



R4000iEP

Portable Generator

Generador Portátil

Générateur Portable

Owner's Manual

HUDSON

R4000iEP

Portable Inverter Generator

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

PLEASE KEEP AND READ THIS MANUAL
CAREFULLY BEFORE OPERATING YOUR NEW
HUDSON MOTORS PORTABLE GENERATOR

RECORD PURCHASE HERE

MODEL # _____

ENGINE ID # _____

DATE OF PURCHASE _____

PURCHASE LOCATION _____

-CA INDICATES THIS UNIT IS
CARB CERTIFIED



COMPANY NAME: EQUIPSOURCE, LLC

ADDRESS: 2205 INDUSTRIAL PARK RD, VAN BUREN, AR 72956

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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).



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.

PRODUCT SPECIFICATIONS

R4000iEP	
Voltage	120V
Running Output ¹	3800 watts
Starting Output ²	4000 watts
Maximum AC Amperage	32.5 amps
AC Cycle	60hz
Storage Capacitors	Battery Maintainer
120V 30amp 3-prong RV Receptacle	1 ea.
120V 20amp AC Receptacle	1 Duplex
USB Port	2 ea.
Circuit Protection	Inverter
Voltage Selector Switch	N/A
ENGINE	
Manufacturer	RATO
Model	R225D-Vi
Maximum Horsepower (MHP)	8.5 MHP
Engine Displacement	224cc
Starting System	Electric
Fuel Tank Capacity	2.25 gallon
Fuel Tank Material	High Density Polyethylene
Run Time (@ 50% Load)	5.5 hours
Sound Level (@ 7m / 23ft)	70db
Engine Type	4-stroke OHV
Fuel Type	Automotive Grade Unleaded Gasoline
Fuel Compliance	10% ethanol mix
Oil Type & Amount	SAE 10W30 17.90oz.
Idle Control	Yes
Low Oil Shutoff Protection	Yes
CARB Certified	(-CA) Model Only
DIMENSIONS	
Packaged Dimensions	24.4" x 19.7" x 21.5"
Packaged Weight	106 lbs.
ACCESSORIES	
Battery Maintainer Power Cord	N/A
Mobility / Wheel Kit	2 ea.



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 Hudson Motors 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.

Avoid other generator hazards, READ MANUAL BEFORE USE

⚠ 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 no 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.



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.

**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.

Neutral Floating

The neutral of the generator is floating

The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin; and

Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.

Safety Instructions

Before operating the generator, it will help you avoid accidents to read and understand the Manual and familiarize yourself with the safe operation procedures of the generator.

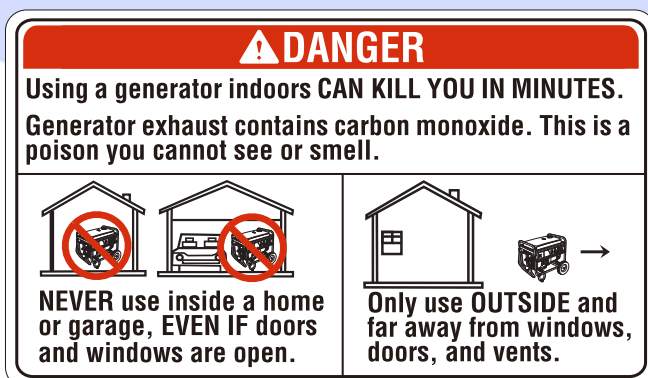
Connection of the product to a building's electrical system is not applicable.



Do not use the generator in a direction that the exhaust emission to the occupied structures, the sparks in the exhaust emission may start fires.



A hot exhaust system can cause serious burns, avoid contact if the engine has been running.



Do not use the generator in door or garage, the exhaust contains carbon monoxide, this is a poison you cannot see or smell, and it will kill you in minutes.

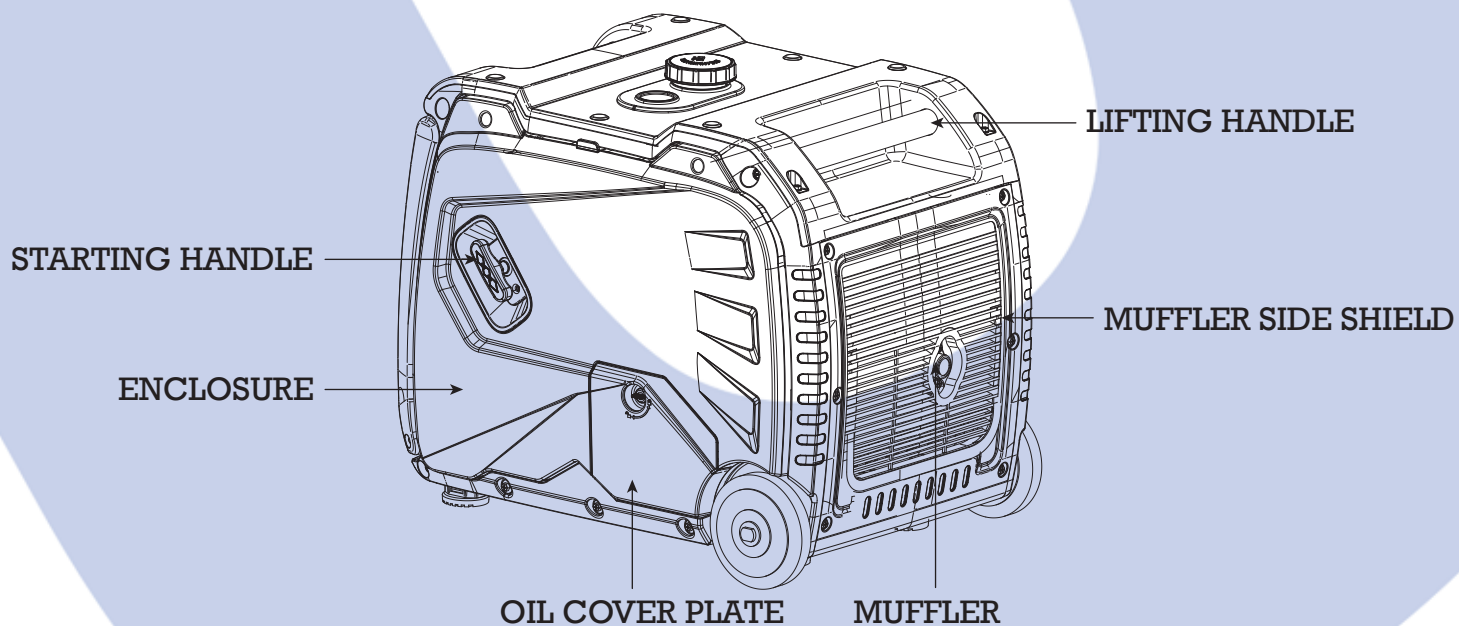
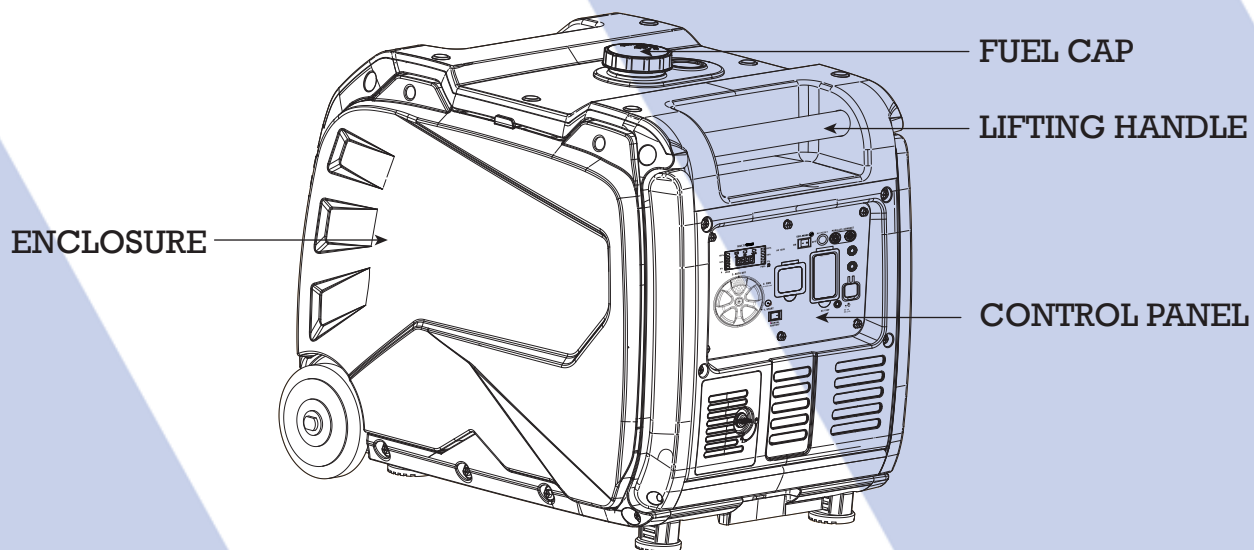


Before using the generator, please read the operation manual.

