



Operator's Instruction Manual

TMC-7



**EDGE/GRINDER
GASOLINE/ELECTRIC**



EQUIPMENT DEVELOPMENT CO., INC.

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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.



EQUIPMENT DEVELOPMENT CO., INC.

Operator's Instruction Manual

TMC-7

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Limited Equipment Warranty Inside Back Page



NOTE: Due to improvements your machine may not appear the same as the pictures in this manual.

Figure 1

Specifications & dimensions are for reference only and subject to change.		
Length (L)	40"	102 cm
Width (W)	24"	61 cm
Height (H)	38.5"	98 cm
Total Weight	120 lbs.	54.4 kg

Noise level lwa - 99 dB(A)
 Noise level leq - 87 dB(A)



**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 TMC-7 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

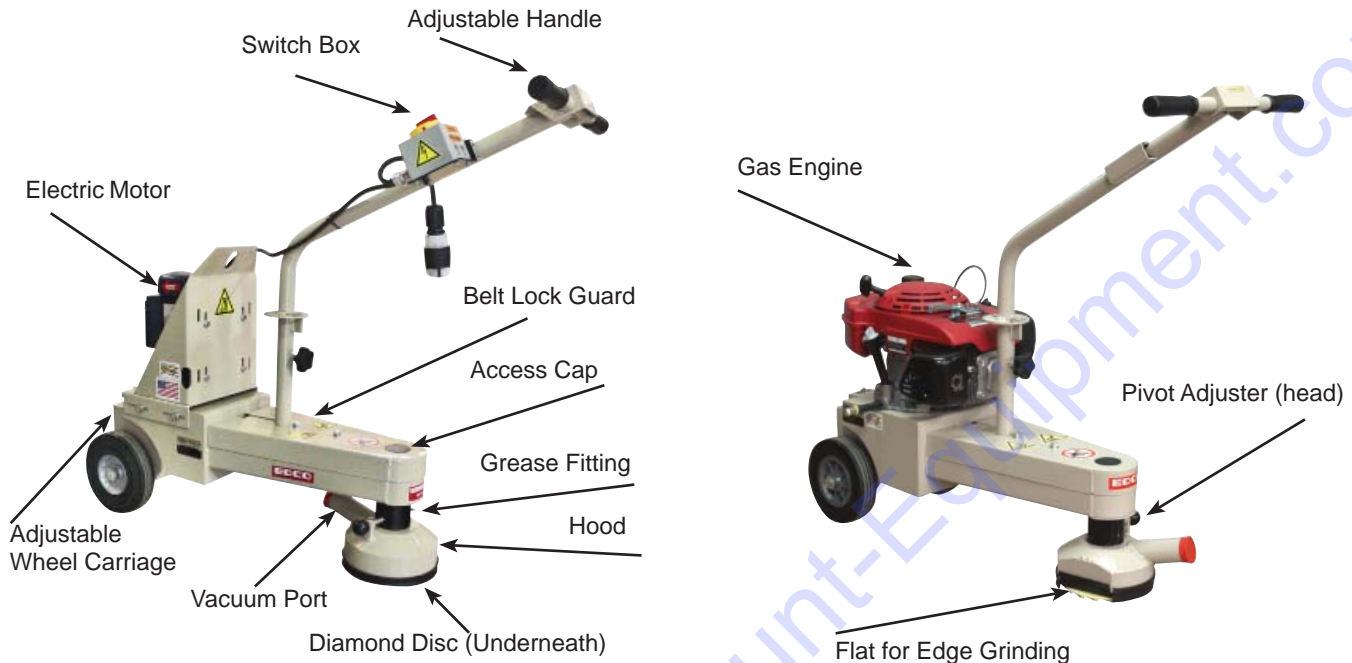


Figure 2

About the TMC-7:

- The EDCO edge grinder is designed to be used in conjunction with other EDCO surface preparation products. It's small, lightweight construction allows the operator to grind close to obstacles.

These units are equipped with a single 7" diameter Diamond Segmented Disc that is an aggressive surface material grinder for removing excess concrete, epoxy mortar, urethane coatings and overlays, and non-skid abrasive coatings on steel, concrete, or polymer slab floors. A scarifier disc is optional. This machine is capable of either wet or dry grinding.

Before Starting:

- Before starting, perform a visual inspection of the entire machine. Be sure all fasteners are tight and secure, check for signs of metal cracking or fatigue, inspect for damage. Be sure guards are in place, secure and undamaged.



- Inspect diamond grinding disc. Check for loose or damaged diamond segments and replace if necessary. Check that the diamond disc has been correctly mounted and be sure it is tight. Different diamond/matrix discs wear at different rates. Be sure to use the correct diamond/matrix combination for your specific application.



