

ENERGY STORMTM



Model

ES4100(E)	ES4150(E)-CA
ES5700(E)	ES5750(E)-CA
ES6600(E)	ES6650(E)-CA
ES8100E	ES8150E-CA
PG4375(E)-CA	PG8250(E)-CA
PG9625E-CA	



Operating Instructions & Owners' Manual

Please read this manual carefully before operating your new portable generator.
(CA) in the model number designated California Compliant by CARB 5/2021

ENERGY STORM

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

Energy Storm Series

**ES4100(E) ES4150(E)-CA ES5700(E)
ES5750(E)-CA ES6600(E) ES6650(E)-CA
ES8100E ES8150E-CA PG4375(E)-CA
PG8250(E)-CA PG9625E-CA**

**PLEASE KEEP AND READ THIS MANUAL
CAREFULLY BEFORE OPERATING YOUR NEW
ENERGY STORM PORTABLE
GENERATOR**

RECORD PURCHASE HERE

MODEL # _____

ENGINE ID # _____

DATE OF PURCHASE _____

PURCHASE LOCATION _____

**-CA INDICATES THIS UNIT IS
CARB CERTIFIED**



ENERGY STORM

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**DO NOT RETURN
THIS PRODUCT TO THE STORE**

WE ARE HERE FOR YOU!

Call Customer Service Toll-Free 1-877-684-8912
or visit us online at www.lifanpowerusa.com

**NO DEVUELVA ESTE
PRODUCTO A LA TIENDA**

ESTAMOS AQUÍ PARA USTED!

Llame a nuestro equipo de Servicio al Cliente Línea Gratis 1-877-684-8912
o visite nuestra página en el internet www.lifanpowerusa.com

**NE PAS RETOURNER
CE PRODUIT AU MAGASIN**

NOUS SOMMES ICI POUR VOUS!

Communiquer avec Notre Équipe de Service à la Clientèle sans Frais au
ou en ligne à www.lifanpowerusa.com



ENERGY STORM



WARNING

SPECIAL HAZARDS

- CO Poisoning: Exhaust from engine contains carbon monoxide, a poisonous gas that can cause carbon monoxide poisoning and possible death if inhaled.
- Electric shock: Operating equipment in wet conditions or near water can cause electric shock.
- Chemical Exposure: Cleaning chemical vapors or contact with skin may be hazardous.
- Fire/Explosion: Engine sparking can ignite fuel or other flammable liquids or vapors in the vicinity. Hot exhaust from engine can ignite combustible materials.
- Burns: Generator engine is a hot surface that can cause burn injuries.

EQUIPMENT PROTECTION FACTS

Inspect Upon Delivery: FIRST! Inspect for missing or damaged components. See “Initial Set-Up/Installation” section for where to report missing or damaged parts.

Add Engine Oil: Engine is shipped **without oil**. See the “Engine Manual” section of this manual for instructions on capacity and viscosity recommendations.

Maintenance Schedule: Engine requires periodic inspection and servicing to keep generator functioning efficiently. See “Maintenance Schedule Summary” for frequency of servicing.

ENERGY STORM

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PLEASE READ THE FOLLOWING INSTRUCTIONS!

1. Unit Shipped without engine oil. See Preoperating Instructions for further information.
2. For repair under Warranty or questions concerning Warranty, DO NOT RETURN this product to the Store where purchased. Follow the procedures as outlined in the "WARRANTY POLICY" and "WARRANTY REGISTRATION" in the Owner's Manual. For any questions visit www.lifanpowerusa.com or call 1-866-471-7464, Option 2 (Warranty and Service).
3. Read the "Owner's Manual" prior to operating any equipment and familiarize yourself with the Proper and safe operation of the equipment. If you have any questions, visit www.lifanpowerusa.com or call 1-866-471-7464, Option 2 (Warranty and Service).



ENERGY STORM

PREFACE

Thank you for choosing LIFAN Power USA for your Power Equipment needs. LIFAN Power USA prides itself on providing quality products at affordable pricing, creating the “Best Equipment Value on Today’s Market!”

Your Portable Generator utilizes our Industrial Grade Gasoline Engines and is intended for OUTDOOR USE ONLY.

All LIFAN Power USA products are manufactured utilizing the latest technology. Built with quality components, your new Power Equipment Product will give you years of dependable service. Your unit, along with all of LIFAN Power USA products are designed, engineered, and manufactured with LIFAN’s Industrial Grade Gasoline Engine.

This Owner’s Manual will provide you with all of your needed information for your new Power Equipment Product, including Safe Operation and Maintenance of your unit. Please keep and read this Owner’s Manual completely and carefully prior to operation. Keep this Owner’s Manual for assistance in the future, such as proper maintenance schedules and tips to prolong the life and effective use of your unit. If you require assistance, please visit our website (www.lifanpowerusa.com) or call toll free 866-471-7464 Option 2, Warranty and Service.

This Owner’s Manual contains information with respect to the newest products at the time of publication. Due to revision and modifications, the information noted in the Owner’s Manual might vary from the actual status. This Owner’s Manual is subject to change without notice. The copyright of the Owner’s Manual belongs to EquipSource, LLC. Any group or individual is forbidden to reprint or copy any of this Owner’s Manual without the written consent of EquipSource, LLC.

FOR ALL WARRANTY AND SERVICE RELATED ISSUES/QUESTIONS DO NOT RETURN YOUR UNIT TO THE STORE OR DEALER WHERE THE ITEM WAS PURCHASED. FOR SERVICE VISIT LIFAN POWER USA’S WEBSITE (WWW.LIFAN-POWERUSA.COM) OR CALL 1-866-471-7464 Option 2, Warranty and Service. WE WILL BE HAPPY TO HANDLE YOUR WARRANTY ISSUE OR DIRECT YOU TO THE NEAREST “AUTHORIZED SERVICE CENTER.”

ENERGY STORM

PRODUCT SPECIFICATIONS

Model/Size	ES4100(E)	ES5700(E)	ES6600(E)	ES8100E
Voltage	120V	120V	120V	120V/240V
Running Output	3500 watts	5500 watts	6600 watts	7700 watts
Starting Output	4375 watts	6875 watts	8250 watts	9625 watts
Maximum AC Amperage	29.2 amps	45.8 amps	55 amps	32.1 amps
Regulation	AVR	AVR	AVR	AVR
120V 20amp AC Receptacle	2	4	4	3
120V 30amp AC Receptacle	1	1	1	1
120/240V 30amp AC Receptacle	0	0	0	1
Circuit Protection	Master Circuit Breaker	Master Circuit Breaker	Master Circuit Breaker	Master Circuit Breaker

ENGINE

Manufacturer	RATO	RATO	RATO	RATO
Model (Recoil only)	R225-V	R420	R420	R500-V
Model (Recoil & Electric Start)	R225-V	R420	R420	R500-V
Maximum Horsepower (MHP)	8.5 MHP	15 MHP	15 MHP	19.5 MHP
Engine Displacement	224cc	420cc	420cc	500cc
Starting System	Recoil / Electric	Recoil / Electric	Recoil / Electric	Recoil / Electric
Fuel Tank Capacity	4.1Gallons	7.1Gallons	7.1Gallons	7.1Gallons
Fuel Tank Material	Rust Preventive Coated Steel	Rust Preventive Coated Steel	Rust Preventive Coated Steel	Rust Preventive Coated Steel
Run Time (@ 50% Load)	14.5 hours	12.5 hours	11.5 hours	10.5 hours
Sound Level (@ 7m / 23ft)	71db	73db	76db	76db
Engine Type	4-Stroke OHV	4-Stroke OHV	4-Stroke OHV	4-Stroke OHV
Fuel Type	.87 octane gasoline	.87 octane gasoline	.87 octane gasoline	.87 octane gasoline
Fuel Compliance	10% ethanol mix	10% ethanol mix	10% ethanol mix	10% ethanol mix
Oil Type & Amount	SAE 10W30 17 oz.	SAE 10W30 37 oz.	SAE 10W30 37 oz.	SAE 10W30 40.5 oz.
Low Oil Shutoff Protection	Yes	Yes	Yes	Yes
CARB Certified	(-CA) Model Only	(-CA) Model Only	(-CA) Model Only	(-CA) Model Only

DIMENSIONS

Packaged Dimensions	24.4 in. × 19.7 in. × 20.7 in.	28.4 in. × 23.5 in. × 24.3 in.	28.4 in. × 23.5 in. × 24.3 in.	28.4 in. × 23.5 in. × 24.3 in.
Packaged Weight	115 lbs.	188 lbs.	191 lbs.	222 lbs.

ACCESSORIES

12V Cord, Plug, and Clips	N/A	N/A	N/A	N/A
120V Male Twist Lock Plug	1 ea.	1 ea.	1 ea.	1 ea.
120/240V Male Twist Lock Plug	N/A	N/A	N/A	1 ea.
120V 30amp AC Twist Lock Receptacle	1 ea.	1 ea.	1 ea.	1 ea.
120/240V 30amp AC Twist Lock Receptacle	N/A	N/A	N/A	1 ea.
Mobility / Wheel Kit	Optional	All Models	All Models	All Models
Battery Group Size (not included)	Group 19	Group 14	Group 14	Group 14



ENERGY STORM

TM

PRODUCT SPECIFICATIONS

Model/Size	ES4150(E)-CA	ES5750(E)-CA	ES6650(E)-CA	ES8150E-CA
Voltage	120V	120V	120V	120V/240V
Running Output	3500 watts	5500 watts	6600 watts	7700 watts
Starting Output	4375 watts	6875 watts	8250 watts	9625 watts
Maximum AC Amperage	29.2 amps	45.8 amps	55 amps	32.1 amps
Regulation	AVR	AVR	AVR	AVR
120V 20amp AC Receptacle	2	4	4	3
120V 30amp AC Receptacle	1	1	1	1
120/240V 30amp AC Receptacle	0	0	0	1
Circuit Protection	Master Circuit Breaker	Master Circuit Breaker	Master Circuit Breaker	Master Circuit Breaker

ENGINE

Manufacturer	RATO	RATO	RATO	RATO
Model (Recoil only)	R225-V	R420	R420	R500-V
Model (Recoil & Electric Start)	R225-V	R420	R420	R500-V
Maximum Horsepower (MHP)	8.5 MHP	15 MHP	15 MHP	19.5 MHP
Engine Displacement	224cc	420cc	420cc	500cc
Starting System	Recoil / Electric	Recoil / Electric	Recoil / Electric	Recoil / Electric
Fuel Tank Capacity	4.1Gallons	7.1Gallons	7.1Gallons	7.1Gallons
Fuel Tank Material	Rust Preventive Coated Steel	Rust Preventive Coated Steel	Rust Preventive Coated Steel	Rust Preventive Coated Steel
Run Time (@ 50% Load)	14.5 hours	12.5 hours	11.5 hours	10.5 hours
Sound Level (@ 7m / 23ft)	71db	73db	76db	76db
Engine Type	4-Stroke OHV	4-Stroke OHV	4-Stroke OHV	4-Stroke OHV
Fuel Type	.87 octane gasoline	.87 octane gasoline	.87 octane gasoline	.87 octane gasoline
Fuel Compliance	10% ethanol mix	10% ethanol mix	10% ethanol mix	10% ethanol mix
Oil Type & Amount	SAE 10W30 17 oz.	SAE 10W30 37 oz.	SAE 10W30 37 oz.	SAE 10W30 40.5 oz.
Low Oil Shutoff Protection	Yes	Yes	Yes	Yes
CARB Certified	(-CA) Model Only	(-CA) Model Only	(-CA) Model Only	(-CA) Model Only

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Packaged Weight	117 lbs.	190 lbs.	193 lbs.	224 lbs.