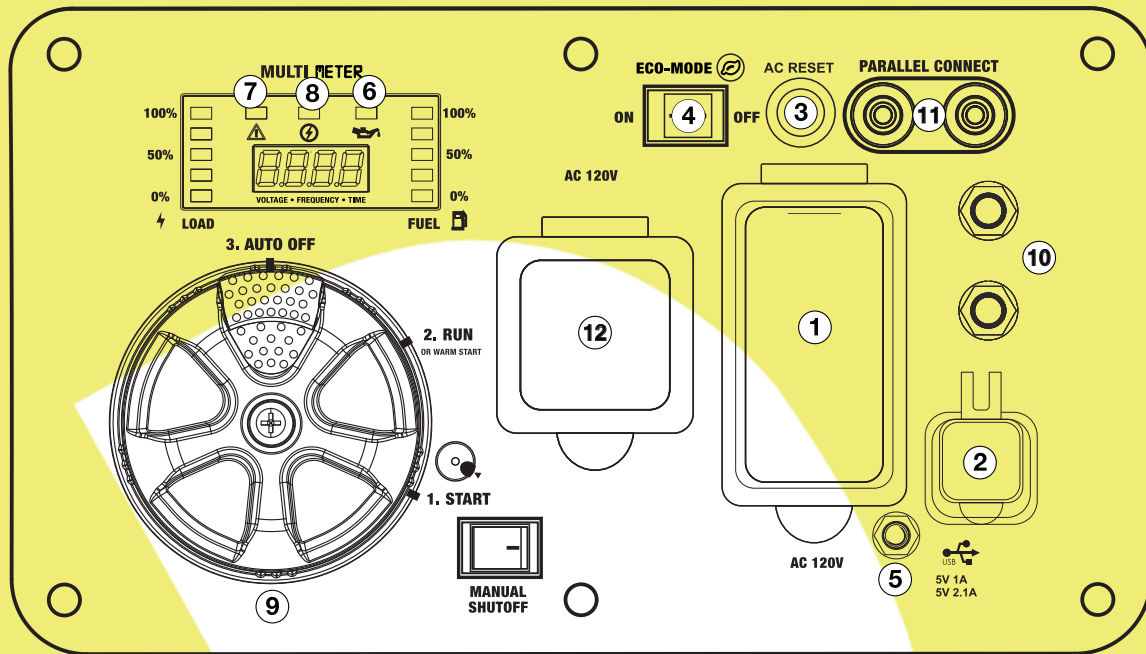
Be careful with the shock hazard.

Be careful, the fuel is flammable, do not add the fuel when the engine is running.

CONTROLS AND FEATURES



CONTROLS AND FEATURES



CONTROL PANEL FEATURES HD3300iS

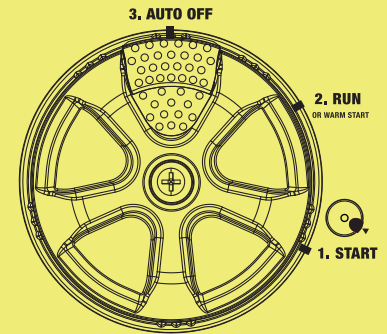
- ① **120-Volt, 20-Amp Duplex Outlet (NEMA 5-20R):** The outlet is capable of carrying a maximum of 20 amps.
- ② **USB Duplex:** 5V DC that come in 1 amps and 2.1 amps.
- ③ **Reset Breaker:** If the inverter is overloaded, the reset breaker will trip. The engine will continue to run, but there will be no output from the inverter. Unplug the devices and reduce the load. Push in the reset breaker to reset it.
- ④ **Efficiency Mode Switch:** When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.
- ⑤ **Ground Terminal:** The ground terminal is used to externally ground the inverter.
- ⑥ **Low Oil LED:** Indicates low oil level.
- ⑦ **Overload LED:** Indicates that the inverter is overloaded.
- ⑧ **Output Ready LED:** Indicates the inverter is ready to be used.
- ⑨ **Engine Control Switch:** Turn position to CHOKE to start the engine, and turn to RUN position once the engine is running. Switch to OFF to stop inverter.
- ⑩ **AC Breaker:** If the inverter is overloaded, the reset breaker will trip to block current.
- ⑪ **Parallel Connectors:** To increase AC power output, the connector sockets are used to connect the two same type generator with special paralleling cords. The connector sockets is only used to the communication between the inverters, they can not used for AC power output. The special paralleling cords shall be purchase separately, and they shall be approved by certification body.
- ⑫ **120-Volt, 30-Amp Outlet (NEMA RV30):** The outlet is capable of carrying a maximum of 30 amps.

PRE-OPERATING INSTRUCTIONS

CONTROL FUNCTIONS

Three-in-one combination switch

1. Engine and fuel switch: If the ignition circuit is off and the fuel switch is off, the engine will be unable to run.
2. Engine, fuel switch and choke valve switch: If the ignition circuit is in working status, fuel switch is on and the choke valve is in fully opening status, the engine can run normally.
3. Engine, fuel switch and choke valve switch: If the ignition circuit is in working status, fuel switch is on and choke valve is closed status, the engine can run normally.



ATTENTION

After unit has been running and the engine is warm, it is not necessary to choke the engine to restart.

Oil indicator (red)

When the oil in the crankcase drops below the safety line, the oil protection system will automatically shut down the engine, and the oil alarm indicator lights up. The engine can be restarted only after the oil is filled to the correct oil level.

Tip: In the case of flame-out of the engine or being unable to be started up, turn the combination switch to “RUN” position, and then pull startup handle. If oil indicator flashes a few seconds, the oil volume is insufficient, fill oil and restart it.

Overload
Indicator



Output
Indicator



Low oil
Indicator



Overload indicator (red)

When the overload indicator lights up, the generator has detected that the output of connected electrical equipment has exceeded the generator's capacity, causing the frequency converter to overheat, or causing AC voltage to rise. At this moment, the AC protector activates and stops the generator for its own protection and to protect any connected electrical equipment. If the AC indicator (green) is off and the overload indicator (red) lights up, the engine will not stop running.

CONTROL FUNCTIONS

If the overload indicator is on and the generator has no output, please take the following steps:

1. Switch off electrical equipment connected, and shut down the generator.
2. Reduce total power of electrical equipment connected to the range of rated output.
3. Check whether there is any foreign matter blocking in cooling air inlet, and whether there is any abnormality in related control components. If there is any problem, eliminate it immediately.
4. After checking, restart the engine.

Tip: When using electrical equipment with high starting current (such as compressors, submersible pump, etc.), the overload indicator may start to light up for a few seconds at the beginning, but this is not the failure mentioned earlier.

AC indicator (green)

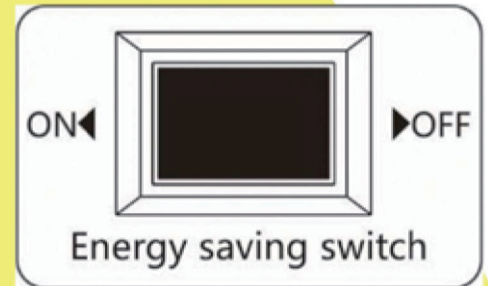
The AC indicator lights when the engine is started and output is normal.

CONTROL FUNCTIONS

Energy-saving switch

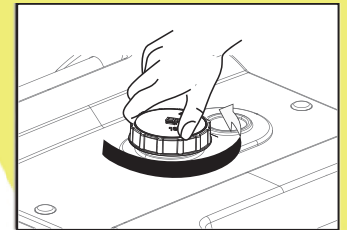
1. When the energy-saving switch is switched to the "ON" position, the device controls engine speed based on the load connected, allowing very good fuel consumption and low noise can be obtained.
2. When the energy-saving switch is switched to the "OFF" position, the engine will run at the rated speed, regardless of whether or not it is connected to a load.

Tip: When using devices with high starting current, such as air compressors, submersible pump, etc., the energy-saving switch must be in the "OFF" position, because it requires great startup current.



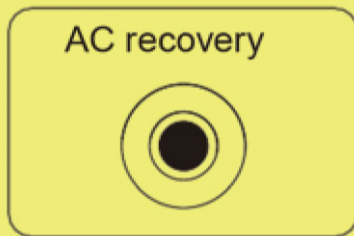
Fuel tank cap

Remove the fuel cap by unscrewing it counter-clockwise.



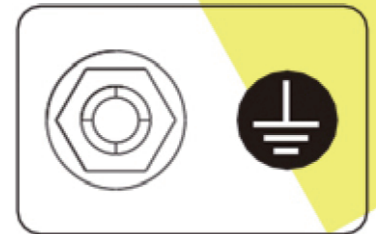
AC Recovery

When the generator's output is overloaded, the generator will stop producing voltage automatically to protect its hardware. Reduce the load, press the AC recovery switch, and the generator will resume output.



Grounding terminal

The grounding terminal should be connected to a grounding wire to prevent electric shock. When electrical equipment is grounded, the generator must be grounded.



PREPARATIONS



WARNING



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



DANGER

Fuel is flammable and toxic, please read the Safety Instruction carefully before refueling. Do not overfill with fuel, otherwise the fuel will spill after the tank is warmed. After refueling, confirm that the fuel tank cap has been tightened.

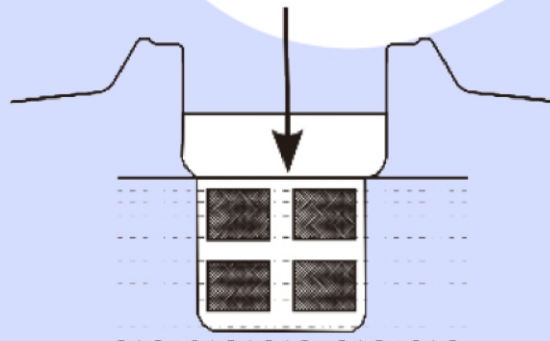


ATTENTION

After refueling, quickly dry off any gasoline residue with a clean, soft cloth in time to avoid damaging the plastic enclosure.

