



## Operator's Instruction Manual

# SS-30G & SS-30E



SS-30G Shown

## Self-Propelled Concrete/Asphalt Saw

Gasoline & Electric available

**READ AND UNDERSTAND THE OPERATOR'S SAFETY MANUAL THOROUGHLY  
BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.**

Death or serious injury could occur if this machine is used improperly.



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**SAFETY INFORMATION****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.



• Tilting a gasoline powered machine fitted with an EPA approved vented charcoal filter gas cap, beyond 20° can cause fuel leakage. If a leak occurs, do not

start or run the engine until the leak is fixed. Eliminate all other ignition sources in the immediate area (no smoking, flares, sparks or flames). Use approved gasoline absorbing material to contain the fuel leakage. Then use clean, non-sparking tools to collect absorbed materials then dispose of these contaminants properly.



• 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 powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, head-ache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

- Never refuel a hot engine or an engine while it is running.
- Engines are shipped from factory without fuel/oil.



• Propane is extremely flammable and is heavier than air and tends to settle in low areas where a spark or flame could ignite gas. DO NOT start or operate this propane engine in a poorly ventilated area where leaking propane gas could accumulate and endanger safety of persons in area. If headache develops, shut off machine. Have it checked for carbon monoxide emissions by a qualified technician before using it again. To ensure personal safety, installation and repair of propane fuel supply systems must be performed only by qualified technicians. Carbon monoxide emissions from this machine are greatly increased due to a dirty combustion air cleaner.

**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.

**ELECTRICAL POWERED EQUIPMENT CONTINUED**

- 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.
- Switch motor OFF before disconnecting power.
- Never use frayed, damaged, taped or under rated extension cords. Electrical shock could result in death or serious injury to the operator and damage to the equipment.
- Assure you are using the proper extension cord length.

**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. 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 when operational noise levels of this equipment may exceed 85db. Eye protection MUST be worn at all times.



Keep body parts, loose clothing and accessories 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. Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, 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.
- See more on the importance of dust prevention and silica warnings at: [osha.gov/silica](http://osha.gov/silica)
- More concrete and silica dust suppression training and educational materials available at [edcoinc.com/silica-standards](http://edcoinc.com/silica-standards) or scan the QR code on page 5.
- Written exposure plans are provided at <http://www.edcoinc.com/written-exposure-control-plans/>



## Operator's Instruction Manual Models SS-30G & SS-30E

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### Dimensions and Weight



Dimensions and Weight are approximate and subject to change		
Model	SS-30G	SS-30E
Height	50 1/2" 128.27cm	50 1/2" 128.27cm
Width	32" 81.28cm	32" 81.28cm
Length	58" 147.32cm	58" 147.32cm
Weight	995 lbs 451kg	1094 lbs 451kg

Figure 1

# MACHINE SAFETY SYMBOL LABEL REFERENCE



This symbol means that the guards must remain in place while the engine/motor on the machine is running because death or personal injury may result.  
(Yellow background with black pictogram and black outline)



This symbol means that there are moving parts and if feet/fingers/digits are inserted under any edge of the cutter/grinder/saw cover while the engine/motor on the machine is running that personal injury and loss of foot/fingers/digits may result.  
(Yellow background with black pictogram and black outline)



This symbol means the surface is HOT and that if fingers/digits/hands or any bare or unprotected skin comes in contact with this surface or hot accessory, possible serious burns and personal injury may result.  
(Yellow background with black pictogram and black outline)



This symbol means that potential hazardous voltages are present and the equipment must be properly grounded and extreme caution should be taken. If for any reason maintenance or repair is needed, insure that voltage(s) are disconnected at the machine and the source unless (be cautious) voltage needs to be present to troubleshoot the problem, then only qualified personal should work on "live" systems.  
(Yellow background with black pictogram and black outline)



This symbol means that the machine is heavy if the machine needs to be lifted onto or off of a truck, loading dock etc. that proper technique or heavy duty lifting device should be used, personal injury could result.  
(Yellow background with black pictogram and black outline)



This symbol means that dangerous chemicals, gases, dust particles and/or fumes are present including carbon monoxide. Proper ventilation must be maintained. Do not use gasoline/diesel/propane powered equipment indoors.  
(Yellow background with black pictogram and black outline)



This symbol means that there are sharp components and if feet/fingers/digits come in contact personal injury or death could result.  
(Yellow background with black pictogram and black outline)



This symbol means hazardous pressures are present. Caution should be exercised to prevent personal injury or damage to equipment. Face, eye and head protection should be used.  
(Yellow background with black pictogram and black outline)



This symbol means explosive and hazardous vapors are present. Caution should be exercised to prevent personal injury to face and eyes. Breathing and personal protection should be used when servicing.  
(Yellow background with black pictogram and black outline)

## MACHINE SAFETY SYMBOL LABEL REFERENCE



This symbol means that the Operator's, owners, instruction and/or manufacturer(s) manuals must be read and understood before operating or attempting to operate this electrical, gasoline, diesel or propane powered equipment, failure to do so can result in personal injury and possible death. (Blue background with white pictogram.)



This symbol means that proper eye protection must be worn/used during the operation of this equipment. There is a potential risk of operator eye damage, injury or loss of sight. This also applies to any personnel standing nearby observing the operation of this equipment. (Blue background with white pictogram.)



This symbol means that proper ear protection should be worn/used during the operation of this equipment. There is a potential risk of operator hearing damage, injury or loss of hearing which will increase based on the length of exposure. This also applies to any personnel standing nearby observing the operation of this equipment. (Blue background with white pictogram.)



This symbol means that proper head protection should be worn/used during the operation of this equipment there is a potential risk of operator head injury from foreign or loose objects the equipment might come in contact with during operation. This also applies to any personnel standing nearby or observing the operation of this equipment. (Blue background with white pictogram.)



This symbol means that proper breathing protection or engineering controls must be worn/used during the operation of this equipment there is a potential risk of operator lung damage. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, to 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 local respiratory precautions. This also applies to any personnel standing nearby or observing the operation of this equipment. (Blue background with white pictogram.)



