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# ETO EQUIPMENT DESCRIPTION & KNOWING YOUR GENERATOR

Please read this manual and follow the procedures covered in this manual. Become familiar with the generators functions, applications, and limitations.

Below is a diagram of the locations of the various controls and functions of the generator

## ILLUSTRATION OF CONTROLS



1	ENGINE SWITCH	11	AC CIRCUIT BREAKER 13.5A
2	OIL INDICATOR LIGHT ASSY	12	120V GFCI RECEPTACLE 5-20R
3	GENERATOR FOOT	13	FRAME COMP
4	OIL DRAIN PLUG	14	FUEL GAUGE
5	OIL FILLER CAP	15	FUEL TANK CAP
6	ALTERNATOR	16	TANK COMP,FUEL
7	RUBBER WHEEL 7'	17	AIR CLEANER
8	240/120V LOCKING RECEPTACLE L14-30R	18	HANDLE
9	120V LOCKING RECEPTACLE L5-30R	19	COCK ASSY.FUEL
10	GROUND TERMINAL	20	RECOIL STARTER

### ENGINE SAFETY PRECAUTIONS

Do not touch hot surfaces. Allow equipment to fully cool down before touching.

After the generator has been run, the engine produces heat. The temperature of the muffler and nearby areas can reach or exceed 1600 F. Severe burns will occur on contact with skin. Do not modify the generator in any way. The generator supplies the rated voltage and rated frequency at its governed speed.

### GENERATOR SAFETY

Never overload your generator as this can damage your generator or the electrical devices connected to it

Do not start generator with electrical devices connected to it. Start the generator first and after the speed of the generator stabilizes, electrical loads can be applied to it.

When connecting electrical loads, make sure the devices are "OFF" first before connecting them. Keep the same concept when disconnecting electrical devices; make sure all

devices are in the "OFF" position before disconnecting.

Operate the generator on level surfaces only. Inclined surfaces reduce the effective lubrication of the engine.

Do not expose the generator to excessive moisture, dust, dirt, or corrosive vapors.

## GASOLINE

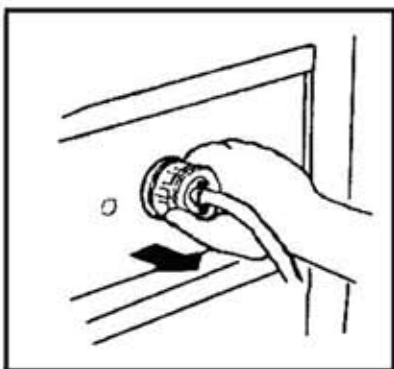
- Add unleaded gasoline and never fill the fuel tank indoors. Also, be sure to install the fuel tank cap on tight after filling.
- **DO NOT** overfill the fuel tank. Always allow room for fuel expansion. **Never** fill the fuel tank when the engine is running or hot. Allow the unit to cool for two minutes before refueling. **DO NOT** use light a cigarette or smoke when filling the fuel tank.

## OPERATING THE GENERATOR

### STARTING THE ENGINE

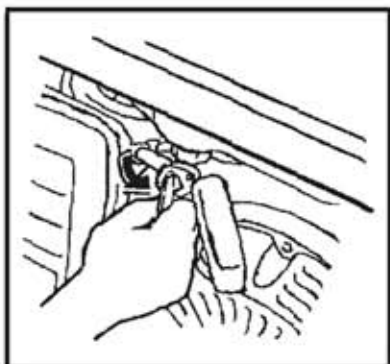
Before starting the engine, verify that the engine oil is full, gasoline is full, and air Filter is in place. Also, disconnect any load from the AC receptacle (Figure 1) .

