

ENERGY STORM™

Inverter Generator

Owner's Manual

Model #'s

ESI-1000i

ESI-1000i-CA

ESI-2000iE

ESI-2000iE-CA

ESI-2600iE

ESI-2600iE-CA

For product support and services please visit us at

www.lifanpowerusa.com or by calling toll free at 1-866-471-7464.

SAFETY ISSUES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards.
Obey all safety messages that follow this symbol to avoid possible injury or death.



For your safety read this manual carefully. Become familiar with the proper operation, care, and maintenance of your Energy Storm generator.

The safety and alert symbol () is used with a signal word (**CAUTION**, **DANGER**, **WARNING**), a pictorial and/or safety message to alert you to hazards. **CAUTION** indicates a hazard which, if not avoided, might result in minor or moderate injury. **DANGER** indicates a hazard which, if not avoided, will result in death or serious injury. **WARNING** indicates a hazard which, if not avoided, could result in death or serious injury.

WARNING!

Running generator emits carbon monoxide an odorless, colorless, poison gas.

Breathing carbon monoxide can cause nausea or death!

ONLY operate generator outdoors.

Exhaust gas must be prevented from entering confined areas.

Direct exhaust gas away from windows, doors, ventilation and other openings.

Do not operate generator inside or under any buildings.

Operating this generator inside the compartment of a recreational vehicle will likely result in death!

WARNING!

The engine exhaust from this generator contains chemicals known to the state of California to cause birth defects, reproductive harm, and cancer.



Do not use this generator within the generator compartment of a recreational vehicle!

This generator does not meet U.S. Coast Guard Regulation 33CFR-183 and should not be used on marine applications.

Use of this generator on marine applications could result in injury or death.

Hazard Symbols and Meanings



Explosion



Fire



Electric Shock



Toxic Fumes



Hot Surface or Gas



Kickback

WARNING!



Generator produces powerful voltage!

Only a licensed electrician can safely connect generator to existing utility hookups. Failure to isolate generator from electrical grid can result in death to utility workers as well as others.

- When using generator as backup power, notify utility company. Use approved transfer equipment to isolate generator from electric utility.
- Do Not operate generator while exposed to rain or other wet conditions.
- Do Not handle generator when in contact with water.
- Do Not contact bare wires or receptacles.
- Inspect all electrical cords for damage and discontinue from use any damaged or excessively worn cords.
- Do Not allow unqualified persons to operate or service generator.

WARNING!



Fuel and its vapors are extremely flammable and explosive.



Fire or explosion can cause severe burns or death.

WARNING!



while engine is running temperature may exceed 150°F (65°).

Severe burns may occur.



Exhaust heat/gasses can ignite combustibles, structures or damage fuel tank causing a fire.

- Do not touch hot surfaces and avoid exhaust gasses.
- Allow generator to cool before touching.
- Keep at least 6 ft. (183cm) clearance on all sides of generator including overhead.
- Reflective exhaust heat may damage fuel tank causing fire.
- Code of Federal Regulation(CFR) Title 36 Parks, Forests, and Public Property require equipment powered by an internal combustion engine to have a spark arrester, maintained in working order, complying to USDA Forest service standard 5100-1c or later revision. In the state of California a spark arrester is required under section 4442 of the California Public resources code.

WARNING!



Unintentional sparking can result in fire or electrical shock.



WHEN TESTING FOR ENGINE SPARK

- Do not check for spark with the spark plug removed.
- Use approved spark plug tester.

WHEN REPAIRING OR ADJUSTING GENERATOR

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN ADDING OR DRAINING FUEL

- Turn generator off and let it cool for at least three minutes before removing fuel cap. Loosen cap slowly in order to relieve pressure in the fuel tank.
- Fill or drain fuel tank outdoors. Do not excessively inhale fuel vapors.
- Keep away from open flames or sparks and other sources of ignition.
- Do not smoke while filling fuel tank.
- Do not overfill tank. Allow space for fuel expansion.

WHEN TRANSPORTING OR REPAIRING EQUIPMENT

- Transport generator with the fuel valve in the off position.
- Repair generator with the fuel tank empty or the fuel valve in the off position.
- Disconnect spark plug wire before transport or service.

WHEN STORING FUEL OR EQUIPMENT CONTAINING FUEL

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.

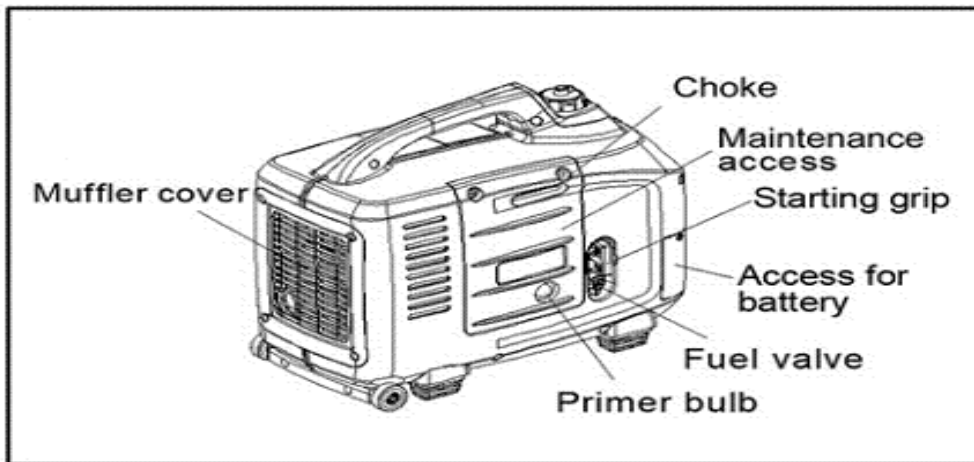
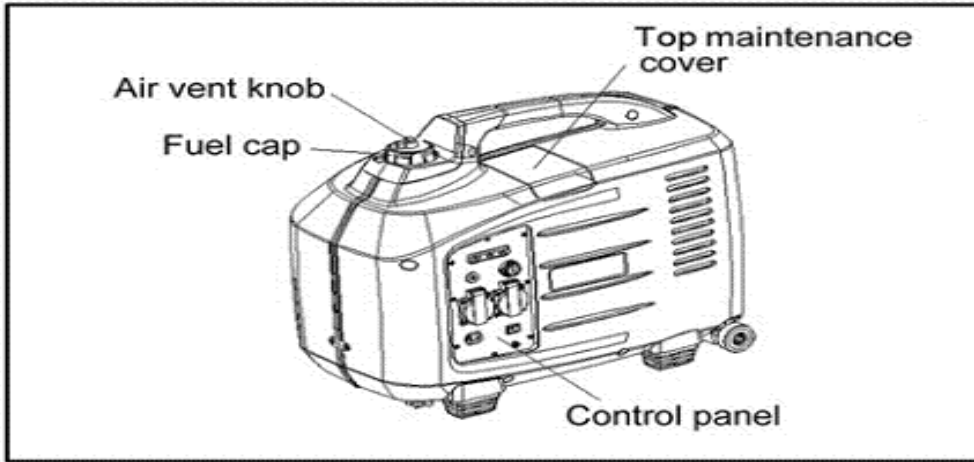
WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, air cleaner, and fuel cap are in place.
- Do not crank engine with spark plug removed.
- If fuels spills, wait until it evaporates before starting engine.

WHEN OPERATING EQUIPMENT

- Do not choke carburetor to stop engine.
- Do not tip engine or equipment at an angle which causes fuel to spill.
- This generator is not for use in marine applications.