This symbol denotes the lifting point and means that if lifting of this equipment is necessary use a lifting device that is designed to accommodate or exceed the weight of this machine. Check the Operator's manual for specifications. Using a device that is not designed to accommodate or exceed the weight of this machine could result in damage to the machine and personal injury. Do not lift equipment over people because death or serious injury could result. (Blue background with white pictogram.)



This symbol means do not insert fingers/digits under any edge of the belt cover while the engine/motor on the machine is running because personal injury and loss of fingers/digits may result. (Black pictogram with red "No" symbol outline)



This GHS pictogram identifies that the chemicals contained present serious health hazards. (Black pictogram with red diamond symbol outline)

# **WARNING: California Proposition 65**

Proposition 65 applies to any company operating in California, selling products in California, or manufacturing products that may be sold in or brought into California. The purpose of Proposition 65 is to inform the public about exposure to these chemicals. EDCO has not shifted manufacturing processes, this is strictly an updated warning procedure required by the state of California. While the exposure from EDCO products may be negligible or well within the “*no significant risk*” range, out of an abundance of caution, EDCO has elected to provide these Proposition 65 warnings.

Depending on machine/part model the following warnings may apply:



**WARNING:** Cancer and Reproductive Harm -  
For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**WARNING:** Batteries, battery posts, terminals and related accessories can expose you to chemicals including lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**WARNING:** This product can expose you to chemicals including soots, tars, and mineral oils, which are known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**WARNING:** This machine used in its application on concrete/cement/brick surfaces can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

For more information regarding exposure to California's Proposition 65 listed chemicals from an EDCO machine or part, please contact [techsupport@edcoinc.com](mailto:techsupport@edcoinc.com).



## DUST AND CRYSTALLINE 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.

See more on the importance of dust prevention and silica warnings at [osha.gov/silica](https://www.osha.gov/silica).

See more concrete and silica dust suppression training and educational materials at [edcoinc.com/silica-standards](https://edcoinc.com/silica-standards) or scan the QR code at right.





**Read and understand the *Operator's Instruction Manual*  
and the *Engine Manufacturer's Owner's Manual*  
before operating this equipment.  
Death or serious injury can result if this machine is used improperly.**



## Safety Guidelines



**Remove all rings, watches and jewelry prior to doing any work inside the console area. Metallic jewelry could short out the positive lead on the battery or the hydraulic power unit and cause severe bodily injury.**



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 85dB. Use only ANSI approved safety glasses to help prevent eye injury. Normal, prescription 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 unattended.
- 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-30 is both designed to cut flat, horizontal concrete or asphalt slabs using diamond saw blades.
- The SS-30 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 any questionable blade since serious personal injury and/or damage to property can result.
- 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 decals immediately.