Operating Instructions

To Start Grinding:

- Operating the machine from the rear, push down, or if operating from the front, lift the handle very slightly to shift some of the weight off of the disc, but do not let the disc lift from the slab surface. The slight weight shift will aid in reaching the operating speed without an excessive start-up power draw. Once the unit reaches operating speed, allow the edger-grinder to settle back down on the slab with the full weight on the disc.
- If the disc is out of balance, stop immediately and have the problem fixed or damage to the equipment will result.



Figure 1

For Wet Grinding:

- Water is not necessary as a coolant but rather as a means of controlling dust. Lightly dampen the floor or use a fine mist.



Do not use an excessive amount of water. Excess water on the surface will create a dangerous, slippery surface and more work during cleanup.

- Sprinkle a small amount of sand on the slab to create a slurry during grinding. The slurry tends to keep the diamonds free from build up and the cutting edge exposed. If a squeaking sound is heard or the machine tends to pull to one side, the diamond segments may have filled and are no longer grinding effectively. Discontinue use of machine. Make sure the throttle is completely closed (full stop position) to insure the engine will not accidentally fire (kick back) when removing the disc which could cause bodily injury and/or damage to the machine. Then follow the directions for replacing the diamond disc or optional scarifier disc.

For Dry Grinding:



Check materials being removed to determine if they are listed on an EPA hazardous substance list. A breathing respirator is required to help protect the operator.

- The EDCO industrial VAC's have available optional HEPA filter kits designed to be used when removing hazardous materials. Standard, shop-vac style vacuums are not capable of extended operation. In addition, these standard vacs use paper bag filters that can clog and overload the vacuum motor.
- Dry grinding creates a large volume of airborne dust. The edgers are equipped with a 1-1/2" vacuum port for attaching a high volume industrial vacuum capable of removing particles to three microns. If the materials involved are hazardous, or unknown and assumed hazardous, the operator must assume responsibility for the proper handling and disposal of the hazardous material.

Note: Hazardous debris, including vacuum filters, must be disposed of properly according to OSHA and government standards.



Operating Instructions

For Edge Grinding:

- Loosen handle lock knob and lift handle until clear of slots and pivot to desired position. Lock knob. Pull pin in rear deck and turn deck to desired position. Release pin into locking hole.

Replacing the Diamond Grinding Disc:

- Disconnect from power source.
- To gain access to the disc, push down on the handle in the rear optional position and pivot the unit back on the wheels until it comes to rest on the handle. (Figures 5)
- Remove plastic cap from belt cover (Figure 4). Place 9/16" socket on top of shaft. While holding ratchet on top, place 1 1/8" socket on nut and remove. (Figure 3)
- Replace with a new disc and reverse the procedure. (Figure 3)

Inspect drive belt:

- Remove belt cover by removing 2 bolts. (Figure 6)
- Check belt tension. On new equipment, and after installing a new belt, the belt should be re-tensioned after the first four hours of use. A damaged, stretched, or worn belt should be replaced with a new one. (Figures 7 - Shown with belt cover removed.) Loosen motor mount bolts and push down slightly to tension belts. Re-tighten motor mount bolts. Replace belt cover.



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



Repairs are to be done by authorized EDCO Dealers only.



Read and follow instructions in the engine owner's manual.

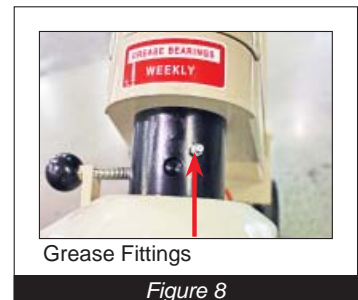
Maintenance



Make sure the the engine or motor are turned off before performing any maintenance.

- All maintenance should be performed regularly and by qualified personnel only.
- 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.
- Grease disc bearings every 4 hours of use. To access grease the fitting on the TMC-7 refer to (Figure 8). These bearings are tapered roller bearings lubricated with High Temp Lubriplate No. 930-AA, or equivalent bearing grease. Do not over lubricate. Be sure to clean up any excess grease after lubricating the bearings. These bearings can occasionally require adjustment. If it is evident that these bearings need adjustment they can be accessed by removing the belt over.
- Lubricate the wheel bearings from time to time with an occasional drop or two of oil to prevent binding.
- Proper belt tension must be maintained to transmit the motor power to the grinding disc. Damage to the motor will occur and disc life shortened if belts are not kept at the proper tension.
- Keep the Grinders clean. Be sure the safety decals are readable and properly maintained on the machine.

Quick Reference For Maintaining Grinders	Before Each Operation	Daily	After Each Use	As Required
Engine Air Fllter (Gas)				X
Visual Inspection of Entire Machine	X			
Inspect Diamond Disc	X			
Grease Bearings		X		
Clean dust and dirt off Machine			X	
Inspect Belt and Belt tensioning				X





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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