

E-MPS-I-1007

# READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL THOROUGHL' BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT. Death or serious injury could occur if this machine is used improperly.

SAFETY MESSAGES

Safety Instructions are proceeded 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.

WARNING Indicates an imminent hazard which, if not avoided, can result in death or serious injury.

CAUTION 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 reproduc-

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#### 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.
- this equipment. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electri-cian or service person if there is any doubt as to whether outlet is properly grounded. Adhere to all local codes and profinances.
- NOTE: In the event of a malitration or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is upper with a grounded plug and must be connected to a more properly grounding properly grounded. DO NOT motify properly installed and properly grounded. DO NOT motify properly grounded. So NOT motify properly grounded and grounded and grounded and grounded gro

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

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  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 personel. 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 many control of the control of the control of the operators' responsibility to keep other people (when the people of the people workers). The people of the operators' between the operators' between the operators' between the operators' between the people of the people of the operators' safety and the safety of others, always keep all guards in place during operation.









Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must as hard hat and safety shoes when continte for the job such as hard hat and safety shoes when continte for the job such as hard hat and safety shoes when continte to the 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 dismemblement or death.

Except body parts and loose clothing away from moving or death.

Seep shoety parts and loose clothing away from moving or death.

So could result in dismemblement or death.

Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.



#### DUST WARNING



ARNING
Some dust created by power sanding, sawing, grinding, drilling, and other construction activities conclains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

Lead from leading some construction of the conclaim said Crystaline silical from brioks and concrete and other massarus mondation.

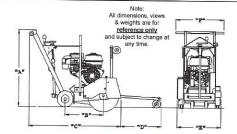
Crystalline silica from brioks and concrete and otner masonry products. 
Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk-work in a well ventilated area, use a dust control system, such as an industrial-shyle vacuum, and wear approved personal safely equipment, such as a dustiparticle respirator designed to filter out microscopic particles.



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## **Operators Instruction Manual**

**Table of Contents** Section Page Number Operating Controls Operating Instructions... Optional Accessories.... Maintenance Instructions Changing Blades.. Lubrication Points. Maintenance Schedule..... Limited Equipment Warranty..



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HOW TO ORDER REPAIR	PARTS
To insure product safety and reliability, EDCO replacement parts when making ment,	always use genuine repairs to the equip

Please note: Due to improvements and changes in the equipment the illustrations shown may be different from the actual Toll Free: Phone 1-800-638-3326 • Fax 1-800-447-3326

Model #	DS-18	SK-14	SB-14	ASB-14	SK-10
"A"	39 3/8"	38"	37*	37"	35*
*B*	48 3/4"	16 1/2"	17 3/4"	17 3/4"	15"
"C"		48"	48 3/4"	48 3/4"	41"
"D"	20 1/2"	14 3/4"	14 1/2"	14 1/2"	N/A
"E"		22"	21 1/2*	21 1/2"	15 1/2"
.Ł.	254 lbs.	23 1/2*	23 1/2"	23 1/2"	17*
Weight		173 lbs.	180 lbs.	160 lbs.	153 lbs.

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## Operating Controls





## Please Note:

Controls shown are for the model indicated.

The location of these controls may vary on the

Due to improvements and changes in the quipment, the illustration shown may be dif-ferent from the actual machine.





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#### 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 saws are designed to be used to cut flat horizontal concrete or asphalt slabs using diamond saw blades
- The machines may be equipped with gasoline engines or electric motors
- They are designed to be controlled by a single operator from a position at the rear of the saw. Maintain a safe distance from other personnel in the area.

#### Be sure to read the Rx for Concrete Saws 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 blade guard is in place and

- Be state an greater star or processor of the secure. Perform all daily maintenance. Check to be sure water tubes are functioning properly if performing wet-outting operations. Inspect blade Be sure the correct blade is installed properly on the machine, including RPM, size, mounting arrangement and its intended use.
- Check blade for damage (see Figure 5, below).

  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 cutting operation. Scribe a line to help guide the

## Possible Diamond Blade Problems



Segment Loss: Usually insufficient water



Blade not properly tightened or seated on arbor

Out-Of -Round



Blade Will Not Cut: and/or Core Wrong Blade for the job Blade is glazed or to hard for the job





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## Operating Instructions

- TO STOP THE MACHINE: Stop forward motion. On gasoline models push the throttle to idle. Turn the depth control handwheel knob counter clockwise to raise the blade clear of the cut. Turn ignition or power switch off and let the engine come to a complete stop. Turn off the water supply.
- WHEN MANEUVERING THE SAW: Make sure the blade is raised high enough so it does not strike the slab surface. Damage to blade may occur with inadvertent contact with the slab or other object.
- DO NOT FORCE BLADE WHILE CUTTING
- IF THE POWER SOURCE STALLS IN THE CUT: Raise the blade completely out of the cut. Disconnect the power source (i.e. the spark plug wire on a gasoline engine or disconnect an electric model at the ma-chine). Inspect the blade flange nutbot to verify that they are still tight, and inspect the blade for damage Replace damaged (or questionable) blades immediately.
- WHEN TRANSPORTING THE SAW: Be sure to remove the blade. Before removing the blade, disconnect the power source before lifting or removing any guard. See the directions for Changing Blades on (page 9):
- WHEN HOISTING A CONCRETE SAW EQUIPPED WITH A LIFTING BAIL: Always inspect frame and attaching hardware for damage <u>before</u> lifting. Use proper safe hoisting techniques and hardware.

