



Operators Instruction Manual

2D-HD



PROPANE



ELECTRIC



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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 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 **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.

SPECIFICATIONS

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Figure 1

	Propane	Electric
"A"	26" 66cm	26" 66cm
"B"	44" 122cm	40 1/2" 102cm
"C"	58 1/2" 149cm	47 1/2" 121cm
--	--	--
--	WEIGHT BLOCKS 40 lbs Each 18kg	
Weight	370 lbs. 168kg	330 lbs. 150kg



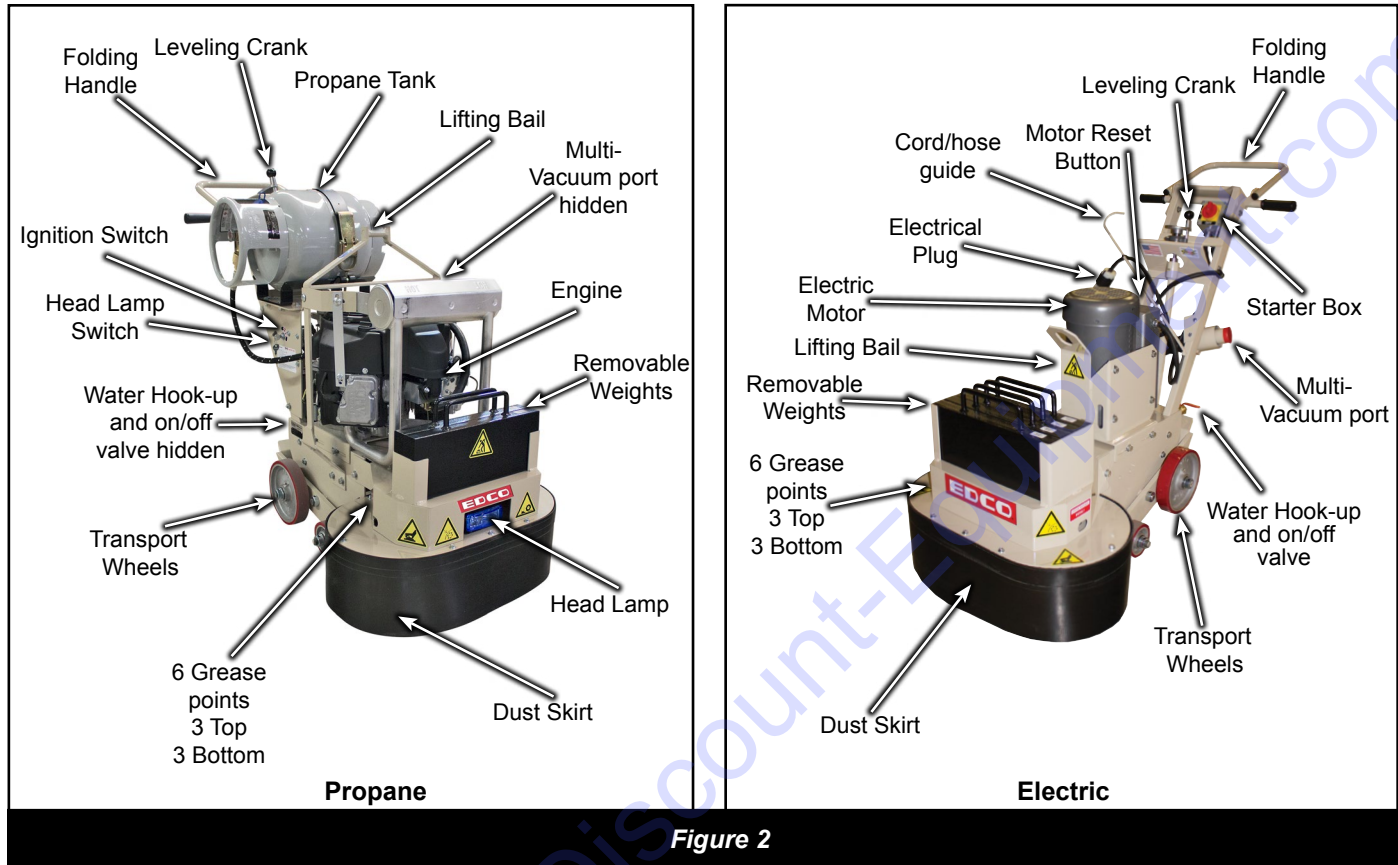
Operating Controls

Please Note:

Controls shown are for the model indicated.

The location of these controls may vary on different models.

Due to improvements and changes the illustration shown may vary from your machine.



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.

