



Operator's Instruction Manual
TMS-10



10" Electric Powered Masonry Saw
Shown with optional stand



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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.



Equipment Instruction Manual

EDCO TMS-10

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Shown with optional
"Folding Table"
22 lbs 10 kg



Note: Dimensions and Specifications for the TMS-10 are approximate and subject to change.

Figure 1

Overall Dimensions without optional stand		
Height	21 1/4"	54cm
Width	20 3/4"	53cm
Length	34"	86cm
Weight	96 lbs	44kg



Read and understand this *Operator's Instruction Manual*,
and the *Engine Manufacturer's Owner's Manual*
before operating this equipment.



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

DANGER

Safety Guidelines

WARNING



Eye and ear protection must be worn at all times while the TMS-10 is in use. During normal operation, sound pressure levels 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 from debris that may be dropped. Take precautionary steps to be sure hair will not be caught in moving parts.



- When loading or unloading the saw, use caution. Make sure rolling table is locked using the table lock so that the blade will not be damaged. (Figure 4, Item Q) Do not move the saw while the engine is running.

- This TMS-10 electric powered saw is designed to be used in areas where electrical power is available.
- If the thermal overload relay is triggered; allow for the motor to cool before compressing the thermal "RESET" button. (Item N, Figure 3)

DANGER

• This machine is designed to cut interlocking pavers, retaining wall block and brick. The work piece must be placed on the rolling table surface and the table used to move the work piece to the blade. Cut only in a straight line. Do not force or twist the work piece into the blade. Personal injury or damage to the equipment or blade can result.

WARNING

• Never exceed the maximum operating speed of the blade. Match the blade speed rating with the arbor shaft speed. (See page 7)

• Never leave the saw running unattended.

- Never operate this saw under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.
- Make sure all safety decals can be clearly read and understood. Replace damaged 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 Instructions

Consult the Motor Manufacturer's Owner's Manual for information on specific models.

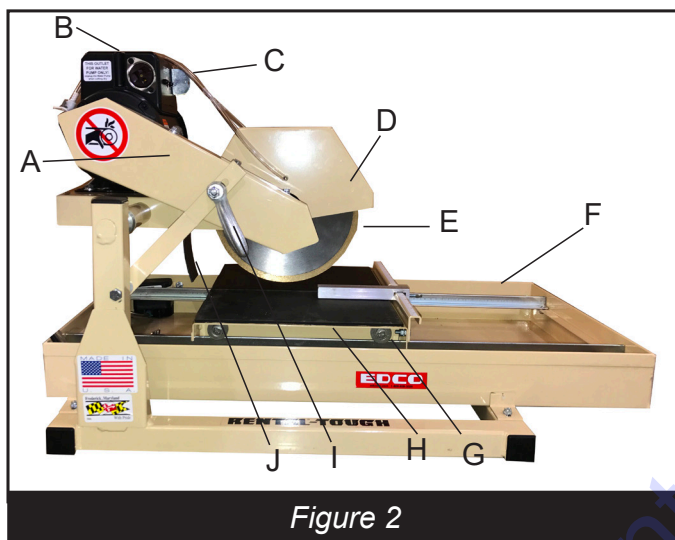


Figure 2

- A. Belt Guard
- B. Electric Motor
- C. On/Off Switch
- D. Blade Guard
- E. Diamond Blade
- F. Water Tray
- G. Rolling Table Wheels
- H. Rolling Table
- I. Head Locking Handle
- J. Splash Guard

- K. Electric Motor
 - L. Water Pump Outlet
 - M. Belt Guard
 - N. Thermal Overload
- Note: Item "L" is designed for water pump use only. Damage may occur if used to power other devices.

- O. Belt Guard
 - P. Rolling Table
 - Q. Water Pump Tube
- Note: Submersible water pump not shown.