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

## Operating Controls for SS-30G (Gasoline Powered)

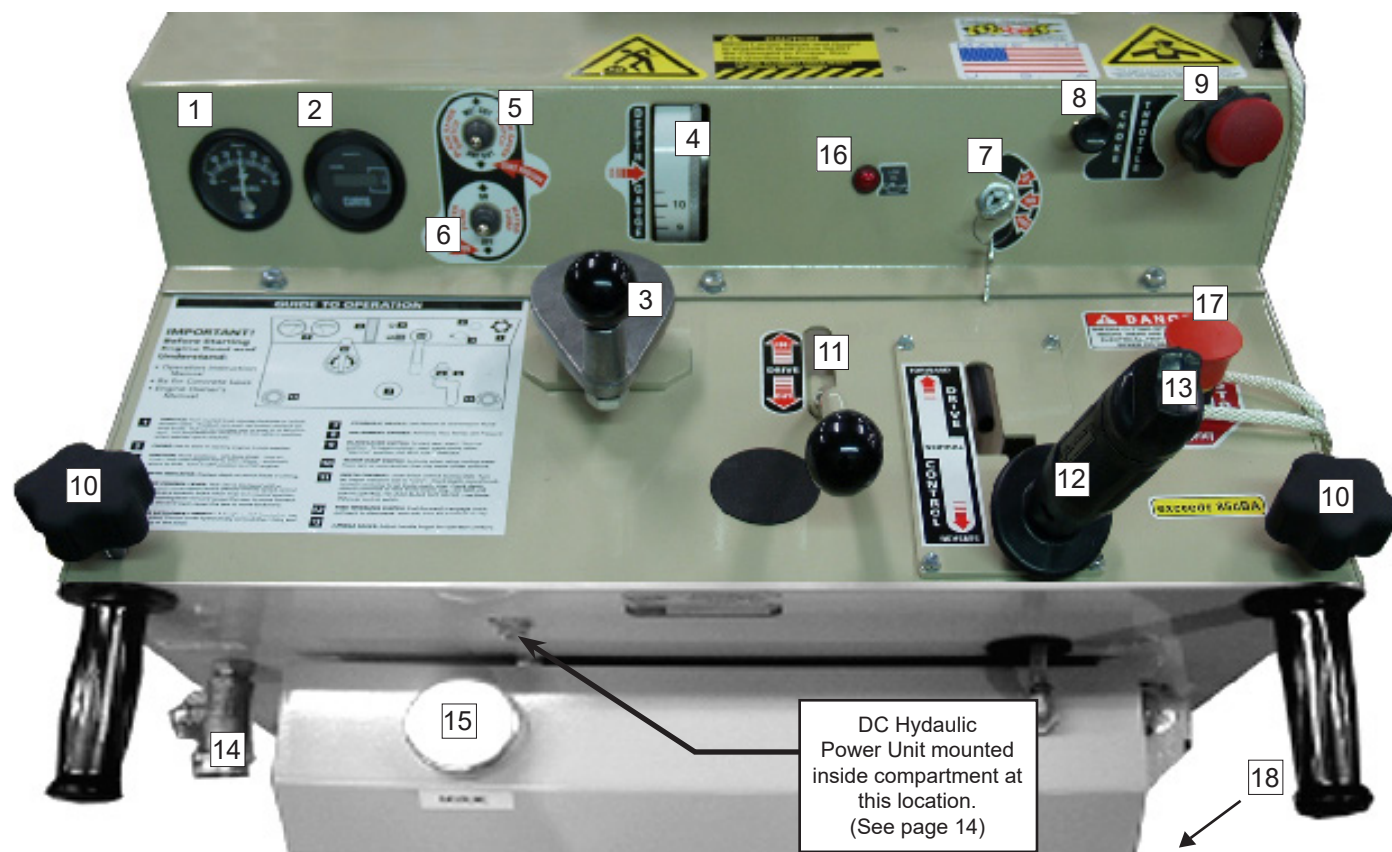


Figure 2

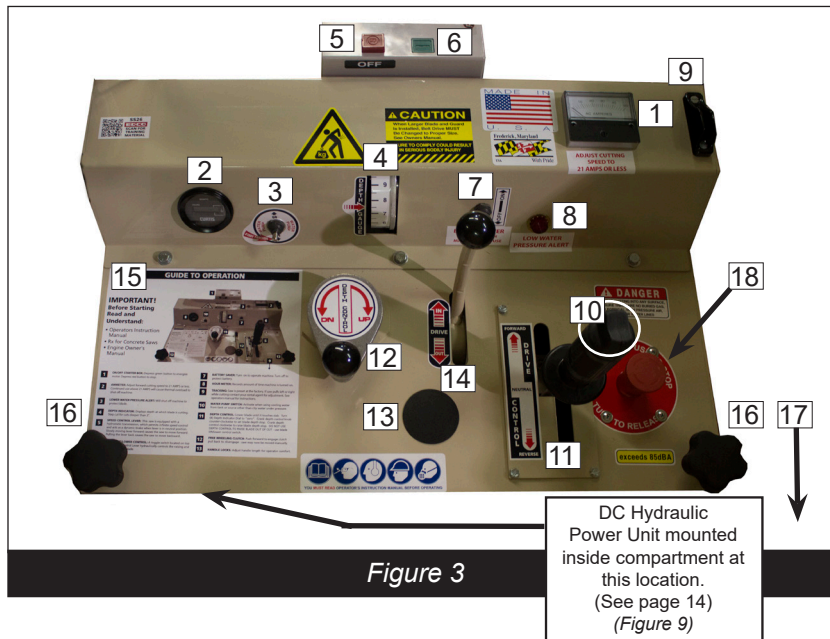
### SS-30G Operator's Console

1. Ammeter
2. Hour Meter
3. Cut Control
4. Depth Gauge
5. Blade Saver Switch
6. Water Pump Switch
7. Ignition Switch
8. Choke
9. Throttle
10. Handle Locks
11. Clutch
12. Drive Control Lever
13. Blade Lift/Lower Rocker Switch
14. Water Hook Up
15. Gasoline Fill Cap
16. Low Oil Indicator
17. Emergency Stop
18. Tracking

**NOTE:** Due to design changes and advances in technology your machine may not look exactly like machines illustrated in this manual. All controls function in the same manner.

## Operating Controls for SS-30E (Electric Powered)

### SS-30E Operator's Console



1. AMP Meter
2. Hour Meter
3. Water Pump Switch
4. Depth Indicator
5. OFF Button (RED)
6. On Button (GREEN)
7. Battery Saver Switch
8. Low Water Pressure Alert
9. Guide Bar Rope
10. Blade Lift / Lower Rocker Switch
11. Drive Control Lever
12. Depth Control
13. Hydraulic Oil Fill
14. Free Wheeling Clutch
15. Guide To Operation
16. Handle Locks
17. Tracking
18. E-STOP Button (RED)

With the exception of the ON and OFF/E-STOP buttons the electric version of this saw and its controls operate the same as the Gasoline model described in this manual.

Above are descriptions of all controls and indicators shown in *Figure 3*. Service and maintenance are the same as Gasoline model.

**CAUTION:** Before attempting to start the saw be sure blade is not contacting the work surface or in a cut. If saw ever stops with blade in cut raise blade out of cut by putting item #11 in the neutral position first, then use item #10 to raise the blade.

**NOTE:** When machine is not in use turn item #7 "Battery Saver Switch" OFF. If switch is left turned ON the battery will be drained over a period of time. Turn item #3 "Water Pump Switch" OFF when dry cutting or machine is not in use.

Turn item #3 "Water Pump Switch" to ON if water pressure is not sufficient to keep item #8 "Low Water Pressure Alert" indicator extinguished (this also means the blade is not getting proper lubrication and blade wear increases). Turning the water pump on also increases water flow to the blade and will extinguish the indicator.

Maintain the setting of 21 AMPS, on the AMP Meter item #1 when the saw is moving forward and cutting at a constant speed.

To adjust the setting of 21 AMPS use item #11 "Drive Control Lever" by moving it toward the front or rear of the machine while observing the item #1 "AMP Meter". While cutting keep item #1 "AMP Meter" reading at or slightly below 21 AMPS. No harm will be done to intermittently run slightly over 21 AMPS while making adjustments to the saw. Do not continuously run over 21 AMPS damage to the motor, blade and protection circuit will result.

While cutting and there is adequate water pressure item #8 "Low Water Pressure Alert" indicator will be extinguished. When water pressure is lost or too low item #8 "Low Water Pressure Alert" indicator will illuminate alerting the Operator. Cutting should be stopped to prevent damage to the blade. Investigate and fix problem before continuing to cut.

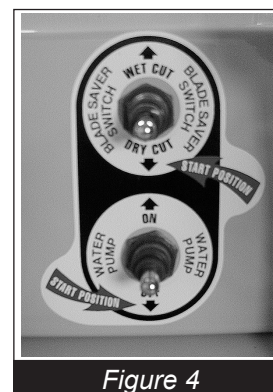


**Do not operate gasoline or diesel powered equipment without adequate ventilation.**

**Carbon monoxide is an invisible, odorless gas that can kill.**

### **Before Starting the Engine/Motor:**

- Inspect machine before each use according to the *Maintenance Schedule* on page 19.
- Locate and be familiar with all engine and saw controls (*Figures 2 & 3*).
- Inspect the blades carefully before installing and then again several times during the day. Use the correct blade for the job. Check rated RPM, diameter and size configuration. Make sure blade is correctly mounted. (See page 18)
- For wet cutting, attach supply hose to Water Hook Up Valve.  
**NOTE:** Do not flip Blade Saver switch (*Figure 4*) to WET CUT until water pressure has been applied and the engine has been started. This does not apply to SS-30E.
- Adjust the handles for operator comfort and safe operation. Be sure to retighten knobs once handles are positioned.
- Scribe a line to help guide the saw, then position the saw over the scribed line.