ACCESSORIES

12V Cord, Plug, and Clips	N/A	N/A	N/A	N/A
120V Male Twist Lock Plug	1 ea.	1 ea.	1 ea.	1 ea.
120/240V Male Twist Lock Plug	N/A	N/A	N/A	1 ea.
120V 30amp AC Twist Lock Receptacle	1 ea.	1 ea.	1 ea.	1 ea.
120/240V 30amp AC Twist Lock Receptacle	N/A	N/A	N/A	1 ea.
Mobility / Wheel Kit	Optional	All Models	All Models	All Models
Battery Group Size (not included)	Group 19	Group 14	Group 14	Group 14

ENERGY STORM

PRODUCT SPECIFICATIONS

Model/Size	PG4375(E)-CA	PG8250(E)-CA	PG9625(E)-CA
Voltage	120V	120V	120V/240V
Rated Output	3.5kW	6.6kW	7.7kW
Starting Output	4.3kW	8.2kW	9.6kW
Maximum AC Amperage	29.2 amps	55 amps	32.1 amps
Regulation	AVR	AVR	AVR
120V 20amp AC Receptacle	2	4	3
120V 30amp AC Receptacle	1	1	1
120/240V 30amp AC Receptacle	0	0	1
Circuit Protection	Master Circuit Breaker	Master Circuit Breaker	Master Circuit Breaker

ENGINE

Manufacturer	RATO	RATO	RATO
Model (Recoil only)	R225-V	R420	R500-V
Model (Recoil & Electric Start)	R225-V	R420	R500-V
Maximum Horsepower (MHP)	8.5 MHP	15 MHP	19.5 MHP
Engine Displacement	224cc	420cc	500cc
Starting System	Recoil / Electric	Recoil / Electric	Recoil / Electric
Fuel Tank Capacity	4.1Gallons	7.1Gallons	7.1Gallons
Fuel Tank Material	Rust Preventive Coated Steel	Rust Preventive Coated Steel	Rust Preventive Coated Steel
Run Time (@ 50% Load)	14.5 hours	11.5 hours	10.5 hours
Sound Level (@ 7m / 23ft)	71db	76db	76db
Engine Type	4-Stroke OHV	4-Stroke OHV	4-Stroke OHV
Fuel Type	.87 octane gasoline	.87 octane gasoline	.87 octane gasoline
Fuel Compliance	10% ethanol mix	10% ethanol mix	10% ethanol mix
Oil Type & Amount	SAE 10W30 17 oz.	SAE 10W30 37 oz.	SAE 10W30 40.5 oz.
Low Oil Shutoff Protection	Yes	Yes	Yes
CARB Certified	(-CA) Model Only	(-CA) Model Only	(-CA) Model Only

DIMENSIONS

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12V Cord, Plug, and Clips	N/A	N/A	N/A
120V Male Twist Lock Plug	1 ea.	1 ea.	1 ea.
120/240V Male Twist Lock Plug	N/A	N/A	1 ea.
120V 30amp AC Twist Lock Receptacle	1 ea.	1 ea.	1 ea.
120/240V 30amp AC Twist Lock Receptacle	N/A	N/A	1 ea.
Mobility / Wheel Kit	Optional	All Models	All Models
Battery Group Size (not included)	Group 19	Group 14	Group 14


ENERGY STORM

SAFETY INSTRUCTIONS



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 Stanley product.

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, could be harmful, or 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.

HAZARD SYMBOLS AND MEANINGS



EXPLOSION



FIRE



ELECTRIC SHOCK



TOXIC FUMES



HOT SURFACE



KICKBACK

DANGER

Using a generator inside CAN KILL YOU IN MINUTES

Generator exhaust contains carbon monoxide. This is a poison that you cannot see or smell.



NEVER use inside a home or garage, EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors and vents.

DANGER

El uso de un generador en el interior PUEDE MATARLO EN POCOS MINUTOS.
El escape del generador contiene monóxido de carbono. Esto es tóxico y debe verlo u olerlo.



NUNCA utilice dentro de una casa o un garaje, AÚN cuando las ventanas y las puertas estén abiertas



Utilice únicamente en el EXTERIOR y lejos de ventanas, puertas o rejillas de ventilación.

DANGER

L'utilisation d'une génératrice à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES.
Les gaz d'échappement de la génératrice peuvent contenir du monoxyde de carbone, un poison que vous ne pouvez pas voir ni sentir.



NE JAMAIS utiliser à l'intérieur d'une maison ou d'un garage, MEME SI les portes et fenêtres sont ouvertes.



Utiliser uniquement à l'EXTERIEUR et loin des fenêtres, portes et ouvertures d'aération.



WARNING



Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death.

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**WARNING**

Running generator emits **carbon monoxide**: an odorless, colorless, **poisonous gas**. Breathing carbon monoxide can cause **nausea or death!**



ONLY operate generators outdoors.

Exhaust gas must be prevented from entering confined areas.

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

Do not operate this generator inside or under any buildings.

**WARNING**

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

**WARNING**

Rapid recoil of starter cord (kickback) may pull hand and arm forward toward engine at a rapid rate. Broken bones, bruises, sprains, and fractures may result.

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.



ENERGY STORM



WARNING



**While engine is running
temperature may exceed
150°F (65°C).
Severe burns may occur.**



WARNING



**Unintentional sparking
can result in fire or
electrical shock.**



CAUTION



**Excessively high operating speeds (engine
revolutions) increase the risk of injury and damage
to the generator. Excessively low speeds impose
a heavy load and will damage generator.**

CAUTION!

Improper use and care of this generator will cause damage and shorten its lifespan. Failure to follow these actions will void all warranties.

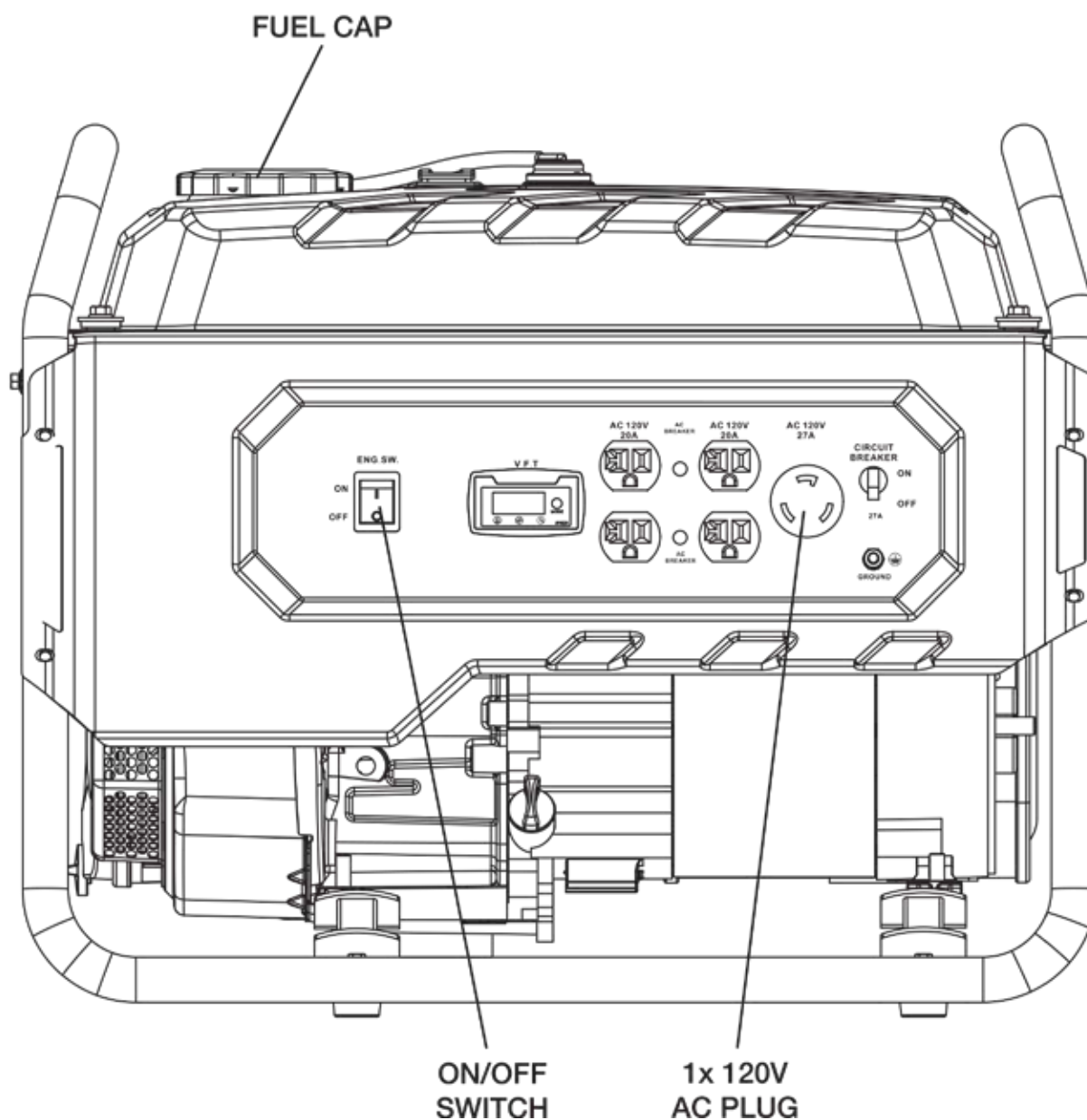
- Use generator only for appropriate and designated purposes.
- The dealer or customer helpline (1-866-471-7464) can instruct you on intended uses.
- Generator must be placed on a level surface.
- Do NOT expose generator to extreme conditions. Excessive dust, moisture, and corrosive vapors will damage unit.
- Engine cooling slots must be kept clear of debris.
- Shut off generator and take to a qualified service center if the unit fails to operate properly.

