



Operator's Instruction Manual

SINGLE-DISC FLOOR GRINDER



SEC-NG

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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 machine 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.



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

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.

	SEC-H
"A"	42" / 107cm
"B"	38" / 97cm
"C"	22" / 56cm
Head RPM	839
Weight	188lbs / 86kg



Read and understand all operating instructions
before operating this equipment.



Death or serious injury can result if this machine is used improperly.



Safety Guidelines



Eye and ear protection must be worn at all times while the grinder is in use. During normal operation, sound pressure levels may exceed 85dBA. 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 in moving parts. Footwear should provide sure footing and protection.



Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator from inhaling the airborne material when operating this machine.

- Inspect the work surface for cracks, uneven joints and foreign objects such as nails, screws and pipes. Damage to the disc and/or equipment may result which can also cause serious injury to the operator. Hazardous areas should be properly identified and clearly marked.
- The SEC-NG is designed to be controlled by a single operator .
- Inspect the discs carefully before installing. Do not use any questionable disc since serious personal injury and/or damage to property can result.
- Never operate this grinder while under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.
- Be sure decals on the machine can be clearly read and understood. Replace worn or missing decals immediately,

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



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 illustrations shown may vary from the actual machine.

ELECTRIC MODEL



Figure 2



Operating Instructions



1. LOADING TOOLS:

Lean the machine back on the handle to expose the work area and load the proper tools for your job. Electric machines should be unplugged.



LOADING TOOLS:

Once all tools are in the proper position return the machine to the upright position. Remember if you are using tools with PCD's or Strip-serts they have a leading edge and must be loaded as such. Also, remember the disc turns in the direction of arrow decal.

WARNING

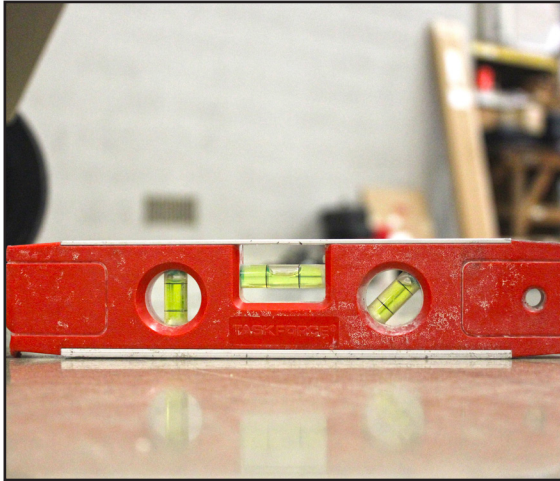
Take care when loading tools. Edges of pockets are sharp.

NOTE: The above illustration are viewing the Machine from the front bottom.

NOTE: the direction of rotation.

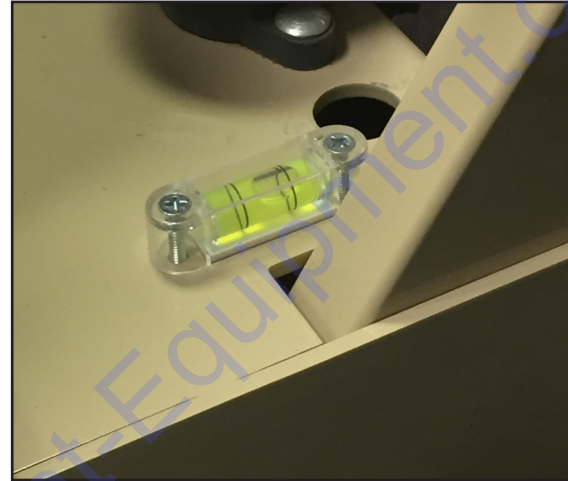


Getting Started with your New Grinder



BEGIN THE LEVELING PROCESS:

Check level of floor.



BEGIN THE LEVELING PROCESS:

Lower machine to surface and match level. Adjust height by turning leveling handle in rear..



BEGIN THE LEVELING PROCESS:

When leveling high profile tooling do not continue to turn handle past the level. Continued turning will disengage lower linkage from all thread.



BEGIN THE LEVELING PROCESS:

Replace skirt leaving approximately 1/8" clearance above floor.



Getting Started with your New Grinder



LEVELING:

Lean back slightly on the handle to get the tools off the surface and start the machine. Lower the machine to the surface and do a short touch pass on the concrete.



LEVELING:

You are looking for a complete circle.