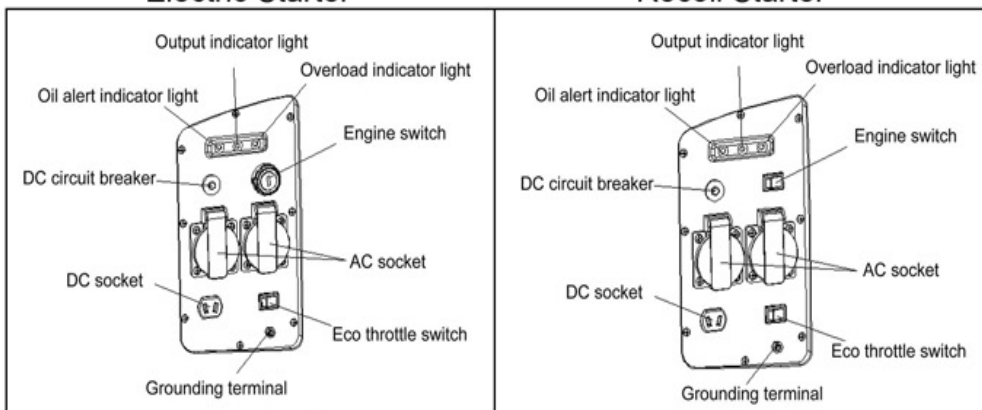
1. Component Identification



Control Panel

Electric Starter

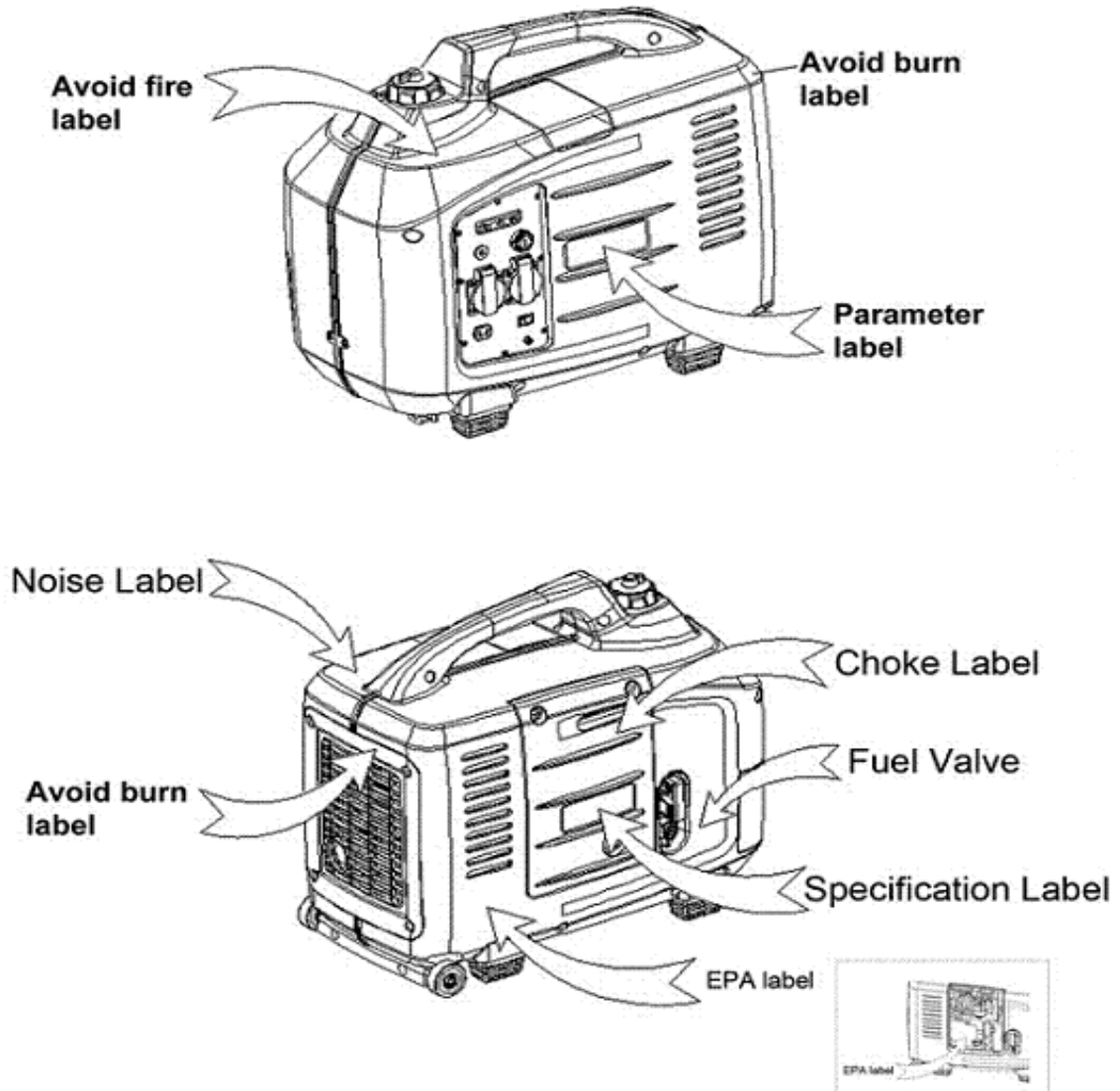
Recoil Starter



2. Safety Label Diagram

These labels warn you of potential hazards that can cause serious injury.

Read Them Carefully!



CAUTION

IDLE CONTROL SWITCH

When there is no power requirement or load on the generators, generators go to gas-saving mode; upon demand, it will turn to correct speed automatically in order to supply the correct power that device needs which minimizes fuel consumption and reduces noise levels when no load is applied to the generator.

- If high electrical loads are connected simultaneously, turn the Auto Idle switch to the OFF position to reduce voltage changes.
- Turn the AUTO IDLE feature off when the equipment you are running requires full power at startup (ex. power tools and other equipment with electric motors).
- When generators are working at constant rated power output mode, turn off the AUTO IDLE SWITCH

Pre-Operation Check

1. Engine Oil Requirements

Be careful

Operating generators with insufficient oil may damage the engine and void your warranty.

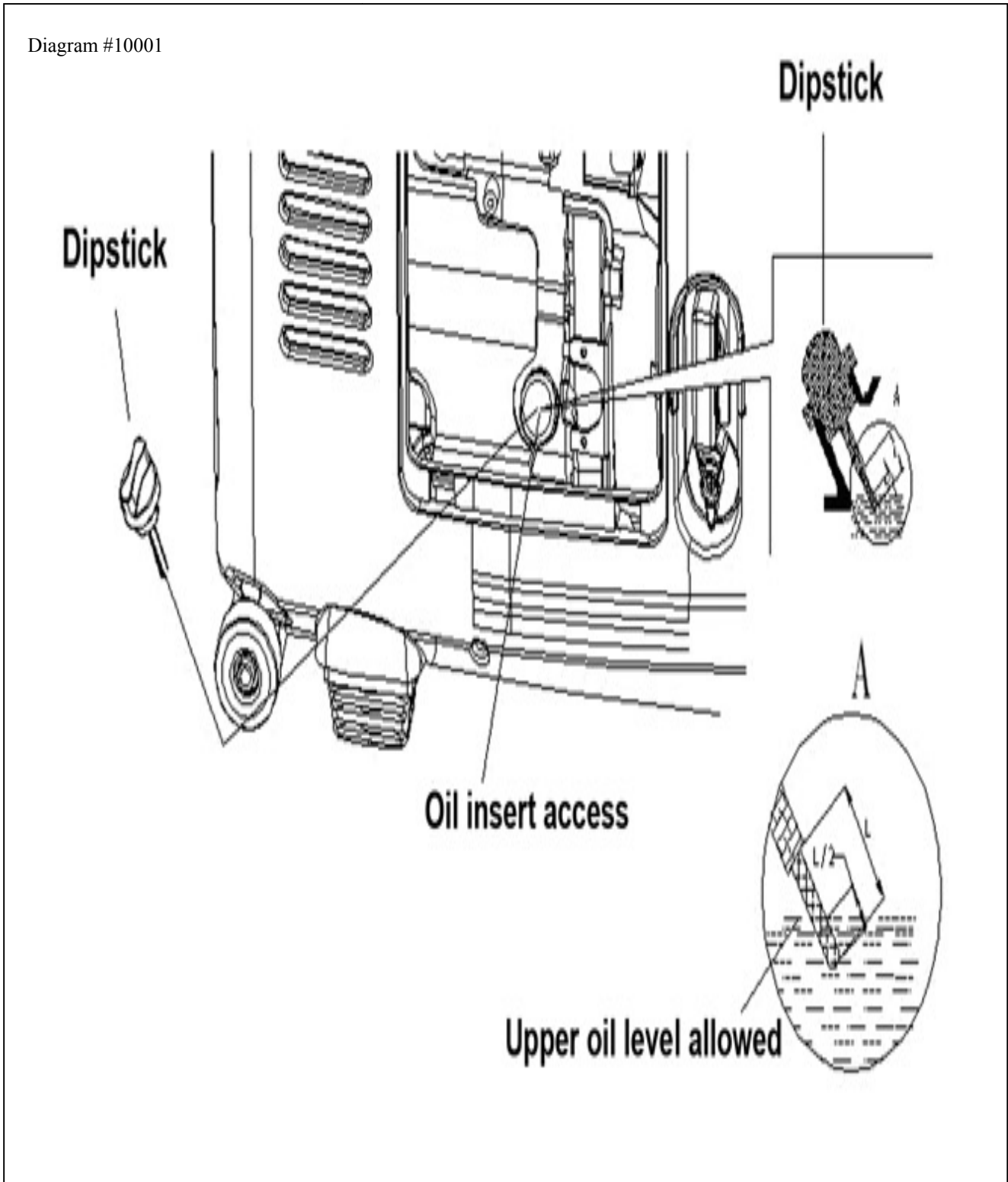
- Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oil will damage the engine and must not be used in your Energy Storm Generator.
- Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SJ. Always check the API SERVICE label on the oil container to be sure it includes the letter SJ.
- SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

Note:

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase falls below a safe limit, the oil alert indicator light comes on and the Oil Alert system will automatically stop the engine (the engine switch will remain in the ON position, turn it to the OFF position in this occurrence). If the engine stops or the Oil Alert indicator light comes on when you pull the starter grip, check the engine oil level before troubleshooting in other areas.

2. Engine Oil Filling

- Take off the right access cover (refer to diagram #56004). Unscrew the oil dipstick, wipe the dipstick with a clean cloth, then insert the dipstick into the oil tank, and check the level of the oil. If the oil level is low or lower than recommended, fill with the recommended oil using the oil fill bottle (included in tool package)



3. Check the Gas Level



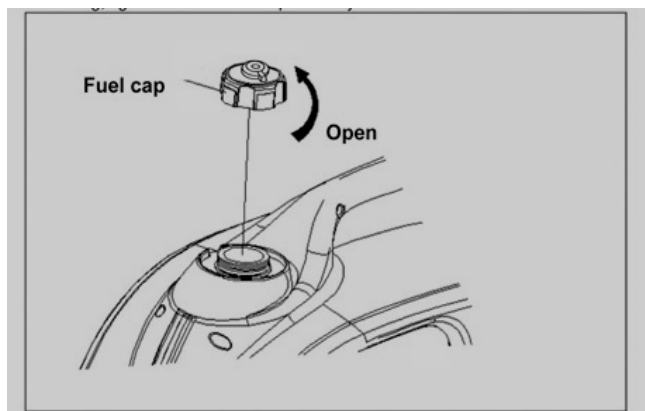
warning!

Gasoline is extremely flammable and is explosive under certain Conditions.

- Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- DO NOT overfill fuel tank. Tighten fuel cap after adding fuel.
- Be careful and avoid gas spillage when adding fuel, spilled fuel or gas fumes can catch on fire. In the case of any fuel spillage, be sure that all fuel has vaporized or has been cleaned up before starting engine.
- Avoid contact with fuel or breathing gas fumes. Always wash hands or areas exposed to fuel.

Check the gasoline level ; prior to starting the generator., Fill the gasoline tank to proper levels (2/3 full) with 87 octane gasoline .Always fill with fresh and clean gasoline. Avoid allowing dirt or water into the fuel tank. Tighten the fuel tank cap after adding fuel.

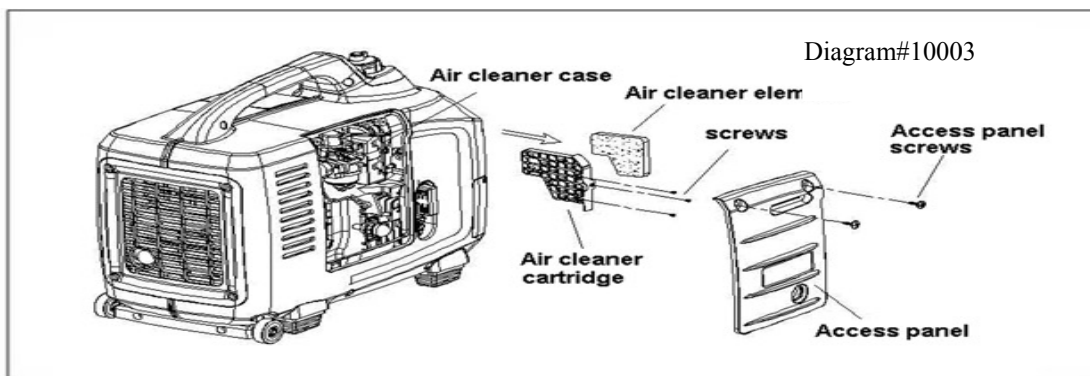
Diagram #10002



4. Check the Air Cleaner Element

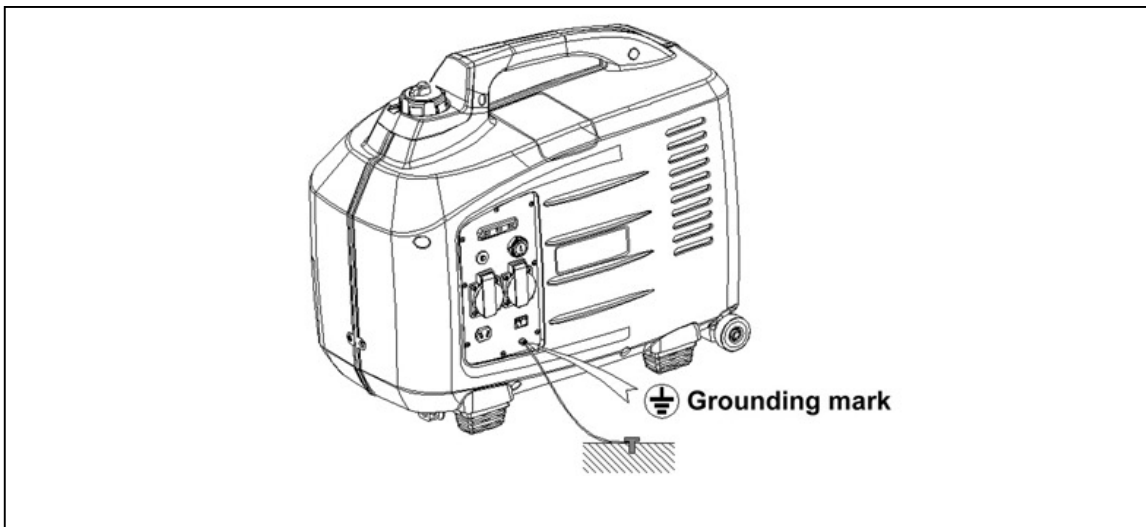
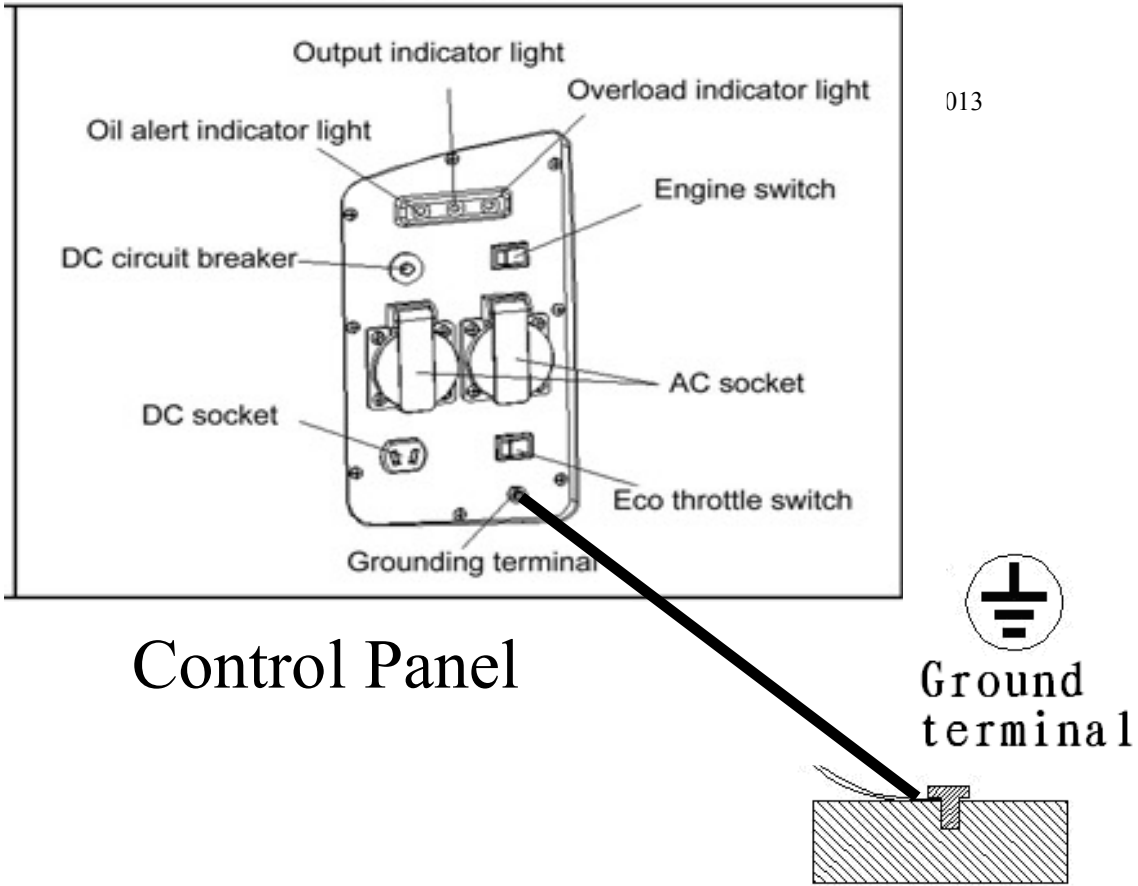
Keep the element clean and free of contaminants at all times.

1. Remove the screws on the left access cover, open it.
2. Remove the three screws on the air cleaner case.
3. Pull out the air cleaner cartridge following the direction of the arrow point.
4. Check the air cleaner element, clean or change with a new one if necessary.
5. Re-install the air cleaner, air cleaner cover, and access cover.



5. Grounding the Generator

Using copper electrical wire with a minimum diameter of 16gauge, connect the ground terminal on the generator to an acceptable source of electrical ground, such as a copper grounding stake.

