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EDCO

E-SS20/16A-I-0607

Equipment Instruction Manual EDCO Model SS-20 & SS-16A

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Maintenance......
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HOW TO ORDER REPLACEMENT 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.

Toll Free: Voice 1-800-638-3326 • Fax 1-800-447-3326

Model#	SS-20	SS-16A
A (handles extended)	79" 201cm	79" 201cm
B (handles retracted)	45 1/2" 116cm	45" 114cm
С	24" 61cm	24* 61cm
D	39° 99cm	37 1/2" 95.25cm
E	2" 5.1cm	2* 5.1cm
F	19 1/4* 49cm	19 1/4" 49cm
Fuel Tank	3 Gal 11 Liters	1.72 Gal 6.5 Liters
Weight	480 lbs. 218kg	355 lbs. 161kg

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 proceeded by a graphic alert symbol DANGER, WARNING, or CAUTION.

DANGER

DANGER

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
 Engine exhaust from the ex cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentations 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 quip-ment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning indude, headache, nausea, weakness, dizzines, visual problems and loss of conscious ness. 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 electrical no service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- older is properly governed.

 NOTE: In the sevent of a malfunction or breakdown, grounding NOTE: In the sevent of a malfunction or breakdown, grounding NOTE: In the sevent of a malfunction or breakdown grounding the disease. 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 electricate install the more prepagated.
- cian install the proper receptacle.
 Switch motor OFF <u>before</u> 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 person tool. Maintain a safe operating distance to other person, and the person tool to maintain a safe operating distance to other person, the person tool. Maintain, bylanders, st.d.) away only a safety netting, etc. for a safe distance. Failure to do so may result in others being injured by fright gebris 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.















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

DUST WARNING



Some dust oreated 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 brioks 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 dustyparticle respirator designed to filter out microscopic particles.



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Read and understand the Operator's Manual, the Rx for Concrete Saws, and the Engine Manufacturer's Owner's Manual

<u>before</u> operating this equipment.
Death or serious injury can result if this machine is used improperly.







Safety Guidelines



Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this saw can ignite flammable materials or vapors. Operator must wear appropriate clothing and footwear. Do not wear loose clothing or jewelry that can get tangled or caught in moving parts.





Eye and ear protection must be worn at all times when this machine is in use. During normal use, sound levels exceed 92dB. Use only ANSI approved safety glasses to help prevent eye injury. Every-day eyeglasses have only impact resistant lenses; they are NOT safety glasses.

- Keep a safe operating distance from other personnel and never leave the machine running unatte
- Maintain the machine in safe operating condition with all guards in place and secure, all mechanical fasteners tight, all controls in working order and the saw configured for the job application
- The SS-20 is designed to cut flat, horizontal concrete or asphalt slabs using diamond saw blades.
- The SS-20 is to be operated by a single operator from a position at the rear of the saw.
- Avoid deck inserts, pipes, columns, openings, electrical outlets, or any objects protruding from slab surface.
- Inspect the blades carefully before installing. Do not use <u>any</u> questionable blade since serious personal injury
- Never operate this saw 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 all safety decals on the machine can be clearly read and understood. Replace damaged or missing

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









Operating Instructions

- 1 Emergency Stop (E-Stop): PUSH to shut off the engine in an emergency. Before operation, be sure the E-Stop is reset by litting the knob. CAUTION: Do not use the E-Stop as an ON/OFF switch in place of the ignition. If the ignition is left on, it will drain the battery.
- 2 Choke: Use to aid cold weather engine starting. Follow the instructions in the Engine Owner's Mai
- 3 Ignition Switch: Turn key to START position. Once engine starts, leave in RUN position. Shut off Ignition Switch betwee uses. As a safety precaution, remove key when not in use, *
- 4 Throttle: Turn COUNTER CLOCKWISE to unlock. PULL UP to increase engine RPM, PUSH DOWN to decrease. Turn CLOCKWISE to lock cable in position once desired engine
- 5 Blade Saver Switch: Must be in the DRY position of engine will not start. The purpose of the Blade Saver is to stop the engine if water pressure drops. If using a WET CUT Blade open the water valve and select the WET position <u>after</u> starting the engine and before starting to cut.