Unleaded gasoline must be used, as leaded gasoline can seriously damage internal parts of the generator. Remove the fuel tank cap, and add gasoline to the red horizontal line. The fuel tank capacity is four liters.

MAXIMUM FUEL LEVEL

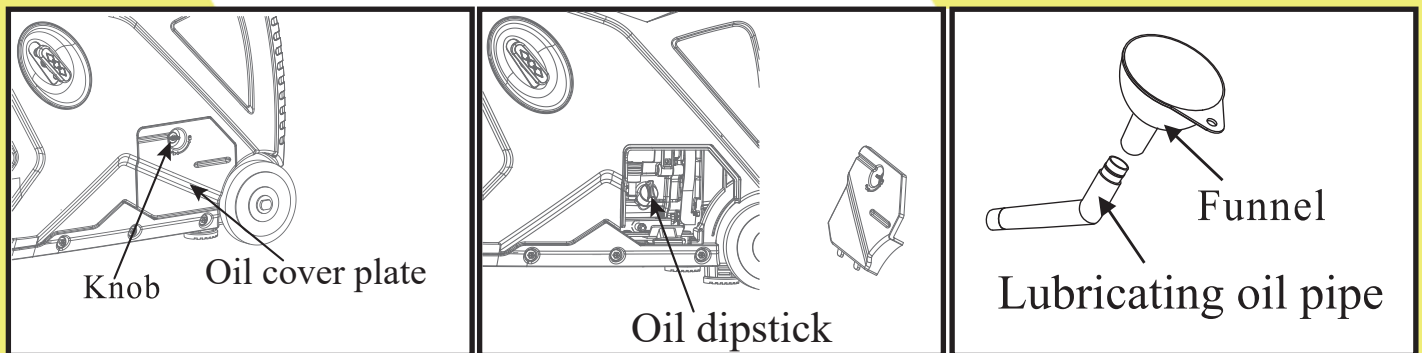


PREPARATIONS

Oil

This generator contains no oil when it is shipped. You must add oil before starting the generator.

1. Please place the generator on a horizontal surface.
2. Unscrew the knob to remove the oil cover plate.
3. Unscrew the oil dipstick.
4. Fill with 0.53L/17.92 ounces of oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher).
5. Reattach the oil cover plate and tighten the knob.



Pre-use inspection



Even if the generator is not in service, its important components may suddenly fail.

Before you start the generator up, if any of the following components do not work properly, please inspect and repair carefully.

Tip: The condition of the generator shall be inspected before using every time.

Pre-operation inspection: Fuel

- Check fuel level in fuel tank of the generator, and fuel it if necessary.

Oil

- Check the oil level of the generator, and fill with oil if necessary.
- Check for any signs of leaking oil.

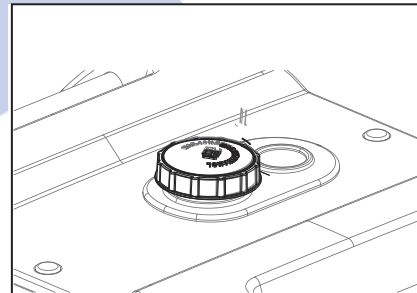
Abnormal conditions during operation

- Check the operating condition of the generator.
- If needed, please contact our customer helpline (1-866-471-7464).

OPERATING THE GENERATOR

Before Starting The Generator

1. Unplug all electrical devices from all outlets on the generator.
2. Switch energy-saving switch to "OFF".
3. Turn the 3-in-1 combination switch control to "CHOKE" position.



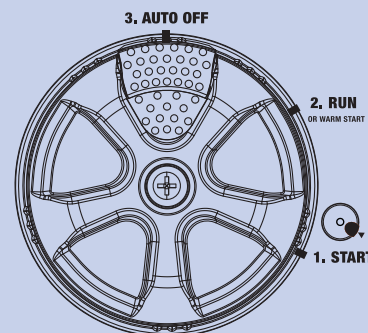
Starting Up The Generator

1. Ensure that the Fuel is switched is on.
2. Ensure that the ignition system is on.
3. Ensure that the choke valve is closed, and is in its normal cool-generator "OFF" status.

Tip: When the hot engine is started up, it is unnecessary to close the choke valve, but turn the combination switch to "RUN".

4. First gently pull startup handle, until the handle cable is taut, and then pull it with effort.

Tip: When pulling the hand starter, hold the generator carrying handle firmly, to prevent the generator from overturning.



Shutting Down The Generator

1. Turn the 3-in-1 combination switch to the "OFF" position.
2. After the generator has completely cooled down, turn the ventilation knob on the fuel tank cap to "OFF".

SERVICE ENVIRONMENT

Acceptable operating temperature	-5°C - 40°C / 23°F - 104°C
Applicable operating humidity	Below 95%
Applicable operating altitude	Below 1500m above sea level (reduced power above 1,000m)
Ambient temperature T_r	298k (25° C)
Relative air humidity Φ_r	30%
Atmospheric pressure P_r	100kPa

When actual environmental condition is inconsistent with the environmental operating guidelines above:

- Every 5°C increase in ambient temperature will reduce the generator's available power by about 2%.
- Every 30% increase in relative air humidity will reduce the generator's available power by about 1.5%.
- Every 300m above sea level will reduce the generator's available power by about 4.5%.

GENERATOR WIRING

- Do not connect the generator as a backup household power source. This connection should be carried out by a professional electrician.
- After connecting the load to the generator, check carefully whether the electrical connection is safe and reliable. Improper electrical connection may cause generator damage or even start a fire.
- Avoid connecting this generator to commercial power outlet.
- When extending the cable, be sure not to exceed its length.
 - 60m cross-section area is 1.5mm²
 - 100m cross-section area is 2.5mm²
- The appearance of extension cable shall be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes

CONNECTING DEVICES TO YOUR GENERATOR



All electrical equipment shall be disconnected before inserting the plug.



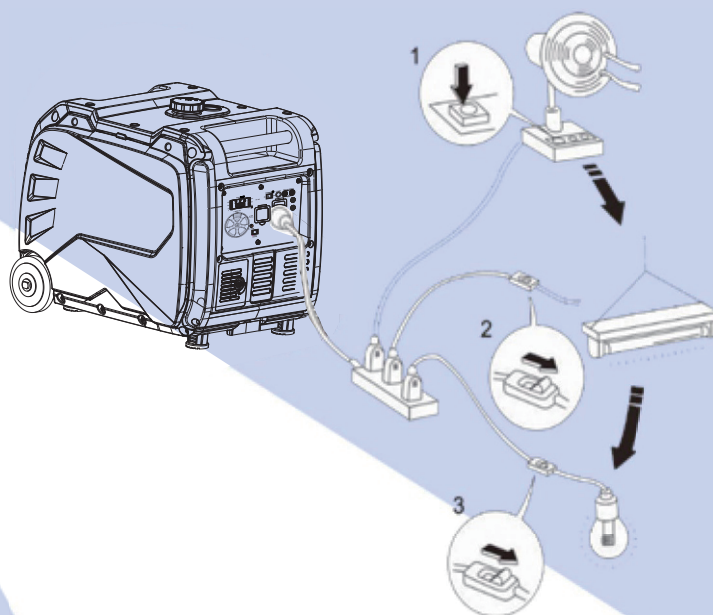
Make sure that all electrical equipment, including wires and plugs, are in good condition before connecting to the generator.

- Make sure that all loads driven by the generator are within rated load range;
- Make sure that load current is within rated current range of rated socket.

Tip: Make sure that the generator set is grounded, and if electrical equipment requires grounding, the generator set must be grounded.

1. Start up the engine;
2. Turn energy-saving switch to "ON".
3. Insert the plug into AC outlet.
4. Make sure that AC indicator is lit up.
5. Switch on electrical equipment.

Tip: Before increasing engine speed, energy-saving switch must be switched to "OFF". If the generator supplies power to multi loads or electrical equipment, connect the largest load first and the smallest load last.



GROUNDING YOUR GENERATOR

In order to prevent any damage to the generator caused by electric shock or improper electrical application, it is recommended that the generator is grounded with a good conductor with an insulating sheath.

- Please use grounding wire with sufficient electrical energy capacity.
- Connect one end of the grounding wire firmly to the grounding bolt on the generator's control panel.
- Insert grounding rod (iron rod with a diameter of 5~10mm) at least 200mm (7.9 inches) into the ground and lead it out with conductor.
- Connect the other end of the grounding wire firmly to the lead wire of the grounding rod.

BATTERY CHARGING

- Rated DC voltage of this generator is 12V.
 - After the generator is started up, connect the battery to the generator.
 - Before charging, make sure that DC protector has been switched on.
1. Start up the generator.
 2. Connect the red (positive) lead of the charging cable to the positive (+) terminal of the battery.
 3. Connect the black (negative) lead of the charging cable to the negative (-) terminal of the battery.



ATTENTION

Make sure that the red/positive lead of the charger is connected to the positive battery terminal (+), and the black/negative lead is connected to the negative battery terminal (-).

Do not reverse these connections.

- The connection between the charger cable and battery terminal should be reliable, to prevent the generator from moving or loosening.
- Follow steps in the User's Manual for proper operation.
- In the process of charging, if the current drawn by connected devices exceeds the value of rated current, the DC protector will switch off the output. Press the DC

BATTERY CHARGING

protector to "ON" to restart charging. If the DC protector switches off again, stop charging immediately and contact your dealer.

Tip: Measure the specific amount of electrolyte to determine whether the battery is charged full. In the case of full charging, the specific gravity of electrolyte is between 1.26 and 1.28. It is recommended to check specific gravity of electrolyte at least once an hour, to prevent the battery from being overcharged.



