

Operator's Instruction Manual

FLOOR GRINDING & SURFACE PREPARATION

Gasoline • Electric • Propane



SEC



2EC, 2GC, 2GC-P



4EC, 4GC, 4GC-P

Manual - Portable

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 **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.
- 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 90db). 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.

SPECIFICATIONS

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Note:
All dimensions and weights are for **reference only** and subject to change at any time.



2GC Shown

Figure 1

HOW TO ORDER REPAIR PARTS

To insure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.

When ordering parts, please specify the MODEL and SERIAL NUMBER of the machine as given on the NAMEPLATE. In addition, give part number, description and quantity as listed on the parts list.

Please note: Due to improvements and changes in the equipment the illustrations shown may be different from the actual machine.

Toll Free: Phone 1-800-838-3326 • Fax 1-800-447-3326

	SEC	2EC 2GC 2GC-P	4EC 4GC 4GC-P
"A"	21 1/4"	24 1/2"	40"
"B"	37 1/2"	43"	41"
"C"	43"	44"	48"
--	--	--	--
--	--	--	--
Weight	200 lbs.	240 lbs.	435 lbs.
Model	SEC	2GC/EC	4GC



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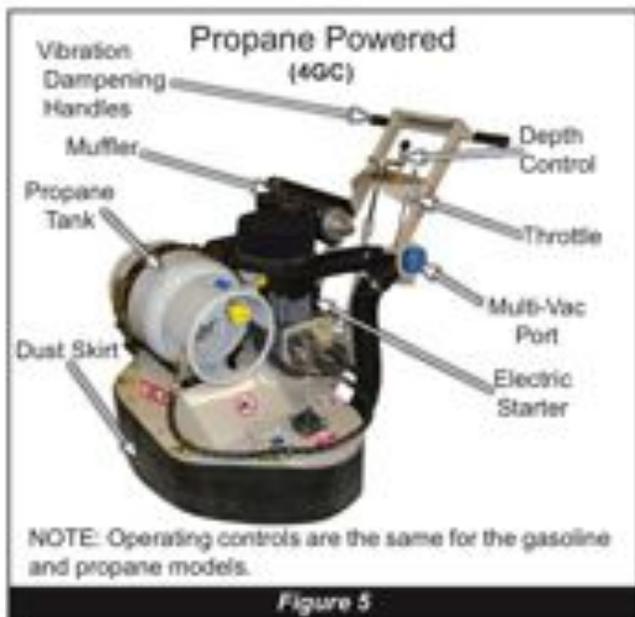
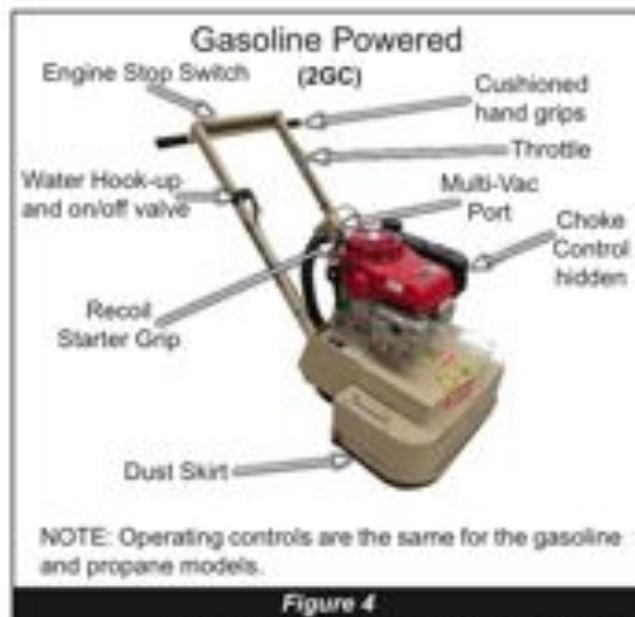
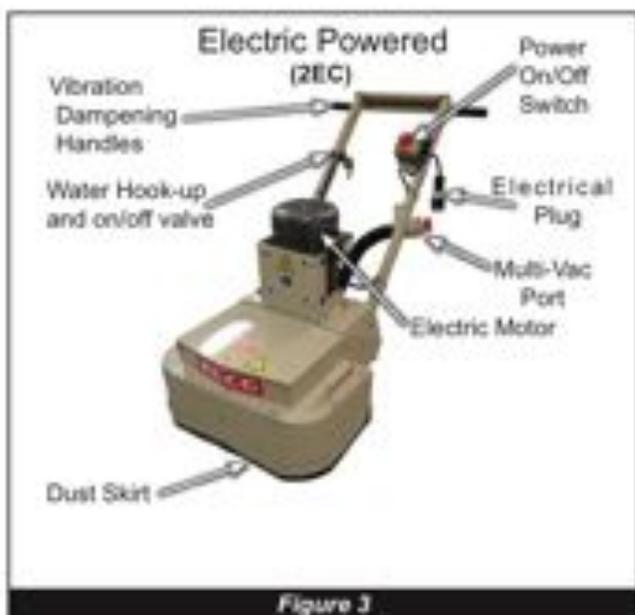
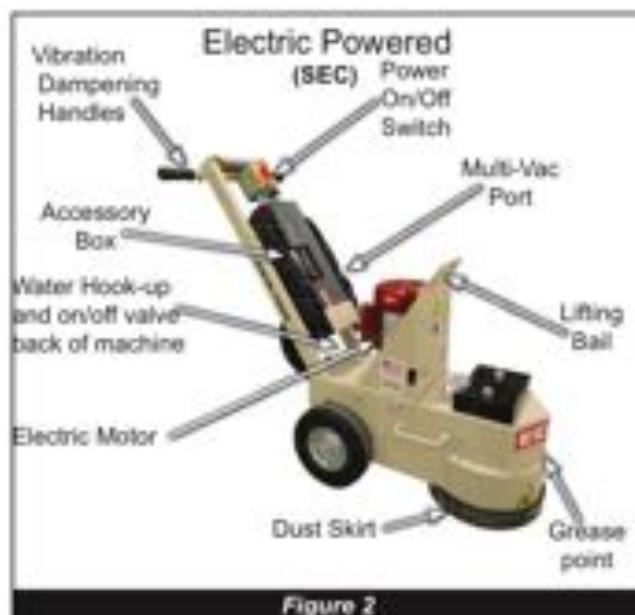
Operating Controls

