull on the hose to disconnect the machine from the air supply.

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



TUNGSTEN CARBIDE BITS

5 - POINT

Item no. 18810

General surface removal
Penetration up to 1/4 inch.



Use 5-Point bits for general purpose removal of concrete due to spalling, blistering, excess surface material, or in preparation of bonding new concrete overlays. Depth of removal is generally 1/4" or more and is dependent on the speed with which the unit is moved across the surface.

9 - POINT

Item no. 18820

Laitance removal
Fine scabbling
Anti-slip surfacing
Penetration to 1/8 inch.



The 9-Point bits achieve surface removal of approximately 1/8". Creating an excellent bonding texture for overlays of thin coats of polymer concrete, epoxy or urethane. Also ideal for producing slip-resistant surfaces for fork trucks and other vehicular traffic.

*****WARNING*****

**"DO IT RIGHT" OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY**

*****WARNING*****

Bits are easily and quickly changed or replaced. The uses listed above are merely suggested. Your own trials will determine which bit fits your need best. Choose the correct type to do the job. Use a hammer and punch to drive out the bit retaining pins. Remove the bits, replace and drive the retaining pins back in securely. If pins are loose or worn replace with new tight fitting pins.



Guide to Operation

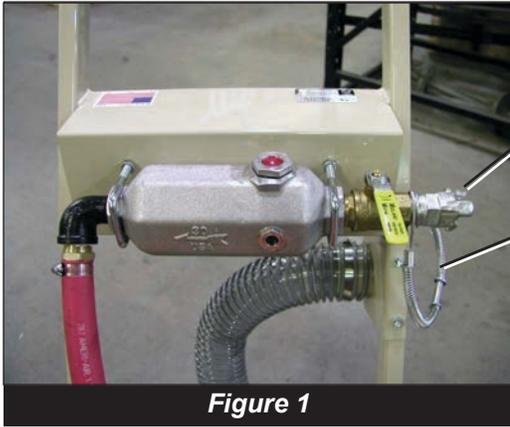


Figure 1

Connect air supply hose to connector on machine.

Connect "WHIPCHECK" on machine to air supply hose.



Figure 2

Position yourself behind machine and turn lever to run position and proceed to operate machine.

Connect industrial vacuum to port on machine.

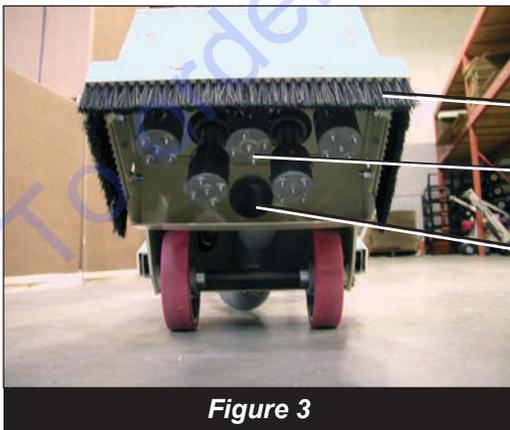


Figure 3

View of underside of machine.

Dust skirt

Bits

Vacuum port

INSTRUCTIONS FOR EDCO MODEL CD-5 & CD-3 SCABBLER

BEFORE STARTING OPERATION:

For efficient operation of your Scabblers, be sure to use a compressor with adequate output. A compressor output of 150 CFM @ 90 PSI or larger is recommended.

Also, check the level of the lubricator. The proper oil to use is one with a viscosity of 32 centi-strokes (ISO-32). For example, Citgo AW-32 hydraulic oil or Lubriplate HO-32 hydraulic oil.

Tilt machine backwards and check the condition and secureness of the five or three carbide bits.

Use an industrial vacuum with sufficient CFM to control dust.



Determine if the slab is structurally sound and safe. While your Scabblers delivers a controlled impact and should not damage the base, care should be taken that the slab is strong enough to withstand the impact of repeated hammering.

A slab less than 4 inches thick may crack under repeated hammering.