**Figure 4**

### **Starting the Saw Gasoline:**

- Verify the Drive Control lever is in the Neutral (center) position. (*Figures 2 & 3*)
- Verify that the blade is raised high enough to clear the ground.
- Disengage the Clutch. (*Figure 5*)
- Open the Throttle approximately 1/4, then follow the engine manufacturers *Operating Instructions* for starting the engine. Allow the engine to warm up for about one minute before beginning any cutting. Use the Throttle to adjust the engine speed. Turn the handle counterclockwise to unlock, pull out to increase engine RPM, and turn handle clockwise until tight to lock the throttle. Cutting should be done at **FULL THROTTLE**. The engine governor is factory set - **Do Not Change**.
- Use the choke to aid in cold weather starting. Pull the choke to activate. Once the engine has started and is running smoothly, push the choke in to return to the operating position.



**Figure 5**

## **Starting the Saw Electric:**

- Verify the Drive Control lever is in the Neutral (center) position. (*Figures 2 & 3*)
- Verify that the blade is raised high enough to clear the ground.
- Disengage the Clutch. (*Figure 5*)
- Insure an electric power cord is plugged into a properly grounded outlet capable of supplying voltage and current needed to run the motor. This information can be obtained by reading the information plate on the motor.
- Connect the other end of the power cord to the machine. If the plug on the machine does not match the socket on the end of power cord, contact a qualified electrician to make the necessary changes.
- **Once proper power is connected to the machine press the start button to *START* the machine and press the *STOP* button to stop the machine. The stop button is also used as an EMERGENCY STOP button.**

## **For Blades Marked WET CUTTING:**

Once engine is at operating temperature, open the water valve and flip the Blade Saver Switch to the Wet Cut position. The engine should continue to run. If the engine stops, the water flow may not be adequate. Return the switch to the DRY CUT position and restart the engine. Your SS-30 is equipped with a water pump, activate the water pump and there should be a noticeable change in water flow. Flip the switch back to WET CUT and the engine should continue to run. Do not operate WET CUT blades without an adequate supply of water.



## **For Blades Marked DRY CUTTING:**

Leave switch in the DRY CUT 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.

Typical Max. Cutting Depths	
Blade Diameter	Max. Depth
30"	12"
24"	9 1/2"
20"	7 1/2"
18"	6 1/2"
16"	5 1/2"
14"	4 1/2"
Depths are approximate. Exact depth will be based on <i>measured</i> blade diameter and blade flanges.	

## **Cutting:**

- Open the Throttle to FULL.
- Engage the clutch in order to use the self propelled drive. Be sure the drive control lever is in the Neutral before shifting the clutch. (Freewheeling mode)
- Lower the blade by depressing the blade lift/lower switch (*Figure 8*) until it just touches the slab surface. When blade touches, set the depth indicator to zero.
- Continue lowering the blade until desired cutting depth is reached then rotate the depth control lock to the UP direction until resistance is felt. This will keep the depth of the cut consistent unless it is readjusted manually.
- Begin moving the machine into the cut by slowly pushing the grip drive selector lever forward until the saw reaches the desired forward speed for the blade and cutting conditions. Forward speed is directly proportional to the amount that the drive selector lever is pushed forward. Refer to figures 2,3,4 and 5 for location of controls. Refer to page 7 for SS-30E for cutting speed adjustment.
- Deep cutting should be achieved in 2"-3" steps



- Do not allow the engine to labor or stall.
- Do not force the blade while cutting.
- Incorrect blade cutting speeds and feeds can damage the blade resulting in flying broken blade fragments that can cause serious injury or death.

## To Stop Cutting:

- Stop forward motion of the saw by returning the speed control lever to neutral position.
- Raise the blade completely out of the cut by depressing the blade lift/lower switch. (Figure 6) DO NOT attempt to raise the blade with the depth control lock.
- Throttle the engine down to idle, on gas, propane and diesel models.
- Flip the Blade Saver Switch back to DRY CUT.
- If wet cutting, turn off the water pump and close the valve.
- Turn the ignition switch to the OFF position on gas, propane and diesel models.
- Turn power switch off on electric models.

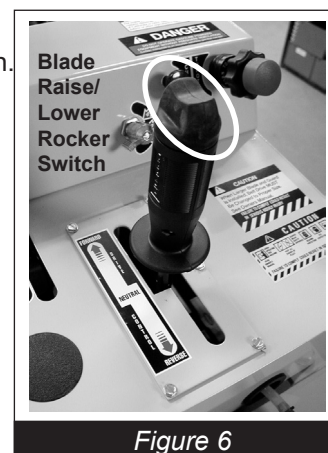


Figure 6

## If the Power Stops While the Blade is in the Cut:

- Raise the blade completely out of the cut.



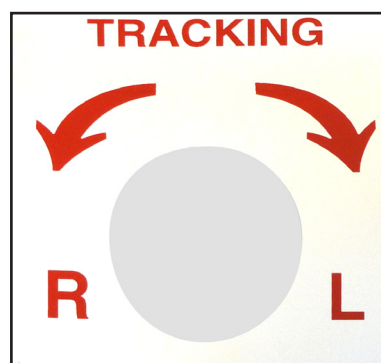
Disconnect the spark plug, battery leads or electrical power depending on the source of power to prevent the machine from starting by accident.

- Inspect the blade arbor bolt to verify is still tight, and inspect the blade for damage. Replace damaged or questionable blades immediately.

**Note:** The SS-30G is equipped with an engine ammeter to show the rate of charge for the battery while the engine is running. The engine alternator is designed for an output of 30 amperes. This is adequate to keep the battery fully charged. If the ammeter indicates a minus (-) condition when the engine is running, or the charge indicator lights, immediately raise the blade out of the cut, stop the engine, investigate and solve the problem. This condition must be corrected before continuing or damage to the equipment will result. This feature is not available on the SS-30E.