Note: Numbers coincide with the Guide To Operation label on the SS-20 machine only

6 - Water Pump Switch: (Optional) Activates pump to pull water from an external tank when city water source is not convenient or available.

7 - Depth Gauge: Provides readout of blade depth. *

8 - Depth Control Handwheel: Raises and lowers the blade

9 - Speed Control: Controls saw speed in FWD and REV. This EDCO saw is equipped with a Hydrostatic Transmission, which permits infinite speed control. (Actual outling speed is limited by the saw blade and cutting conditions).

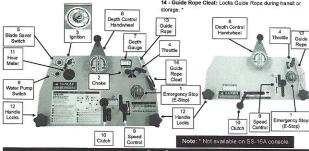
10 - Clutch: Pull back to engage DRIVE. Push forward to release drive wheels (Freewheel) SS-20. Push right to engage DRIVE. Push to left to release drive wheels, SS-16A only.

Hour Meter: Gives readout of engine run-time. One sug-sted use for this meter is to keep track of scheduled intenance, (See page 11)

Handle Locks: Loosen knobs to adjust handle posi-Be sure to securely retighten the knobs once handles are necessary. Adjust before starting saw for operator comfort and peration.

13 - Guide Rope: Provides raising and lowering of cutting

14 - Guide Rope Cleat: Locks Guide Rope during transit or



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Before Starting the Engine:

Read Rx for Concrete Saws before operating.
Inspect machine before each use according to the Maintenance Schedule on page 15.
Locate and be familiar with all engine and saw controls (Figure 2).
Inspect the blades carefully before installing. Use the correct blade for the job. Check rate of RPM, diameter and size configuration. Make sure blades are correctly mounted.
For wet cutting, attach supply hose to Water Hock Up Valve (Figure 3).
NOTE: Do not flip Blade Saver switch to WET until after the engine has started.
Adjust the handles for operator comfort and safe operation. Be sure to retighten knobs once handles are positioned.
Be sure cutting line is well defined.
Move the saw into operating position.

Starting the Engine:

- · Check to be sure blade is raised not in contact with the slab surface and blade
- Oriex to be suit each is lased into in contact with ine side surrace and blade guards are in place.

 Blade Saver switch (Figure 4) must be in the DRY position or engine will not start. Note: The Blade Saver detects water pressure from the switch to the blade, if water pressure drops below 21/2 gallons per minute, the switch will shut off the engine to prevent damage to the machine and/or the blade.

- prevent damage to the machine and/or the blade.

 Check that the Emergency Stop (E-Stop) is in the UP position.

 Turn Engine Ignition key to START. After engine starts, leave Engine Ignition in the RUN position. Ignition position on saw will vary depending on engine. (Review Figure 2).

 NOTE: In cold weather, use the Choke to aid starting.

 If wet cutting, open Water Valve (or turn on Water Pump) then flip the Blade Saver switch to the WET position. Check to be sure water flows freely to the blade. Water should be visible on the ground around the blade.

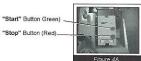


SS-20 only. For blades marked DRY CUTTING, leave switch in the DRY position. While water is not required for cooling, it may be used for controlling dust. For health reasons, it is strongly recommended that the operator wear a respirator if cutting dry and water is not being used to control dust from the material being removed. That dust may contain chemicals known to cause serious illnesses, including Silicosis a fatal disease of the lungs. Check the chemical properties of the material to be removed and follow all EPA/OSHA regulations. removed and follow all EPA/OSHA regulation

For Electric Models:

- Be sure the "STOP" (red) button is depressed (Figure 4A). 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 the equipment is properly grounded.
- After completing the previous step, to start the motor, be sure the Emergency Stop (E-Stop) is in the UP position (Figuer 2). Press the "START" (green) button (Figure 4A).





