

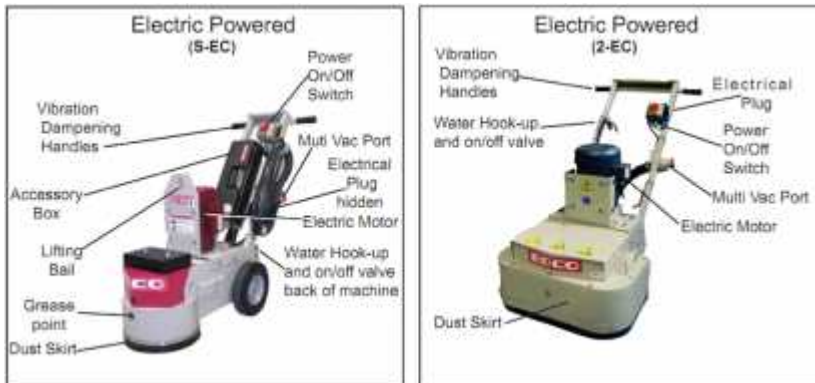
## Floor Grinder

### Operating Controls:

**Please Note:**

Controls shown are for the model indicated.

The location of these controls may vary on the different models.



- **WARNING-** Read and understand all operating instructions before operating this equipment. Death or serious injury can result if this machine is used improperly.

- Concrete grinders are designed to be used to grind fl at horizontal concrete slabs using EDCO approved accessories.

- The machines are equipped with gasoline/propane engines and electric motors.

- They are designed to be controlled by a single operator from a position at the rear of the machine.

- When operating equipment maintain a safe distance from other personnel in the area.

**IMPORTANT:** Perform Pre-Start Check.

- Visually inspect the equipment for wear or damage.

- Be sure all guards are in place and functioning properly. Do not operate unless all guards are in place and secure.

- Perform all daily maintenance.

- Check to be sure water tubes are functioning properly if performing wet-grinding operations.

- Inspect accessories - Be sure the correct accessory is installed properly on the machine mounting arrangement and its intended use.

- Check accessories for damage (see figure 6, below), the type of wear or damage will vary with the type if accessory.

- 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 the grinding operation.

- **FOR WET GRINDING:** Attach the water supply. A flow rate of approximately 1/2 gallon per minute is recommended.

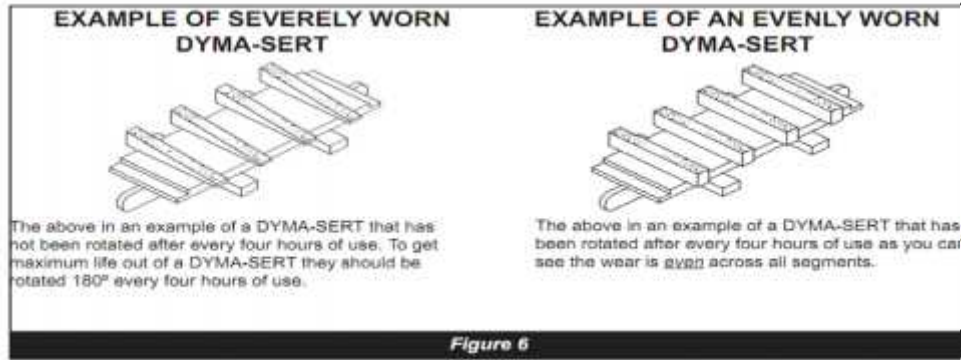


Figure 6

- **BEFORE STARTING THE ENGINE:** Raise the front of the machine clear of the working surface.
- **START ENGINE AND ALLOW IT TO REACH OPERATING SPEED.** Position the grinder at the starting point. Bring the engine to full speed. Lower the machine onto the slab surface. Use a slow sweeping motion from left to right and back continuously, and do not force the machine into the work, the engine or motor should not strain when grinding.
- **WHEN WET GRINDING:** Water is required. Attach the water hose to the water hook-up valve. Use the valve to control the flow of water.
- **FOR DRY GRINDING:** Provide a respirator and dust control system.
- **FOR GASOLINE MODELS:** Put the engine stop switch in the “RUN” position. Consult the engine manufacturers operating instructions and follow the directions for starting and breaking in the engine.
- **TO STOP THE MACHINE:** Stop forward motion. On gasoline models push the throttle to idle. Turn ignition or power switch off and let the engine come to a complete stop. Turn off the water supply.
- **WHEN MANEUVERING THE GRINDER:** Tilt grinder back enough so it does not strike the slab surface. Damage to accessories may occur with inadvertent contact with the slab.
- **DO NOT FORCE GRINDER WHILE GRINDING.**
- **IF THE POWER SOURCE FAILS:** Raise the grinder off of the floor. Disconnect the power source (i.e. the spark plug wire on a gasoline engine). Inspect the accessories for damage. Replace damaged (or questionable) accessories immediately.
- **WHEN TRANSPORTING THE GRINDER:** Disconnect the power source before lifting or removing any guard.
- **WHEN HOISTING OR LIFTING A GRINDER:** Always inspect frame and attaching hardware for damage before lifting. Use proper safe hoisting and lifting techniques and hardware.