Please Note:

Controls shown are for the model indicated.

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

Due to improvements and changes in the equipment, the illustration shown may vary from the actual machine.



Propane System

Red Arrow
Pointing "Up"
Tank Bottom

#1 Main Power
Adjustment

Vapor Hose
(Low Pressure)



Propane Tank
(20 lb horizontal)

High Pressure
LP Hose

#2 Idle Mixture
Screw

Dry-Gas
Regulator

High Pressure
LP Hose

Vacuum
Hose



Vacuum
Fuellock - Filter

Main Fuel
Valve

Propane Tank
(20 lb horizontal)

Locating
Hole



Propane Tank (P/N 5130)
Horizontal Mount (Vapor
Withdrawal)

NOTE: The Red arrow
on the tank will be pointing
"up". The locating
hole is oriented under
the gauge as viewed in
the photo on the left.

Fuel Gauge

Operating Instructions

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 flat 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.

Be sure to read the complete instructions supplied with your machine.

IMPORTANT: Perform Pre-Start Check.

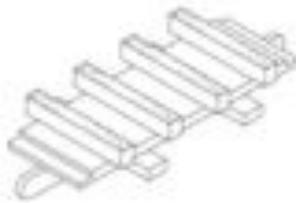
- Visually inspect the equipment for wear or damage.
- Be sure all guards are in place and functioning properly. Do not operate unless all guards are in place and secure.
- Perform all daily maintenance.
- Check to be sure water tubes are functioning properly if performing wet-grinding operations.
- 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 of 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.