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Wet Cutting Only: Maximum Depth of Cut	SS-20	SS-16A
for 14" diameter blade	. 4 3/4"	4 3/4"
for 16" diameter blade	. 5 3/4"	5 3/4"
for 18" diameter blade	. 6 3/4"	
for 20" diameter blade	. 7 3/4"	
Figure 5	Agree 1	S 12 58

For Dry Cutting: Consult Blade Manufacturer for Maximum Depth of Cut.

Starting and Controlling the Cut:

- Engine must be at FULL THROTTLE.
 Move CLUTCH lever to DRIVE position and adjust SPEED CONTROL (Figure 8).
 Pull knob up on the Depth Control Handwheel (Figure 6), slowly turn Handwheel in DOVN direction (counter doctwise) until blade comes in contact with slab surface.
 Set the Depth Gauge (Figure 7) at ZERO.
 Continue turning the Handwheel until blade has penetrated the slab to desired depth.
 Note: Depth gauge is an approximate measurement it is not exact.

Never cut deeper than the maximum depth of cut for the blade being used. Only cut in a forward direction. Always cut with the engine at full throttle.

Controlling Speed:

The SS-20 and SS-16A uses a hydrostatic transmission, chain and friction drive mechanism that engages both rear wheels to achieve forward and reverse movement. Machine speed is controlled by using the Speed Control lever.

Actual cutting speed is determined by type of blade, material to be cut and depth of cut. Adjust forward speed to meet cutting conditions

For positioning the saw, the maximun forward speed is 200ft. per minute. For safety reasons when in reverse, the SS-20 and SS-16A is designed to move at a slow walking pace. Do not force it to go fester.

Left or Right Side Cutting:

If circumstances require a left side cut, see page 11 for instructions on moving the blade and blade guard.



Depth A Gauge



E-SS20/16A-I-0607 To Stop Cutting:

Move Speed Control lever to the NEUTRAL position.
 Turn Depth Control Handwheel clockwise until blade is clear of slab.
 Push Clusch Lever forward, away from operator to the FREE WHEEL position; this will stop all forward motion.
 (Figure 8)
 Return Throttle to idle.

Flip Blade Saver switch back to DRY.
 Turn off optional Water Pump then turn off water supply valve.

To Stop the Engine:

In an emergency situation, PUSH DOWN the E-Stop.
 For normal shut off, return Ignition to OFF position and remove the key, SS-20 only.
 NOTE: Using the E-Stop as an ON/OFF switch instead of shutting off the ignition will drain the battery, SS-20 only.

Coolant Requirements:

 Water must be used when operating with blades marked for WET CUTTING. A supply of 2 1/2 - 5 gallons per minute (GPM) is necessary. Attach water hose to Coolant Valve or Pump. Adjust valves to control the flow of water

Optional Electric Water Pump Operation:

- · On all models equipped with Electric Pumps (12 V.D.C.), be sure there is water in the system AND water is being

On all models equipped with Electric Pumps (12 V.D.C.), be sure there is water in the system AND water is being supplied to the pump, SS-20 only, Attach the water hose to the valve.
Attach the water hose to the valve.
Start the engine according to the directions on page 6.
Open water valve then turn the Water Pump switch ON and the Blade Saver to WET. (Review Figures 3 & 4)
To stop water flow, SS-20 only, turn the Blade Saver back to DRY and then the Water Pump switch to OFF. Close the water valve. Never interrupt the flow of water to the pump while the pump is ON. Stopping the flow of water to or from the pump while it is ON may cause a blown water pump fluse. Should the water pump fluse blow, see directions for Changing the Water Pump Fuse page 9.
NOTE: For units with the optional Water Pump, water flows through the pump assembly at all times. If pressure from outside source such as city water supply is adequate (2 1/2 - 5 gallons per minutes), Water Pump need not be engaged.

Transporting the Saw:



WARNING Extreme care must be taken when loading or loading this machi

- If hoisting this machine, use the built in hoisting bar. (Figure 9) Use proper hoisting equipment and techniques
- Remove the blade before transporting or hoisting. Serious personal injury or damage to the equipment can result.
- Do not transport the saw with the engine running.
- Be certain the area surrounding the machine is clear of personnel before hoisting.