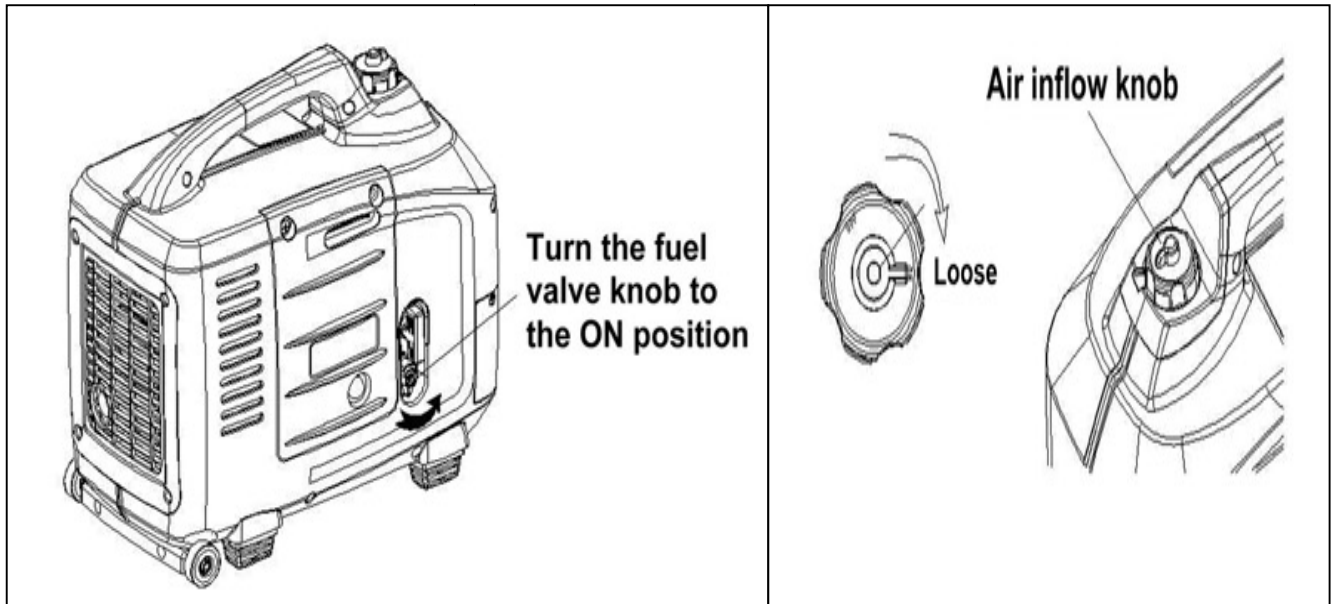


6. Starting the Engine

⚠ Be careful

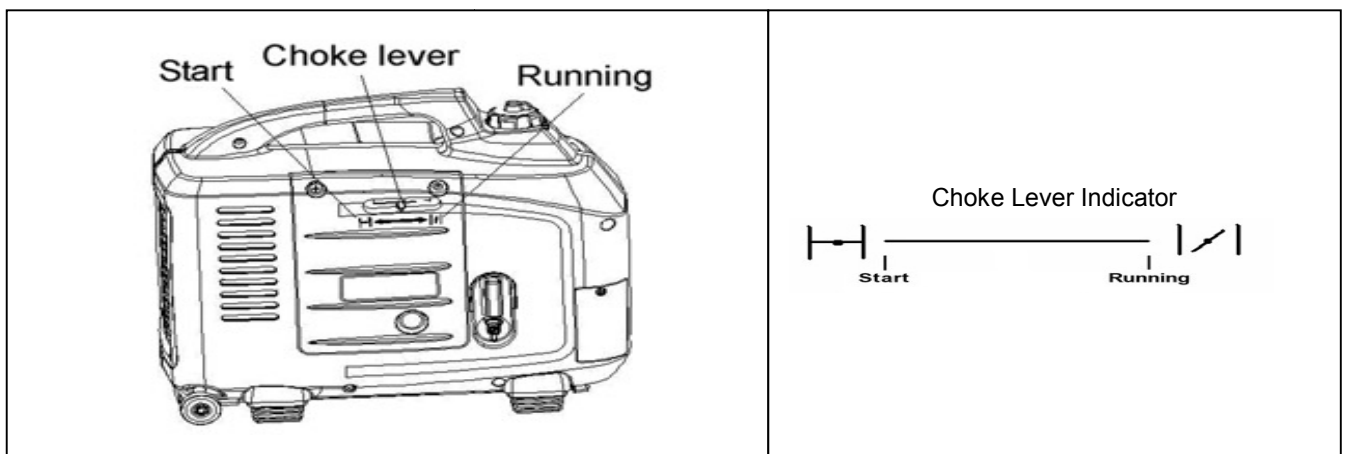
Make sure that all appliances are disconnected from the AC Receptacle.

1. Open gasoline switch and air inflow knob.

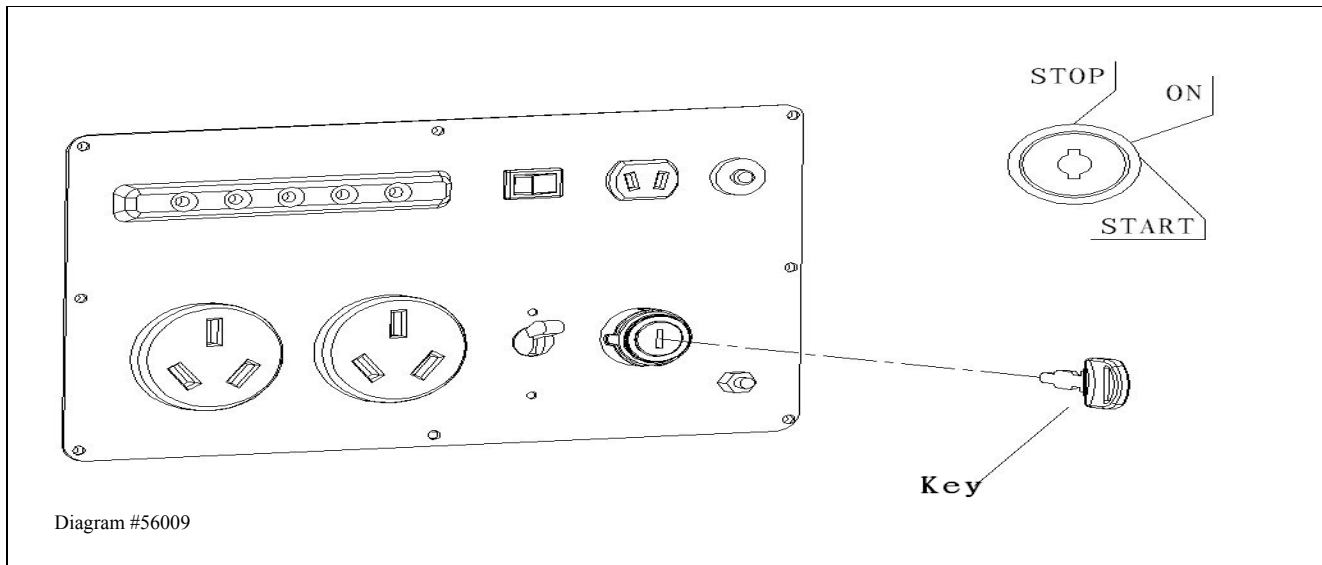


2.. When 1st starting the unit or after the unit has been allowed to run out of fuel or stored for an extended period of time it will be necessary to prime the fuel system by depressing the "Primer Bulb" multiple times to ensure the fuel system is filled and there is no air in this system. You may have to depress the primer bulb from 20 to 50 times or until it becomes hard to press before attempting to start. It is also sometimes necessary to depress the primer bulb prior to each start and which is normal. To start a cold engine, move the choke lever to the start position. To restart a warm engine set the choke lever halfway between the start and run positions. To restart a hot engine place the choke in the run position.

NOTE: Some models may be equipped with a knob style push/pull choke. On these units pull the choke knob for the starting position and push the knob in for the running position.



3. For electric/recoil start models, put the key into the ignition switch, and turn the key to 'ON' position.

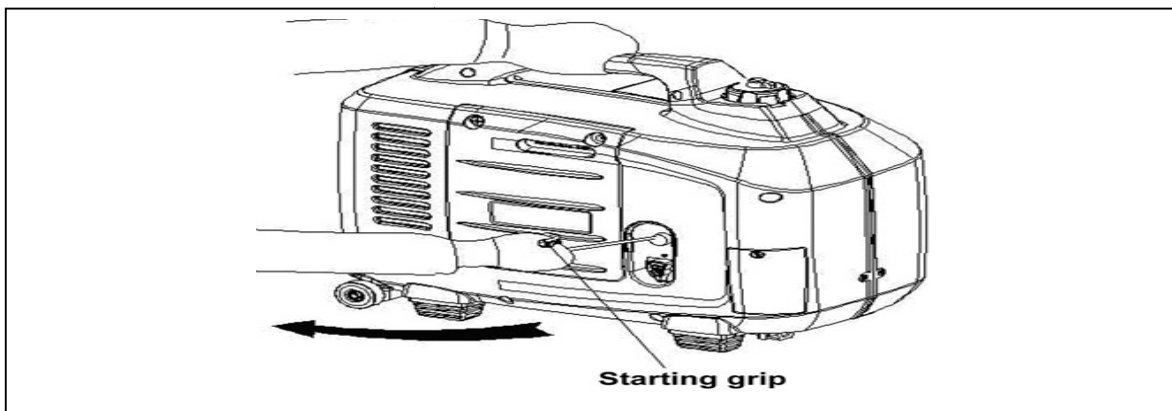


4. Turn the electric start key to "START" position and release when engine starts

5. Let the engine run for at least 5 seconds then move the choke switch to the run position

Recoil Pull Starting (only for electric/recoil and recoil start only models)

1. Open gasoline switch
2. Place the key into the ignition switch, and turn the key to 'ON' position. For pull start only models place rocker style ignition in the on position.
3. Pull the starting rope until feel the resistance, then pull briskly to start the engine.



Be careful

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter or housing.

NOTE: If the engine will not start, check the oil level, fill the engine with oil if necessary and then re-try starting the unit.

High altitude area operation

At high altitude, the standard carburetor air/fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. High altitude performance can be improved by specific modifications to the carburetor. If you always operate your generator at altitudes above 5,000 feet (1,500 meters), please ask your Authorized EnergyStorm Service Center to properly jet the carburetor for High Altitude use. Even with carburetor modifications, the engine horsepower will decrease about 3.5% for each 1,000-foot increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

BE CAREFUL

When the carburetor has been modified for high altitude operation, this modified Carburetor may cause the engine to overheat and result in serious engine damage.

7. Applications

Warning!

Connections for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. Improper connections to a building electrical system can allow electrical current from the generator to back feed into the utility lines. Such back feed can cause injury or may electrocute utility company workers or others who contact the lines during a power outage, and the generator could explode, burn, or cause fires when utility power is restored.

In order to avoid getting an electric shock, always ground the generator from the Ground Lug to the Earth for proper grounding.