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CONTROLS AND FEATURES

ES4100 ES4150-CA

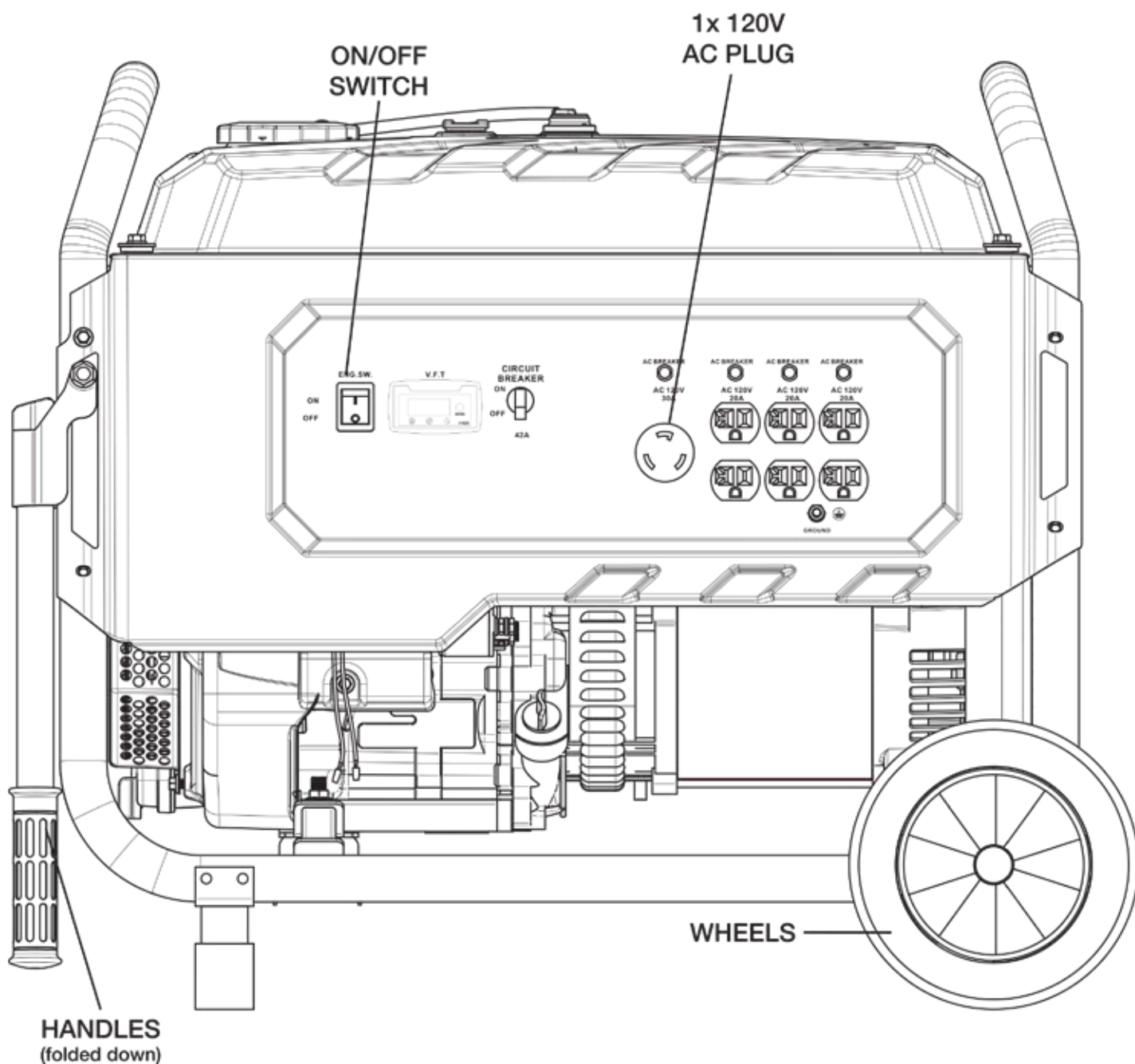




ENERGY STORM

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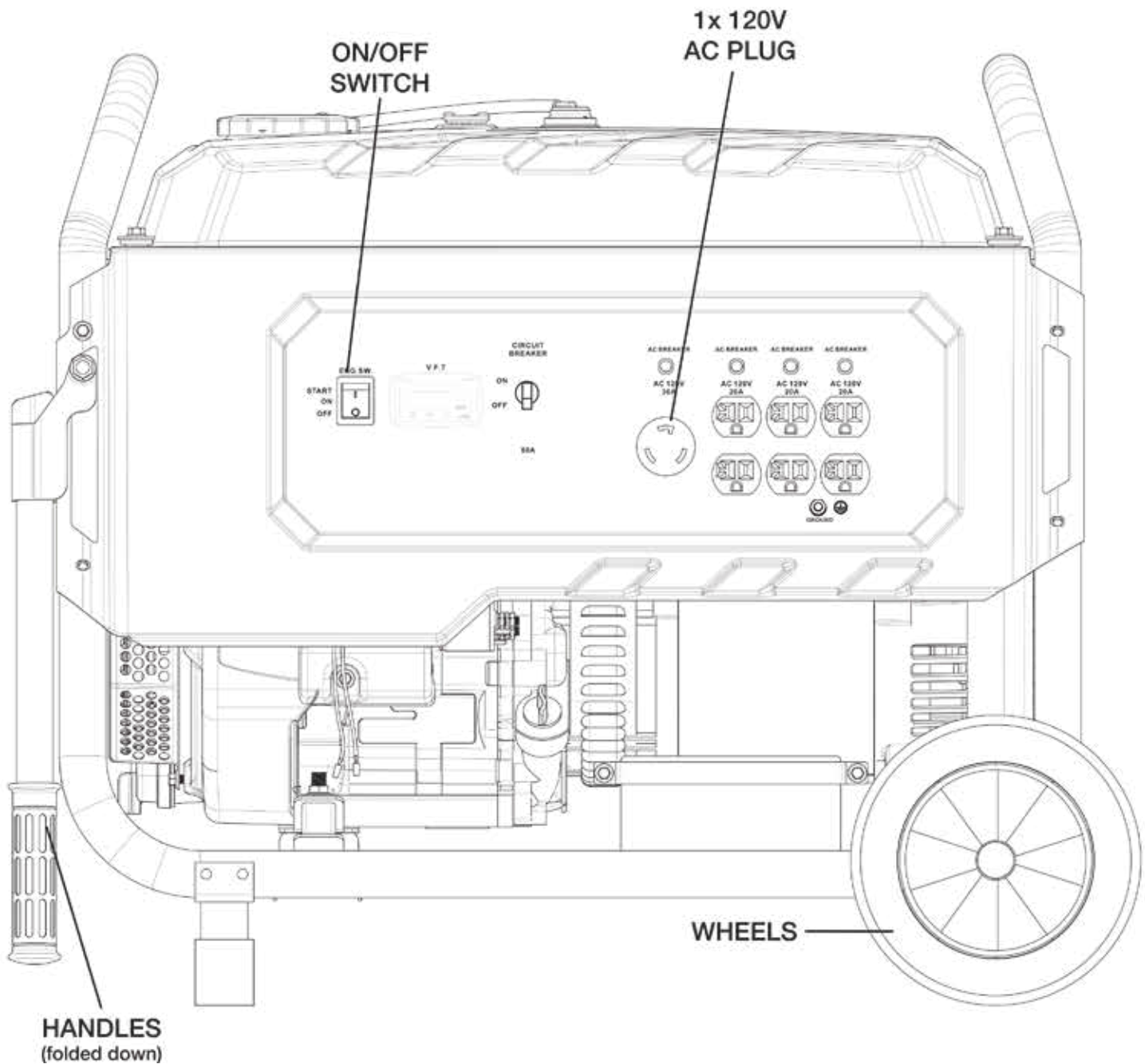
CONTROLS AND FEATURES ES5700



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CONTROLS AND FEATURES ES6600E



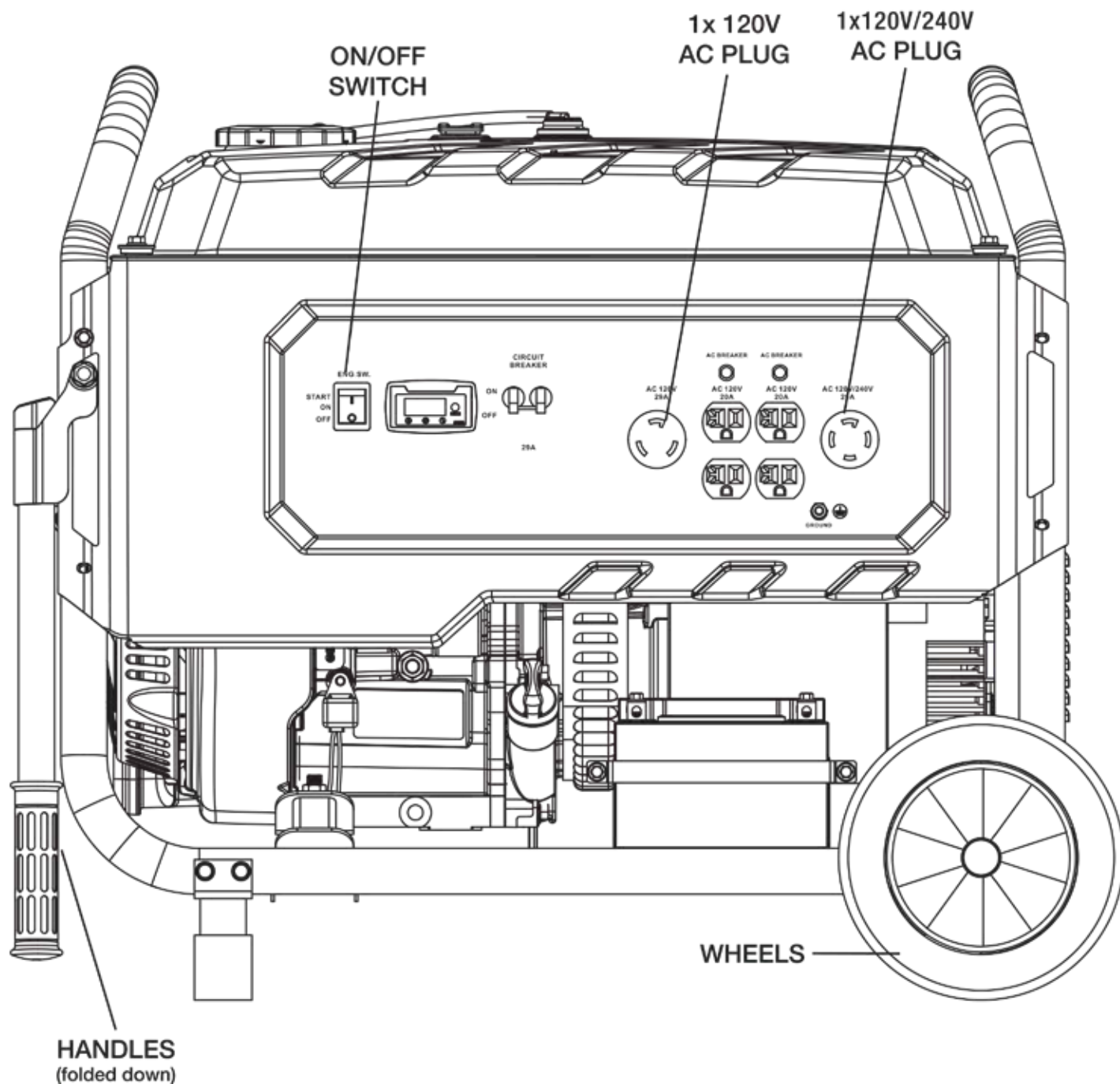


ENERGY STORM

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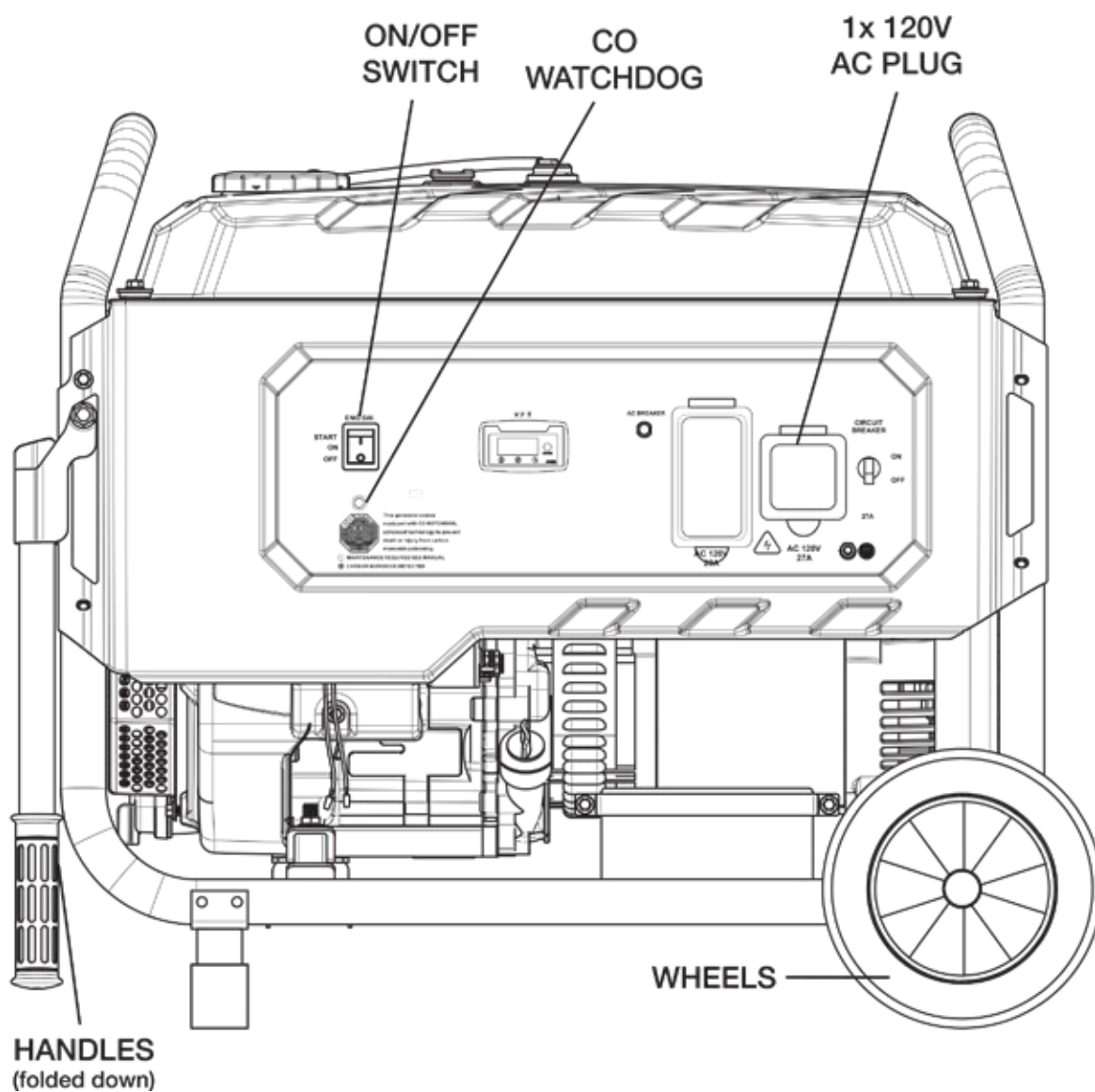
CONTROLS AND FEATURES