EXAMPLE OF SEVERELY WORN DYMA-SERT



The above is an example of a DYMA-SERT that has not been rotated after every four hours of use. To get maximum life out of a DYMA-SERT they should be rotated 180° every four hours of use.

EXAMPLE OF AN EVENLY WORN DYMA-SERT



The above is an example of a DYMA-SERT that has been rotated after every four hours of use, as you can see the wear is even across all segments.

Figure 6

Operating Instructions

- **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 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. See the directions for changing accessories on [page 9](#).
- **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.



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PROCEDURE FOR ADJUSTING OR REPLACING DRIVE BELT



NOTE: The following applies to all machines. They all adjust in the same manner.

To adjust the drive belt loosen four (4) cap screws securing the motor mount to the frame.

Slide the motor mount to the rear of the machine to increase belt tension.

Tighten the four (4) cap screws loosened earlier maintaining pressure on the motor mount to prevent loosening.

To replace the belt, remove the hood by removing two (2) cap screws, one on each side of the machine.



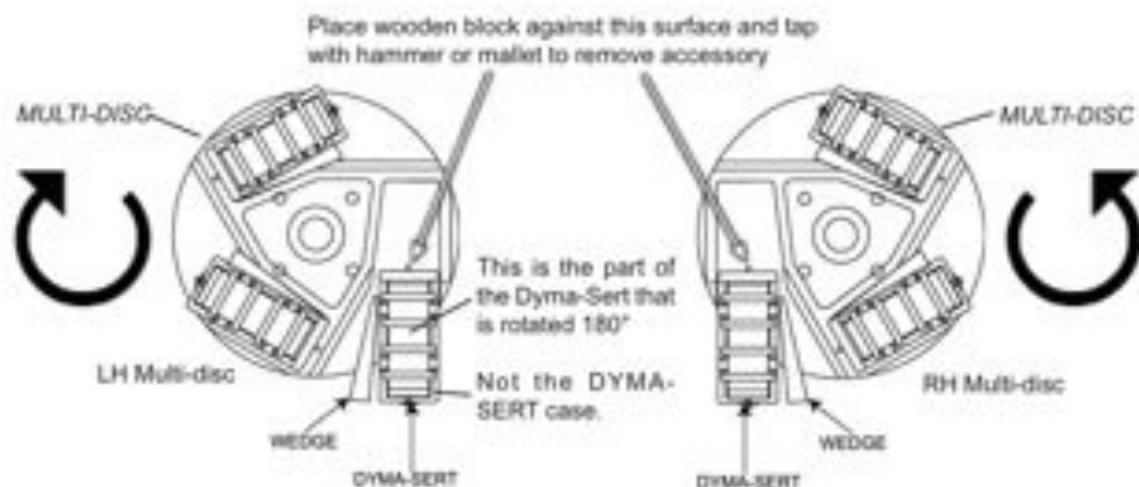
Loosen the four (4) cap screws as in the first step and slide the motor mount all the way forward.

Remove the belt from the motor and pinion shaft sheaves as shown in the photo on the left.