8. Using Your Generator

Be careful

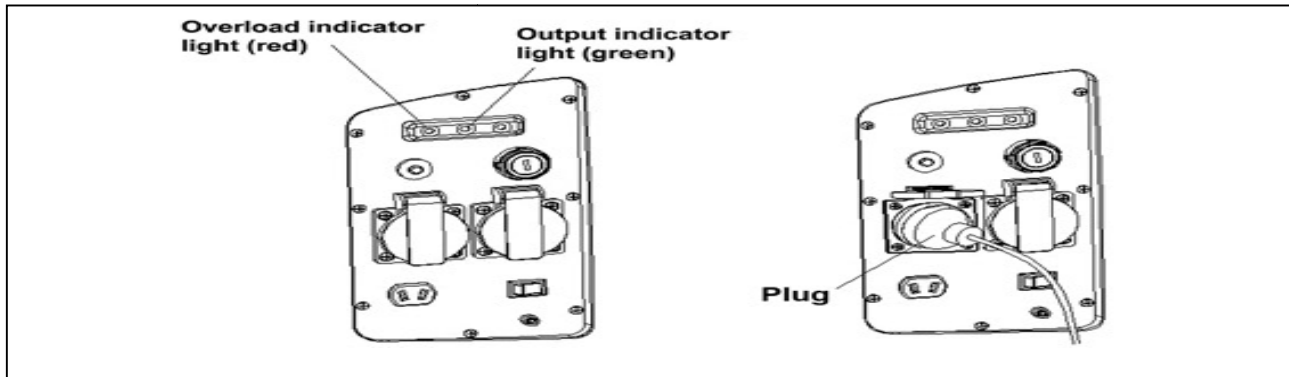
- When the generator operates constantly, do not overload its rated power capacity. Consider total power for all the equipment and appliances being powered.
 - DO NOT overload its rated current.
 - DO NOT connect the generator to household panel circuit; it may damage the generator or home electric equipment.
 - DO NOT use the generator for other than the intended purpose and comply with the following rules:
- 1. DO NOT parallel connect this model generator. Generators cannot be combined with other electric wires or extension cords or multiple socket boxes.
- 2. DO NOT lengthen the exhaust pipe or vent it with any extensions.
- 3. Please use SJ or SJO type extension cords if you need additional length from the appliance cord.
- 4. Extension wire length limit: 16gauge cord 200feett maximum; 10 gauge cord 330 feet maximum.

NOTE!

- You can use DC power at the same time that you are using AC power.
- Please do not exceed the power or wattage total of DC & AC
- Pay attention to the start-up wattage and running wattage requirements in determining the items to be powered by your generator. Consult the Wattage Use Chart located on the back page of this manual.

How to Use AC Power

1. Start the engine with no electrically powered items plugged into the generator.
2. After unit starts and the green output indicator light (see diagram #56011) illuminates you may now plug in and operate electrically powered devices.



⚠ Be careful

Substantial overloading will illuminate the red overload indicator light and damage the generator. Marginal overloading that temporarily lights the overload indicator light (red) may shorten the service life of the generator. If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.

Output and overload indicator

At normal condition, output indicator (green light) will stay lit. If the generator is overloaded or if there is a short circuit in a connected appliance, the overload indicator light (red) will illuminate. Then after about four seconds, current to the connected appliance(s) will shut off, and the output indicator light (green) will go OFF.

If the red indicator light activates, please stop the engine and find out the reason for the overload.

- Check your equipment for proper operation, electrical shorts, malfunctions, and make sure that the power required to operate the desired equipment does not exceed the power available from the generator. Only then put the plug in the socket, and start the engine.
- Be sure all equipment is in the off position upon starting the generator. Only start your equipment when the green power indicator light is illuminated and the generator is providing the necessary power to run your equipment.

⚠ be careful

If the red overload light and the green output light activate at the same time after starting engine and the red overload indicator light stays on after the green output indicator light goes off please turn off the generator and consult your closest authorized service center or EquipSource, LLC. @ 866-471-7464.

- 1. Start Engine** (refer to section 6 for instructions)
- 2. Wait five seconds for green power light to illuminate.**

If the green output indicator light is off, and the red overload indicator light is on, stop the engine using the ignition switch, then follow section 6 start engine requirements and restart.

- 3. Make sure your tools or appliances are in the off position, and then you may plug them in the socket.**

⚠ Be careful

- If connected equipment is in the ON position before connecting, it will start suddenly, and cause injury or damage.

4. Turn on equipment.

If the generator is overloaded or if there is a malfunction in your equipment, green output indicator light will turn off and the red overload indicator light will turn on and power output from the generator will not continue. If this occurs the engine will not stop, you must turn off the ignition switch to stop engine in order to reset the power circuit of the generator.

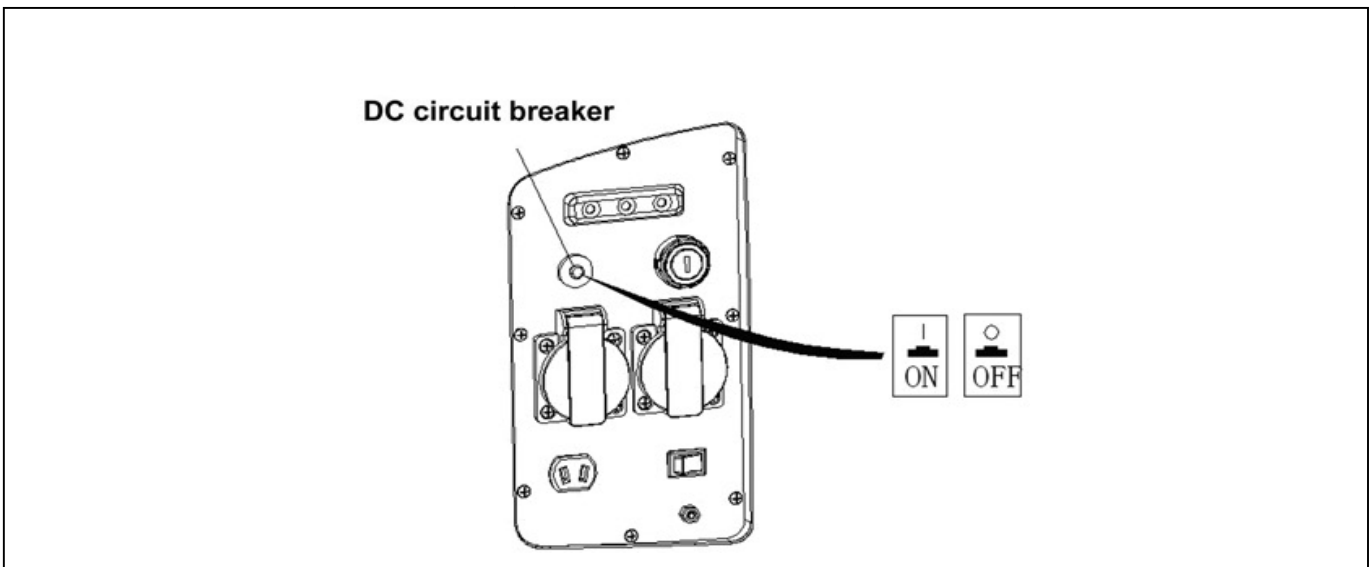
⚠ Be careful

- If the equipment power requirement meets the system capability for initial start-up, the overload indicator and output indicator will turn on at the same time for a short period, that's normal. The red indicator light will turn off and the green light stays on after the equipments start.

How to Use 12 Volt DC Output

⚠ NOTE!

- When using the DC output, turn the Auto Idle switch to the OFF position (see diagram #56361 for switch location)
- You can use DC power and AC power at the same time.
- DC overload circuit may disconnect, reset circuit protector by pressing reset button.



Special Instructions for Charging 12Volt Batteries (diagram #56013)

⚠ Warning!

- When charging, put the charging plug in the DC socket, and then connect to the terminals of the battery. After charging remove battery terminals first then un-plug charging plug. This procedure will reduce the chances of sparking.

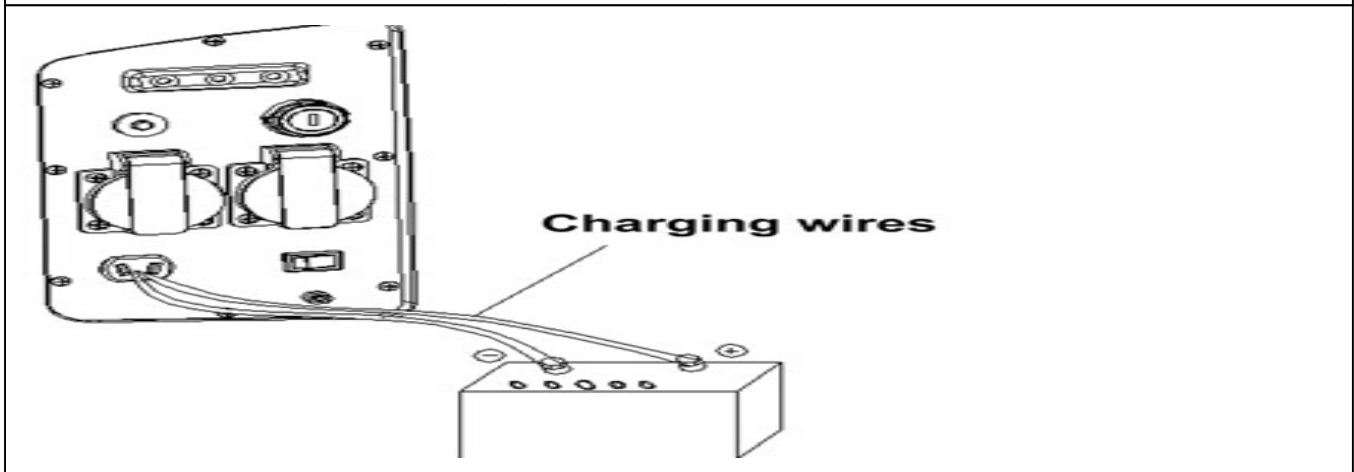
- When charging car batteries, please remove the ground wire of the battery first, reconnect it after charging in order to avoid short circuit or spark.