## Tracking Adjustment:

- Note the tracking adjustment decals below, for the SS-30. It is located at the bottom rear of the saw on the right side.
- Loosen 2 bolts over right rear axle bearing.
- If necessary loosen/tighten chain by loosening four hex nuts located on inside of bracket indicated by arrow in photo below. Raise/lower pump and tighten four hex nuts as needed during tracking adjustment.
- Strike 25' line on concrete.
- Set blade over line and start forward with blade out of cut above the start of the line.
- Saw should drift 2"-3" to left of the line in 25'.
- Start cutting.
- If saw still feels like it is binding remove from cut and adjust drift to compensate.
- Note chain tension before tracking. If chain is already tight loosen slightly before starting adjustments.
- After tracking is complete, retighten chain. If needed contact your rental agent for assistance.





The following maintenance instructions are brief explanations of some of the items suggested in the Maintenance Schedule chart on page 19. These instructions are not replacements for the *Engine Manufacturer's Maintenance Instructions*.



## Maintenance

### WARNING

Disconnect the machine from the power source by disconnecting the spark plug or battery leads before performing any maintenance.

### WARNING

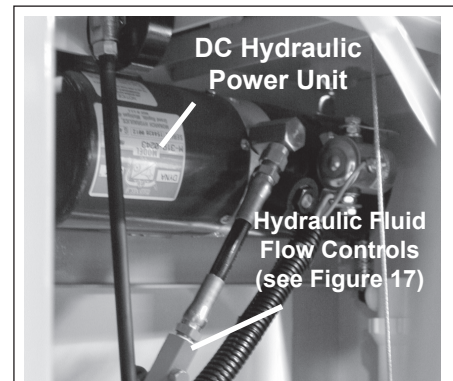
Remove all rings, watches and jewelry prior to working anywhere around the DC Hydraulic power unit. (Figure 7 & Review Figure 2 & 3)

### WARNING

Use extreme caution not to damage the hydraulic unit. Fluid under pressure can pierce the skin and enter the blood stream causing death or serious injury.

### WARNING

NOTE: Failure to keep arbor shaft drive belts properly tensioned can cause engine crank shaft bearing failure and void engine warranty. Use a belt tensioning gauge to properly tension arbor shaft drive belts .



This view shows DC Power Unit where it is mounted inside machine above the access door.

Figure 7

### Inspect Arbor Drive Belts -

- 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 belt and bearing life. 70 ft. lbs. of deflection at the center between the pulley's, is recommended.
- On new machines and after installation of new belts, adjust belt tension after the first four hours or sooner, then tension as necessary.
- Loosen engine mount mounting bolts and jam nuts, then turn jacking bolts to lift or lower engine mount. Lift engine to tighten belts lower engine to loosen/replace belts. (Figure 8)

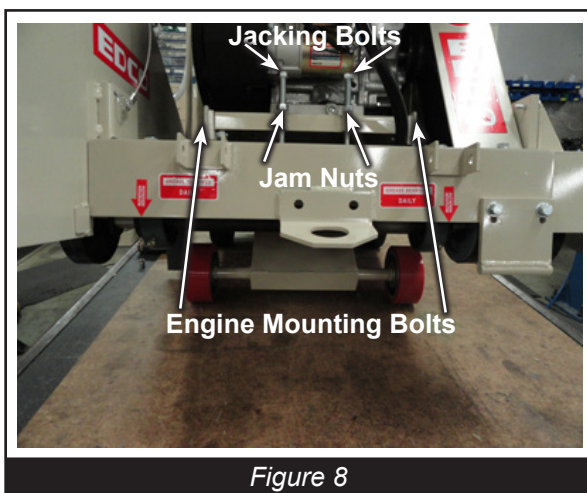


Figure 8

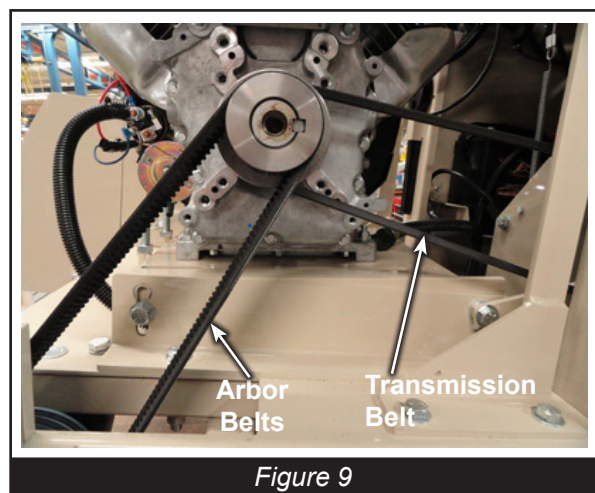


Figure 9

## Inspect Arbor Drive Belts - Model SS-30E

- Proper belt tension must be maintained to transmit the motor 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 bearing life. 70 ft. lbs. of deflection at the center between the pulleys, is recommended.
- On new machines and after installation of new belts, adjust belt tension after the first four hours, then tension as necessary.
- Loosen motor mount bolts and jam nut on jacking bolt then turn jacking bolt to lift or lower motor mount. Lift motor mount to tighten belts and lower motor mount to loosen/replace belts. (Figure 10) Tighten hardware when finished.