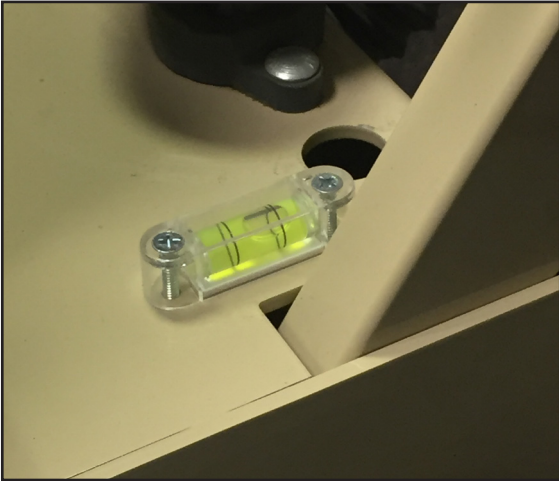


LEVELING:

If you see a partial circle repeat the leveling process until complete circle is achieved.



Getting Started with your New Grinder



LEVELING:

The bubble on the machine will not necessarily be centered once optimum operating position is achieved. It will also float back and forth during grinding. Level on your machine may not be the same as pictured above.



ATTACH THE SKIRT:

Spacing approximately 1/8" off surface for best vacuum performance

FINAL NOTE:

If you are using tools that have no directionality they should be rotated occasionally for longer life and the machine should be readjusted as needed.



OPERATING INSTRUCTIONS

- **BEFORE STARTING THE MOTOR:** Raise the front of the machine clear of the working surface.
- **START MOTOR AND ALLOW IT TO REACH OPERATING SPEED:** Position the grinder at the starting point. Bring the motor 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 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 water flow.
- **FOR DRY GRINDING:** Provide a respirator and dust control system.
- **TO STOP THE MACHINE:** Stop forward motion, tilt machine to raise off of floor. Turn power switch off and let the motor 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 slab.
- **DO NOT FORCE GRINDER WHILE GRINDING**
- **IF THE POWER SOURCE FAILS:** Raise the grinder off of the floor. Disconnect the power source. Inspect the accessories for damage. Replace damaged (or questionable) accessories immediately.
- **WHEN TRANSPORTING THE GRINDER:** Disconnect the power source before lifting or removing any guards. Remove accessories when transporting.
- **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.

OPERATING INSTRUCTIONS



- 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 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.



ATTACHING A VACUUM / SERVICING HEAD ASSEMBLY



PROCEDURE FOR ATTACHING A VACUUM:

If using a vacuum for dust control attach it to the vacuum port at the rear of the machine which is on the handle as pictured above, securing it with clamps. The port is shown in the above photo.

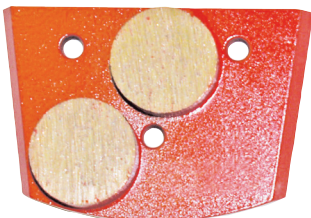


FOR LUBRICATION:

Grease fittings are now available through access port in hood.



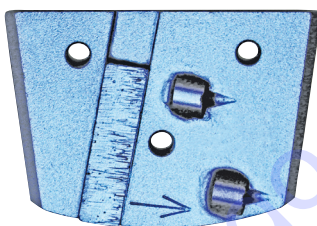
FOR USE WITH QUICK-CHANGE MULTI-ACCESSORY DISC



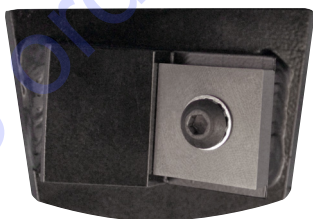
DOUBLE DYMA-DOTS: General Purpose Grind - Removes general purpose epoxy, mastics, thinsets, water-proofing coatings and more.



SINGLE DYMA-DOTS: Aggressive Grind - Grinds and removes thick epoxies, weather-proofing membrane and other coatings.



DYMA-PCD ACCESSORY: Extremely Aggressive Removal - Digs through industrial strength coverings, water-proofing membranes, thick epoxies and much more - Leaves a textured concrete surface.



MAGNA-BLADE Magna-Blades use carbide tipped blocks to strip away coatings and clean floors without grinding into the concrete. The replaceable multisided tungsten carbide can be rotated for maximum use.



MAINTENANCE INSTRUCTIONS

DANGER

1. Disconnect the machine from the power source. 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. 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, and inspect to be sure proper guards are in place and secure.