⚠ Be careful

- Do not start cars when generators are connected to batteries or use the DC power of the generator to start a car, this may cause damage to the generator.
- Always be sure to match the positive and negative cables of the DC power cord with the Batteries' Positive and Negative Posts.

⚠ Warning!

- **Always charge in a well ventilated area and keep away from flames as batteries generate flammable gases during charging.**
- **Batteries contain vitriol (electrolyte) which can burn skin and eyes when we touched, please wear safety clothes and goggles. If electrolytes splash on skin, use fresh water to wash at once. If electrolytes splash in eyes, immerse in fresh water wash for 15 minutes and seek medical attention immediately.**
- **If electrolytes are swallowed by mistake, drink a massive dose of water or milk at once, then consume some magnesia milk or vegetable oil, seek immediate medical attention.**
- **Keep Batteries and electrolytes away from children.**



Parallel Cord Capable

All EnergyStorm ES1000i, ESI2000i(E), and ESI2600i(E) generators are Parallel Cord Ready and come with the Parallel Cord Jack and Digital Panel installed and are ready for use with the “Duo-Power” Parallel Cords and Box which is available from your Energy Storm dealer or you can call EquipSource, LLC toll free at 866-471-7464 to find your closest dealer (Model #ESIPPC).

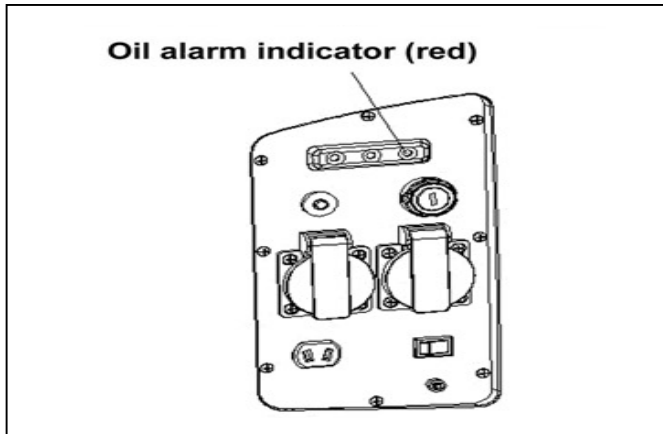
This “Duo-Power” Connection allows you to combine the electrical power of any two (2) equipped EnergyStorm Digital Inverter Generators to achieve the combined power of both units through the Parallel Box and receptacles. This function is useful when you require additional power to operate your equipment and appliances. (Example: Parallel Connect an ESI2600i(E) with an ESI2000i(E) to receive the combined wattage of 4600 watts.

Before starting either generator always completely connect the Digital Control circuit and the AC circuit cords of the “Duo-Power” Box to both generators. Do not plug-in any electrical loads until the green power indicator light, located on the Duo Power receptacle box, is illuminated.

Never use the outlets on the individual generators while units are operating in Parallel Connection Mode.

9. Low Oil Alarm System (diagram#56014)

Oil alert system is designed to avoid engine damage from insufficient oil in the crankcase, the oil alarm system will stop the engine automatically before the oil level in the crankcase gets below safe operating levels (ignition switch will stay on, Turn OFF)



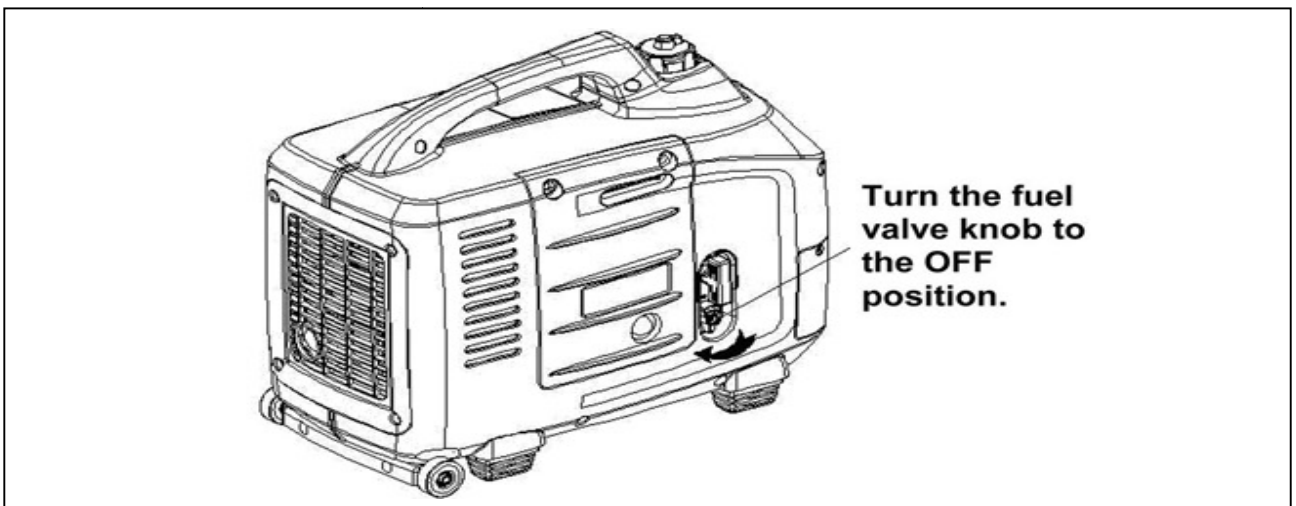
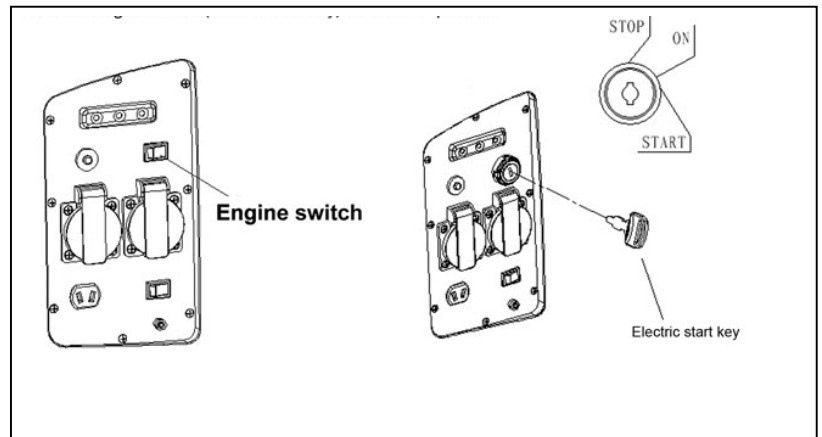
10. Stopping the Engine

Emergency Shutdown:

- Turn key to stop position
- Turn off Fuel Valve (diagram 56016)

Normal Shutdown:

- Un-plug all electrical loads
- Turn key to stop position
- Turn off Fuel Valve (diagram #56016)



11. MAINTENANCE

Good maintenance is essential for safe, economical, and trouble-free operation. It also helps reduce air pollution.

WARNING

- Stop engine before servicing. If service performance requires operating generator, BE SURE to operate generator in a well ventilated environment, Exhaust contains poisonous gas -carbon monoxide which can result in death.

NOTE

- Always use Genuine Energy Storm parts or equal quality parts for repairs and maintenance, aftermarket parts can damage the unit and void the warranty.

Maintenance calendar

Regular service period perform at every indicated month or operating hour interval whichever comes first. item		Every time use it	Every month or every 20 hours	Every 3 months or every 50 hours	Every 6 months or every 100 hours	Every year or every 300 hours
engine oil	check					
	replace					
Air cleaner	check					
	clean					
Spark plug	Clean -adjust					
spark arrester	Clean					
Valve clearance	Check-adjust					
gas tank and air cleaner	clean					
fuel line	Check		Every two years (change it If necessary)			

Note: Calendar above is the maintenance schedule for typical use areas, service more frequently when used in dusty areas.

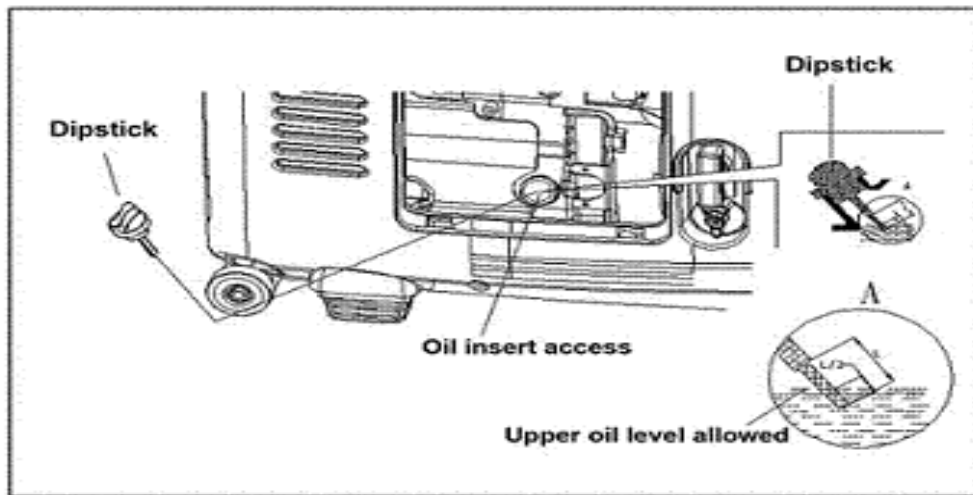
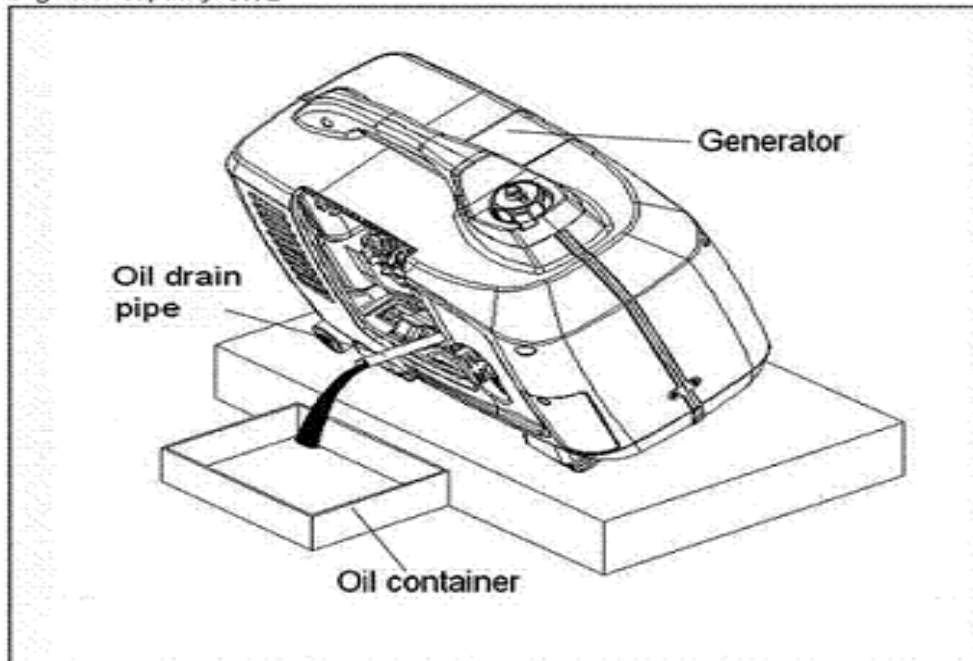
1. ENGINE OIL CHANGE