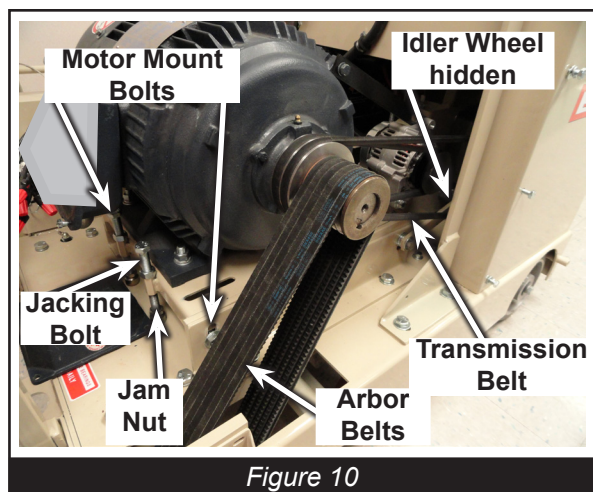


Figure 10

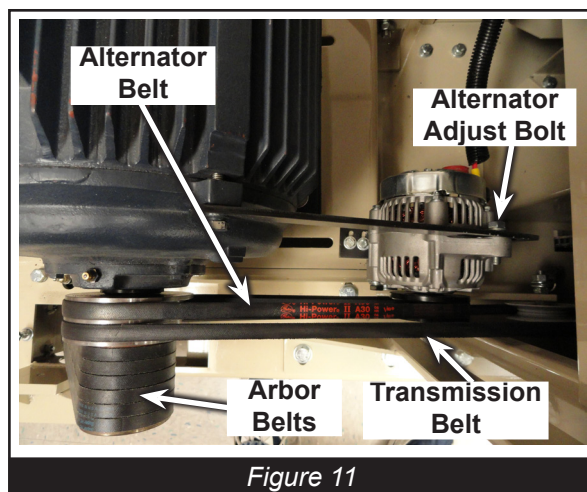


Figure 11

## Replace/tighten Alternator or Transmission Belts - Model SS-30E

- Follow steps under “Inspect Arbor Drive Belts - Model SS-30E” above to remove the arbor belts which is necessary to replace the Alternator or Transmission belts. Just remove belts from the motor sheave temporarily, they will be put back in place after Alternator or Transmission belts have been replaced. This step is not necessary to adjust the alternator belt.
- This step has to be performed before the alternator belt can be replaced. Once the previous step is completed to replace the transmission belt lift up on the idler wheel (Figure 10) for location and remove the belt from either the motor or transmission sheave and then the other end. Reverse this procedure to replace the transmission belt. No adjustment is necessary, the idler wheel provides proper tension for the transmission belt.
- To replace the alternator belt the previous steps have to be performed first. Once previous steps are completed loosen the alternator adjust bolt (Figure 11) and move the alternator towards the electric motor. It might be necessary to loosen the bolt at the base of the alternator so it moves freely. Remove the belt from the alternator and motor sheaves. Replace the belt and tighten by reversing this procedure.
- Reverse all previous procedures to connect and tension all belts that have been replaced. It would be advisable to replace both the alternator and transmission belts at the same time because of having to remove all six of the arbor belts to complete the process, or, check the alternator and transmission belts when replacing the arbor belts. If they look worn replace them at that time.

## To replace belts or change Blade Size on Model SS-30G

- The model SS-30G is a heavy duty saw designed to use large diameter blades for deep cutting. Blade size 14 inch to maximum diameter of 30 inches (762mm).
- To use smaller diameter blades, the sheaves and belt sizes must be changed. Refer to chart for belt sizes and sheave diameters. In addition, both the backing plate and retaining cap may have to be changed to correspond with the blade size.
- Remove belt guard and arbor guard. Loosen engine mounting bolts and jam nuts, turn jacking bolts to lower engine (Figure 8) to a point where the belts can be removed.
- Remove transmission belt from the engine sheave, (SS-30G, Figure 9).
- Remove the blade backing plate. (Blade size change only)
- Use proper tools to remove sheaves from the arbor shaft and the engine stub shaft. (Blade size change only)
- Using the chart below place the proper sheave on the arbor shaft and the engine stub shaft in the order they were removed. Using a straight edge align sheaves, tighten any bolts or set screws that were removed or loosened. (Blade size change only)
- Reverse this procedure to install the belts and follow instructions on adjusting the belt tension. 70 ft. lbs. of deflection at the center between the sheaves, is recommended.
- Once all hardware is in place and the belts are tensioned install the belt guard securing with supplied hardware. Remember to retention new belts after four hours of use, then as necessary.
- Remember: Belts should swell as they wrap around the pulley. If they squeeze down or are slick with shredded edges replace immediately. Proper power transfer cannot be achieved under these conditions.

MODEL	BLADE SIZE	ENGINE SPEED (RPM)	BLADE SPEED (RPM)	ENGINE SHEAVE DIA.	ARBOR SHEAVE DIA.	ARBOR BELT SIZE	TRANS. BELT SIZE
SS-30G	30"	3600	1900	2.80"x6 GR.	5.30"x6 GR.	3VX450	A55
	24-26"	3600	2100	2.80"x6 GR.	4.80"x6 GR.	3VX450	A55
	18-20"	3600	2100	2.80"x6 GR.	4.80"x6 GR.	3VX450	A55
	14-16"	3600	2750	2.80"x6 GR.	3.65"x6 GR.	3VX425	A55

## CHARCOAL CANISTER

The SS-30G is equipped with a charcoal canister to create a sealed fuel system and reroute any vapors from the tank back to the airbox on the engine for burning. This unit also has a tethered fuel cap with viton gasket and evaporation resistant fuel lines. Life expectancy is estimated at 10+ years.

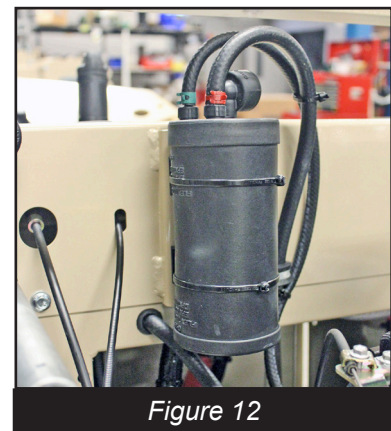


Figure 12



## Important!



Arbor Shaft Bearings ***MUST*** be lubricated  
**EVERY FOUR HOURS!**

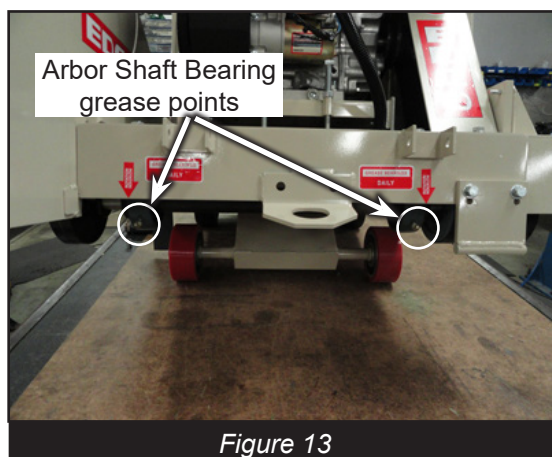


Figure 13

### Grease Bearings - (12 Total)

Arbor Shaft Bearings (2) ***must*** be greased every 4 hours.  
(Figure 13)

All other Bearings (8/10) must be greased every 40 hours.