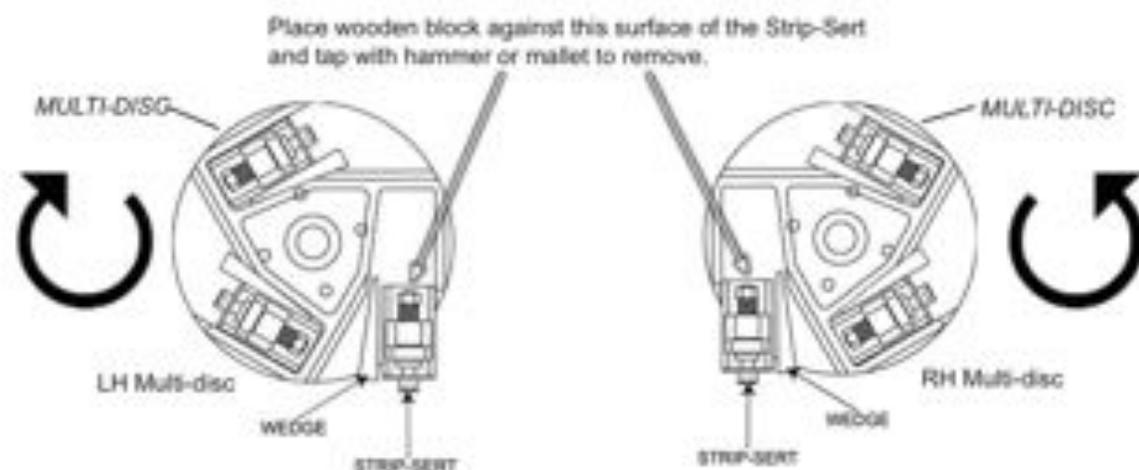
Reverse the previous step to install new belt. Slide motor mount towards the rear of the machine and adjust belt tension, tighten all four (4) cap screws as explained above. Replace hood and tighten bolts.

New belts should be retensioned after grinder has been used for 4 hours.

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. **⚠ DANGER** 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 in 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 scarifiers, silabide pads, wire brushes and Dyma-Serts). The multi-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. The 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 (refer to page 11).**

4. When installing the surfacer disc assemblies instead of the Multi-disc assemblies (refer to figure 7). 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 (refer to page 10). Use a second wedge and hammer or mallet to drive the wedge securely in 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, refer to the previous page. 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, refer to the previous page. 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 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. Refer to page 11.



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.



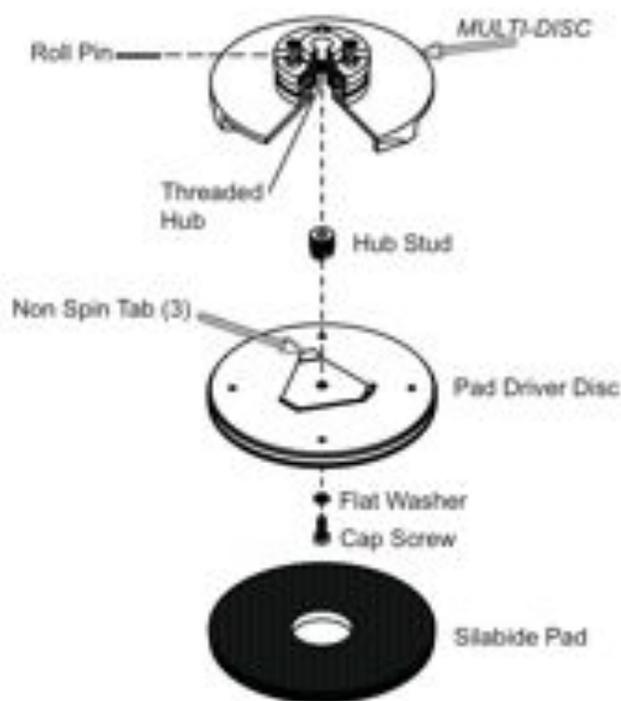
This is a DYMA-SERT, rotate the DYMA-SERT only, not the case.

Spring loaded slot



This is a Scarifier and does not require rotation.

SILABIDE PAD INSTALLATION



Exploded view of Silabide Pad assembly.

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 scarifier.

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 flat against the casting. Insert capscrew with flat 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 it's 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).

GRINDER/SURFACER ACCESSORIES (for the models listed in this manual)

Dyma-Serts (Patented)

DYMA-SERTS are diamond segments welded to snap-in plates for faster, controlled, dry grinding, and are ideal for removing trowel marks, rough finish, rain spots, large volume projects, paints, thin mastics, epoxy and urethane coatings, or polymer enhanced surfaces. DYMA-SERTS can be used wet or dry and will outperform stones by grinding many times faster, removing tough materials, and lasting many times longer - up to 30,000 sq. ft. (2,800 sq. meters) life (at 1/32") dependent on depth of removal, coatings, speed of operation, matrix, etc. Extra weight can be added to the grinder to increase production. Choose the DYMA-SERT to fit your job.