ES8100E ES8150E-CA



ENERGY STORM

CONTROLS AND FEATURES PG4375E-CA

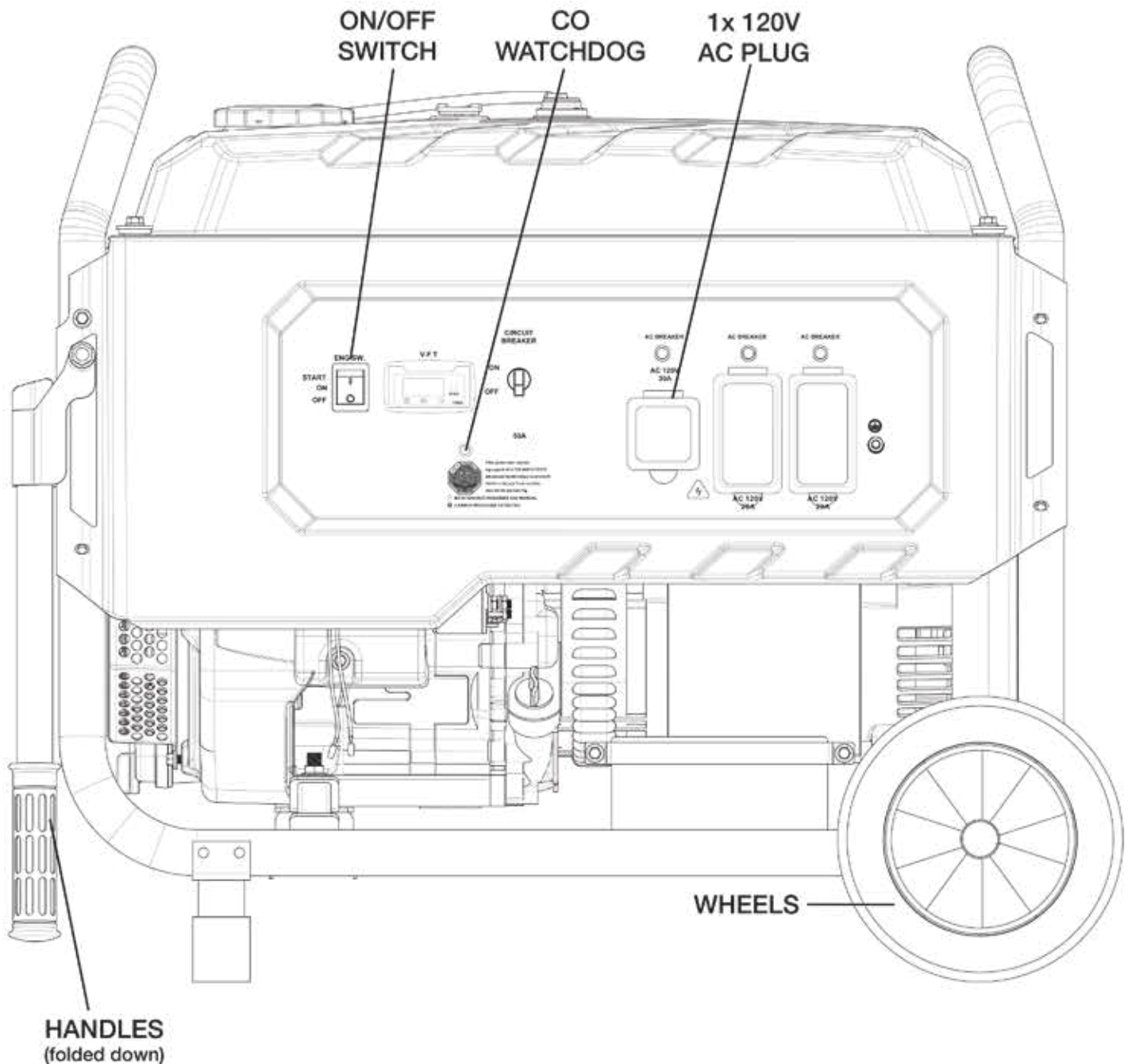




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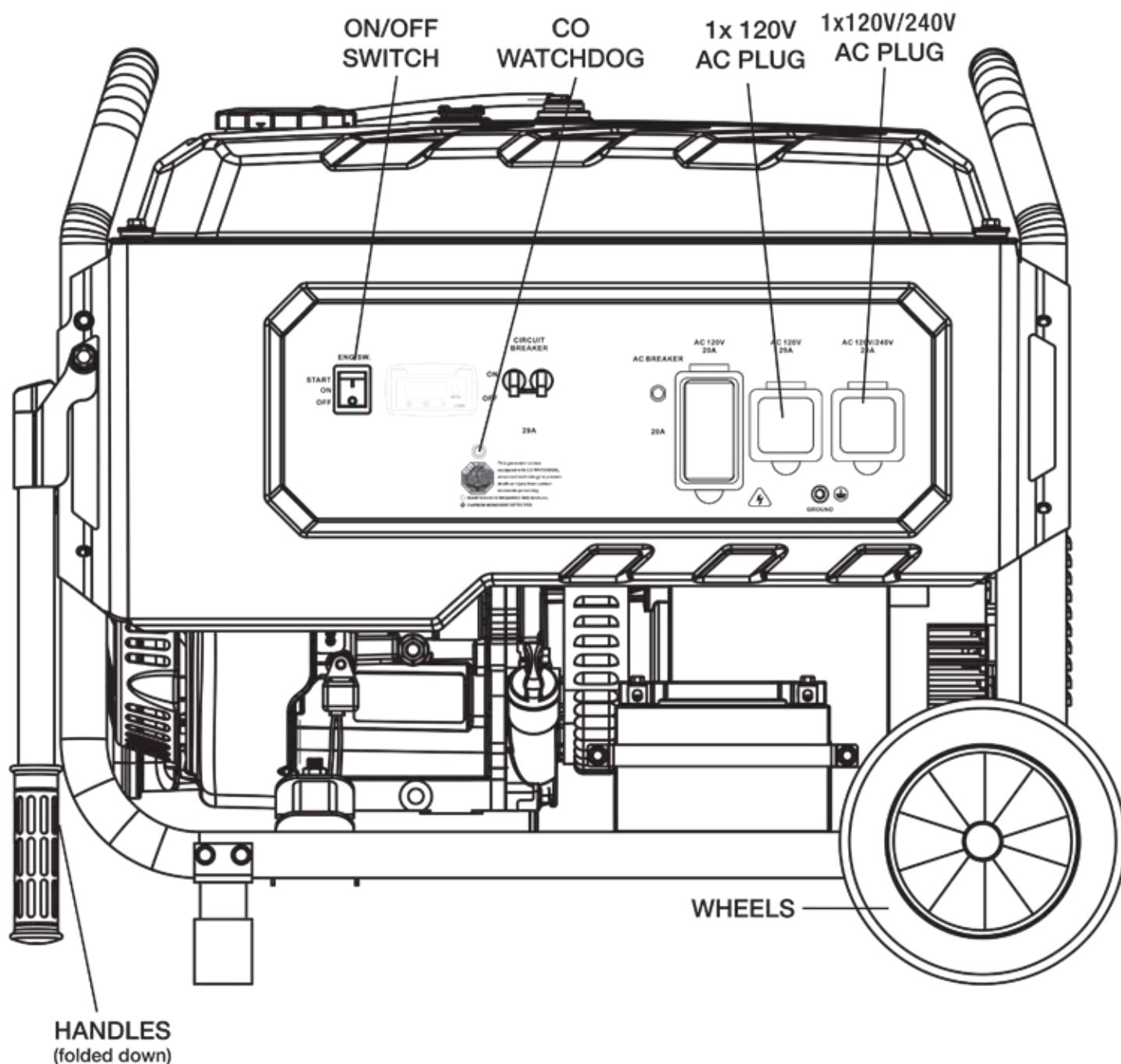
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CONTROLS AND FEATURES PG8250E-CA



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CONTROLS AND FEATURES PG9625E-CA



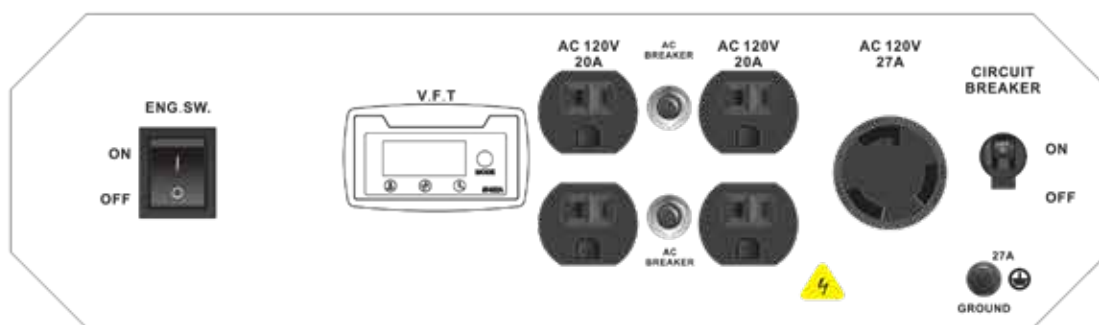


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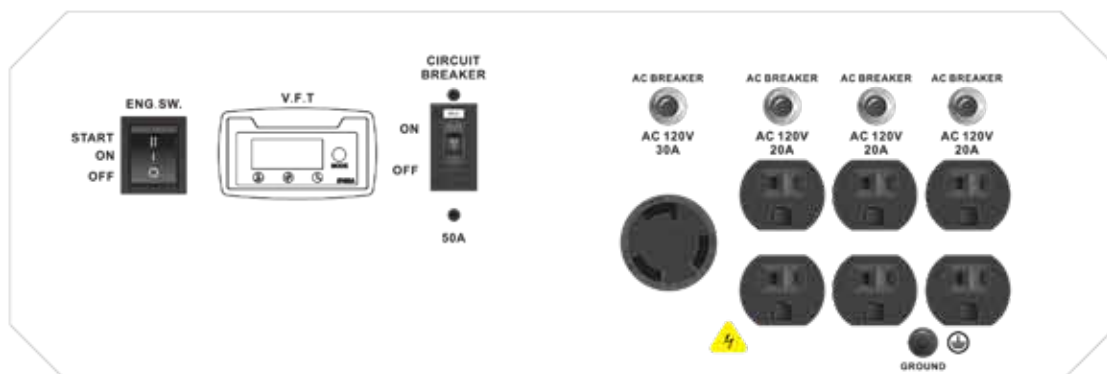
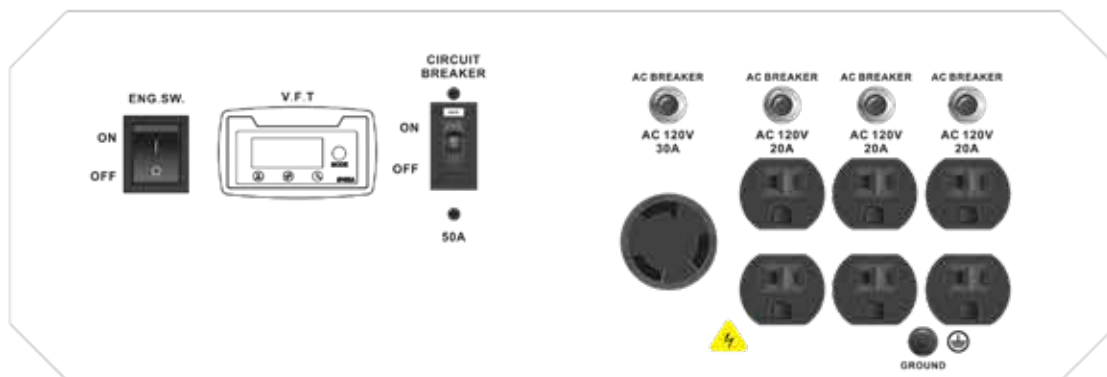
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CONTROLS AND FEATURES