Those include:

Front Wheel Bearings (2), Fork Assembly Bearings (2)  
Rear Drive Wheel Bearings (2), Clutch Sprocket Bearings (2)

### Hydraulic Fluid Flow Controls: (Figure 14)

A - Blade Lowering Control Valve - RED

To readjust:

Loosen lock nut 1/4 to 1/2 turn

Turn knob

counter clockwise = faster movement

clockwise = slower movement

Retighten lock nut **DO NOT OVER TIGHTEN**

B - Blade Raising Control Valve - BLACK

Adjust same as above if necessary.

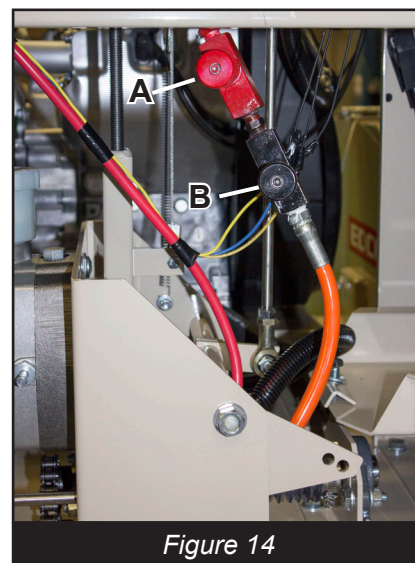


Figure 14

### Transporting the Saw:



Extreme care must be taken when loading or unloading this machine.

- When hoisting this machine, use the built-in hoisting bar. Use proper hoisting equipment and techniques.
- Remove the blade before transporting or hoisting.
- Do not transport the saw with the engine running.
- Be certain the area surrounding the machine is clear of personnel before hoisting.

## Installing Blades:

### WARNING

Inspect all blades carefully before installing especially if previously used. Check for cracks, loose segments and oversize, worn, or out-of-round arbor holes. Do not use **any** questionable blade since serious personal injury and/or damage to property can result. Do not use warped, twisted, or out-of-balance blades. Unbalanced blades will wear excessively, vibrate and damage both arbor shaft and bearings.

### WARNING

For safety reasons, EDCO **does not** 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 supplier 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.

### WARNING



**Do not remove or lift the bladeguard until blade has stopped moving completely and the engine/motor is turned off.**

## Changing Blades:



Figure 15

- Remove blade guard, blade retaining bolt and internal tooth lock washer. (Figure 15)
- Carefully remove blade with blade retaining cap in place. Once blade and blade retaining cap are removed from machine remove blade retaining cap from blade.
- Clean the arbor shaft, backing plate, and blade retaining cap and inspect for damage or wear. Make sure the blade retaining bolt threads are clean and undamaged, see (Figure 18). If any damage is detected, consult your EDCO dealer or EDCO factory.

Drive Pin Hole

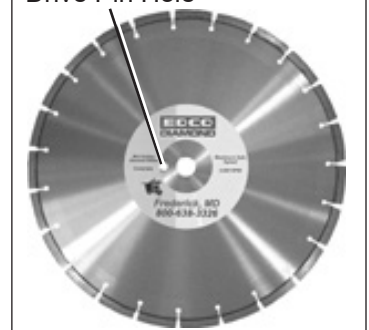


Figure 17

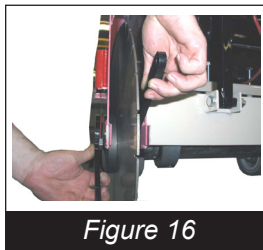


Figure 16

- Carefully place blade retaining cap on blade with drive pin aligned in drive pin hole on blade, turn blade until the drive pin lines up with the drive pin hole in the backing plate. (Figure 18) Do not use a blade without a drive pinhole.
- Fit the blade retaining bolt and internal tooth lock washer, retighten the bolt using the two 1 1/2" - 5/8" combination wrenches which were supplied with the machine. (Figure 16)
- Secure the blade guard to the machine before starting engine/motor.

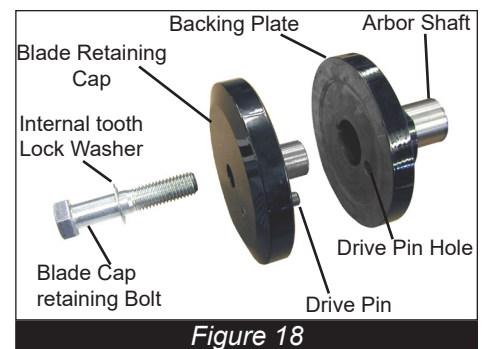


Figure 18

# Maintenance Schedule Chart

## Follow Engine Manufacturer's Maintenance Schedule

	Before Each Operation	Every 4 Hours	Daily	Every 40 - 50 Hours of Operation	Weekly	As Required
*Visual Inspection of Entire Machine	X					
*Inspect Blade	X					
*Inspect Arbor Shaft	X					
Check Engine Oil	X					
*Grease <u>Arbor Shaft</u> Bearings		X				
Clean Air Filter Element			X			
*Grease Remaining Bearings				X		
Change Engine Oil & Filter (Sooner if necessary)				X		
#Check Transmission & Hydraulic Fluid Levels (Fill if necessary)				X		
*Clean Water Strainer					X	
*Inspect Drive Chains (Lubricate Weekly)					X	X
Replace Fuel Filter						X
*Inspect Belts (Tension after the first 4 hours of operation, then as needed) Tension to 70 ft. lbs. of deflection						X
Tracking						X

All of the above apply to SS-30G Gasoline models.

\*# These Apply to SS-30E Electric models.