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 and polishers are designed to be used to grind and polish flat horizontal concrete slabs using EDCO approved accessories.
- The machine is equipped with a propane engine or an electric motor.
- The machine is 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 skirts are in place and functioning properly. Do not operate unless all skirts are in place and secure.
- Perform all maintenance according to schedule on page 10 of this manual.
- Check to be sure water tubes are functioning properly if performing wet-polishing operations.
- Inspect accessories - Be sure the correct accessory is installed properly on the machine for it's intended use.
- Check accessories for damage, 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 polishing operation.
- **FOR WET POLISHING:** Use just enough water to create a slurry and contain the slurry with an external stand alone wet vac and wand or equivalent method.

PROCEDURE FOR ATTACHING A VACUUM

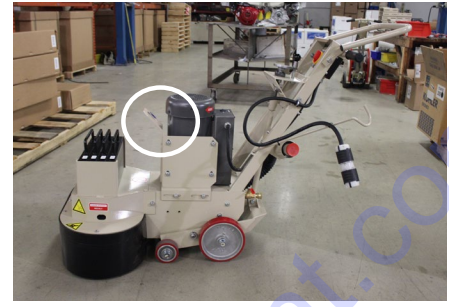


If using a vacuum for dust control attach it to the vacuum port at the rear of the machine. The multi-vac port is circled in the photo above.



Operating Instructions

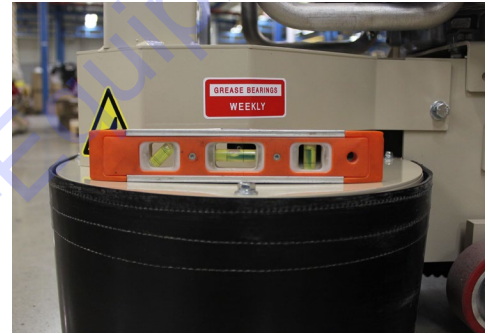
- **WHEN HOISTING OR LIFTING THE MACHINE :** **DO NOT** lift machine by the operating handle as shown in the photo below on the left, damage to machine will result, use the lifting bail located above the engine or in front of the motor mount as shown and circled in the photos below.



- **BEFORE STARTING THE MACHINE:** Turn the hand crank shown (circled) in the photo below counter clockwise to lower the machine and clockwise to raise the machine. Adjust the machine so it is on the same plane (level) as the surface being worked on. Make sure electric clutch switch is in the off position.



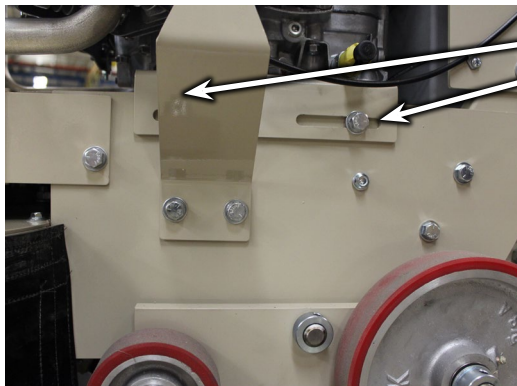
Always maintain machine level with surface. When on a level surface this is easily adjusted by using a bullet level placed on the machine as shown in photo on right.



- **START ENGINE:** Allow it to warm up. Position the machine at the starting point (see above). Engage electric clutch. Use a slow sweeping motion from left to right and back continuously, do not force the machine into the work, the machine should glide on the surface and the engine or motor should not strain. Do not allow machine to sit in one place too long. Damage to the surface or accessories can result.
- **START MOTOR:** Press green button to start. Raise machine slightly from surface until motor comes up to speed. Return machine to level. Press red button to stop.
- **WHEN WET POLISHING:** 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.
- **TO STOP THE MACHINE: (PROPANE)** Turn off the water supply when used. Turn off light (if on). Disengage clutch. Turn off propane tank. Let propane purge from system. Turn ignition switch off. **(ELECTRIC)** Turn power switch off.
- **WHEN MOVING THE POLISHER AROUND THE WORK AREA:** Tilt polisher back on it's wheels so the accessories do not make contact or strike the slab surface during movement. Damage to accessories may occur with inadvertent contact with the slab.
- **IF THE ENGINE STOPS:** Turn the ignition switch to the off position. Raise the polisher off of the floor. Then inspect the accessories for damage. Replace all damaged (or questionable) accessories immediately. Level machine, start engine, engage electric clutch and continue polishing.
- **BEFORE TRANSPORTING THE MACHINE:** Stop machine by turning off before lifting or removing any accessory. See the directions for changing accessories on **page 8**.

PROCEDURE FOR ADJUSTING OR REPLACING DRIVE BELTS

NOTE: The following applies to both sides of the machine.



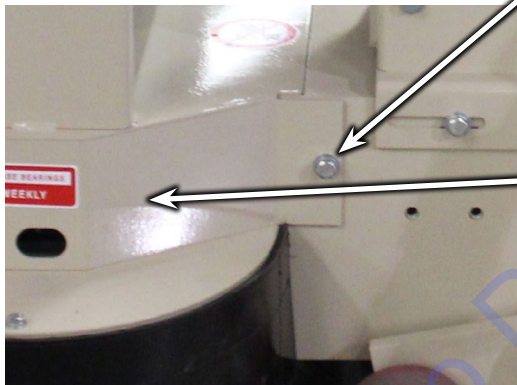
To adjust the drive belt tension loosen two (2) cap screws securing the engine/motor mount to the frame on both sides of the machine.