OPERATING MACHINE:

Before starting, this machine be sure to read and understand this entire operator's manual. Hook air hose (3/4" minimum) from a regulated and filtered air supply to the coupler on the handle. Do not exceed 60 feet of 3/4" hose.



Be sure to use a "whipchek" safety cable at this joint. Failure to do so could result in serious bodily injury or death. Before supplying the air hose with air, ensure that the operating valve on the console is in the "OFF" position.

To start operation, grasp handle bars and turn operating valve to the "ON" position and pistons will start pounding the pavement. The machine will feel as though the front head is floating. It will be necessary to move the machine so that it will not pound pockets into the slab. The CD-3 or the CD-5 should be moved slowly in a side to side sweeping motion to ensure a consistently uniform removal of material. The CD-5H should be moved in a forward & reversed motion to work alongside the edge of a curb. As the machine is operating, it may become necessary to adjust the hammering action. The addition of an air pressure regulator between the machine and your compressor will allow for this adjustment. The air pressure flowing to the pistons in the cylinder head may be adjusted from 0 PSI, minimum, to 90 PSI, maximum.



The air pressure should be regulated between 40 PSI and the maximum of 90 PSI depending on how aggressive the machine needs to be to accomplish the job. During operation, it will be necessary to periodically stop the machine and visually inspect the level of condensation (water) that might accumulate in the water separator bowl located near your air supply (compressor). If the accumulation of water exceeds the maximum level as marked on the bowl, it will be necessary to drain the unit near your air supply. Check owners manual of your compressor on how to drain the water separator.

In addition, during operation it will be necessary to maintain the correct amount of oil in the lubricator. This oil in the lubricator is essential to the operating life of the components in the cylinder head. The proper oil in the airflow reaching the pistons and cylinders will help flush away any contaminants as well as lubricate the close tolerance components and will leave a non-corrosive film to eliminate rusting of the surfaces. The adjustment is located under the cap with the red center as shown *Figure 4*, below follow manufacturers instructions for adjustment.

Turning the adjustment screw counter-clockwise will increase the oil drip rate and turning adjustment screw clockwise will decrease the oil drip rate. The drip rate is set at the factory to 2.5. Each piston should be receiving lubrication and have a light film of oil on the surface, just enough to “see” it. If oil starts to appear on the surface, then decrease the oil drip rate. Excess oil will stain the concrete, insufficient oil will result in damage to the equipment.

When work is complete, close the air compressor outlet valve and turn the operating valve to the “ON” position to empty the high pressure air from the hose before disconnecting the machine from the compressor. **Be sure to disconnect the unit from the air source when not in use.**

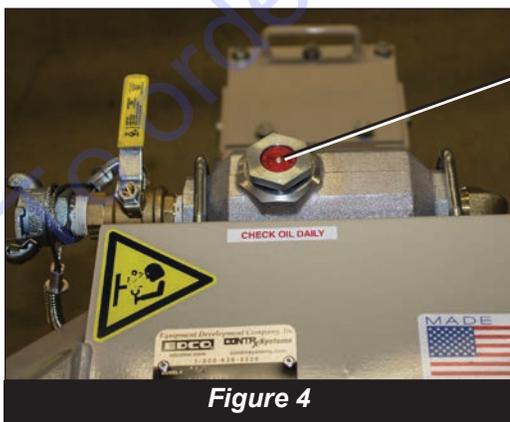


Figure 4

Check oil level at this point and add if needed.

Maintenance Schedule



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

	Before Operation			As Necessary
Inspect Entire Machine	X			
Check Lubricator	X			
Inspect Hoses	X			
Inspect/Tighten Hardware				X



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

Maintenance:

If the scabber is to be stored or not used for **extended** periods of time it is recommended that the following suggestions be followed:

- (1) Drain moisture from water filter (at compressor).
- (2) Fill lubricator with proper grade of oil (*Figure 4*).

Refer to page 10 (*Figures 5 & 6*) to complete the following.

- (3) Remove top plate from cylinder block, remove top caps, and generously apply the proper oil to top of pistons. Manually move the pistons up and down through their cycle several times to ensure all surfaces are coated with oil. Generously oil the top of the cylinders. Reassemble the machine taking care to ensure that the o-ring seals on the cylinder top caps are not damaged.