Never smoke, and never connect or disconnect the connection to the battery during charging. The spark generated will ignite gas around the

battery. Battery electrolyte contains sulfuric acid, which is toxic and with the risk of burning. Please avoid expose to skin, eyes and clothing.

In the event of exposure to sulfuric acid accidentally, take the following steps:

- External exposure: flush with large amount of water
- Accidental ingestion: drink a large amount of water or milk, and drink milk, egg liquid or vegetable oil containing magnesium oxide. Seek medical help immediately
- Eye exposure: flush eyes with water for 15 minutes, and seek medical treatment immediately.

Tip: The battery can generate explosive gas, so please keep it far away from sparks, open flame or cigarette, etc. Please only charge or use the battery in a well-ventilated space. It is strongly recommended that you wear eye protection when working near the battery.

**Please keep the battery out
of the reach of children.**

- AC and DC can be used at the same time, but the total power cannot exceed the generator's rated output power.
- When total power exceeds rated power, the overload indicator will light up.

SERVICE AND MAINTENANCE

Good maintenance and service is the best guarantee for safe, economical, reliable operation. It also contributes to environmental protection. In order to keep the generator in good condition, you must inspect and maintain it regularly. The maintenance schedule is as follows:

Item	Maintenance Cycle	Each Use	First maintenance after 1 month or after 20 hours of use	Maintenance carried out every three months or every 50 hours of use	Maintenance carried out every year or every 100 hours of use
Engine Oil	Check - fill	✓			
	Replace		✓	✓	
Gearbox gear oil (if any)	Check oil level	✓			
	Replace		✓	✓	
Air cleaner element	Inspection	✓			
	Clean		✓		
	Replace			✓	
Settling bowl (if any)	Clean				✓
Spark plug	Clean - adjust				✓ *
Spark eliminator	Clean			✓	
Idle speed (if any)**	Check - adjust				✓
Valve clearance	Check - adjust				✓
Fuel tank and fuel filter	Clean				✓
Fuel hose	Inspection	Every two years (replace if necessary)			
Cylinder head, piston	Remove carbon deposit**	Displacement <225cc, every 125 hours Displacement ≥225cc, every 250 hours			

* These items shall be replaced if necessary

** These items shall be maintained by an authorized dealer or service center, unless the user has proper tools and maintenance ability

SERVICE AND MAINTENANCE



ATTENTION

- If the generator is frequently used in high temperatures or at a high load, oil should be changed every 25 hours.
- If the generator is frequently used in dusty or harsh environments, the air cleaner element should be cleaned every 10 hours of use. Otherwise, the air cleaner element should be replaced every 25 hours of use.
- The generator should be maintained if issues are discovered either upon spot-inspection or upon regularly scheduled inspections (see facing page), whichever is earlier.
- If maintenance cycle time has elapsed, perform the maintenance as soon as possible as per the table (see facing page).



WARNING

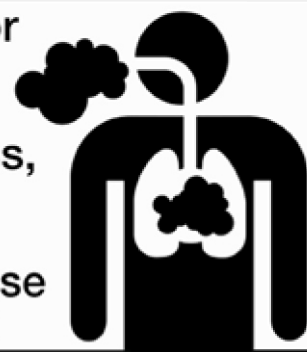
Please shut down the engine first before performing any maintenance. The engine should be placed in a horizontal position. In order to prevent the engine from accidentally starting up, remove the spark plug cap shall from the spark plug.

Do not use the generator indoors, or use it in a tunnel, cave or other poorly ventilated enclosed space. Make sure that your work area is well ventilated. Exhaust gas from the engine contains toxic gases, carbon monoxide, and the inhalation can cause shock, loss of consciousness, and even death.



WARNING

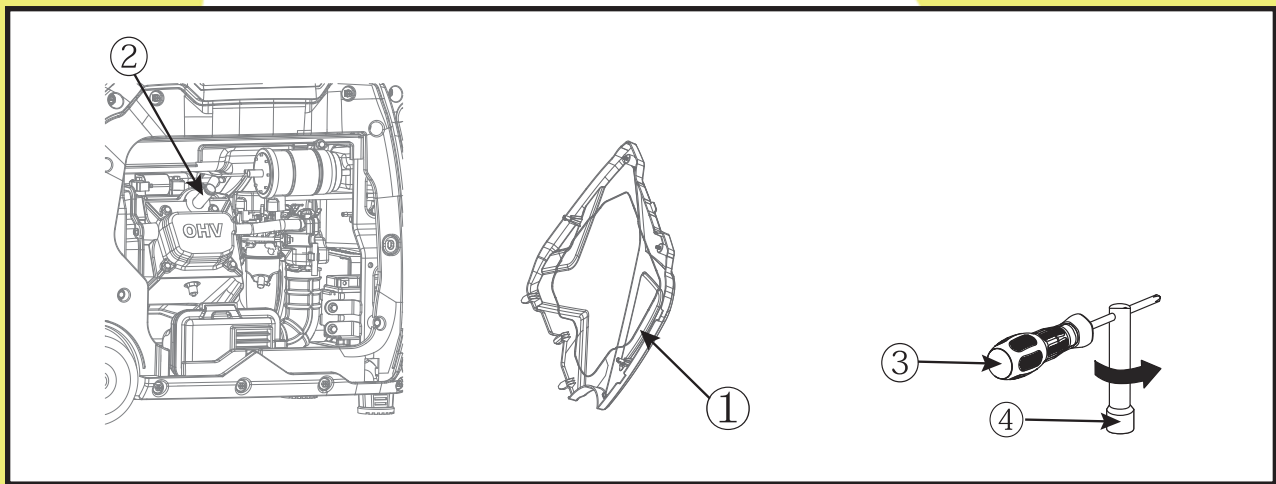
Running generator emits **carbon monoxide**: an odorless, colorless, **poisonous gas**. Breathing carbon monoxide can cause **nausea or death!**



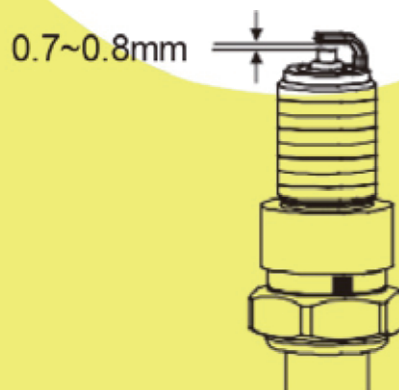
SPARK PLUG INSPECTION

The spark plug is an important part of the generator, which must be inspected regularly.

1. Remove decorative cover and spark plug cap of the generator.
2. Insert a screwdriver into the sleeve, turn it counterclockwise, and then remove the spark plug.
3. Check whether there is discoloration, and remove carbon deposits. Check whether there is a light to moderate brown deposit on ceramic cores around the center electrode of the spark plug.
4. Check the model of spark plug and clearance.



Tip: The spark plug clearance must be measured by line thickness gauge, which shall be adjusted if necessary.



Standard spark: F6RTC
Spark plug gap: 0.7-0.8mm

SPARK PLUG INSTALLATION

The spark plug cold torque is 12.5 Nm.

If there is no torque wrench when installing the spark plug, a better estimation method is to screw it 1/4-1/2 turns by force after screwing it in place, but the spark plug shall be screwed to specified torque as soon as possible.

ADJUSTING THE CARBURETOR

The carburetor is an important component of the engine. The adjustment should be carried out by an authorized dealer or service center with professional knowledge, professional data and equipment, to ensure proper adjustment.

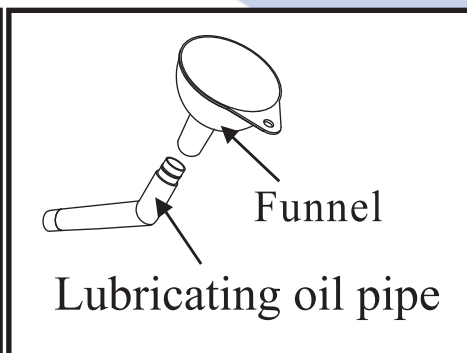
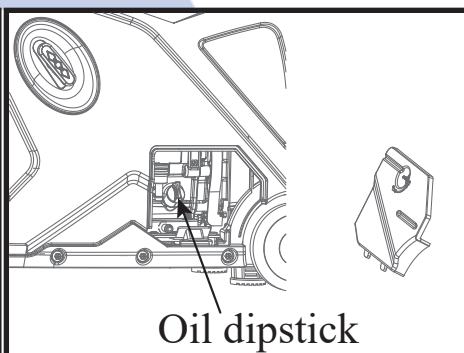
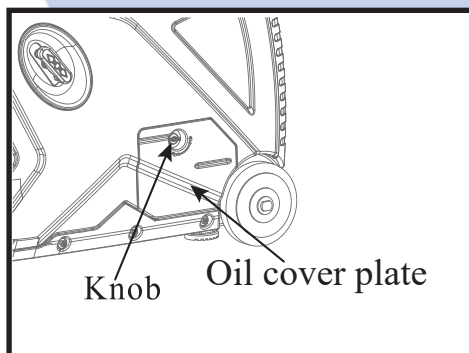
REPLACING THE OIL



Do not drain the oil immediately after turning off the generator; during or immediately after operation, the oil is very hot and can cause serious burns.

Place the generator on a flat horizontal surface, to start up the generator, running for a few minutes to increase its temperature, and then shut down the engine and turn the three-in-one combination switch to "OFF".