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

Re-tighten the four (4) cap screws loosened earlier maintaining pressure on the engine/motor mount to prevent belt from loosening.

To replace the belts, remove the hood by removing two (2) cap screws, one on each side of the machine. Remove the cover and sit aside.

Loosen the four (4) cap screws as in the above step to adjust belt(s) tension and slide the engine/motor mount forward as far as it will go, this will allow enough belt slack for easy belt removal.



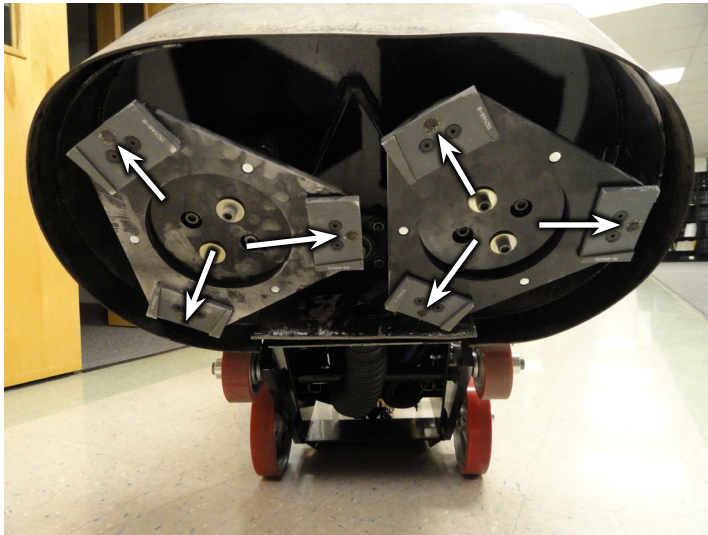
Hood covers pinion sheave, belt and flange bearings.

Remove the belt from the engine/motor and pinion shaft sheaves.

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

NOTE: New belt(s) should be retensioned after machine 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. On each of the accessory holders there are (3) positions for accessories. To install an accessory slide accessory into holder in direction of white arrows. Repeat for the other positions on this holder and then repeat for the other accessory holder.

To remove an accessory, there are several different types, all are removed in the same manner. To remove an accessory slide towards the center of the accessory holder and out. If binding is encountered use a rubber mallet, not a hammer, to tap it out of the holder.

NOTE: THE ABOVE ILLUSTRATION IS VIEWING THE MACHINE FROM THE FRONT BOTTOM.

PROCEDURE FOR LUBRICATING FLANGE BEARINGS



Three
grease
fittings
circled
in
photo
on
left.

The hood has grease point access for the flange bearings as shown in the photo above left, two holes are located on this side of the machine and one on the opposite. The grease points are circled in the photos above. There are duplicate grease fittings on the underside of the machine in the photo on the right. The skirt will have to be removed to access these grease points. There are a total of six (6) grease points, three (3) on top and three (3) on the bottom.

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.

MAINTENANCE INSTRUCTIONS



1. Disconnect the spark plug wire(s) from the spark plug(s). All maintenance to be performed by qualified personnel. Never service machine while it is running.

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

3. Grease bearings after every 50 hours of use. Refer to **page 8** for lubrication points.**

4. 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, check bearings and inspect to be sure proper guards are in place and secure.

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

To tension the belt, loosen engine mounting hardware slightly. Adjust the engine position towards the back of the machine until the belts are tight. Re-tighten the engine mounting hardware, refer to **page 7**.

Proper belt tension must be maintained to transmit the engine power to the polishing discs. A slipping belt will overheat and polishing speed limited. An over tensioned belt will shorten the belt and bearing life.

6. Before operation, check Disc(s) to be sure they are tight. Disc(s) may loosen with use. Tighten bolts (4 on each disc) as required.

** Gear Case

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

Each machine 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, add or change.

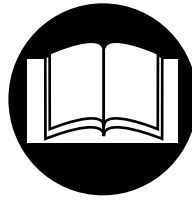
Each machine has flange bearings on top and bottom of the machine. All bearings are self-aligning, sealed units equipped with grease fittings. These bearings should be lubricated every 50 hours of operation with Lubriplate No. 630-2, or other quality bearing grease. DO NOT over lubricate.

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





Repairs are to be performed by authorized EDCO DEALERS only.



Read and follow all instructions in the Engine/Motor 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				
Grease Bearings				X	
Inspect Drive Belts	X				
Inspect Polishing Discs	X				
Belt Tensioning					X
Clean Dust & Dirt Off of machine					X

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