Drain the used oil while the engine is warm. Warm oil drains more quickly and completely.

Be careful

- Turn the engine switch and vent lever to the OFF position to reduce the possibility of fuel leakage.
 1. Insert the Oil tube in the filler neck of the oil tank (oil tube is provided in tool kit)
 2. Tilt the generator, drain the oil completely
 3. Fill with the recommended oil (see 4.1) check the level of oil.
 4. Shake the generator to make sure the float in the Oil Alert System is free after filling with new oil.

Oil tank capacity: Varies with Model see specification sticker on generator



Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of it properly. Put it in a sealed container, and take it to a recycling center. Do not discard it in a trash bin, dump it on the ground, or pour it down a drain.

2. Air Cleaner Servicing

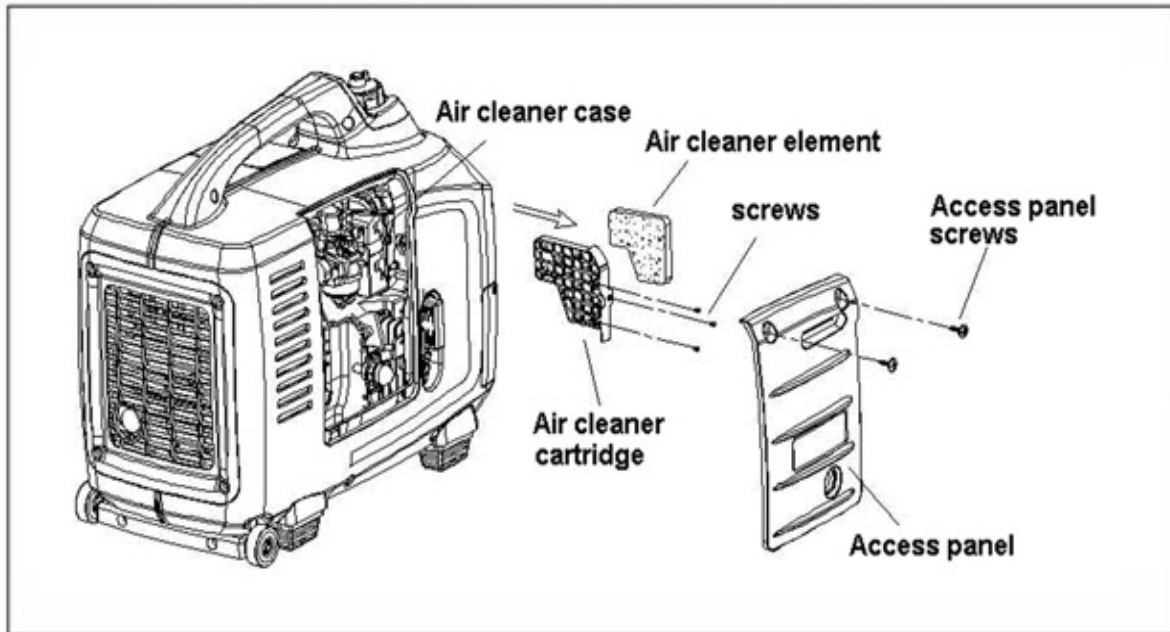
A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

Warning

- Using gasoline or flammable solvent to clean the air filter can cause a fire or explosion. Use only soapy water or nonflammable solvent.

Check the air cleaner element; keep the element clear and free of dirt.

- a. Remove left access cover screws, remove the cover.
- b. Remove the three screws on the air cleaner case.
- c. Pull out the air cleaner cartridge following the arrow point.
- d.

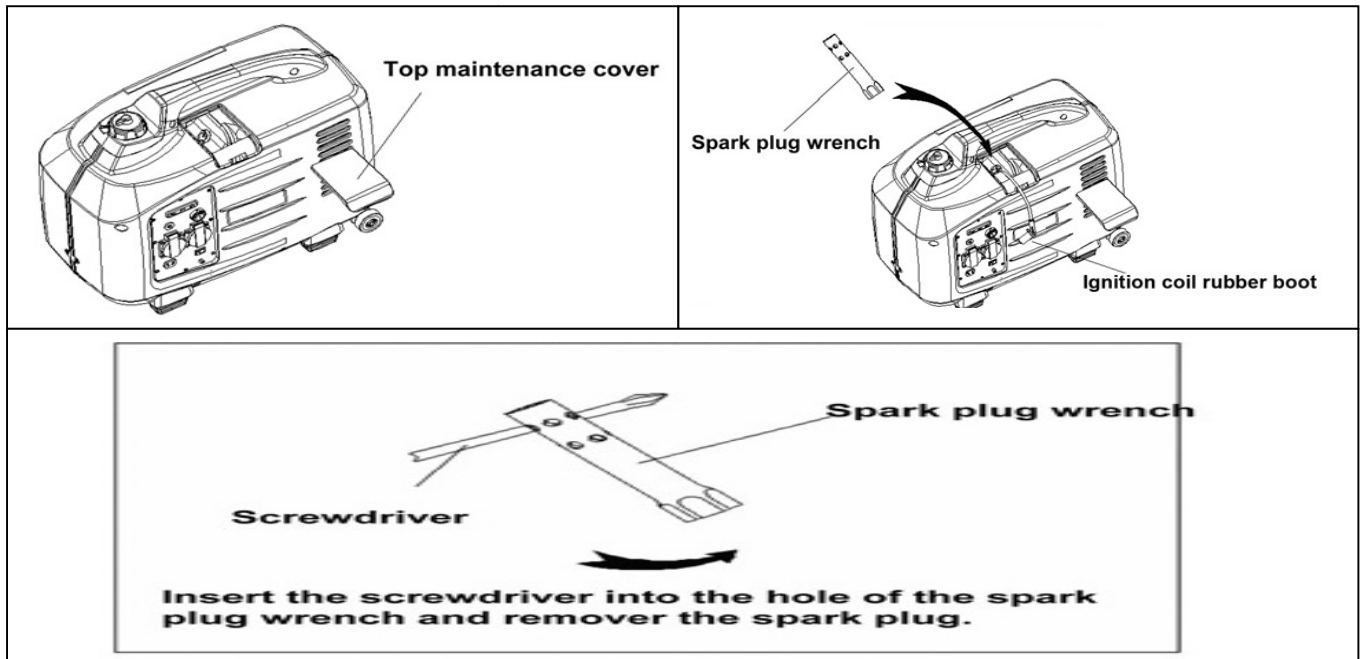


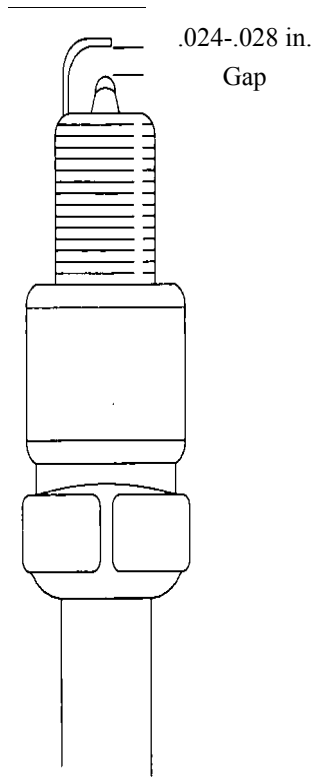
3. Spark plug servicing

Please use high quality Brand Name (i.e. Champion, AC, etc) spark plug.

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the screws on the top maintenance cover.
2. Clean any dirt from around the spark plug base
3. Use the provided spark plug wrench to remove the spark plug.