EG-1X General purpose matrix for fast grinding of concrete, thin mastics, paints or urethane and epoxy thin coats.

EG-2X Use on abrasive material. Matrix is designed harder for concrete less than 72 hours old, brick or abrasive sands. Grinding will be slower and tool life will be longer.

EG-3X Hardest matrix for use on rough surfaces such as epoxy mortars or sharp aggregates (flint, granite, etc.).

NOTE: Dyma-Serts for use on terrazzo are available - call EDCO for additional information.

Grinding Stones

Grinding Stones are generally used when there is a need to remove trowel marks, rain spots, excess concrete, rough finishes, or high spots less than 1/16" (2mm) in height. A variety of grit sizes are available, beginning with a super course C-10-S to very fine polishing types C-80 and C-120 used to grind terrazzo and marble. The EDCO grinder will remove up to 1/16" (2mm) of concrete at the rate of approximately 500 sq. ft/hr. (46 sq. m/hr.) using grinding stones of the C-10-S grit. Extra weight can be added to the grinder to improve the grinding speed. The hardness of the surface, size of aggregate, age of slab or additives and sealers required to meet surface specifications will affect the grinding speed and rate of removal.

Industrial Surfer Discs

Industrial Surfer Discs with replaceable hi-carbon steel cutters can be used in place of the multi-accessory discs to create a simple, high speed cleaning system and save hours.

of hard work, intensive labor when hardened deposits of material such as fiberglass, ice, sugar, rubber, etc., have to be removed from factory floors.

Cutter wheels are easily changed and may be space to fit your particular job. Ideal for use in foundries, sugar refineries, walk-in freezers, mobile home and recreational vehicle manufacturers, rubber tire/hose/belt plants, paint booths, boat/tub/shower manufacturers, steel mills or fabricating plants.

Silabide Pads

Silabide Pads are special nylon mesh pads impregnated with silicon carbide grit designed for super scrubbing action. Use to remove fins or marks on gyp-crete or other underlayment materials. Remove mildew, rust or discolorations from concrete, clean concrete forms and strip scale and rust from slab steel plate surfaces. Silabide pads can be used with detergents or dry and are attached to the EDCO Grinder with a pad driver assembly.

Scarifiers (used with "multi-discs")

Scarifiers are used to grind slab surfaces. The action is faster than with grinding stones leaving a "rough sandpaper finish" that may be desirable for non-slip floors, ceramic tile installation or epoxy mortars.

The action of the steel cutter wheels is to "pick" away the concrete from around the aggregates. The cutter will not grind the aggregate, consequently, the aggregate will remain exposed and above the surface of the slab. In some instances the aggregate will loosen or split and break away from the concrete bond. This condition can be controlled and is useful when an exposed aggregate surface is required.

If the desired end result is a smooth, flat surface - use scarifiers first for fast surface removal, then change to coarse grit (C-10-S) grinding stones to bring the high aggregate to the level of the slab.

EDCO offers two (2) models of scarifiers. The standard small cutter wheel assembly has sharp carbon steel cutters suitable for all scarifying applications. Life of this assembly is from 3 to 6 hours depending on the surface material. The heavy duty cutter assembly has an anticipated life from 8 to 20 hours. Action is basically the same as the standard units except cutting life is extended. Use it where changing cutter assemblies often is not convenient.