ES4100/ES4150-CA



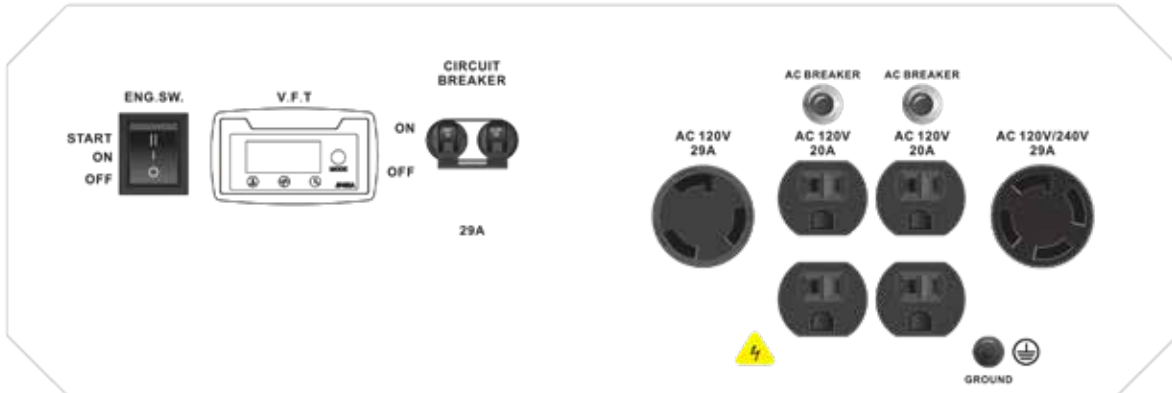
ES5700/ES6600E



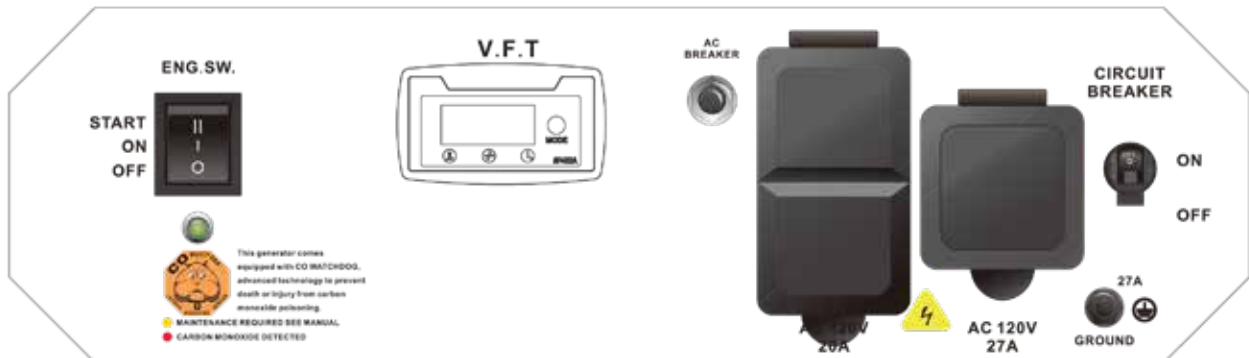
ENERGY STORM

CONTROLS AND FEATURES

ES8100E/ES8150E-CA



PG4375E-CA





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CONTROLS AND FEATURES

PG8250E-CA



PG9625E-CA





ENERGY STORM

LEGEND

Fuel Level Sensor - Displays current fuel level

Fuel Tank Cap - Vented fuel cap must be properly installed at all times during operation

Receptacle Panel - see product specifications for individual model

Double Pole Circuit Breaker (AC) - protects receptacles & generator from overload

Crankcase Oil Dipstick / Oil Fill Hole Cap - check/fill engine oil

On / Off Switch - rocker style; set to "ON" to start engine and "OFF" to shut off engine

Crankcase Oil Drain Plug - remove to drain oil from crankcase

Recoil Starting Handle - pull handle to rotate engine for starting

Fuel Cock (Valve) - turn to "OFF" to terminate fuel delivery to engine

Air Cleaner - check maintenance schedule for service intervals

Earth Grounding Stud - always connect generator to an earth grounding source. Consult local energy jurisdiction for code requirements in your area

Muffler & Muffler Hood - exhaust muffler emits combustion gas from engine and lowers noise level of generator

Valve Cover - cover for overhead valves designed to be removed periodically for valve adjustments

All Lifan Power USA Energy Storm Generators are equipped with Automatic Voltage Regulators to ensure maximum protection for your appliances as well as your generator. By regulating the level of voltage in an alternating current (AC) system to a narrower range of output, the AVR protects any parts of your systems that might be damaged by surges or drops in voltage or power, particularly during the start-up of your appliances when the maximum voltage and power are required. The AVR ensures a constant quality and quantity of voltage is supplied to protect the appliances and the system. All Energy Storm Generators are equipped with AVR to get maximum performance and power from your unit.

AUTOMATIC VOLTAGE REGULATOR



ENERGY STORM™

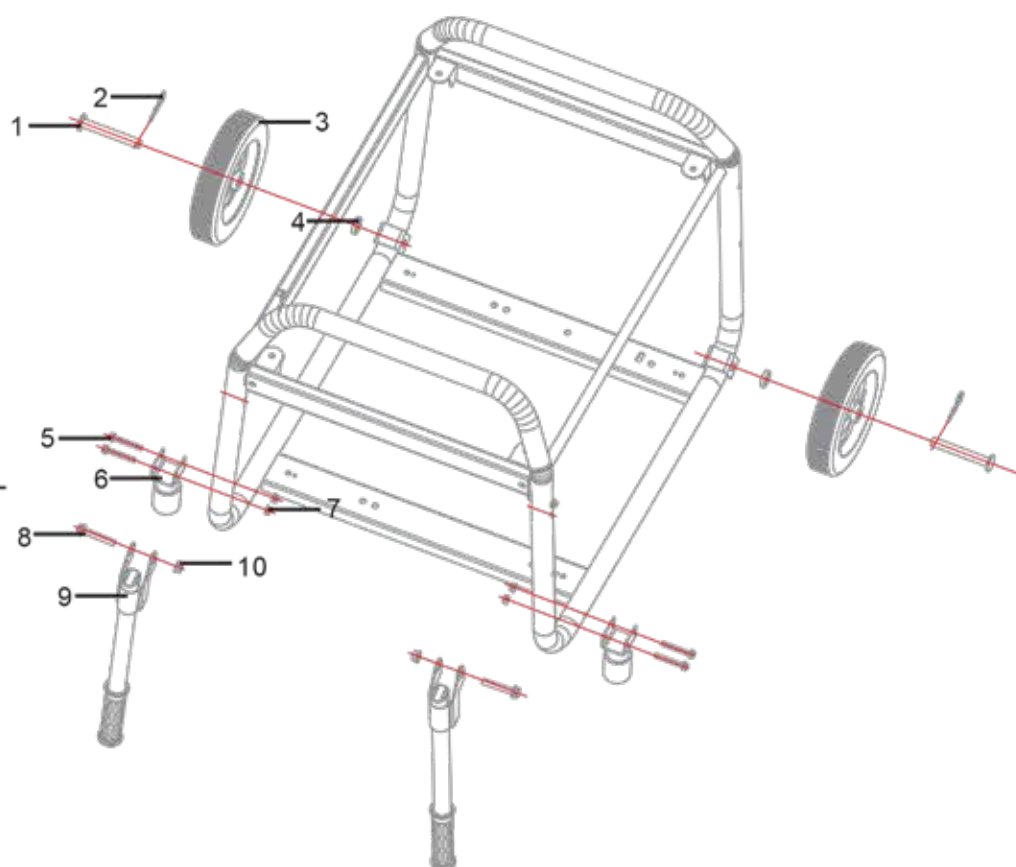
PRE-OPERATING INSTRUCTIONS

WHEEL KIT ASSEMBLY FOR ES4100/ES4150-CA ES5700/ES6600E/ES8100E/ES8150E-CA PG4375E-CA/PG8250E-CA/PG9625E-CA

WHEEL KIT INSTALLATION

The Following Tools are needed to Install Wheel Kit:

- Safety Glasses
- 6mm-10mm Wrench Set
- 8mm-13mm Wrench Set
- Glove



Wheel Kit Installation Directions:

NOTE: Install Wheel Kit BEFORE Filling the Generator with Fuel or Oil. Never Tip a Unit that contains Fuel or Oil.

1. Tip Generator so Engine End is up.
2. Place the Support Legs under the Frame Brace.

3. Secure with the provided Cap Screws and Hex Nuts. Securely tighten using Ratchet and Socket.
4. Tip the Alternator End of the Generator up.
5. Slide Axle through both Mounting Brackets.
6. Place a Wheel on both Sides as shown in diagram.
7. Securely Tighten Wheel axle with pins.

ENERGY STORM

PRE-OPERATING INSTRUCTIONS BATTERY SPECIFICATIONS

(Electric Start (E) Models Only)

The Battery is NOT included with your Energy Storm Generator. These units require an Acid Cell Battery. This battery is used in many applications, such as lawnmowers, ATV's, motorcycles, etc. and can be found at many retailers and dealers including where you purchased this Power Equipment Product. Use the "Battery Specifications" chart below to attain the specifications of the necessary battery. Or use the "Cross Reference Models" chart below to match up with the manufacturer's model number with the brand battery available at your local retailer.

BATTERY SPECIFICATIONS			
Generator Model	Length×Width×Height(inches)	Amp (hours)	DC Voltage (volts)
ES4100E/ES4150E-CA/ PG4375E-CA	5.56×2.76×5.24in.	10	12V
ES6600E/ES8100E ES8150E-CA/ PG8250E-CA/ PG9625E-CA	6.1×3.27×6.5in.	12	12V

CROSS REFERENCE MODELS		
Generator Model	Manufacturer	Model Number
ES4100E/ES4150E-CA/PG4375E-CA	Super Start*	CB9B
ES6600E/ES8100E/ES8150E-CA/ PG8250E-CA/PG9625E-CA	Exide*	12N12A-4A-1



WARNING

Follow all the battery manufacturers' warnings for proper installation of your battery in order to prevent damage to personnel or equipment.

1. Battery leads consist of a Red (hot) lead that connects to the (+) battery post and is connected to the (+) terminal on the starter solenoid and a Black lead which is connected to the (-) negative battery terminal and the frame mounting bolt.
2. Connect the Red (hot) terminal to the battery.
3. Connect the Black (negative) terminal to the battery.



ENERGY STORM

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PRE-OPERATING INSTRUCTIONS: SETUP



WARNING



Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death.

WHEN ADDING FUEL

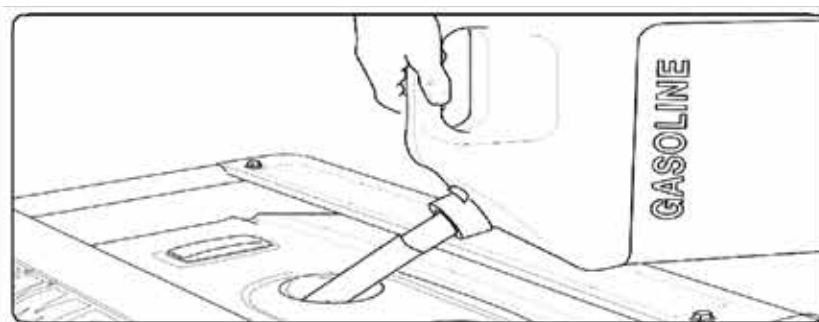
Turn generator off and let it cool for a minimum of three minutes before removing fuel cap.

Turn and remove cap slowly in order to relieve residual tank pressure.

Always fill the fuel tank with the unit outdoors.

DO NOT overfill tank. Allow room for fuel expansion.

Keep fuel away from sparks, open flames, heat, pilot lights, and other ignition sources.



ADD FUEL:

Refer to Controls and Features section for diagrams.

1. Clean area around fuel cap, then remove fuel cap.
2. Pour fresh, clean regular automotive grade unleaded fuel with a minimum octane rating of 85 into fuel tank. Do NOT mix fuel with oil. Fuel must have ethanol blend of 10% or less. Pay close attention to the storage requirements of these fuels. Do NOT overfill fuel tank.
3. Install the fuel cap. Rotate the fuel cap clockwise until it is in its locked position. Wipe away any spilled fuel.