TROUBLE SHOOTING GUIDE

FAULT	POSSIBLE	REMEDIES
<u>Machine will not operate.</u>	Cylinders or valves clogged with dirt. Insufficient air supply. Valve not turned on. Low oil level.	Strip and clean. Check compressor output. Turn on valve. Add proper amount and grade of oil.
<u>Finish of work is unsatisfactory.</u>	Incorrect or worn bits.	Replace with new or correct bits.
<u>Dust level is unacceptable.</u>	Operating environment.	Moisten area to be machined with water or utilize an industrial vacuum system.
<u>Work rate is too low.</u>	Insufficient air supply. Worn bits.	Check compressor output. Check hose size. Check clearance between piston, cylinder and liner - (.006" Max.)

(Figure 5) on right is piston detail for reference.

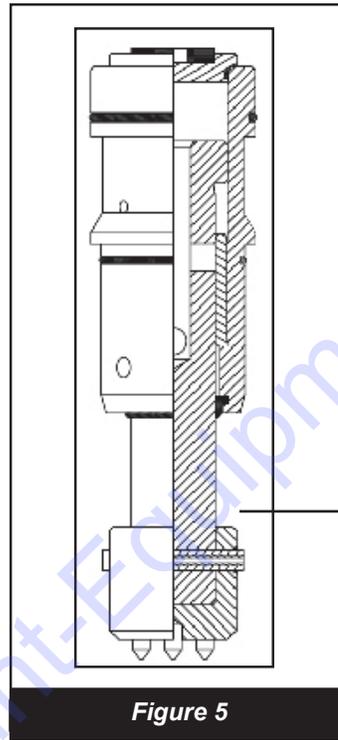


Figure 5

(Figure 6) below is detail of cylinder block and parts description for maintenance purposes only.

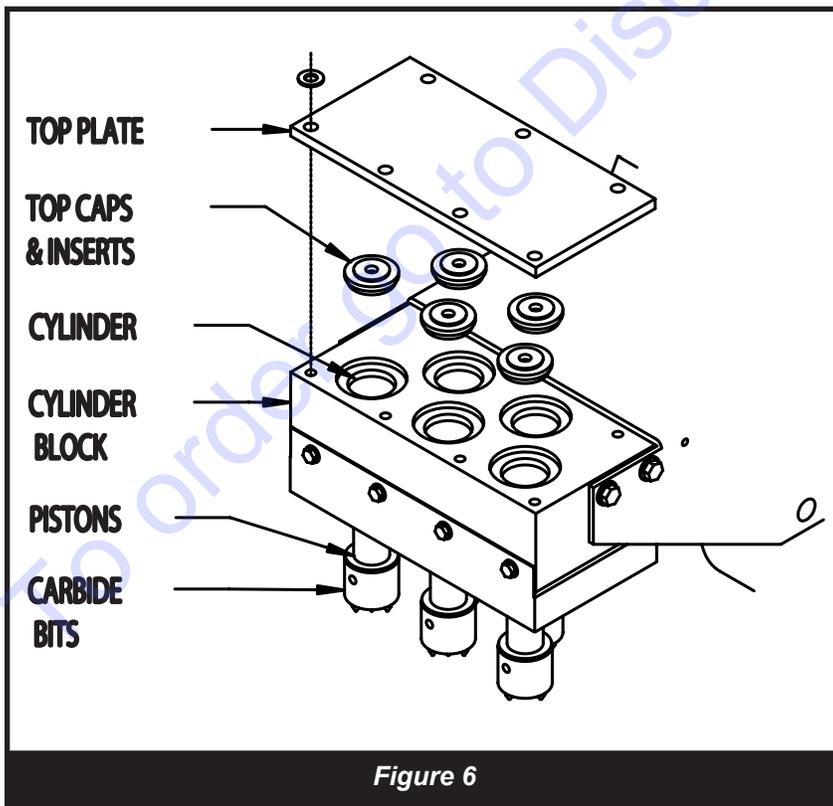


Figure 6

Optional Slide Hammer for removing bits from your Scabbler.



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

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