4. Before operation, check grinding discs to be sure they are tight. Grinding discs loosen with use. Tighten bolts as required.

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



MAINTENANCE SCHEDULE

Quick Reference for Maintaining Grinders	Before Operation	Every 4 Hours	Daily	Every 50 Hours of Operation	As Required
Visual Inspection of Entire Machine			X		
Check Engine Oil*	X				
Check Engine Oil* (refer to Engine manual)				X	
Clean Air Filter Element*				X	
Grease Bearings				X	
Inspect Drive Belts	X				
Inspect Grinding Discs	X				
Clean Air Filter Element*					X
Belt Tensioning					X
Clean Dust & Dirt off Machines					X

* Gasoline and Propane only

Repairs are to be performed by approved EDCO repair technicians.
Read and follow all instructions in the Engine Manufacturer's Owners Manual.



DUST AND CRYSTALLINE SILICA WARNING



REVISED JUNE 1, 2017

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.

See more on the importance of dust prevention and silica warnings at osha.gov/silica.



MSSLR-0117

MACHINE SAFETY SYMBOL LABEL REFERENCE



This symbol means that the Operator's, owners, instruction and/or manufacturer(s) manuals must be read and understood before operating or attempting to operate this electrical, gasoline, diesel or propane powered equipment, failure to do so can result in personal injury and possible death.



This symbol means that proper eye protection must be worn/used during the operation of this equipment. There is a potential risk of operator eye damage, injury or loss of sight. This also applies to any personnel standing nearby observing the operation of this equipment.



This symbol means that proper ear protection should be worn/used during the operation of this equipment. There is a potential risk of operator hearing damage, injury or loss of hearing which will increase based on the length of exposure. This also applies to any personnel standing nearby observing the operation of this equipment.



This symbol means that proper head protection should be worn/used during the operation of this equipment there is a potential risk of operator head injury from foreign or loose objects the equipment might come in contact with during operation. This also applies to any personnel standing nearby or observing the operation of this equipment.



This symbol means that proper breathing protection or engineering controls must be worn/used during the operation of this equipment there is a potential risk of operator lung damage. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, to 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 local respiratory precautions. This also applies to any personnel standing nearby or observing the operation of this equipment.



This symbol denotes the lifting point and means that if lifting of this equipment is necessary use a lifting device that is designed to accommodate or exceed the weight of this machine. Check the Operator's manual for specifications. Using a device that is not designed to accommodate or exceed the weight of this machine could result in damage to the machine and personal injury. Do not lift equipment over people because death or serious injury could result.



This symbol means do not insert fingers/digits under any edge of the belt cover while the engine/motor on the machine is running because personal injury and loss of fingers/digits may result.



This GHS pictogram identifies that the chemicals contained present serious health hazards.

MSSLR-0117

MACHINE SAFETY SYMBOL LABEL REFERENCE



This symbol means that the guards must remain in place while the engine/motor on the machine is running because death or personal injury may result.



This symbol means that there are moving parts and if feet/fingers/digits are inserted under any edge of the cutter/grinder/saw cover while the engine/motor on the machine is running that personal injury and loss of foot/fingers/digits may result.



This symbol means the surface is HOT and that if fingers/digits/hands or any bare or unprotected skin comes in contact with this surface or hot accessory, possible serious burns and personal injury may result.



This symbol means that potential hazardous voltages are present and the equipment must be properly grounded and extreme caution should be taken. If for any reason maintenance or repair is needed, insure that voltage(s) are disconnected at the machine and the source unless (be cautious) voltage needs to be present to troubleshoot the problem, then only qualified personal should work on "live" systems.



This symbol means that the machine is heavy if the machine needs to be lifted onto or off of a truck, loading dock etc. that proper technique or heavy duty lifting device should be used, personal injury could result.



This symbol means that dangerous chemicals, gases, dust particles and/or fumes are present including carbon monoxide. Proper ventilation must be maintained. Do not use gasoline/diesel/propane powered equipment indoors.



This symbol means that there are sharp components and if feet/fingers/digits come in contact personal injury or death could result.



This symbol means hazardous pressures are present. Caution should be exercised to prevent personal injury or damage to equipment. Face, eye and head protection should be used.



This symbol means explosive and hazardous vapors are present. Caution should be exercised to prevent personal injury to face and eyes. Breathing and personal protection should be used when servicing.

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