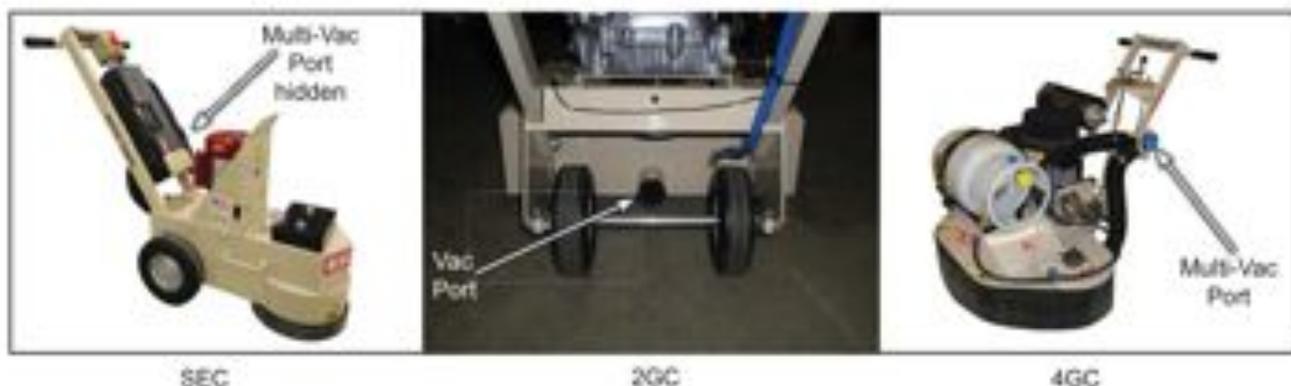
PROCEDURE FOR LUBRICATING FLANGE BEARINGS



The procedure is the same for two or four disc machines. The hood has to be removed to access the grease points on the flange bearings. The single disc grinder is lubricated through the access hole on the front of the machine and under the belt cover. The grease points are circled in the photos above. There are duplicate grease fittings on the underside of the 2EC, 2GC and the 4GC models. The skirts will have to be removed to access the grease points.

To grease the flange bearings attach the grease gun to the grease fittings and give only two (2) pumps on the grease gun every 50 hours of use. If excessive over lubrication is done grease will leak onto the work surface causing possible damage and wasted cleanup time.

PROCEDURE FOR ATTACHING A VACUUM



If using a vacuum for dust control attach it to the vacuum port at the rear of the machine except for the SEC and 4GC which is on the handle as pictured above, securing it with clamps. The ports are shown in the photos above.

MAINTENANCE INSTRUCTIONS



1. Disconnect the machine from the power source. Remove the spark plug lead on the propane and gasoline engine models or disconnect the supply voltage connector at the machine on electric models before performing any maintenance. All maintenance to be performed by qualified personnel.

2. Never work under equipment without first properly securing the equipment to prevent it from moving or falling. Always work on a flat and level surface.

3. For Propane and Gasoline Models, refer to the engine manual for maintenance information specific to the engine being used.

- Be sure to check oil level before each operation (while engine is cold).*
- Clean air filter element daily.

4. Grease bearings after every 50 hours of use. Refer to **page 13** for lubrication points.**

5. Perform a visual inspection of the entire machine before each operation. 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 and inspect to be sure proper guards are in place and secure.

6. Inspect belts before each operation. Check belt tension. On new equipment belts should be re-tensioned after the first few hours of use. Damaged, stretched or excessively worn belts should be replaced with a new matched set for maximum power transfer.

To tension belts, loosen engine/motor mounting hardware slightly. Adjust the engine/motor position until the belts are tight. Re-torque the engine/motor mounting hardware, refer to **page 8**.

Proper belt tension must be maintained to transmit the engine/motor power to the grinding disc. Slipping belts will overheat, the disc life will be shortened and the cutting speed limited. Over tensioned belts will shorten the belt and bearing life.

7. Before operation, check Grinding Discs to be sure they are tight. Grinding discs can loosen with use. Tighten bolts (6 on each disc) as required.

8. Before operation, check Neoprene bushing for wear and replace as necessary.

9. On gasoline and propane models inspect spark plugs. Clean if dirty, replace if the electrodes are burned. Gap plugs at .020".