ENERGY STORM

PRE-OPERATING INSTRUCTIONS: SETUP

BOX CONTENTS:

- Generator
- Accessory Kit
 - › 1 ea. - Spark Plug Removal Tool
 - › 1 ea. - Nema14-30 Male Twist Lock Plug
- Owner's Manual and Warranty Card
- Wheel Kit (ES-5700/6600E/8100E/8150E
PG-4375E/8250E/9625E only)
 - › 2 ea. - Never-Go-Flat Foam Filled Wheels
 - › 2 ea. - Heavy Duty Leg Supports
(Shipped Stored Under Fuel Tank)
 - › 2 ea. - Axle
 - › 2 ea. - Handle
 - › Hardware Bag

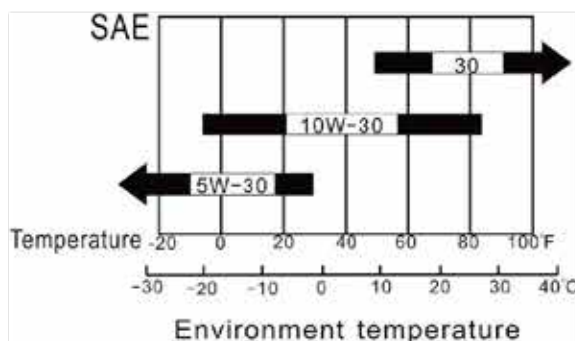
CAUTION: Any attempt to start the generator before it has been properly serviced may result in engine failure and void warranty.

ADD ENGINE OIL: Refer to the diagram below.

1. Place generator on level surface.
2. Clean area around Oil Hole Dipstick/Plug & Unscrew Oil Hole Dipstick/Plug.
3. Fill with appropriate type and amount. Refer to Chart for recommended oil type based on Environmental temperature.

NOTE: Refer to "Product Specifications" section for universal recommended oil type and oil amount.

4. Replace Oil Hole Dipstick/Plug and tighten securely.





ENERGY STORM

PRE-OPERATING INSTRUCTIONS: SETUP

WHEN ADDING FUEL

Turn generator off and let it cool for a minimum of three minutes before removing fuel cap.

Turn and remove cap slowly in order to relieve residual tank pressure.

Always fill the fuel tank with the unit outdoors.

DO NOT overfill tank. Allow room for fuel expansion.

Keep fuel away from sparks, open flames, heat, pilot lights, and other ignition sources.

ADD FUEL: Refer to Controls and Features section for diagrams.

1. Clean area around fuel cap, then remove fuel cap.
2. Pour fresh, clean regular automotive grade unleaded fuel with a minimum octane rating of 87 into fuel tank. Do NOT mix fuel with oil. Fuel must have ethanol blend of 10% or less. Pay close attention to the storage requirements of these fuels. Do NOT overfill fuel tank.
3. Install the fuel cap. Rotate the fuel cap clockwise until it is in its locked position. Wipe away any spilled fuel.

CAUTION: Alcohol-blended fuels (gasohol, ethanol, or methanol) will attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be treated with a fuel stabilizer or drained if the generator will not be started for thirty (30) days. If using a fuel stabilizer, follow the manufacturer's recommended instructions for use.

Always drain old fuel and use fresh fuel before next use. If you do not use a fuel stabilizer, the fuel system must be drained and cleaned. Drain the fuel tank and start the engine, allowing it to run until all fuel lines and carburetor are drained of fuel.

Before restarting the carburetor the float bowl must be removed and cleaned of any debris.

NEVER use chemical solvents or cleaners in the fuel tank or damage may occur.

CHECK AIR CLEANER ELEMENT:

Refer to "Air Cleaner Maintenance" in the Maintenance section of this Owner's Manual to ensure Air Cleaner Element is in operable condition.

GROUNDING THE GENERATOR:

Refer to Controls and Features section.

Connect the Ground Terminal on the generator to an acceptable source of electrical ground, such as a copper-grounding stake, using copper electrical wire with a minimum diameter of 16 gauges.

ENERGY STORM

OPERATING YOUR GENERATOR



WARNING

Running generator emits **carbon monoxide**: an odorless, colorless, **poisonous gas**. Breathing carbon monoxide can cause **nausea or death!**



CAUTION



Never start or shut off the generator with electrical loads connected and in the operational mode. Starting or shutting off the generator with electrical loads activated may result in damage to the generator.

1. Unplug all electrical loads from the generator.
2. Make sure the generator is in a level position.
3. Open the fuel cock by turning the fuel cock to the "ON" position.
4. For cold engine starts only: Push the choke lever to the engaged position per the instruction label on the generator main frame.
5. Place the On/Off switch in the "ON" (I) position.
6. Grasp starter handle and pull slowly until resistance is felt. Then pull the cord rapidly with a full arm stroke. Allow the rope to return slowly. Do NOT allow the rope to snap back against housing.
7. Once the engine runs for 3-5 seconds, push the choke lever in to disengage.



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OPERATING YOUR GENERATOR

CONNECTING ELECTRICAL LOADS:

1. Ensure engine is started before plugging in any electrical appliance.
2. Plug in desired 120 Volt loads to the 120 Volt U-Ground and 240 Volt loads to the 240 Volt receptacles on the LF8000E model. Always plug appliances into the generator with appliance in its "OFF" position.
3. Do NOT connect 240 Volt loads to the 120 Volt receptacles.
4. Only connects single-phase 60 Hertz loads.
5. **DO NOT OVERLOAD THE GENERATOR. FOLLOW THE PROVIDED "GENERATOR WATTAGE REFERENCE WORKSHEET" TO DETERMINE THE RUNNING AND STARTING WATTAGE OF YOUR EQUIPMENT REFER TO THE PRODUCT SPECIFICATIONS TO ENSURE YOUR GENERATOR WILL OPERATE THE DESIRED EQUIPMENT.**

NOTE: Use the running and starting wattage provided by the equipment manufacturer if available. If not available, use provided "Generator Wattage Reference Worksheet."

LOW OIL ALARM SYSTEM:

This model is equipped with a Low Oil Alert System designed to avoid engine damage from insufficient oil in the crankcase. The Low Oil Alarm System will stop the engine automatically before the oil level in the crankcase drops below safe operating levels.

STOPPING THE GENERATOR:

Refer to Controls and Features section for diagram.

EMERGENCY SHUTDOWN

1. Turn the Fuel Valve to "OFF" position

NORMAL SHUTDOWN

1. Unplug all electrical loads or turn the main breaker to the "OFF" position.
2. In order to stabilize internal equipment temperatures, allow the engine to run for 3-5 minutes under no load.
3. If the generator will not be in use for more than 7 days, turn the fuel valve to the "OFF" position and allow the unit to run until the fuel in the carburetor is used and the engine shuts itself off.
4. Turn the ignition switch to the "OFF" position.
5. Allow unit to cool to ambient temperature before storage or transportation.
6. Always transport the generator with the fuel valve in the "OFF" position. Failure to do so will result in damage to the engine.

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WARNING



WARNING

- To prevent electrical shock from faulty appliances, the generator should be grounded. Connect a length of heavy cable between the generator's grounding terminal and an external ground source.
- This generator is not intended, nor designed, for use as a standby power supply, or to be connected to an automatic transfer switch (ATS); it should never be used as such. Severe property damage and/or severe personal injury or death may result. Such back feed may electrocute utility company workers or others who contact the lines during a power outage. When utility power is restored the generator may explode, burn, or cause fires in the building's electrical system.

- Indoor use of a generator can kill quickly. Generators should be used outdoors only.



CAUTION

- The total wattage of all appliances connected must be considered.
- Do not exceed the current limit specified for any one receptacle.
- Do not connect the generator to a household circuit. This could cause damage to the generator or to electrical appliances in the house.
- Do not modify or use the generator for purposes other than its intended use.
- Do not connect an extension to the exhaust pipe.
- When an extension cord is required, be sure to use a rubber sheathed flexible cord. Also be sure to use the proper size and length cord.
 - 16 Gauge Cords - a 16 gauge cord between 0 and 100 feet long will safely handle tool and appliance loads up to 10 amps.
 - 14 Gauge Cords - a 14 gauge cord between 0 and 50 feet long will safely handle tool and appliance loads between 10 and 15 amps.
 - 12 Gauge Cords - a 12 gauge cord between 50 and 100 feet will safely handle tool and appliance loads between 10 and 15 amps.



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WARNING

Only operate generator outdoors.

Prevent exhaust gas from entering, through windows doors or ventilation intakes, any confined areas.

DO NOT operate generator inside any enclosed or roofed areas. This includes the generator compartment of any recreational vehicle (RV).

Keep the generator away from other electric cables or wires such as commercial power supply lines.

The DC receptacle (in the Battery Charge section of the control panel) can be used while the AC power is in use. If you use both at the same time, be sure not to exceed the total power for AC and DC.

- Most appliance motors require more than their rated wattage for start-up.
- It is normal for the run time indicator to have 1-2 hours on the meter from the factory for testing and quality assurance inspections.
- This generator uses a system ground which connects the ground terminals in the AC receptacles on the control panel to the unit frame. The AC neutral wire is not connected to the system ground. If you check the receptacles on this generator with a receptacle tester, the ground circuit condition will appear different than it would for a receptacle in your home.



CAUTION

Never start or shutoff the generator with electrical loads connected and in the operational mode (on switch activated).

1. Unplug all electrical loads from the generator.
2. Make sure the generator is in a level position.

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CO Watchdog for PG4375E-CA/ PG8250E-CA/PG9625E-CA only

The CO Watchdog technology monitors the accumulation of poisonous Carbon Monoxide (CO) gas produced by engine exhaust when the generator is running. If CO Watchdog detects elevated levels of CO gas, it automatically shuts off the engine. Generators are intended to be used outdoors, far away from occupied buildings and exhaust pointed away from people and buildings.

If misused and operated in a location that results in the accumulation of CO inside an enclosed or partially enclosed space, for example a house, garage or a garage with the door partially open, CO Watchdog will automatically shut off the generator and then illuminate a red LED. Read operator's manual for more information.

CO WATCHDOG IS NOT A SUBSTITUTE FOR AN INDOOR CARBON MONOXIDE ALARM.

⚠ DANGER	
Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.	
 NEVER use inside a home or garage, EVEN IF doors and windows are open.	 Only use OUTSIDE and far away from windows, doors, and vents.
Avoid other generator hazards. READ MANUAL BEFORE USE.	



ENERGY STORM

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OPERATING YOUR GENERATOR

TRANSFER SWITCH CONNECTIONS - Only allow Professional Electricians

The Energy Storm generator is wired with the neutral bonded to ground. If you are connecting your generator to a transfer switch, the electrician must first determine what type transfer switch is being used. Transfer switches for this equipment are either two-pole or three-pole types.

A two-pole transfer switch will not switch the neutral from the generator to the service panel. That means the generator will be grounded to the service panel. To use the generator with two-pole transfer switches, the electrician will need to change the neutral from bonded to floating.

This is done by removing the jumper wire that connects the alternator ground to the alternator neutral. Remove the jumper wire and retighten the connections. Keep the jumper wire with the owner's manual in case it is needed for future use when not connected to a transfer switch.

ENERGY STORM™

HIGH ALTITUDE KIT REPLACEMENT FOR EPAIII ENGINES 3000-6000ft. / 6000-8000ft. of elevation

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

The fuel system on this engine/equipment may be influenced by operation at higher altitudes. Proper operation can be ensured by installing an altitude kit when required. See the table below to determine when an altitude kit is required. Operating this engine/equipment without the proper altitude kit installed may increase the engine's emissions and decrease fuel economy and performance. Kits may be obtained from any dealer, and should be installed by a qualified individual.

Equipment *	Fuel	Altitude Range**	Kit Part Number
Equipment with engines above 80cc	Gasoline	0 – 3000 ft	Not Required
		3000 – 6000 ft	Altitude kit 1#
		6000 – 8000 ft	Altitude kit 2#
* Engine, Generator Set, Pressure Washer, Walk-Behind Lawnmower, Compressor, Pump, Tiller etc.			
** Elevation above sea level.			

- This high altitude jet is to be used at elevations above 3000 feet.
- At elevations above 8000 feet, the engine/equipment may experience decreased performance, even with the high altitude kit.
- If a carburetor is replaced, the proper high altitude kit jet will need to be installed into the replacement carburetor.



WARNING! To prevent serious injury from fire: Follow the kit procedures in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before proceeding.

NOTICE: The warranty may be void if necessary adjustments are not made for high altitude use.