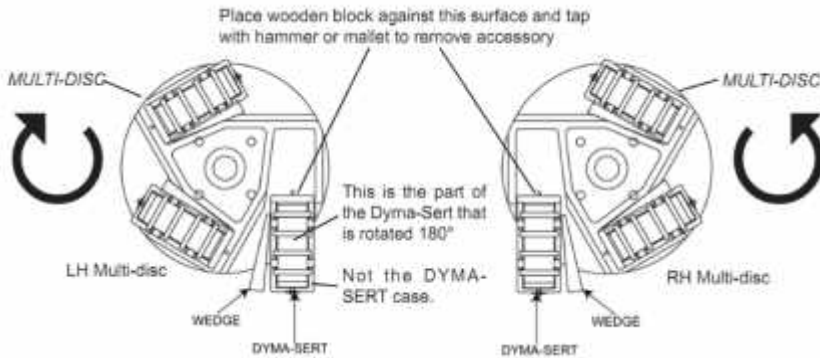
**SMI Dust and Silica Warning:**

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.

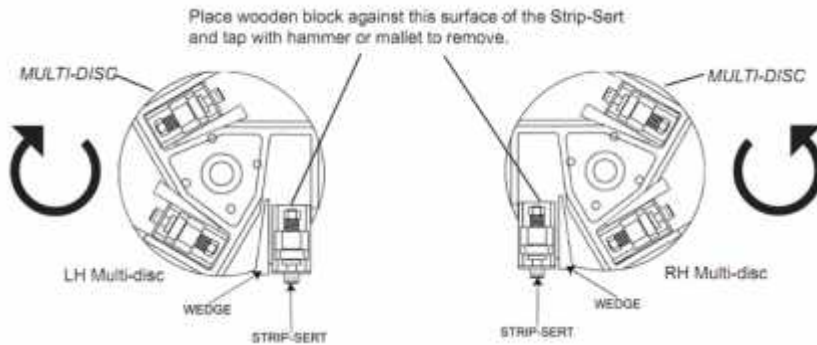
Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. 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.

**PROCEDURE FOR INSTALLING AND REMOVING ACCESSORIES:**



To install an accessory, there are several different types but all install in the same manner, use a brass rod or similar malleable material to drive the wooden wedge into place as shown in the above and below illustrations, note on which side of the accessory the wooden wedge is positioned (near center of disc). Never mix worn or used accessories with new ones. It will cause vibration and an uneven work surface. Replace accessories in complete sets, never mix sets.



To remove an accessory, there are several different types, all are removed in the same manner, use a wooden block as explained in the above illustration. Never hammer directly on any accessory, damage to the self adjusting system will result and the accessory will have to be replaced.

**NOTE:** THE ABOVE ILLUSTRATIONS ARE VIEWING THE MACHINE FROM THE FRONT BOTTOM. NOTE THE DIRECTION OF ROTATION AND MULTI-DISC STYLE. IF DISCS ARE REPLACED AND INSERTS FALL OUT WHEN BEING

USED THE DISCS HAVE BEEN INSTALLED INCORRECTLY.

**INSTRUCTIONS FOR CHANGING ACCESSORIES:**

1. Disconnect the machine from the power source before performing any work on the equipment. To disconnect the power source remove the spark plug lead on gasoline and propane models or unplug the

electrical models at the grinder.

2. Tip Grinder back on the handle until handle remains on contact with the slab. **NOTE: FOR GASOLINE MODELS, TAKE CARE THAT GASOLINE OR OIL DOES NOT SPILL FROM THE ENGINE, Turn gasoline cutoff valve off.** Brace securely or have someone hold the handle against the slab. The grinding discs will be visible and accessible for inspection and installation of accessory items.

3. Installing Multi-disc assemblies (for use with scarisilabide pads, wire brushes and Dyma-Serts). discs are designed as lefthand (LH) or righthand (RH) depending on the direction of rotation: the LH is on the left side (clockwise) and RH is on the right side (counter clockwise) as viewed from the bottom side of the machine. Single disc grinders use the RH disc. NOTE: Multi-Discs come standard with the EDCO grinders in this manual. The multi-disc assemblies use a 3/8" dia. x 2" long roll pin to attach them to the shaft(s) under the grinder.

4. When installing the surfacer disc assemblies instead of the Multi-disc assemblies. The discs are triangular and must be allowed to pass each other without colliding.

5. Installing grinding stones. Grinding stones are used on the multi-disc assembly. A total of 3 stones are used with each multi-disc and are held in place with a hardwood wedge. The wedges are placed on the inside of the stone. Use a second wedge and hammer or mallet to drive the wedge securely into place.

6. Installing wire brushes. The steel wire brushes are used on the multi-disc assembly (3 per multi-disc). They are held in place with a hardwood wedge driven in on the inside of the brush toward the center of the disc. All accessories are held in place in the same manner.