* For Propane Models use a mild detergent motor oil that will not leave ash deposits. "Gas engine oils" are available from major petroleum companies. These "gas engine oils" are specifically blended for long-life on LP-Gas or natural gas engine operation, which will not carbon up the combustion chamber or shorten valve life. Premium oils should not be used in LP-Gas or natural gas engines as the metallic detergents will damage the engine valves.

** Gear Case "A" (refer to figure on page 13)

The gear case of your EDCO grinder has been pre-lubricated at the factory with approximately 3 pounds of lubricate, No. 630-2 grease. We recommend it's continued use.

Each grinder has an inspection hole in the gear case top plate to enable you to check the amount of grease in the case. Remove this cover with the end of a screwdriver, if grease is visible do not add any. If you cannot see the grease, add a small amount (1 pound is usually more than enough). Do not overfill. The grease in the gear case should last from three to five years before there is any need to refill or add. (Note: Model SEC is not gear driven so this does not apply).

Bearings "B" (refer to figure on page 13)

Each grinder has bearings on top and bottom of the machine. All bearings are self-aligning, sealed units equipped with grease fittings. These bearings should be lubricated every 50 hours of operation with Lubriplate No. 630-2, or other good bearing grease. DO NOT over lubricate.

An occasional drop or two of oil on the wheel bearings will help prevent binding.



Repairs are to be performed by approved EDCO repair technicians.



Read and follow all instructions in the Engine Manufacturer's Owner's manual.

Maintenance Schedule

	Before Operation	Every 4 Hours	Daily	Every 50 Hours of Operation	As Required
Visual Inspection of Entire Machine	X				
Check Engine Oil*	X				
Change Engine Oil* (refer to Engine manual)				X	
Clean Air Filter Element*				X	
Grease Bearings				X	
Inspect Drive Belts	X				
Inspect Grinding Discs	X				
Replace Neoprene Rings					X
Belt Tensioning					X
Clean Dust & Dirt Off machine					X

* Gasoline and Propane Models only

LIMITED EQUIPMENT WARRANTY OF SALE - TERMS & CONDITIONS

Equipment Development Company, Inc. herein referred to as EDCO (Seller) warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (1) one year (except for the roller drum assembly on all model concrete/asphalt pavers, in which case the warranty period shall be 90 days) from date of shipment to the original retail or equipment rental center owner.

Accessories or equipment furnished and installed as the product by EDCO but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturer's own warranty.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO, any part which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to the warranty of merchantability and the warranty of fitness for a particular purpose in no event shall seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product.

FORCE MAJEURE

Seller's obligation hereunder are subject to, and Seller shall not be held responsible for, any delay or failure to make delivery of all or any part of the Product due to labor difficulties, fire, casualties, accidents, acts of the elements, acts of God, transportation difficulties, delays by a common carrier, inability to obtain Product, materials or components or qualified labor sufficient to timely perform part of or all of the obligations contained in these terms and conditions, governmental regulations or actions, strikes, damage to or destruction in whole or part of manufacturing plant, riots, terrorist attacks or incidents, civil commotions, warlike conditions, flood, tidal waves, typhoon, hurricane, earthquakes, lightning, explosion or any other causes, contingencies or circumstances within or without the United States not subject to the Seller's control which prevent or hinder the manufacture or delivery of the Products or make the fulfillment of these terms and conditions impracticable. In the event of the occurrence of any of the foregoing, at the option of Seller, Seller shall be excused from the performance under these Terms and Conditions, or the performance of the Seller shall be correspondingly extended.

This document sets forth the terms and conditions pursuant to which the purchaser ("Purchaser") will purchase and Equipment Development Co. Inc. ("Seller") will sell the products, accessories, attachments (collectively the Products) ordered by the Purchaser. These terms and conditions shall govern and apply to the sale of Seller's Products to Purchaser, regardless of any terms and conditions appearing on any purchase order or other forms submitted by Purchaser to Seller, or the inconsistency of any terms thereto and herein.