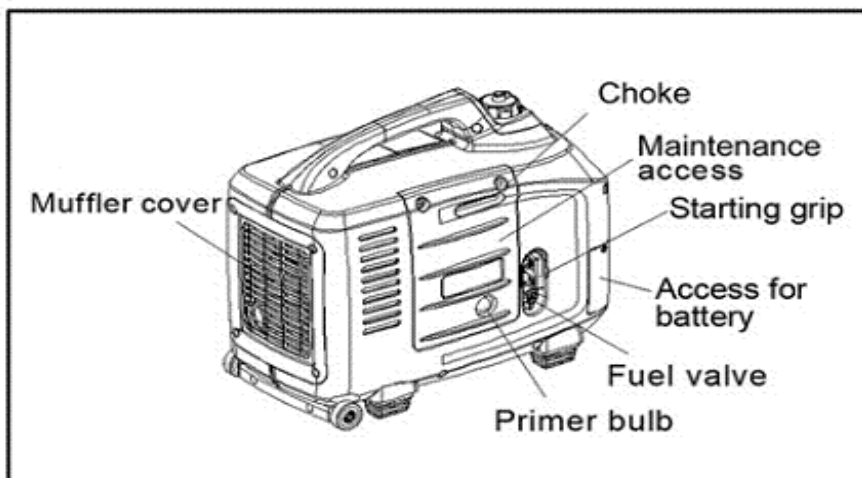
4. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped.
5. Please use plug gauge to check spark plug gap, it should be 0.6-0.7mm (0.024-0.028inch)
6. Check that the spark plug sealing washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer. If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 to 1/4 turn after the spark plug seats to compress the washer.
8. Reinstall the spark plug cap on the spark plug securely.
9. Reinstall the spark plug maintenance cover.

⚠ Be careful

- Spark plug must be assembled firmly, or it will become hot and may damage generator.
- A loose spark plug can overheat and damage the engine.

12. Battery assembly and maintenance (electric and electric/recoil start models only)

1. Remove the screws from left access cover, take off the cover.



2. Your Energy Storm Generator purchase includes the enclosed battery. Plug the battery's wire harness into the ignition harness which is located behind the battery access door. This battery is shipped fully charged but may require re-charging before use.

⚠ warning!

- ◆ Incorrect installation will lead to battery and engine damage.

13. Transportation and Storage

To avoid gas leakage during transportation and storage, please close gas switch and vent lever switch,

⚠ warning!

When transporting the generator:

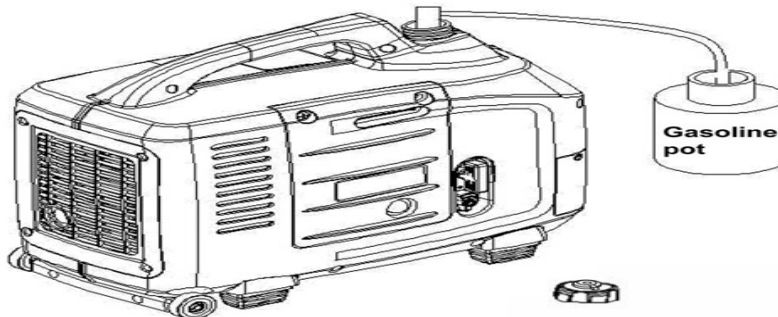
- Do not overfill the gas tank (1/2 tank or less is recommended)
 - Do not operate generator during transportation, always operate in well ventilated areas.
 - Avoid direct sunlight during transportation; high temperature can cause gas vaporization and could become explosive.
- DO not transport generators on rough roads, for great distances. You must completely drain the gas tank if this situation occurs.

Before Storing the Generator.

1. Ensure that the location where generator is stored is dry and clean.
2. Run the engine with the fuel valve in the off position until the engine stops operating then drain the fuel from the gas tank.

⚠ warning!

Gas may become extremely incendiary and explosive in some conditions.
Do not store where fire, smoking, or any other flammable uses occur.



3. Change engine oil per instructions in section 11.1.
4. Remove spark plug and fill cylinder with a 0.5 oz. of fresh oil, pull the recoil rope (if equipped) to disperse excess oil, reassemble spark plug.
5. Pull start rope slowly until you feel some pressure, at this time the piston moves to the top, valves are closed, and generator is in the proper condition for storage. The oil in the cylinder should prevent rusting and contaminants.

14. Specifications

Size and weight

Model#	ESI-1000i/ESI-1000i-CA	ESI-2000iE/ESI-2000iE-CA	ESI-2000iE/ESI-2000iE-CA
L x W x H	20"x12"x18"	24"x15"x13"	24.5"x15.5"x13"
Net weight	35 lbs.	66 lbs.	68 lbs.

Engine

TYPE	152	160	168
Engine specification	OHV-4 Stroke	OHV	4 Stroke
Displacement	53cc	125cc	149cc
Compression ration	8:1	8:1	8.5:1
engine speed	Variable	Variable	Variable
cooling system	Air	Air	Air
Ignition system	TEI	TEI	TEI
Oil capacity	12oz.	20oz.	20oz.
Fuel tank capacity	.75 Gallons	1.9 Gallons	1.9 Gallons
Sound class	58db	30db	58db

Generator

TYPE	Item	ESI-1000i/ESI-1000i-CA	ESI-2000iE/ESI-2000iE-CA	ESI-2000iE/ESI-2000iE-CA
AC output	rated voltage(V)	120	120	120
	Rated frequency(HZ)	60	60	60
	Rated current(A)			
	Rated output(KVA)	900	2000	2600
	Maximum output(KVA)	1000	2200	2800
DC output	12V/8.3A	12V/8.3A	12V/8.3A	12V/8.3A

LIMITED WARRANTY POLICY

ENERGY STORM POWER EQUIPMENT

PRODUCTS COVERED	LENGTH OF WARRANTY	
	Non-Commercial	Commercial/Rental
Walk Behind Mowers	1 year	3 months
Water Pumps	1 year	1 year
Generators	1 year	1 year
Pressure Washer Engines'	1 year	1 year
Pressure Washer Pumps'	1 year	1 year
Gasoline Engines	1 year	1 year
Gasoline Powered Welders	1 year	1 year

This warranty is limited to the following Energy Storm Power Equipment Products that are distributed by the Power Equipment division of EquipSource LLC, located at 2205 Industrial Park Road, Van Buren, AR 72956. Effective date is 1/01/2007. In order to qualify for the limited warranty the product must be purchased in North America from an authorized EquipSource dealer or a dealer authorized by EquipSource to sell Energy Storm products. This warranty is non-transferable and applies only to the original purchaser. The supplied “Warranty Registration Card” must be completed and on file with EquipSource, LLC (at the supplied address), at the time that any warranty claim is made. The “Warranty Registration Card” must be submitted with a receipt of purchase which clearly states the date of purchase.

During the warranty period (stated above) EquipSource, LLC will repair or replace, at its’ option, any part that is proven to be defective in material or workmanship under normal usage. Repairs and/or replacement will be made without charge for parts or labor. All parts found to be defective must be returned to EquipSource. Upon reception of the parts a judgment as to the validity of the warranty claim will be determined. All parts replaced under warranty will be considered part of the original product and any warranty on those parts will coincide with the original warranty.

To obtain Warranty Service, you must take the product, at your expense, to an authorized EquipSource, LLC (ie. Lifan and Energy Storm brands) service center. If you are unable to locate warranty service or are dissatisfied with the warranty service that you receive, contact EquipSource, LLC at 866-471-7464. At Equip Source’s discretion; EquipSource may elect to replace a defective unit. In this case the end user is responsible for all shipping and handling charges associated with the exchange.

This warranty is not valid for products or parts affected or damaged by accident, collision, normal wear, fuel contamination, abuse, neglect, misuse, alteration and/or unsuitable use or unauthorized parts replacement. Mower decks and blades are specifically not warranted for impact or abrasive damage. Warranty becomes void if the customer fails to install, maintain, and/or operate the product in accordance with the instructions and recommended actions of EquipSource,LLC set forth in the owner’s manual.

EquipSource, LLC disclaims any responsibility for time loss or loss of usage of the product, transportation, commercial loss, or any other incidental or consequential damage. Prior to any warranty service an approval code must be issued to the service center in order for the warranty claim to be valid. Any implied warranties are limited to the duration of this written limited warranty. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state.

More information is also available on our website: www.lifanpowerusa.com.

EquipSource, LLC 2007 Revised 3/10/2010

Energy Storm

AVERAGE APPLIANCE WATT CHART

AVERAGE APPLIANCE WATTAGE CHART	
Appliance	Typical Running Watts
CONTRACTOR	
Air Conditioner, Window	500-1440
Aquarium	50-1210
Clock Radio	10
Coffee Maker	900-1200
Computer CPU Awake	120
Computer Monitor Awake	150
Computer Laptop	50
Dehumidifier	785
Dishwasher	1200-2400
Dryer	1800-5000
Electric Blanket	60-100
Fan Ceiling	65-175
Microwave (1000w)	1000
Furnace	750
Refrigerator/ Freezer	725
Box Fan	55-250
AM/FM Radio	70-400
Portable Electric Grill	1650
Hair Dryer	1200-1875
Heater Portable	750-1500
Television 19"	65-110
Television 27"	113
Television 36"	130
Television 53"-61" Projection	170
Television Flat Screen	120

When selecting a inverter generator it is very important to choose one that is capable of producing enough energy to meet all of your requirements. You must match the rated output of the generator to the maximum power needed by the user. Use the chart from this worksheet to determine the running watts and starting watts for all of the equipment that you will operate with your Energy Storm Inverter Generator. Add the running watts together for all of the equipment and record that figure. Then identify the single piece of equipment with the largest starting watt requirement and add that figure to the total running watts from all equipment. Select the appropriate Energy Storm Inverter Generator by reviewing the specifications chart for Energy Storm Inverter Generators and compare your total wattage requirements to the surge ratings for each generator. Remember to follow all safety precautions outlined on the inverter generator or in the Owners Manual. Use of our "DuoPower" Parallel Cord option can double your wattage for the power you need.