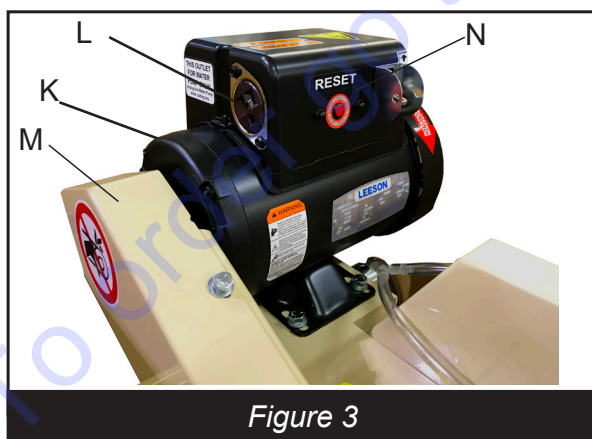


Figure 3

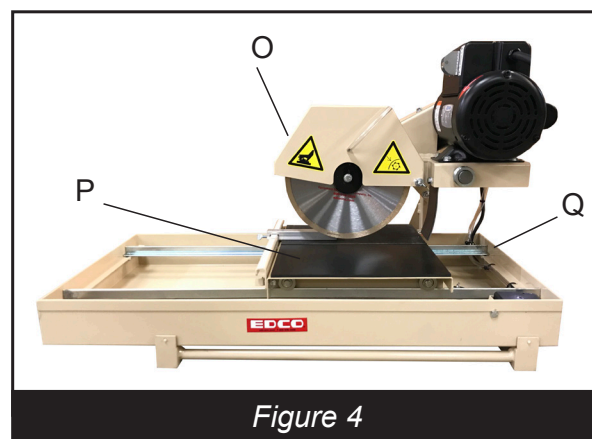


Figure 4



Operation

Turn motor switch to on position -- listen for motor to reach operating speed. DO NOT use machine if motor hums or does not reach operating speed within a few seconds.

Motor hum is a malfunction that may be caused by:

1. Insufficient voltage
2. Motor improperly wired
3. Internal motor problems
4. Blade jam
5. Over tensioned belt
6. Damaged motor cooling fan guard

Electric motor burnout is usually due to incorrect operation. Some common causes are feeding material too fast causing the blade to jam, insufficient voltage from power supply, undersized or excessive length of extension cord.

When cutting masonry products - it is important that the blade cut at its maximum recommended speed (R.P.M) - Do not force or jam blade - this will cause motor to overheat, trip overload device, or motor burn out.

When using diamond blades always keep water supply above minimum level to insure that blade is running cool. Use proper blade for material to be cut.

Proper blade speed is between 2400 RPM (1 HP) and 3400 RPM (1 1/2 HP) motor.

Since blades made by different manufacturers act differently - do not expect to get the same results from each blade.

Rule of thumb: hard materials require soft blades. Soft materials require hard blades. Check manufactures specifications on blade and be sure it corresponds with the material you will be cutting.

For wet cutting:

- Fill tray with clean water (approximately 1 1/2" deep or 3.5 gallons)
- Connect submersible pump into special pump outlet on motor.
- Keep tray clean and do not allow pump to run dry by becoming jammed with dust or cuttings.
- BE SURE THAT ADEQUATE WATER REACHES THE BLADE
- Check hoses, valves, etc.
- Clean screen on water pump.
- Water flow can be adjusted using clamps on water supply hose.



Before Starting:

- *Read and understand the instructions supplied by the motor manufacturer.*
- Familiarize yourself with all saw controls. (Figures 2-4)
- Visually inspect the entire machine for damage or wear. Remove excess dirt or debris. Check that all nuts, bolts and screws are tightened. Check for proper alignment of moving parts, possible binding of moving parts, breakage of parts, loose mounting brackets, and any other condition that might affect operation.
- Inspect diamond blade and arbor shaft. Check blades for cracks, loose segments, worn or out-of-round arbor holes. Do not use warped, twisted, out-of balance blades or any blade of questionable condition. (Figure 8)
- If wet cutting, fill the water tray with water. The water pump recycles the water from the tray, plug the drain hole and be sure the water is circulating from the tray to the water pump. Clean water pump daily using at least 5 gallons of clean water.
- If wet cutting, with an external source of water, attach water source to the machines supply hose as shown in figure 5, open the drain plug in the water tray and make sure the water has somewhere to go that is clear of the working area.

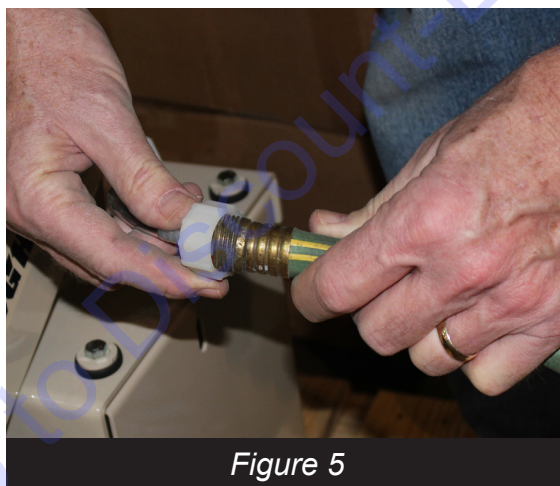


Figure 5

Use Diamond Blades Only	
Blade Diameter	10 inches
Arbor Shaft Diameter	5/8"
Max Cutting Depth	3 3/4"
Arbor Speed	1 HP - 2400 RPM 1 1/2 HP - 3400 RPM



Starting the Saw:

- Be sure blade is clear of item to be cut.
- Be sure cutting head is secured in cutting position.
- Turn motor power switch to on position and observe that motor comes to full speed before continuing.