1. Unscrew the oil cover plate knob
2. Remove the oil cover plate.
3. Unscrew the oil dipstick.
4. Place an oil pan under the engine, tilt the generator to quickly pour out oil.
5. Place the generator to a flat horizontal surface.
6. Refill oil to the fill line.



REPLACING THE OIL

Recommended oil: SAE S10W/30

**Oil grade: API standard Model SJ
or higher Volume: 0.53L**

When the oil has been refilled, tighten the oil dipstick, put the external cover plate back in place, and tighten the knob.

REPLACING THE AIR FILTER

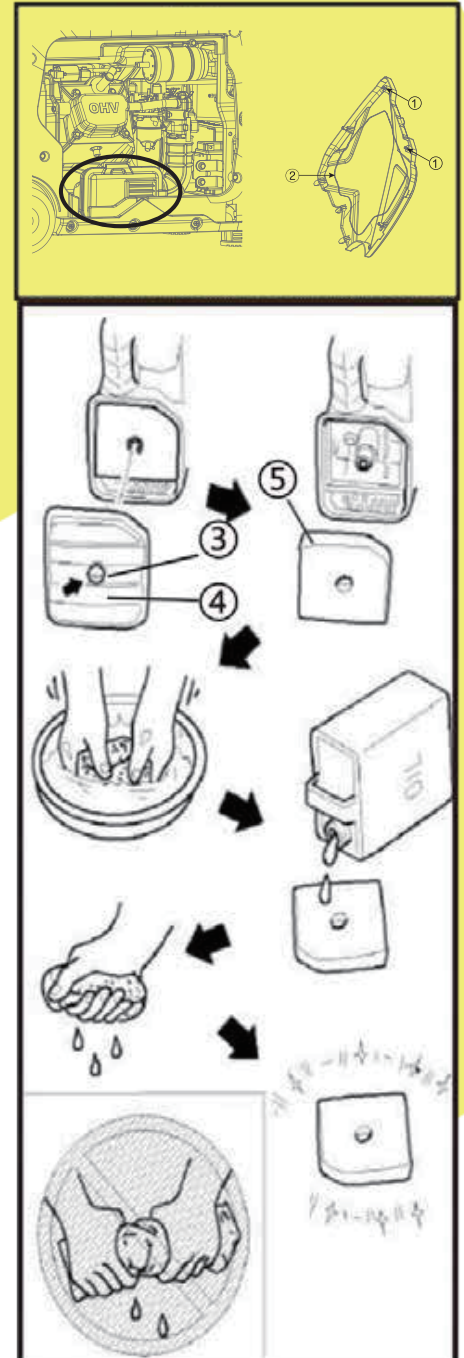
A Dirty air filter may prevent air from flowing into the carburetor. In order to prevent the failure of the carburetor, please maintain the air filter regularly. If the generator is being used in a dusty environment, it should be maintained frequently.

1. Remove the screws ①, and then remove the cover ②.
2. Remove the air filter cover plate.
3. Remove screws.
4. Remove the air filter cover plate.
5. Remove the foam cleaner element.

Clean the foam cleaner element with a cleaning solvent and blow it dry. Drip a few drops of oil onto foam filter element and squeeze off excess oil. The foam cleaner element should be wet, but there should not be oil dripping.

Be sure not to twist the foam cleaner element forcibly to avoid damage.

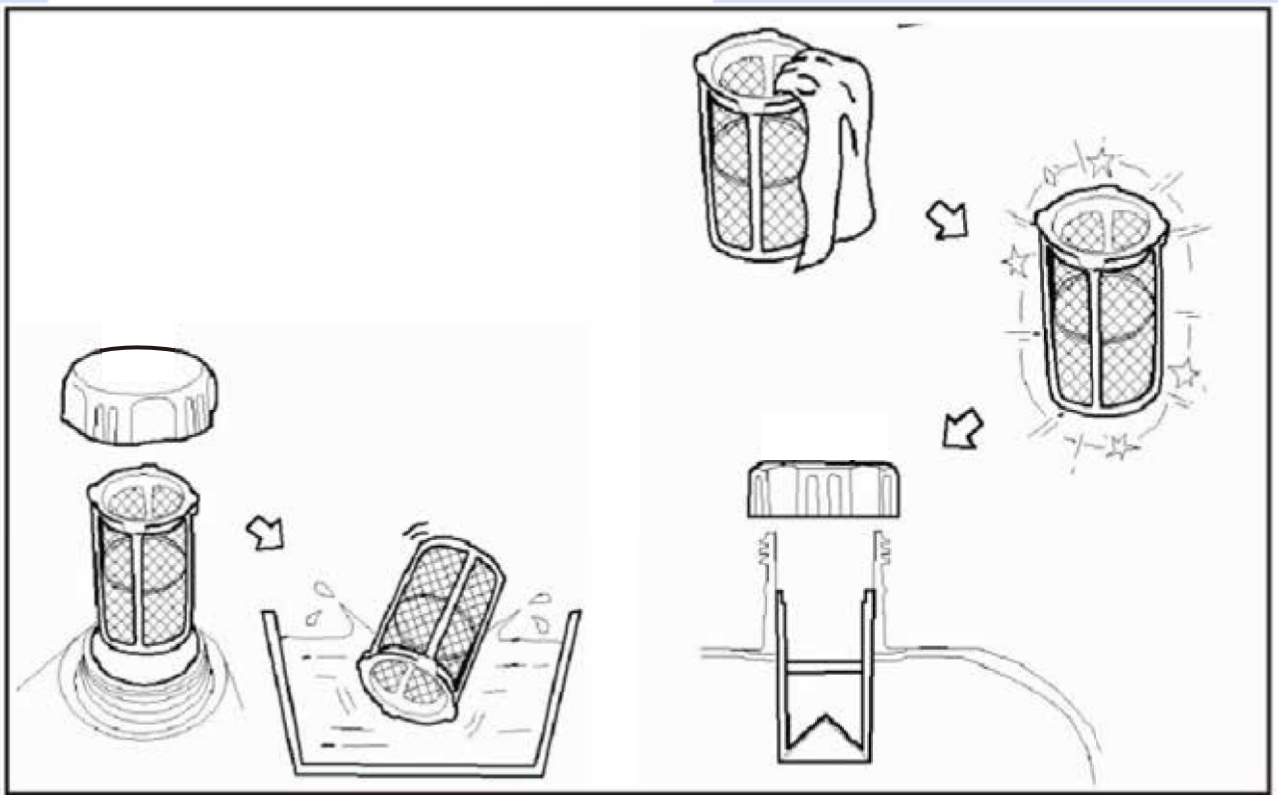
Put the foam cleaner element back into the air cleaner. Make sure that the surface of the foam cleaner element is in close contact with air cleaner; there should be no gap leaking air. Do not start the engine before the air cleaner is assembled, because it will generate excessive toxic gas and cause wear to the cylinder.



REPLACING THE AIR FILTER

Return the empty air cleaner cap back to its original position, and tighten the screws. Reassemble the air cleaner cover and tighten the knob.

REPLACING THE FUEL FILTER SCREEN



WARNING

Be sure not to open fuel tank of the generator in a place while smoking or near open flame.

1. Remove the fuel tank cap and fuel tank filter screen.
2. Clean the fuel tank filter screen with gasoline.
3. Wipe the filter screen dry, and put it back into the fuel tank.
4. Reassemble the fuel tank cap.



ATTENTION

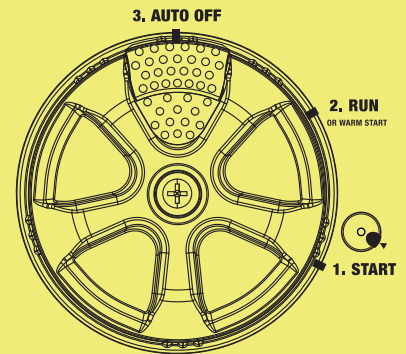
Be sure to screw fuel tank cap tight.

STORING YOUR GENERATOR

If the generator is to be placed in long-term storage, you must take preventative measures to avoid damage.

1. Turn the three-in-one switch to "OFF".
2. Open the fuel tank cap and remove the fuel filter screen. Pump all fuel in the fuel tank into a portable fuel tank, and then reassemble the fuel tank cap.
3. Start up the engine to burn off any remaining fuel in the carburetor, and then shut it down.

Tip: Do not connect any electrical equipment. The running time of the engine will depend on the amount of fuel remaining in the fuel tank.



4. Remove the bolts on the right side of the enclosure.
5. Unscrew the fuel drain bolt on the carburetor, and drain any fuel remaining in the carburetor into a portable fuel tank.
6. Turn the three-in-one combination switch to "OFF".
7. Tighten the fuel drain bolt.
8. Reassemble the right side of the enclosure, and tighten bolts.
9. After the engine completely cools, switch off the ventilation knob of the fuel tank cap.
10. Unscrew the oil dipstick, and drain off the oil in the crankcase. Add fresh oil to the fill line, and then reassemble the oil dipstick.
11. Remove the spark plug, and pour a spoon of clean oil into the combustion chamber. Rotate the crankshaft a few turns, to distribute oil everywhere, and then reassemble the spark plug.
12. Gently pull the startup handle until you feel resistance, allowing both the inlet valve and the exhaust valve to be closed.
13. Store the generator in a clean, dry area.



If the generator is left in an enclosed area or vehicle, high temperatures inside could cause residual fuel to vaporize resulting in possible explosion.

TRANSPORTING YOUR GENERATOR

When the generator is transported, make sure that no fuel is spilling.