## Optional Accessories



Model SK-14, with WaterTank Option, shown Figure 7

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## **Operating Instructions**

- FOR WET CUTTING: Attach the water supply. A flow rate of approximately 2 gallons per minute (minimum) is required. Attach the water hose to the coolant valve. Use the valve to control the flow of water.
- · FOR DRY CUTTING: Provide a respirator and dust control system.
- FOR ELECTRIC MODELS: Be sure the "OFF" button is depressed. Hook up the electrical power source by plugging into the connector provided. If the cord does not mate with the connector, consult a qualified licensed electrician before continuing. Be sure that the equipment is properly grounded.
- 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.
- FOR PNEUMATIC MODELS: Before connecting the air source, be sure the "WHIPCHEK\_" cable is properly installed and the flow control lever is in the "OFF" position. Adjust the air pressure to 90 psi (100 psi MAX) using the air regulator valve (see Figure 4 on page 4). Open the flow control lever gradually to start and adjust the oil regulator knob as required for your application.
- BEFORE STARTING THE ENGINE OR MOTOR: Raise the saw blade clear of the working surface. The blade is raised using the depth control handwheel knob mounted on the upper handle assembly (Figure 6). Lift the knob to unlock and turn the handwheel clockwise until the blade is clearly off the ground.
- START ENGINE AND ALLOW IT TO REACH OPERATING SPEED. Position the saw over the cutting line. Bring the engine to full speed. Lower the blade into the slab surface by slowly turning the depth control handwheel knob. NOTE the 14 inch blade has a maximum cutting depth of 4 3/4". Do not allow the arbor flanges to contact slab

When the selected cutting depth is reached, lock the depth control When the selected cutting depin is reached, look the depin control handwheel knob and proceed to push the saw forward. The saw blade must remain straight, do not twist, and do not force blade, the engine or motor should not strain when cutting.



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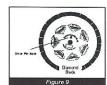
## Maintenance Instructions



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

- Never work under saw without first placing chocks on the wheels and support device under the saw to prevent it from moving or falling. Always work on a flat and level surface.
- Refer to the engine manual for maintenance information specific to the engine used. Be sure to check oil level before operation. Clean air filter element daily.
- Grease bearings after every 4 hours of use. Refer to (page 10) for lubrication points on available models.
- Perform a visual inspection of the entire machine before 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, etc...
- Inspect belts before 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 a new matched set.
- To tension belts, loosen motor mounting hardware slightly. Either push motor towards the rear of the saw (handle bar side) until the belts are tight or on the models with a belt tensioning adjustment bolt, use bolt to adjust the motor until the belts are tight. Re-torque the engine mounting hardware (see Figure 8 below).
- Proper belt tension must be maintained to transmit the engine power to the cutting blade. Slipping belts will over-heat, the blade life will be shortened and the cutting speed limited. Over tensioned belts will shorten the belt and
- Check diamond blades for cracks, loose segments and oversize, worn, or out-of-round arbor holes (See Figure 5 on page 5). Do not use <u>amy</u> questionable blade since serious injury and/or damage to property can result. Do not use warped, histed, or out-of-bladene blades. Unbalanced blades will wear excessively, vibrate and damage both arbor shaft and bearings. Do not use a blade without a drive pinhole (Figure 9).
- For safety reasons, EDCO <u>does not</u> recommend the use of any abrasive blades. Abrasive blades can break and cause serious personal nijury to operator and/or bystanders. If abrasive blades are used by choice, use only reinforced abrasive blades. Inspect abrasive blades carefully.
- Be sure arbor shaft, backing plate and blade cap are clean and in good condition. Flanges should be free of nicks and burns. Replace if out-of-round or worn,







## Changing Blades (On EDCO saws listed in this manual)



Disconnect the machine from the power source before performing any work on the equipment (i.e. changing the blade). To disconnect the power source on gasoline engine models, remove the spark plug lead. On electric models, unplug the electrical power cord at the machine.

Make sure you have the proper blade for the job. Determine the hardness and composition of the slab. Give your dealer complete information including whether re-bars are present, the desired depth of the cut, and the length of the cut. If in doubt, contact the blade manufacturer.



Inspect the blades before installing. Check diamond blades for cracks, loose segments and oversize, worn, or out-of-round arbor holes *(Figure 5 on page 5)*. Do not use <u>amy</u> questionable blade since serious personal injuly and/or damage to property can result. Do not use warped, twisted, or out-of-balance blades will wear excessively, vibrate and damage both arbor shaft and bearings. Do not use a blade without a drive pinhole *(Figure 9)*.



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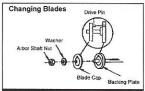


Never exceed the maximum operating speed of the blade. Be sure to match the blade speed rating with the arbor shaft speed on the machine. The standard models of the SK-14, SB-14, DS-18 have an arbor shaft speed (unloaded) of 3600 RPM and 3000 RPM under load.

- Do not remove or lift the bladeguard unless machine is stopped and all power is disconnected. Be sure to reinstall blade guard before reconnecting the power source.
- Be sure the arbor shaft, backing plate, and blade cap are clean and in good condition. Make sure the threads are dean and undamaged. If any damage is detected, consult your EDCO dealer (or the EDCO factory).
- The backing plate and blade cap (Figure 10) should be the same diameter, do not use if they are different diameters. For abrasive blades and for all steel centered diamond blades, the backing plate and blade cap must be at least 1/4 the diameter of the blade.
- The drive pin should be tight in blade cap and long enough to fit through blade and into hole in backing plate.
- Place the blade on the arbor shaft and turn until the drive pinhole lines up with the backing plate.
- Place the blade cap on the arbor shaft so the drive pin goes through the holes in the blade and backing plate.
- Put on washer and arbor shaft nut and tighten arbor shaft nut.
- Secure the blade guard in the operating position be-

#### Optional:

CE models are equipped with electrical interlocks. Blade guards and/or arbor guards must be in place and secured before these engines can be started.



fore reconnecting the power supply or starting engine.