Cutting:

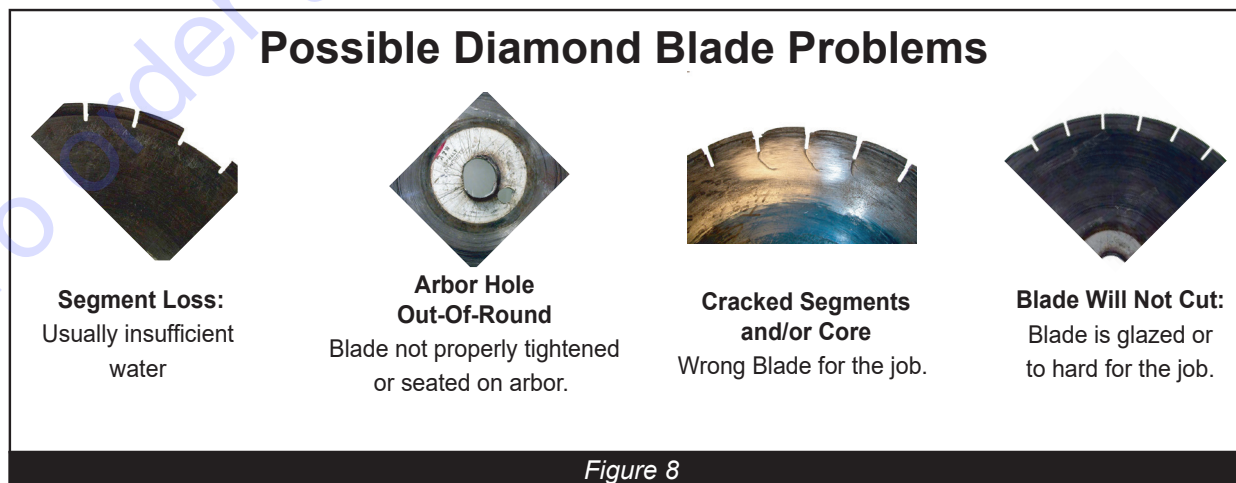
- Place work piece on rolling table against the backstop and use the rolling table to move the work piece to the blade. Do not strain the engine while cutting or jam work piece into the blade. Do not twist the work piece while cutting.
- Do not reach underneath or around work piece while the blade is rotating.
- Keep stable footing at all times while cutting.
- Keep hair, clothing, fingers and all body parts away from the blade and any other moving parts.



- For wet cutting, maintain an adequate supply of water to cool the blade.
Note: If using the water pump, clean water must be run through the pump daily to avoid build up in the pump.
- When you have finished cutting, stop the motor by turning the motor power switch to the OFF position. Do not leave the saw running unattended.
- Clean dust and debris from entire machine.

IMPORTANT REMINDER: This machine is designed to use diamond blades to cut tile, and masonry products. Do not use it to cut anything else.

Refer to the *Rx for Diamond Blades* for more detailed information on diamond blades.





Maintenance

WARNING

Disconnect power plug lead before performing any maintenance on this machine.

WARNING

Consult the *Motor Manufacturer's Owner's Manual* for more detailed motor maintenance instructions.

Changing the Blade:

- Inspect the new blade thoroughly before installing. Check for cracks, loose segments, worn or out-of-round arbor holes. Refer to the *Rx for Diamond Blades* pamphlet provided with your blade for more detailed information on inspecting blades.
- The TMS-10 was designed to be used with diamond saw blades only.

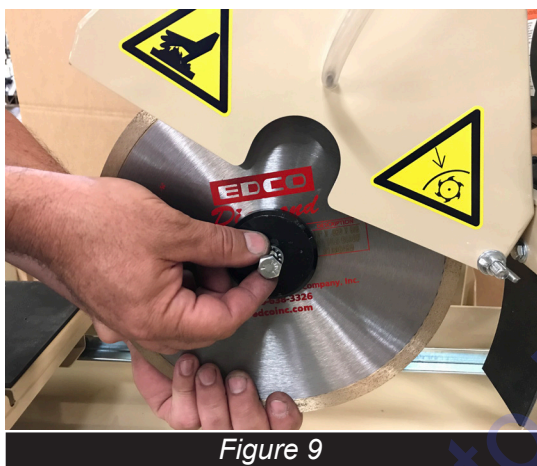


Figure 9

Push the rolling table all the way to the back or front of the machine to allow full blade clearance.

Loosen the wing nut and slide blade guard up and tightened into place.

Loosen and remove locking plate bolt. Carefully remove old blade. (Figure 9)

Inspect arbor shaft, backing plate and blade guard while blade is off.

Clean if dirty or replace if damaged or worn.