1. PRICE

All prices set forth on any purchase order or other document are F.O.B. Seller's facility or distribution point, as may be determined by Seller (F.O.B. Point). All prices are exclusive of any and all taxes, including but not limited to excise, sales, use, property or transportation taxes related to the sale or use of the Products, now or hereafter imposed, together with all penalties and expenses. Purchaser shall be responsible for collecting and/or paying any and all such taxes, whether or not they are stated in any invoice for the Products. Unless otherwise specified herein, all prices are exclusive of inland transportation, freight, insurance and other costs and expenses relating to the shipment of the Products from the F.O.B. point to Purchaser's facility. Any prepayment by Seller of freight insurance and other costs shall be for the account of Purchaser and shall be repaid to Seller.

2. PAYMENT TERMS

Payment terms are as follows: 2% 10 days (if approved and qualified accounts), Net 30 days. This is a cash discount for invoices paid within 10 days after the invoice date, regardless of date of receipt of shipment. This is not a trade discount and will not be granted to accounts that do not adhere to stated terms.

*All past due accounts are subject to a late payment fee of 1.5% per month or a maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees and costs.

*Seller reserves the right to hold shipments against past due accounts.

*Seller reserves the right to alter payment terms.

3. FREIGHT TERMS

All shipments will be made F.O.B. shipping point as designated in these Terms and Conditions, and title shall pass at the F.O.B. point. Delivery to the initial common carrier shall constitute delivery to the Purchaser. Any claims for loss or damage during shipment are to be filed with carrier by the Purchaser. Seller will not assume responsibility for the performance of the carrier.

Each order will be shipped in the most practical fashion with charges consistent with our freight policy established with the original order. UPS, FED-EX, MAIL or shipments by other carriers are subject to the same terms and conditions as outlined in paragraph 3.3 "Freight Terms".

4. DELIVERY, DAMAGES, SHORTAGES

Seller shall use reasonable efforts to attempt to cause the Products to be delivered as provided for in these Terms & Conditions. Delivery to the initial common carrier shall constitute the delivery to the Purchaser. Seller's responsibility, in so far as transportation risks are concerned ceases upon the delivery of the Products in good condition to such carrier at the F.O.B. point and all the Products shall be shipped at the Purchaser's risk. Seller shall not be responsible or liable for any loss of income and/or profits, or incidental, special, consequential damages resulting from Seller's delayed performance in shipment and delivery.

5. RETURN OF DEFECTIVE PRODUCTS

Defective or failed material shall be held at the Purchaser's premises until authorization has been granted by Seller to return or dispose of Products. Products that are to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon Seller's inspection based on price at time of purchase.

6. PRODUCTS ORDERED IN ERROR

Products may be returned, provided that claim is made and Seller is notified within 7 days of receipt of Products, and the Products are in original buyer's possession not more than 30 days prior to return, subject to Seller's approval. If Products are accepted for return, they must be Freight Prepaid and buyer will be charged a minimum of 10% restocking charge, plus a charge back for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any Products that are specifically manufactured to meet the buyer's requirement of other specifications or quantity.

AGREEMENTS

These Terms and Conditions constitute the entire agreement between Seller and Purchaser as it relates to terms and conditions of sale, and supercedes any and all prior oral or written agreements, correspondence, quotations or understandings, heretofore in force between the parties relating to the subject matter hereof. There are no agreements between Seller and Purchaser with respect to the Product herein except those specifically set forth in and made part of these terms and conditions. Any additional terms, conditions and/or prices are rejected by Seller.

These terms and conditions may be modified, cancelled or recorded only by a written agreement of both parties executed by their duly authorized agents.

USE ONLY GENUINE EDCO PARTS & ACCESSORIES
For your own safety, the safety of others and the life of your machine.

Equipment Development Company, Inc.