- Do not overfill the fuel tank.
- Do not run the generator during transport, and avoid transporting it in direct sunlight,
- Do not transport the generator over rough roads for an excessively long time.

TROUBLESHOOTING

ENGINE FAILS TO START:

1. Fuel system

- Check to see if there is fuel in the tank.
- If there is no fuel in the tank, add fuel.
- If the oil tube is blocked, clean out the oil tube.
- If there is foreign matter in the fuel valve, clean the obstruction from the valve.
- If the carburetor is blocked, clean the obstruction from the carburetor.

2. Low oil level

- If the oil level is too low, add fresh oil.

3. Circuit system

- Make sure the generator can be switched on (running).
- Check to see if the spark plug needs to be replaced. If the spark plug is stained with carbon deposits or moisture, clean the spark plug and wipe it dry.
- Bad ignition system. . . . Enquiry your agency shop for service.

4. Bad compression

- Abrasion of the piston and cylinder. . . . Enquire your agency dealer for service.
- If the screws on the top of cylinder head are loose, tighten them properly.
- If the sealing gasket is damaged, replace the gasket.

5. Generator is not generating power

- If moisture or condensation have accumulated on the generator, wipe the generator dry.
- If any circuit connections are loose, re-insert the loose connectors.
- If one of the output sockets is damaged, replace the socket.
- If the overload light is on, disconnect all devices, and then shut down and restart the engine.

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

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

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:

CONVERTING AMPS OR HORSEPOWER INTO WATTS

If necessary, use these formulas:

$$\text{Watts} = \text{Amps} \times \text{Volts}$$

$$\text{Running Watts}^* = \text{Horsepower} \times 932^{**} \text{ (for motors)}$$

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 EF2600, that can produce 2,300 watts rated output, is recommended.

KIT HIGH ALTITUDE REPLACEMENT FOR EPAIII ENGINES 3000ft to 6000ft or 6000ft to 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 or 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 generator 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 model*	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 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.

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 4/20/2010.

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.
Generators/Inverter Generators	Full unit parts and labor	Full unit parts only	Engine: parts only	Full unit: 12 months parts and labor

* 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 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.

LIMITED WARRANTY POLICY

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.

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.

LIMITED WARRANTY POLICY

DISCLAIMER OF IMPLIED WARRANTIES

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.lifan-powerusa.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.



R4000iEP

Portable Generator

Generador Portátil

Générateur Portable

**El manual del
propietario**



ADVERTENCIA

PELIGROS ESPECIALES

- Envenenamiento por CO: el escape del motor contiene monóxido de carbono, un gas venenoso eso puede causar envenenamiento por monóxido de carbono y posible muerte si se inhala.
- Descarga eléctrica: el funcionamiento del equipo en condiciones húmedas o cerca del agua puede causar descarga eléctrica.
- Exposición química: la limpieza de los vapores químicos o el contacto con la piel puede ser peligroso.
- Incendio / explosión: las chispas del motor pueden encender combustible u otros líquidos inflamables o vapores en las proximidades. El escape caliente del motor puede encender materiales combustibles.
- Quemaduras: el motor del generador es una superficie caliente que puede causar quemaduras.

HECHOS DE PROTECCIÓN DEL EQUIPO

Inspeccionar a la entrega: ¡PRIMERO! Inspeccionar por falta o componentes dañados Consulte la sección “Configuración / instalación inicial” para saber dónde reportar piezas faltantes o dañadas.

Agregue aceite de motor: El motor se envía sin aceite. Ver el Sección “Manual del motor” de este manual para obtener instrucciones sobre recomendaciones de capacidad y viscosidad.

Programa de mantenimiento: El motor requiere periódicamente inspección y servicio para mantener el generador en funcionamiento eficientemente. Consulte “Resumen del programa de mantenimiento” para ver la frecuencia de servicio.



Este es el símbolo de alerta de seguridad. Se utiliza para alertarlo sobre posibles riesgos de lesiones personales. Obedezca todos los mensajes de seguridad que siguen a este símbolo para evitar posibles lesiones o la muerte.

Para su seguridad, lea este manual detenidamente. Familiarícese con la operación, cuidado y mantenimiento adecuados de su producto Hudson Motors.

El símbolo de seguridad (⚠) y alerta se usa con una palabra de advertencia (PRECAUCIÓN, PELIGRO, ADVERTENCIA), un mensaje ilustrativo y / o de seguridad para alertarlo sobre peligros.

PRECAUCIÓN indica un peligro que, si no se evita, podría ser dañino o provocar lesiones leves o moderadas.

PELIGRO indica un peligro que, si no se evita, provocará la muerte o lesiones graves.

ADVERTENCIA indica un peligro que, si no se evita, podría provocar la muerte o lesiones graves.

Símbolos de peligro y significados



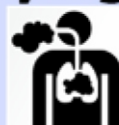
EXPLOSIÓN



FUEGO



CHOQUE ELÉCTRICO



HUMOS TÓXICOS



SUPERFICIE CALIENTE



RETROCESO

⚠ 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.
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Avoid other generator hazards, READ MANUAL BEFORE USE

⚠ 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 no 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.
--	---

ADVERTENCIA

El combustible y sus vapores son extremadamente inflamables y explosivos.

El fuego o la explosión pueden causar quemaduras graves o la muerte.



¡ADVERTENCIA!

El generador en funcionamiento emite **monóxido de carbono**: un gas inodoro, incoloro y **venenoso**.

¡Respirar monóxido de carbono puede causar náuseas o la muerte!



SÓLO opere generadores al aire libre.

Se debe evitar que el gas de escape ingrese a áreas confinadas.

Dirija los gases de escape lejos de ventanas, puertas, ventilación y otras aberturas.

No opere este generador dentro o debajo de ningún edificio.



¡ADVERTENCIA!

Este producto puede contener sustancias químicas conocidas en el estado de California puede causar defectos de nacimiento, problemas reproductivos y cáncer.



¡ADVERTENCIA!

El retroceso rápido del cable de arranque (retroceso) puede empujar la mano y el brazo hacia el motor a un ritmo rápido. Se pueden producir fracturas, hematomas, esguinces y fracturas.

AL AGREGAR O DRENAR COMBUSTIBLE

- Apague el generador y déjelo enfriar durante al menos tres minutos antes de quitar la tapa del combustible. Afloje la tapa lentamente para aliviar la presión en el tanque de combustible.
- Llene o drene el tanque de combustible al aire libre. No inhalar excesivamente los vapores de combustible.
- Manténgase alejado de llamas abiertas o chispas y otras fuentes de ignición.
- NO fume mientras llena el tanque de combustible.
- NO sobrellene el tanque. Deje espacio para la expansión del combustible.

AL TRANSPORTAR O REPARAR EQUIPOS

- Transporte el generador con la válvula de combustible en la posición de apagado.
- Repare el generador con el tanque de combustible vacío o la válvula de combustible en la posición de apagado.
- Desconecte el cable de la bujía antes del transporte o servicio.

AL ALMACENAR COMBUSTIBLE O EQUIPO QUE CONTIENE COMBUSTIBLE

- Almacene lejos de hornos, estufas, calentadores de agua, secadoras de ropa u otros electrodomésticos que tengan luz piloto u otra fuente de ignición porque pueden encender los vapores de combustible.

CUANDO ARRANCA EL EQUIPO

- Asegúrese de que la bujía, el silenciador, el filtro de aire y la tapa de combustible estén en su lugar.
- NO arranque el motor con la bujía quitada.
- Si se derrama combustible, espere hasta que se evapore antes de arrancar el motor.

CUANDO FUNCIONA EL EQUIPO

- NO ahogue el carburador para detener el motor.
- NO incline el motor o el equipo en ángulo, ya que puede derramarse combustible.
- Este generador no es para uso en aplicaciones marinas.

**¡ADVERTENCIA!**

Mientras el motor está funcionando, la temperatura puede superar los 150°F (65°C). Se pueden producir quemaduras graves.

**¡ADVERTENCIA!**

Las chispas involuntarias pueden provocar incendios o descargas eléctricas.