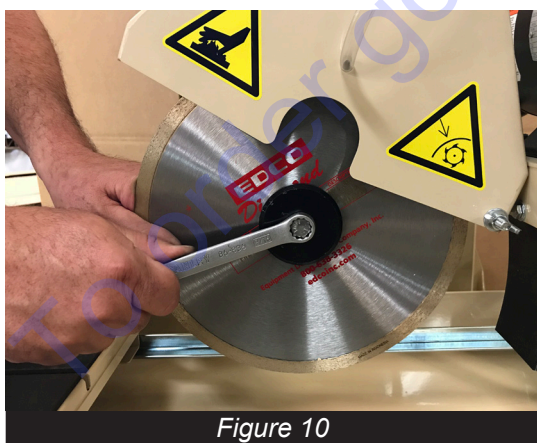


Figure 10

Look for "direction of rotation" markings on the new blade. (Usually an arrow stamped on the blade.)

Place new blade on the arbor shaft verifying that the markings on the blade follow the proper direction of rotation.

Reinstall and tighten bolt using a SAE 9/16 wrench.

Reposition blade guard and tighten wing nut. (Figure 10)

Reconnect power plug lead.



Belt Adjustment and Replacement:

- Periodically check to be sure the belt is undamaged and that it is the proper tension. Slipping belts will overheat causing the cutting speed to be limited and will shorten the life of the belts. Over-tensioned belts will shorten the life of the belts and bearings.
- On new equipment and after installing new belts, be certain to re-tension the belts after the first 4 hours of use. New belts are stiff and require a break in period. Belts that become loose could slip and/or overheat.
- Damaged, stretched or excessively worn belts should be replaced with a new complete set of belts.

IMPORTANT: A belt must be replaced if it is showing wear.

Belt Adjustment and Replacement:

Refer to Figure 11 to remove belt cover for belt tensioning or replacement.

Note: Keep track of where hardware goes for reassembly.

1. Remove lock nuts 2 each "A" & "B".
2. Remove head locking handle and bracket "C" & "D".
3. Remove 2 each bolts and lock washers "E" from belt guard.
4. Remove belt guard "F".
5. Refer to next two steps to tension or replace belt,

A straight edge is a good tool to use to be certain sheaves are properly aligned. (Figure 12)

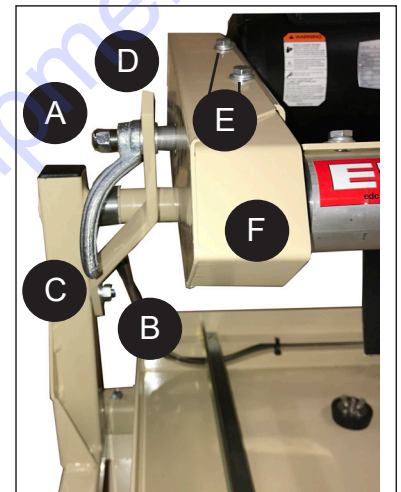


Figure 11



Figure 12

To tension or replace belt, loosen motor assembly bolts (4) circled in Figure 13 and slide motor assembly forward or back until belt is at proper tension or loose enough to remove belt.

Tighten motor assembly mounting bolts.

NOTE: Insure motor and arbor sheaves are lined up according to previous step.

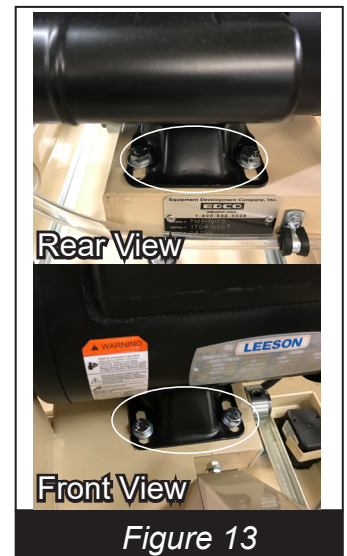


Figure 13

Clean and Lubricate Wheels on Rolling Table:

During daily visual inspection, check to be sure the wheels on the rolling table move smoothly and that there is no debris in the wheel tracks. (Figure 14)

Lubricate the wheels as necessary. Replace damaged or worn wheels.



Figure 14



Repairs are to be done
by authorized EDCO
Dealers only.



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

Maintenance Schedule

This is for a quick reference to the information supplied in the Maintenance portion of this manual.

	Before each Operation	Daily	Every 4 Hours	Every 50 Hours of Operation	As Required	Annually	Every 3600 Hours
Visually Inspect Entire Machine and Hardware	X						
Inspect Blade and Arbor Shaft	X						
Inspect Guards		X					
Clean Dust and Dirt Off Machine		X					
Inspect Belts			NEW		X		
Belt Tensioning					X		
Lubricate Wheels on Rolling Table					X		
Clean Water Strainer		X					
Motor Bearing if fitting available							X

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