Hoisting Bar



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The following maintenance instructions are brief explanations of some of the items suggested in the Maintenance Schedule chart on page
These instructions are not replacements for the Engine Manufacturer's Maintenance Instructions



Maintenance

Should the Engine Stop While Operating:

- Check water supply, SS-20 only:
 a. Is city water valve fully open?
 b. Is valve on saw console open?

 - c. If you are using gravity feed, check the flow.
 d. If using a tank, is it empty?
- Check fuel level in the gas tank. Do not over fill the gas tank and never refuel a hot engine. If refueling is necessary during operation, allow the engine to cool down first.
- Check oil level. Note: Some engines are equipped with an oil pressure switch that shuts off the engine in the event
 the oil level drops below acceptable levels.
- . Was the E-Stop accidently pushed in?
- After determining and fixing source of the problem, follow all of the Starting the Engine instructions on page 6.
 If none of the above situations correct the problem, discontinue use and contact a qualified repair professional



Changing the Water Pump Fuse:

- The Water Pump Fuse is located inside saw unit. (Figure 10)
 To access it, unscrew the bolt and open the gas tank door.
 Reach in and find the fuse cap. It is located in front of the water pump.
 Twist and pull apart the cap and remove the fuse.
 Replace it with a AGC10 250V or equivalent fuse



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Grease Bearings - (9 Total)
Arbor Shaft Bearings (2) must be greased every 4 hours. All other Bearings (7) must be greased every 40 hours.

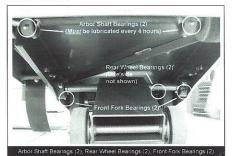
Important! Arbor Shaft Bearings MUST be lubricated

EVERY FOUR HOURS!

Front Fork Bearings (2), Rear Wheel Bearings (2), Drive Axle Bearings (2), and the Depth Control Handle Wheel Bearing (1).



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Before Changing Blades:



Inspect all blades carefully before installing. Check for cracks, loose segments and oversize, worn, or out-of-round arbor holes (See page 13). Do not use <a href="mailto:amp questionable blade since serious personal injury and/or damage to property can result." Do not use warped, twisted, or out-of-blaince blades. Unbalanced blades will wear excessively, vibrate and damage both arbor shaft and bearings.



For safety reasons, EDCO <u>does not</u> recommend the use of any abrasive blades. Abrasive blades can break and cause serious personal injury to operator and/or bystanders. If abrasive blades are used by choice, only use those which are marked as *reinforced* abrasive blades.

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. 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.

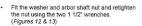




Do not remove or lift the bladeguard unless blade has stopped completely and the engine is off.

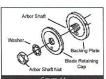
Changing Blades:

- Raise blade guard and remove arbor shaft nut, washer and blade retaining cap. (Figure 14) Both the arbor shaft nut and the flat of the backing plate require a 1 1/2* wrench two are provided with the machine.
- Clean the arbor shaft, backing plate, and blade cap and inspect for damage or wear. Make sure the arbor shaft threads are clean and undamaged. If any damage is detected, consult your EDCO dealer or the EDCO factory.
- Carefully place the blade on the arbor shaft and turn until the drive pin lines up with the hole in the backing plate. (Figure 11) Do not use a blade without a drive pin.









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Check Engine Oil Before Each Operation

Change Oil & Filter Every 50 Hours of Operation (Sooner if Necessary).



Check Drive Chains Before Operation -Lubricate Weekly Open gas tank door -Drive chain is just inside, on the right.

Inspect/adjust Arbor Drive and

Drive Belts On new machines and
after installation of new belts,
adjust belt tension after the first four hours, then as necessary.

Loosen engine mount bolts (2) turn jacking bolt to lift engine mount. (1)

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Note: To change the drive belt, the engine must be slid forward. Loosen the engine bolts (4) that hold the engine to the mount and slide the engine forward to its original position. Retighten the engine bolts and follow the directions above to retighten the arbor belts.