*Figure 1. Disconnecting electrical devices*



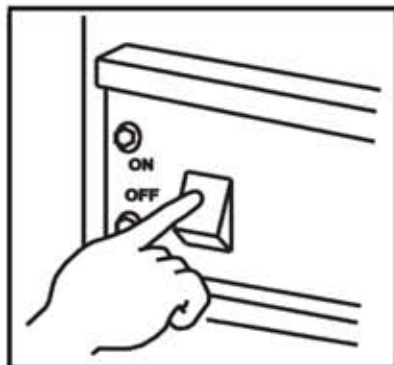
- Turn the fuel valve to the "On" position (Figure 2).

*Figure 2. Fuel Valve*



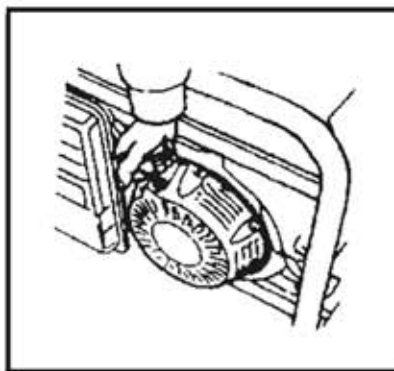
- Turn the engine switch to the "ON" position (Figure 3).

*Figure 3. Engine switch on position*



- Pull the recoil starter grip lightly until resistance is felt, then pull hard.
- **Warning:** Do not allow the starter grip to snap back against the engine. Return it gently.
- When start the generator, please push the choke rod to the "close" position. If can not start with the correct step, please adjust the position of the choke rod.

*Figure 4. Recoil starting rope*



- Push the choke rod to the "OPEN" position a short distance at a time over several seconds as the engine warms up.

## STOPPING THE ENGINE

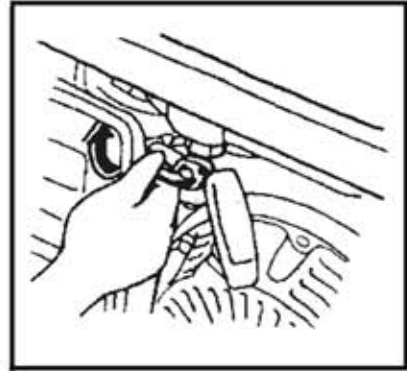
- Unplug all the electrical loads from the generator panel (Figure 1).

*Figure 1.*



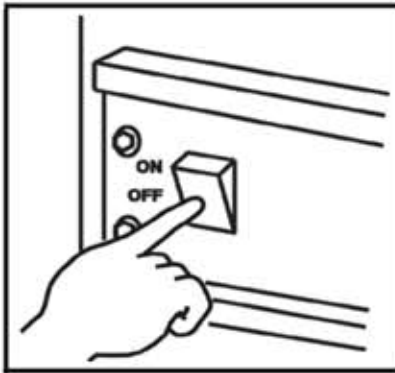
- Turn the fuel valve to the "OFF" position (Figure 3).

*Figure 3.*



- Let the engine run at no-load for several minutes to stabilize the internal temperatures of engine and generator.
- Turn the engine switch to the "OFF" position (Figure 2).

*Figure 2.*



# Troubleshooting

Problem	Cause	Solution
Engine will not start	Engine switch is set to "off".	Set engine switch to "on" position.
	Fuel valve is turned to "closed".	Turn fuel valve to "open" position.
	Choke is open.	Close the choke
	Engine is out of gas.	Add gas.
	Engine is filled with contaminated or old gas	Change the gas in the engine.
	Spark plug is dirty.	Clean spark plug.
	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level surface to prevent low oil shutdown from triggering.
Oil is low	Add or replace oil.	
Engine runs but there is no electrical output	Circuit reset button is off.	Wait for 2 minutes and push the circuit reset button to the "on" position.
	Bad connecting wires/cables.	If you are using an extension cord, try a different one.
	Bad electrical device connected to generator.	Try connecting a different device.
Generator runs, but does not support all electrical devices connected to it.	Generator is overloaded	Try connecting fewer electrical loads to the generator.
	There is a short in one of the connected devices.	Try disconnecting any faulty or short-circuited electrical loads.
	Air cleaner is dirty.	Clean or replace air cleaner.