# Hydrostatic Transmission Reservoir - Fill with GM Dexron B or other comparable fluid

Hydraulic Pump Reservoir - Fill with Dexron III

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## LIMITED EQUIPMENT WARRANTY OF SALE

Equipment Development Company, Inc. herein referred to as EDCO (Seller) warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (1) one year (except for the cutter drum assembly on all model concrete/asphalt planers AND the chisel head assembly on all model ALR's & ALR-BS in which case the warranty period shall be 90 days) from date of shipment to the original retail or equipment rental center owner.

Accessories or equipment furnished and installed on the product by EDCO but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO, any part which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to the warranty of merchantability and the warranty of fitness for a particular purpose in no event shall seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product.

### TERMS AND CONDITIONS

(NOT APPLICABLE TO SALES THROUGH AUTHORIZED DISTRIBUTION)

#### FORCE MAJEURE

Seller's obligation hereunder are subject to, and Seller shall not be held responsible for, any delay or failure to make delivery of all or any part of the Product due to labor difficulties, fires, casualties, accidents, acts of the elements, acts of God, transportation difficulties, delays by a common carrier, inability to obtain Product, materials or components or qualified labor sufficient to timely perform part of or all of the obligations contained in these terms and conditions, governmental regulations or actions, strikes, damage to or destruction in whole or part of manufacturing plant, riots, terrorist attacks or incidents, civil commotions, warlike conditions, flood, tidal waves, typhoon, hurricane, earthquake, lightning, explosion or any other causes, contingencies or circumstances within or without the United States not subject to the Seller's control which prevent or hinder the manufacture or delivery of the Products or make the fulfillment of these terms and conditions impracticable. In the event of the occurrence of any of the foregoing, at the option of Seller, Seller shall be excused from the performance under these Terms and Conditions, or the performance of the Seller shall be correspondingly extended.

This document sets forth the terms and conditions pursuant to which the purchaser ("Purchaser") will purchase and Equipment Development Co. Inc. ("Seller") will sell the products, accessories, attachments (collectively the Products) ordered by the Purchaser. These terms and conditions shall govern and apply to the sale of Seller's Products to Purchaser, regardless of any terms and conditions appearing on any purchase order or other forms submitted by Purchaser to Seller, or the inconsistency of any terms therein and herein.

#### 1. PRICE

All prices set forth on any purchase order or other document are F.O.B. Seller's facility or distribution point, as may be determined by Seller (F.O.B. Point). All prices are exclusive of any and all taxes, including, but not limited to, excise, sales, use, property or transportation taxes related to the sale or use of the Products, now or hereafter imposed, together with all penalties and expenses. Purchaser shall be responsible for collecting and/or paying any and all such taxes, whether or not they are stated in any invoice for the Products. Unless otherwise specified herein, all prices are exclusive of inland transportation, freight, insurance and other costs and expenses relating to the shipment of the Products from the F.O.B. point to Purchaser's facility. Any prepayment by Seller of freight insurance and other costs shall be for the account of Purchaser and shall be repaid to Seller.

#### 2. PAYMENT TERMS

Payment terms are as follows. 2% 10 days (to approved and qualified accounts). Net 30 days. This is a cash discount for invoices paid within 10 days after the invoice date, regardless of date of receipt of shipment. This is not a trade discount and will not be granted to accounts that do not adhere to stated terms.

\*All past due accounts are subject to a late payment fee of 1.5% per month or a maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees and costs.

\*Seller reserves the right to hold shipments against past due accounts.

\*Seller reserves the right to alter payment terms.

#### 3. FREIGHT TERMS

All shipments will be made F.O.B. shipping point as designated in these Terms and Conditions, and title shall pass at the F.O.B. point. Delivery to the initial common carrier shall constitute delivery to the Purchaser. Any claims for loss or damage during shipment are to be filed with carrier by the Purchaser. Seller will not assume responsibility for the performance of the carrier.

Back orders will be shipped in the most practical fashion with charges consistent with our freight policy established with the original order. UPS, FED EX, MAIL or shipments by other couriers are subject to the same terms and conditions as outlined in paragraph #3 "Freight Terms".

#### 4. DELIVERY, DAMAGES, SHORTAGES

Seller shall use reasonable efforts to attempt to cause the Products to be delivered as provided for in these Terms & Conditions. Delivery to the initial common carrier shall constitute the delivery to the Purchaser. Seller's responsibility, in so far as transportation risks are concerned ceases upon the delivery of the Products in good condition to such carrier at the F.O.B. point and all the Products shall be shipped at the Purchaser's risk. Seller shall not be responsible or liable for any loss of income and/or profits, or incidental, special, consequential damages resulting from Seller's delayed performance in shipment and delivery.

#### 5. RETURN OF DEFECTIVE PRODUCTS

Defective or failed material shall be held at the Purchaser's premises until authorization has been granted by Seller to return or dispose of Products. Products that are to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon Seller's inspection based on prices at time of purchase.

#### 6. PRODUCTS ORDERED IN ERROR

Products may be returned, provided that claim is made and Seller is notified within 7 days of receipt of Products, and the Products are in original buyer's possession not more than 30 days prior to return, subject to Seller's approval. If Products are accepted for return, they must be Freight Prepaid and buyer will be charged a minimum of 15% restocking charge, plus a charge back for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any Products that are specifically manufactured to meet the buyer's requirement of either specifications or quantity.

#### AGREEMENTS

These Terms and Conditions constitute the entire agreement between Seller and Purchaser as it relates to terms and conditions of sale, and supersedes any and all prior oral or written agreements, correspondence, quotations or understandings heretofore in force between the parties relating to the subject matter hereof. There are no agreements between Seller and Purchaser with respect to the Product herein except those specifically set forth in and made part of these terms and conditions. Any additional terms, conditions and/or prices are rejected by Seller.

These terms and conditions may be modified, cancelled or rescinded only by a written agreement of both parties executed by their duly authorized agents.

### USE ONLY GENUINE EDCO PARTS & ACCESSORIES

**For your own safety, the safety of others and the life of your machine.**

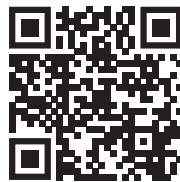
#### SUBMIT ALL WARRANTY CLAIMS AT:

[edcoinc.com/warranty-request-claim/](http://edcoinc.com/warranty-request-claim/)



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