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STORING THE UNIT

STORAGE

Before long term storage of your power equipment product, typically 30 days or more, perform the following:

1. Set the fuel cock (valve) to the "OFF" position.
2. Let the unit continue to run until it stops itself, burning all of the fuel in the fuel system.
3. Turn the ignition switch to the "OFF" position.
4. Drain the engine oil in accordance with the "Oil Change Procedures" in this Owner's Manual's Maintenance section. Do NOT re-fill with oil until ready to use again.
5. Remove the Spark Plug in accordance with the "Spark Plug Maintenance" in the Owner's Manual's Maintenance section. Spray a lubricant, such as WD40®, into the Spark Plug hole to lubricate the top of the piston and walls of the cylinder. Replace the Spark Plug.
6. Pull starter rope until resistance is felt. This will place the valves in the closed position.
7. Add the recommended amount of fuel stabilizer, in accordance with the amount recommended by the manufacturer of the fuel stabilizer, to the unused gasoline left in the fuel tank.
8. Place the unit in a clean, dry, and secure location.
9. Cover with "Energy Storm Water Proof Generator Cover," (Item Number LF100-69600 not included) or canvas/vinyl tarpaulin. **Do NOT operate unit with cover installed.**

ENERGY STORM

MAINTENANCE

NOTE: Refer to Following Procedures for Proper Method to Perform Maintenance

MAINTENANCE SCHEDULE	
PROCEDURE	TIME
Engine Oil Check	Each Use
Replace Engine Oil	After Each 40 Hours of use (for initial break-in - after first 10 hours of use)
Air Cleaner Filter Check	Each Use
Air Cleaner Filter Replacement	When Needed or After Every 50 Hours of Use
Air Cleaner Wash	When Needed
Spark Plug	When necessary or within 100 hours of run time
Valve Clearance	Check & re-adjust annually or after 300 hours of use
Fuel Tank	Replace every 3 years based on condition

OIL CHANGE PROCEDURES: Refer to Controls and Feature section for diagram. **Periodic Maintenance of your engine oil should be performed after each 40 hours of use of you Power Equipment Product. Check your engine oil level prior to each use.**

1. Start your engine and let it warm up to get the oil warm and thinner. Turn the engine On/Off switch to the "OFF" position. Turn Fuel Valve to the "OFF" position.
2. Remove the oil cap/dipstick by turning counter clockwise. Remove the oil drain plug located below the oil cap/dipstick utilizing the appropriate tools.

USE CAUTION: THE OIL MAY BE HOT.

3. Drain the engine oil into an approved receptacle and discard in accordance with all Federal and State Regulations. Never dump the used engine oil on the ground or into drains, only discard in an approved manner. Check with your local authorities to determine the regulations in your area.



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MAINTENANCE

WARNING! AVOID SPLASHING OF HOT OIL; IT CAN BURN YOU AND CAUSE SEVERE INJURY.

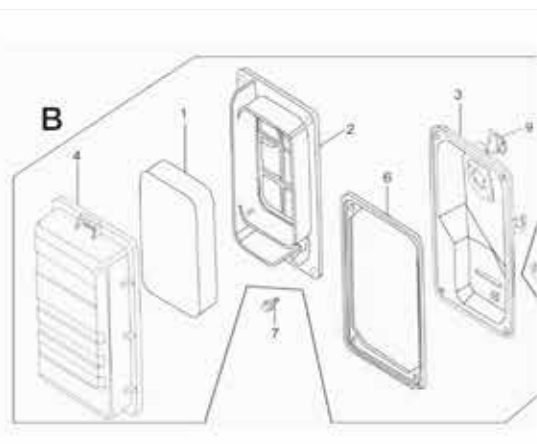
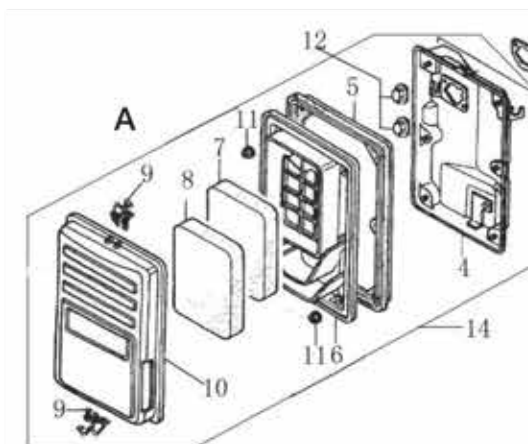
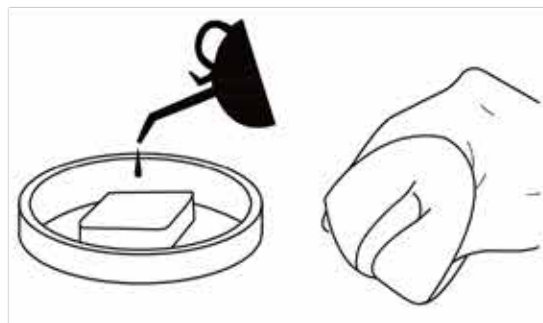
4. After oil is completely drained, replace oil drain plug and tighten with appropriate tools.
Replace oil with the proper oil for your product. Refer to the Pre-Operating Instruction: Generator Setup section for exact fill requirements.
Always use your dipstick to check the oil level and only fill to the full mark on the dipstick.
Never overfill the engine as this can cause damage to the unit and void warranty.
5. Replace the dipstick/oil cap on the engine.
6. Shake generator to ensure the float in the Oil Alert System is free.

PROPER MAINTENANCE OF THE UNIT WILL INCREASE THE LIFE OF YOUR PRODUCT. THE OIL MUST BE CHANGED ON A REGULAR BASIS FOR PROPER OPERATION, AND RELIABILITY AND TO ALSO MAINTAIN THE WARRANTY ON THIS PRODUCT.

AIR CLEANER MAINTENANCE:

1. Remove the clip (item 9 in "Air Cleaner A" below) or the wing nut (item 7 in "Air Cleaner B" below) to remove and check the air filter element.
2. For Sponge Type Air Filters, wash with soap and water when contaminated. Squeeze excess liquid from air filter element, and allow the air filter element to dry. Lubricate with a few drops of oil.

For Paper Type Air Filters, replace with the correct Air Filter for your unit. They are available at your dealer or from LIFAN Power USA. Order your filter by calling toll free 866-471-7464.



3. Re-Install the air filter element into the air filters housing.

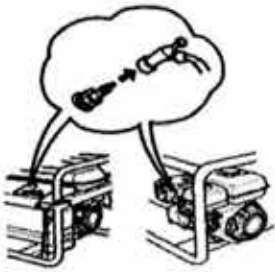
ENERGY STORM

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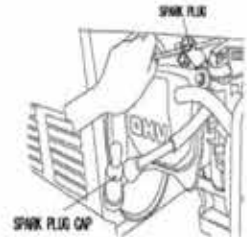
MAINTENANCE

SPARK PLUG MAINTENANCE

1. Remove Spark Plug Cap (refer to “Spark Plug Cap Removal” figure below.)
2. Remove Spark Plug with socket and handle supplied with your unit (refer to “Spark Plug Removal” figure below.)
3. Clean any carbon build-up around the Spark Plug.
4. Check the Spark Plug Gap and adjust if necessary. 0.30-inch gap.
5. Lubricate the threads of the Spark Plug with anti-seize compound or engine oil.
6. Re-install the Spark Plug and Spark Plug Cap.



Spark Plug Cap Removal



Spark Plug Removal

FUEL SYSTEM MAINTENANCE:

NOTE: Periodically you can get sediment or trash in your Carburetor Bowl. Use the following procedures to clean:

1. Turn the fuel cock (valve) to the “OFF” Position.
2. Remove the carburetor bowl by removing the mounting bolt located at the bottom of the bowl.
3. Dump out the old fuel and sediment into an approved container and clean carburetor bowl thoroughly.



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TROUBLESHOOTING

IF THE ENGINE WILL NOT START:

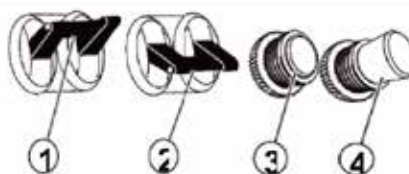
1. Check to ensure switches are in the "ON" position. (Both unit and engine)
2. Check engine oil level. Your unit possesses a Low Oil Alarm System that will not allow your engine to start if the oil is below safe operating levels. This feature is installed to increase the life of your engine and prevent engine damage. If oil level is low, fill to the full mark on dipstick. Refer to the Product Specifications for exact oil type and amounts.
3. Check the fuel level to insure adequate fuel. Add fuel if necessary.
4. Remove and inspect the spark plug for cleanliness and proper electrode gap. If needed, clean or replace the spark plug. Refer to Spark Plug Maintenance in the Maintenance section of the Owner's Manual for proper procedure.
5. If your unit will still NOT start after performing the above checks, call our customer hotline at LIFAN Power USA Toll Free 1-866-471-7464 OPTION 2.

NOTE: Periodically on the initial start-up or after the unit has been stored for a long period of time, the float for the "Low Oil Alarm System" will stick to the bottom of your oil pan. Locate the two (2) wires to the Low Oil Sensor Diode (refer to figure on the right) located on the side of the engine block. Unplug these wires and, only after ensuring the engine is full of oil, start the engine and allow to run until warm (normally 20 minutes, as this will heat the oil and release the float on the Low Oil Alert System). Then re-plug the wires to the terminals on the Low Oil Alarm Sending Unit.



UNIT DOES NOT PROVIDE ELECTRICAL CURRENT:

1. Plug in a small appliance or tool to test.
2. Check if the AC (or DC) Circuit Breaker is in the "ON" position. If not, place in "ON" position. If equipped with a GFCI receptacle, re-set GFCI Breaker by pushing in the reset button in the middle of the GFCI's faceplate (this must be done with the engine running).
3. If your unit still does NOT produce electricity after performing the previous checks, call LIFAN Power USA at 1-866-471-7464, OPTION 2.



1.On 2.Off/Tripped 3.On 4.Off

ENERGY STORM

GENERATOR SAFETY

1. Never operate gasoline engine powered products in any enclosed spaces, as they produce deadly Carbon Monoxide Poisonous Gases.
2. Never hook a generator directly to your home circuit without the proper installation by a Licensed Electrician and without the proper power transfer devices.
3. Do NOT operate your power equipment in inclement weather such as rain, snow, and/or sleet.
4. Do NOT operate your power equipment within five (5) feet of any flammable materials.
5. When refueling the power equipment never smoke or refuel near any flame or ignition devices. Never refuel while the unit is running. If during the refueling process some fuel is spilled, always completely clean the fuel and allow sufficient drying time prior to re-starting the unit. Gasoline vapors ignite easily and are very dangerous.
6. Do NOT parallel connect this model. Generator cannot be combined with other electric wires or multiple socket boxes.
7. Do NOT lengthen the exhaust pipe or vent it with any extension.
8. Use SJ or SJO type extension cords if necessary.
9. Do not use extension cords exceeding: 16 Gauge, 200ft or 10 Gauge, 330ft.
10. NEVER ALLOW CHILDREN OR ANIMALS TO BE NEAR THIS EQUIPMENT DURING OPERATION. ONLY QUALIFIED PERSONS SHOULD OPERATE THIS EQUIPMENT. FOLLOW ALL GUIDELINES CONTAINED IN THIS OWNER'S MANUAL FOR THE SAFE OPERATION OF THIS EQUIPMENT.



DANGER

Using a generator inside CAN KILL YOU IN MINUTES

Generator exhaust contains carbon monoxide. This is a poison that you cannot see or smell.



NEVER use inside a home or garage, EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors and vents.



DANGER

El uso de un generador en el interior PUEDE MATARLO EN POCOS MINUTOS.

El escape del generador contiene monóxido de carbono. Esto es tóxico y do debe verio u olerio.



NUNCA utilice dentro de una casa o un garaje, AÚN cuando las ventanas y las puertas estén abiertas



Utilice únicamente en el EXTERIOR y lejos de ventanas, puertas o rejillas de ventilación.



DANGER

L'utilisation d'une génératrice à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES.

Les gaz d'échappement de la génératrice peuvent contenir du monoxyde de carbone, un poison que vous ne pouvez pas voir ni sentir.