**¡ADVERTENCIA!**

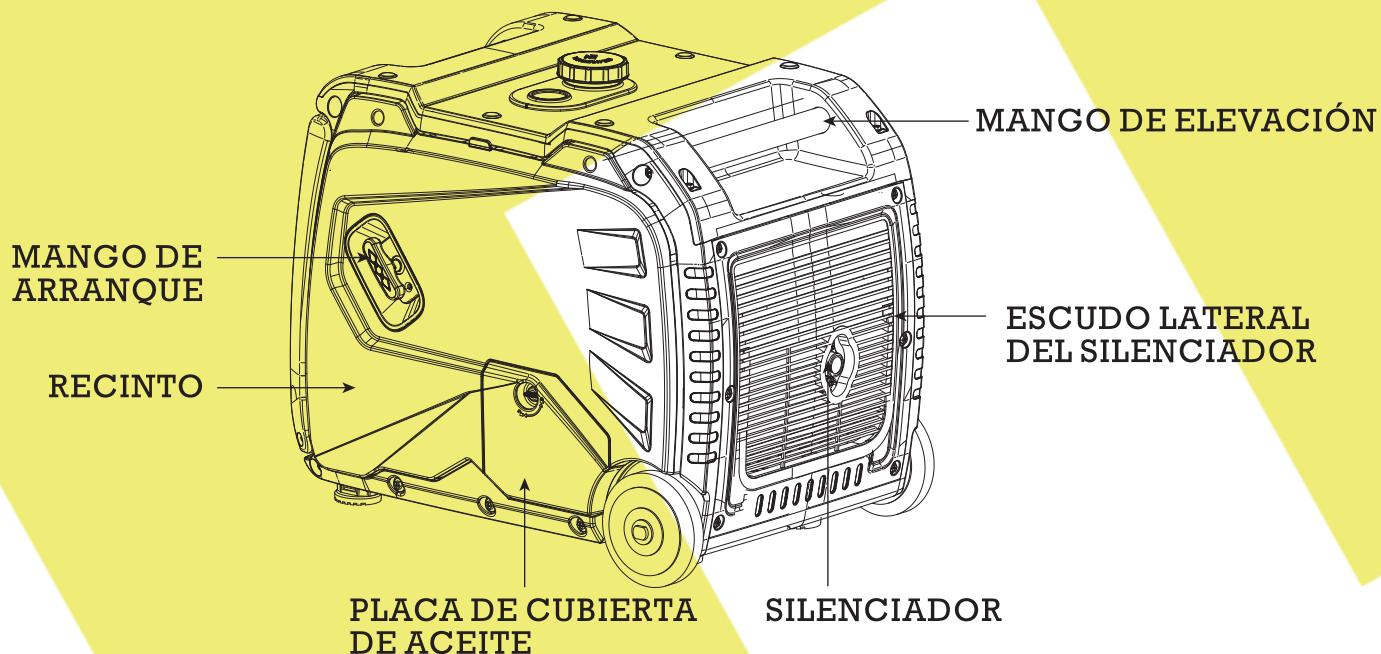
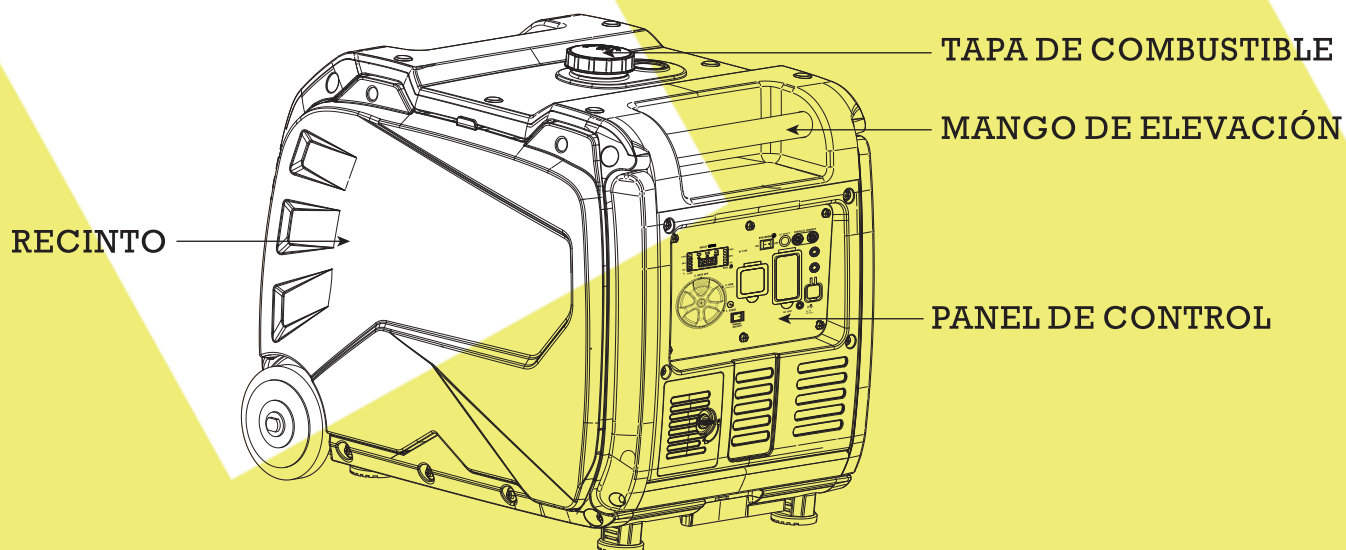
Las velocidades de operación excesivamente altas (revoluciones del motor) aumentan el riesgo de lesiones y daños al generador. Las velocidades excesivamente bajas imponen una carga pesada y dañarán el generador.

¡PRECAUCIÓN!

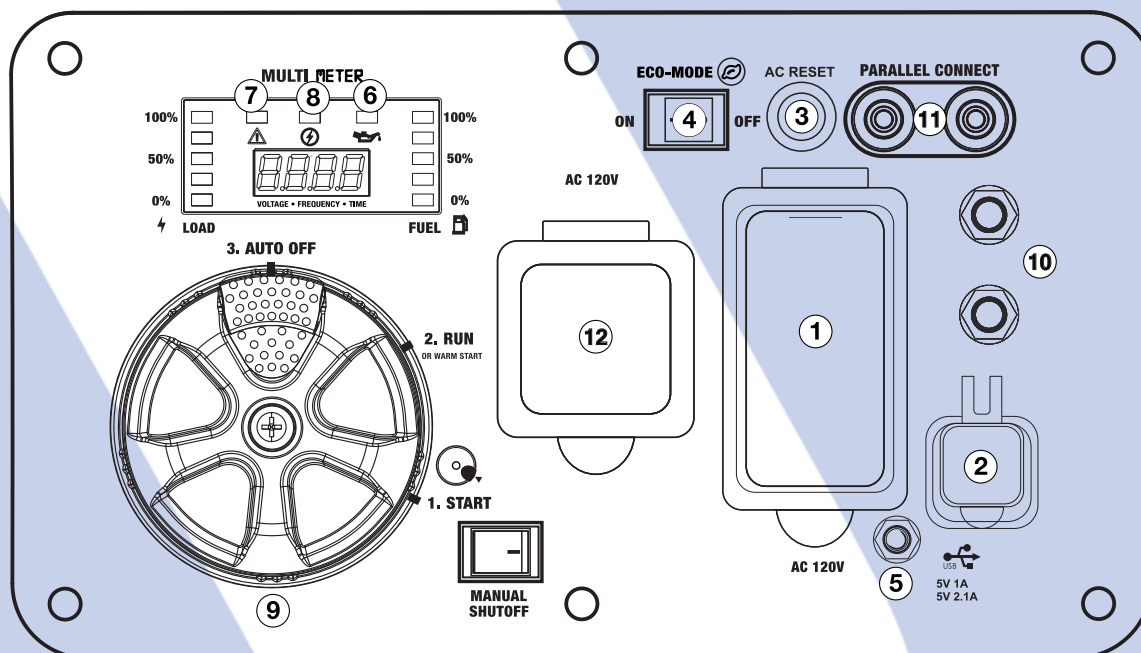
El uso y cuidado incorrectos de este generador causará daños y acortará su vida útil. El incumplimiento de estas acciones anulará todas las garantías.

- Utilice el generador solo para fines apropiados y designados.
- El distribuidor o la línea de ayuda al cliente (1-866-471-7464) pueden darle instrucciones sobre los usos previstos.
- El generador debe colocarse en una superficie nivelada.
- NO exponga el generador a condiciones extremas. El polvo, la humedad y los vapores corrosivos excesivos dañarán la unidad.
- Las ranuras de enfriamiento del motor deben mantenerse libres de escombros.
- Apague el generador y llévelo a un centro de servicio calificado si la unidad no funciona correctamente.

CONTROLES Y CARACTERÍSTICAS



CONTROLES Y CARACTERÍSTICAS



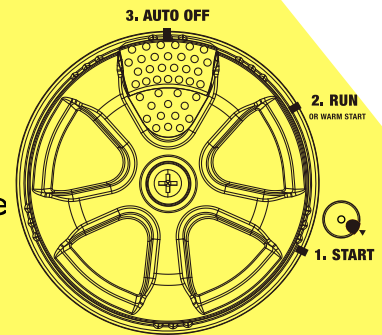
- 1 Toma de corriente alterna
- 2 Conector USB
- 3 Interruptor de reinicio
- 4 Interruptor inactivo
- 5 Cable de tierra
- 6 Indicador de alarma de aceite

- 7 Indicador de sobrecarga
- 8 Indicador de salida de AC
- 9 Interruptor combinado 3en1
- 10 Interruptor de reanudación de AC
- 11 Socket paralelo

FUNCIONES DE CONTROL

Interruptor combinado tres en uno

1. Interruptor de motor y combustible: si el circuito de encendido está apagado y el interruptor de combustible está apagado, el motor no podrá funcionar.
2. Motor, interruptor de combustible e interruptor de la válvula del estrangulador: Si el circuito de encendido está en estado de funcionamiento, el interruptor de combustible está encendido y la válvula del estrangulador está en estado de apertura total, el motor puede funcionar normalmente.
3. Motor, interruptor de combustible e interruptor de la válvula del estrangulador: si el circuito de encendido está en estado de funcionamiento, el interruptor de combustible está encendido y la válvula del estrangulador está cerrada, el motor puede funcionar normalmente.

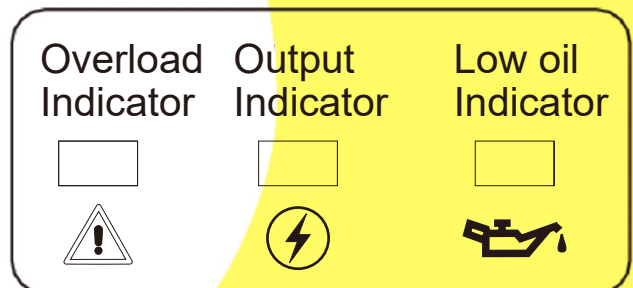


Una vez que la unidad ha estado funcionando y el motor está caliente, no es necesario estrangular el motor para volver a arrancar.