7. Installing Scarifiers. The scarifier assemblies consist of disposable scarifiers and a reusable scarifier case. The case is held into the multi-disc assembly with a hardwood wedge driven in on the inside of the case toward the center of the disc. All inserts are held in place in the same manner.

-The scarifiers can be added or removed from the case without disturbing the case. One end of the scarifier is short and has a tab. The tab is simply inserted under the lip of the case and the other end is pressed into the spring loaded slot and seated firmly. Refer to diagram on page 11.

-To remove the scarifier from the case, simply pry the rounded end of the frame out of the spring loaded slot.

**-Installing Dyma-Serts:** The Dyma-Sert assembly consists of a disposable Dyma-Sert cutter, a shock absorbing rubber block, and a reusable Dyma-Sert case. Three Dyma-Sert assemblies are used on each multi-disc. The case is held on the multi-disc assembly by using a hardwood wedges driven in on the inside of the case. Refer to diagram on page 11.

-The Dyma-Serts can be added or removed from the reusable case. One end of the Dyma-Sert has a lip. The lip is simply inserted under the lip of the case and the other end is pressed into the spring loaded slot at the other end and seated firmly.

## Alignment of Surfer Disc Assemblies on 4EC/GC Models

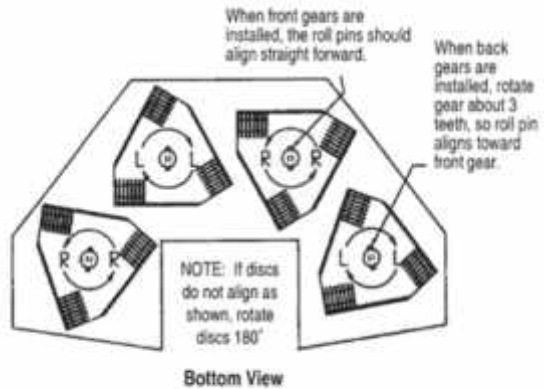
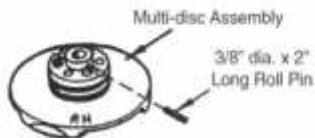


Figure 7

### Multi-disc Assembly



### THREE TYPES OF ACCESSORIES

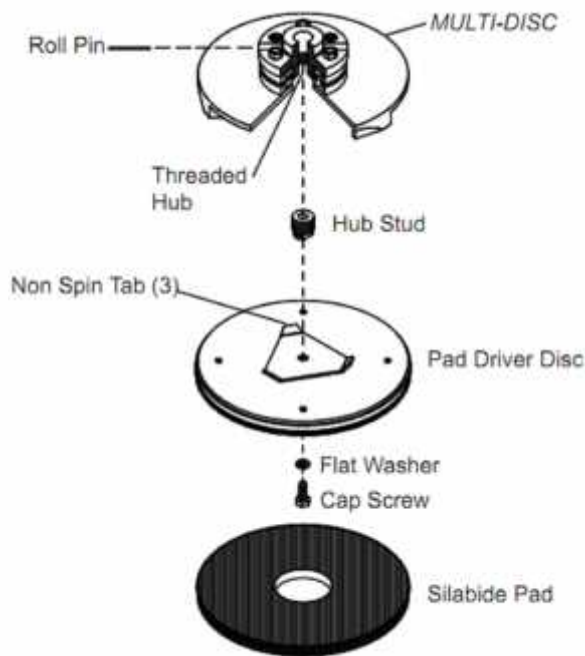
Use a hex wrench to remove hex screw to allow rotation of blade.



This is a STRIP-SERT, rotate this blade to expose a new cutting surface. There are four (4) cutting surfaces on each blade.



This is a DYMA-SERT, rotate the DYMA-SERT only, not the case.



Exploded view of Silabide Pad assembly.

This is a Scarifier and does not require rotation.

**Installing Silabide Pads:**

Install Hub Stud - one in each threaded hub, this is a permanent installation and the stud need not be removed when using the surfacer as a grinder or scarafier. **CAUTION** Be sure that the end of the stud, when fully threaded into hub, does not project past web of multi-disc assembly. Your surfacer is now ready to receive the PAD DRIVER DISC anytime the need arises.

**To install Pad Driver Disc:** Position PAD DRIVER DISC against the web of the multi-disc, be sure “non-spin-tabs” are in place (see illustration) in the center casting web to prevent disc from turning loose. Be sure Pad Driver Disc is positioned fl at against the casting. Insert capscrew with fl at washer through hole in Pad Driver Disc and thread into Hub Stud. Tighten securely. Follow these instructions for each disc assembly (refer to figure above). Install Silabide Pads by pushing the pad against the bristles. The pad should stay on the disc and the surfacer can then be lowered to its normal position. When using the surfacer as a scrubber, try not to lift the surfacer from the slab except to remove or change pads. If the pad comes loose from the disc, stop the surfacer and repeat Pad installation from the above procedure (disconnect the power source).