NE JAMAIS utiliser a l'intérieur d'une maison ou d'un garage, MEME SI les portes et fenêtres sont ouvertes.



Utiliser uniquement à l' EXTERIEUR et loin des fenêtres, portes et ouvertures d'aération.



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WATTAGE CHART

	RUNNING WATTAGE REQUIREMENTS	ADDITIONAL STARTING WATTAGE REQUIREMENTS
HEATING/COOLING:		
Furnace Fan, gas or fuel oil furnace		
1/8 horsepower	300	500
1/6 horsepower	500	750
1/4 horsepower	600	1000
2/5 horsepower	700	1400
3/5 horsepower	875	2350
Central Air Conditioner		
10,000 BTU	1500	2200
20,000 BTU	2500	3300
24,000 BTU	3800	4950
32,000 BTU	5000	6500
40,000 BTU	6000	6700
HEATING/COOLING:		SUB-TOTAL:
KITCHEN		
Refrigerator, Average	600	2200
Dish Washer - Cool Dry	700	1400
Dish Washer - Hot Dry	1450	1400
Clothes Dryer - Gas	700	1800
Clothes Dryer - Electric	5750	1800
Microwave Oven, 750W	750	800



ENERGY STORM

WATTAGE CHART

Washing Machine	750	2300
Coffee Maker	850	0
Toaster 2-slice	1100	0
Toaster 4-slice	1650	0
Electric Skillet	1500	0
Electric Range 6-in. element	1500	0
Electric Range 8-in. element	2100	0
KITCHEN		SUB-TOTAL:
APPLIANCES		
Lights- Wattage	Actual:	
VCR	50	0
Heating Pad	65	0
Radio	100	0
Television - Black & White	100	0
Television - Color	300	0
Dehumidifier	400	0
Electric Blanket	400	0
Garage Door Opener - 1/4HP	550	1100
Garage Door Opener - 1/3HP	725	1400
Well Pump - 1/3 hp	750	1400
Well Pump - 1/2 hp	1000	2100
Sump Pump - 1/3 hp	800	1300
Sump Pump - 1/2 hp	1050	2150
Vacuum Cleaner - Standard	800	0
Vacuum Cleaner - Deluxe	1100	0



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WATTAGE CHART

APPLIANCES		SUB-TOTAL:
COMMERCIAL PRODUCTS:		
Jigsaw	300	300
Electric Weed Trimmer	500	500
Router	1000	1000
Belt Sander	1000	1000
Disc Sander	1200	1200
Chain Saw	1200	1200
Worm Drive Saw	1560	3100
12" Concrete Cutter	1800	3600
7 1/4" Circular Saw	1500	3000
Disc Grinder	2000	4000
Air Compressor, Average	2000	4000
COMMERCIAL PRODUCTS:		SUB-TOTAL:

ENERGY STORM

CONVERTING AMPS OR HORSEPOWER INTO WATTS

If necessary, use these formulas:

Watts = Amps x Volts

Running Watts* = Horsepower x 932** (for motors)

Remember, this worksheet lists **average power requirements** a particular manufacturer's device may use more or less than the listed wattage.

- Add a 10% correction factor to your totals to help overcome this uncertainty.
If your customer plans to operate devices that use electric motors, list both the starting and running requirements of each.
- Starting requirements of some devices maybe significantly higher than their running requirements. This higher demand must be considered when estimating your power needs. Some small, universal motors — which do not draw a heavy starting load (drills, small saws, blenders, etc.) — require very little extra current for starting.

When listing items that use motors, take them in the order of highest-to-lowest starting requirements, as shown in the example below. Motor A, for instance, has a starting requirement of 2,600 watts, so it's listed first, followed by Motor B at 1,300 watts, and Motor C at 1,000 watts.

MOTOR/ DEVICE	STARTING WATTS	RUNNING WATTS
Motor A	2,600	850
Motor B	1,300	600
Motor C	1,000	750

NO ELECTRIC MOTORS

If your list does not include any devices that use electric motors, simply add the power (running) requirements of all the items on your list to obtain the maximum power needed.

For example, if you intend to use only an electric skillet, a 100-watt light and a heating pad (as shown below), the maximum power requirement would be 1,655 watts. In this case, a generator like the ES4100, that can produce 3,500 watts rated output, is recommended.



ENERGY STORM

LIMITED WARRANTY POLICY

This warranty is limited to the following Lifan Power and Storm Series products that are distributed by the EquipSource LLC, d/b/a LIFAN POWER USA, located at 2205 Industrial Park Road, Van Buren, AR 72956.
Effective date is 1/1/2019.

LENGTH OF WARRANTY

PRODUCTS COVERED	Residential Use**			Commercial/Rental**
	1st Year	2nd Year	3rd Year	Warranty not to exceed 300 hrs. or terms listed below.
Walk Behind Mowers	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 3 months parts & labor
Water Pumps	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 12 months parts & labor
Generators/Inverter Generators	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 12 months parts & labor
Pressure Washer Engines	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 12 months parts & labor
Pressure Washer Pumps*	Full unit parts & labor / 250 hrs.	NA	NA	Full unit: 12 months parts & labor
Gasoline Engines	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 12 months parts & labor
Gasoline Powered Welders	Full unit parts & labor / 250 hrs.	Full unit parts only / 250 hrs.	Engine only	Full unit: 6 months parts & labor

*All Lifan Pressure Pro™ and Storm Series Pressure Storm™ pressure washers are equipped with Annovi Reverberi™ high pressure water pumps which are covered by the manufacturer's 1 year limited warranty. Go to www.lifanpowerusa.com for details.

** Residential Use is defined as items that are for personal use.

*** Commercial/Rental use is defined as any usage for income producing or other business related uses.

In order to qualify for the limited warranty the product(s) must be purchased in North America from an authorized EquipSource, LLC d/b/a Lifan Power USA dealer or a dealer authorized by EquipSource to sell Lifan 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 American Warranty Service (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 and where the purchase was made.

During the warranty period (stated above) EquipSource, LLC and/or American Warranty Service 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 or American Warranty Service at our direction. Upon reception of the parts a judgment as to the validity of the warranty claim will be determined. All parts replaced under warranty or any replacement of the complete unit will be considered part of the original product and replacement of any product, and any warranty on those parts or replacement unit will coincide with the original warranty.

To obtain Warranty Service, call our Customer Service Hotline at 1-866-471-7464 and press 2 for Warranty Service at which time you will be transferred to the technicians at American Warranty Service. In lieu of this you may call directly to American Warranty Service at 866-926-4313 to be directly connected to a repair specialist. If your issue cannot be resolved through consultation with our customer service representatives, you will be directed to an Independent Service Center of your choice nearest your location. Any manufacture's Defects of your product will be repaired or replaced at no charge to you per our commitment. If the issue with your unit is not a Manufacture's Defect, you will be advised to make payment to the Service Center upon diagnosis of repairs which are not covered under the Manufacturer's Warranty Policy. In this case the end user is responsible for all shipping and handling charges associated with the exchange and as stated above the warranty will coincide with the date of the original purchased unit.

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



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LIMITED WARRANTY POLICY

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 Lifan 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.

OWNER'S RESPONSIBILITY

To ensure trouble free warranty coverage it is important that you register your Lifan generator by phone at 1-866-471-7464, or by filling out and returning to Lifan Power USA the warranty registration card supplied with your generator.

REGISTERING YOUR PRODUCT

This confirms your warranty coverage and provides a direct link between you and Lifan Power USA if we find it necessary to contact you. Your receipt for purchase including date, model and serial number must be maintained and registered to receive service from an Authorized Service Dealer for warranty service. Proof of purchase rests solely with you, the original purchaser. You must demonstrate reasonable care and use, and follow preventive maintenance, storage, fuel and oil usage as prescribed in the operator's manual for your Lifan Power unit. For the warranty assistance from a Lifan Authorized Service Dealer nearest to you, call Lifan's automated phone at 1-866-471-4764 Option 2. Should you require assistance or have questions concerning Lifan Power USA Warranty Statement, you can contact us through the web at www.lifanpowerusa.com or call toll free 1-866-471-7464.

EXCLUSIONS

- Lifan Power Equipment that utilize non-Lifan replacement parts.
- Failure to perform "Periodic Maintenance" as required and specified in the supplied "Owner's Manual."
- Costs of normal maintenance and adjustments.
- Failures caused by any contaminated fuels, oils, or lack of proper oil levels.
- Repairs or diagnostics performed by individuals other than Lifan authorized dealers not authorized in writing by Lifan.
- Failures due to normal wear and tear, accident, misuse, abuse, negligence or improper use.
- As with all mechanical devices, the Lifan engines need periodic part(s) service and replacement to perform as designed. This warranty will not cover repair when normal use has exhausted the life of a part(s) or engine.
- Failures caused by any external cause or act of God, including but not limited to, collision, theft, vandalism, riot, war, fire, freezing, lightning, earth-quake, windstorm, hail, water, flood, tornado, or hurricane or any occurrence outside of normal use and activity.
- Damage related to any animal infestation to include rodent and/or insect infestation.
- Products that are modified or altered in a manner not authorized in writing by Lifan.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failure due to misapplication.
- Telephone, cellular phone, facsimile, internet access, or other communication expenses.
- Expenses related to "customer instruction" or troubleshooting where no manufacturing defect is found.
- Overnight freight or special shipping costs for replacement part(s).
- Overtime, holiday or emergency labor.
- Starting batteries, fuses, light bulbs and engine fluids.
- **SPECIAL RESTRICTION ON ALL RESIDENTIAL GRADE EQUIPMENT:** Any residential grade unit used in a commercial application falls under a 60-day limited warranty.



ENERGY STORM

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LIMITED WARRANTY POLICY

DISCLAIMER OF IMPLIED WARRANTIES

This limited warranty is in lieu of all other expressed or implied warranties, including any warranty of the unit's fitness for any particular use and any implied warranty of MERCHANTABILITY otherwise applicable to Lifan Power Equipment and its affiliated companies shall not be liable for any special, incidental or consequential damage, including lost profits. There are no warranties extended other than as provided herein. This limited warranty may be modified only by Lifan Power USA. Any implied warranties allowed by law shall be limited in duration to the terms of the express warranty provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You also have other rights from state to state. Lifan's ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT AS STATED ABOVE. IN NO EVENT SHALL Lifan BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF Lifan's NEGLIGENCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights from state to state.

GOVERNING LAW/ CONSENT TO JURISDICTION AND FORUM SELECTION

The laws of the State of Arkansas shall govern the rights and duties of the parties under this agreement and jurisdiction and venue is fixed in Crawford County, Arkansas. The buyer/owner hereby waives any right it may have to assert the doctrine of forum non conveniens or similar doctrine or to object to venue with respect to any proceeding brought in accordance with this paragraph, and stipulates that the State and Federal courts located in the County of Crawford, State of Arkansas shall have in person jurisdiction and venue over each of them for the purpose of litigating any dispute, controversy, or proceeding arising out of or related to the sale, manufacture or warranty of products with EquipSource, LLC.

OWNER'S WARRANTY RESPONSIBILITIES

As the outdoor equipment owner, you are responsible for performance of the required maintenance listed in your owner's manual. EquipSource, LLC d/b/a Lifan Power USA recommends that you retain all receipts covering maintenance on your outdoor equipment. Lifan Power USA will not deny your warranty coverage based solely on your lack of receipts for service however, the condition of the equipment upon arrival at the service center will determine the warrantable nature of the product.

As the outdoor equipment owner, you should however be aware that Lifan Power USA may deny your warranty coverage if your outdoor equipment or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact Lifan Power USA or American Warranty Service Representative at 1-866-471-7464 Option 2 Warranty and Service or at the following address Lifan Power USA, 2205 Industrial Park Road, Van Buren, AR 72956 or by contacting us through www.lifanpowerusa.com.

This warranty specifically excludes the use of any Lifan Power Equipment or Storm Series power equipment as the "Sole Source of Power" for "off the power grid applications" and this warranty will become null and void for units used for this purpose and manner. This warranty specifically excludes the use of any Lifan Power Equipment or Storm Series power equipment for the purpose of powering Life Support devices, Life Support appliances, Medical devices, and/or Medical appliances.

EquipSource, LLC will not be held responsible for any damage due to the use of any Lifan or Storm Series power equipment for these purposes.

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