Indicador de aceite (rojo)

Cuando el aceite en el cárter cae por debajo de la línea de seguridad, el sistema de protección de aceite apaga automáticamente el motor y se enciende el indicador de alarma de aceite. El motor puede reiniciarse solo después de que el aceite se haya llenado al nivel correcto.

Propina: En el caso de que se apague el motor o no pueda arrancarse, gire el interruptor de combinación a la posición “EN MARCHA” y luego tire de la palanca de arranque. Si el indicador de aceite parpadea unos segundos, el volumen de aceite es insuficiente, llene el aceite y reinícielo.



Indicador de sobrecarga (rojo)

Cuando se enciende el indicador de sobrecarga, el generador ha detectado que la salida del equipo eléctrico conectado ha excedido la capacidad del generador, provocando que el convertidor de frecuencia se sobrecaliente o que el voltaje de CA aumente. En este momento, el protector de CA activa y detiene el generador para su propia protección y para proteger cualquier equipo eléctrico conectado. Si el indicador de CA (verde) está apagado y el indicador de sobrecarga (rojo) se ilumina, el motor no dejará de funcionar.

FUNCIONES DE CONTROL

Si el indicador de sobrecarga está encendido y el generador no tiene salida, siga los siguientes pasos:

1. Apague el equipo eléctrico conectado y apague el generador.
2. Reduzca la potencia total de los equipos eléctricos conectados al rango de salida nominal.
3. Compruebe si hay algún bloqueo de materia extraña en la entrada de aire de refrigeración y si hay alguna anomalía en los componentes de control relacionados. Si hay algún problema, elimínelo de inmediato.
4. Después de verificar, reinicie el motor.

Propina: Al usar equipos eléctricos con alta corriente de arranque (como compresores, bomba sumergible, etc.), el indicador de sobrecarga puede comenzar a encenderse durante unos segundos al principio, pero esta no es la falla mencionada anteriormente.

Indicador de CA (verde)

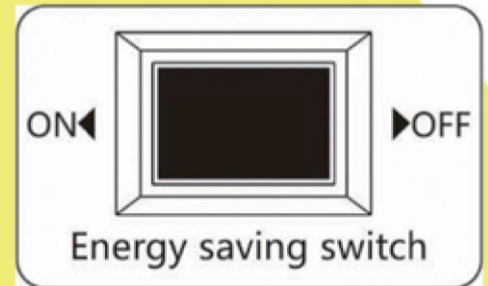
El indicador de CA se ilumina cuando se arranca el motor y la salida es normal.

FUNCIONES DE CONTROL

Interruptor de ahorro de energía

1. Cuando el interruptor de ahorro de energía se cambia a la posición "ENCENDIDO", el dispositivo controla la velocidad del motor en función de la carga conectada, permitiendo un muy buen consumo de combustible y un bajo nivel de ruido.
2. Cuando el interruptor de ahorro de energía se cambia a la posición "OFF", el motor funcionará a la velocidad nominal, independientemente de si está conectado o no a una carga.

Propina: Cuando se utilizan dispositivos con alta corriente de arranque, como compresores de aire, bomba sumergible, etc., el interruptor de ahorro de energía debe estar en la posición "APAGADO", ya que requiere una gran corriente de arranque.



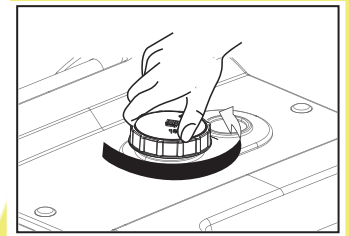
Tapón del depósito de combustible

Retire la tapa del combustible desenroscándola en sentido antihorario.

AC Recovery



Cuando la salida del generador se sobrecarga, el generador dejará de producir voltaje automáticamente para proteger su hardware. Reduzca la carga, presione el interruptor de recuperación de CA y el generador reanudará la salida.



Terminal de puesta a tierra

El terminal de tierra debe conectarse a un cable de tierra para evitar descargas eléctricas. Cuando el equipo eléctrico está conectado a tierra, el generador debe estar conectado a tierra.



PREPARATIVOS



ADVERTENCIA



El combustible y sus vapores son extremadamente inflamables y explosivos. El fuego o la explosión pueden causar quemaduras graves o la muerte.



PELIGRO

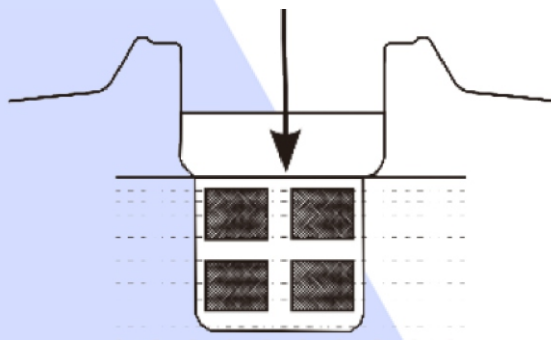
El combustible es inflamable y tóxico, lea atentamente las Instrucciones de seguridad antes de repostar. No llene en exceso con combustible, de lo contrario, el combustible se derramará después de calentar el tanque. Después de repostar, confirme que la tapa del tanque de combustible ha sido apretada.



ATENCIÓN

Después de repostar, seque rápidamente cualquier residuo de gasolina con un paño limpio y suave a tiempo para evitar dañar la carcasa de plástico. Se debe usar gasolina sin plomo, ya que la gasolina con plomo puede dañar seriamente las partes internas del generador. Retire la tapa del tanque de combustible y agregue gasolina a la línea roja horizontal. La capacidad del tanque de combustible es de cuatro litros.

NIVEL MÁXIMO DE COMBUSTIBLE

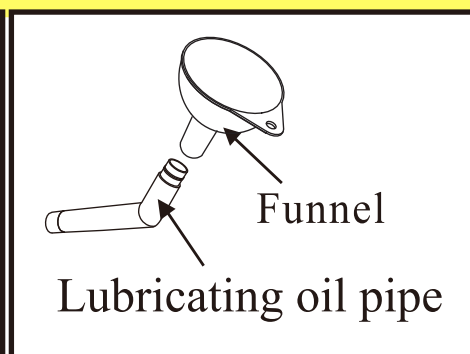
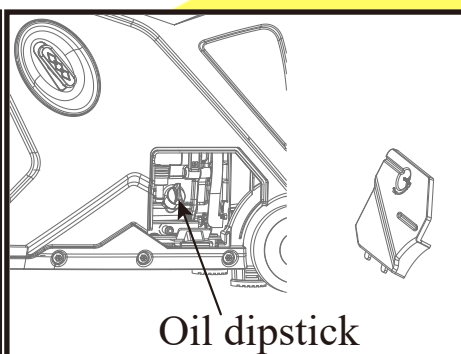
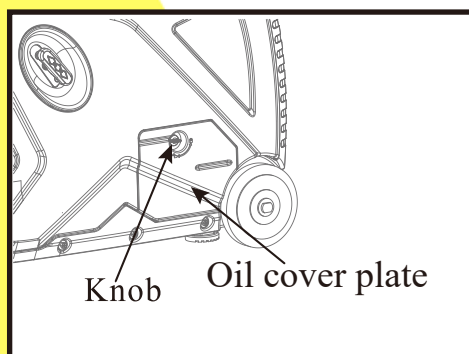


PREPARATIVOS

Petróleo

Este generador no contiene aceite cuando se envía. Debe agregar aceite antes de encender el generador.

1. Coloque el generador en una superficie horizontal.
2. Desatornille la perilla para quitar la placa de cubierta de aceite.
3. Desenrosque la varilla medidora de aceite.
4. Llene con 0.53L / 17.92 onzas de aceite (se recomienda aceite SAE 10W / 30, cuyo grado es API estándar Tipo SE o superior).
5. Vuelva a colocar la placa de cubierta de aceite y apriete la perilla.



Inspección previa al uso



Incluso si el generador no está en servicio, sus componentes importantes pueden fallar repentinamente. Antes de encender el generador, si alguno de los siguientes componentes no funciona correctamente, inspeccione y repare cuidadosamente.

Propina: Se debe inspeccionar la condición del generador antes de usarlo cada vez.

Inspección previa a la operación: combustible

- Verifique el nivel de combustible en el tanque de combustible del generador y aliméntelo si es necesario.

Petróleo

- Compruebe el nivel de aceite del generador y, si es necesario, llénelo con aceite.
- Compruebe si hay signos de fugas de aceite.

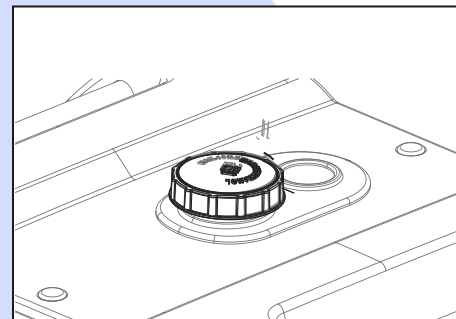
Condiciones anormales durante la operación.

- Check the operating condition of the generator.
- Si es necesario, comuníquese con nuestra línea de ayuda al cliente (1-866-471-7464).

OPERANDO EL GENERADOR

Antes de iniciar el generador

1. Desenchufe todos los dispositivos eléctricos de todas las tomas del generador.
2. Cambie el interruptor de ahorro de energía a "OFF".
3. Gire el control del interruptor combinado 3 en 1 a la posición "CHOKE".



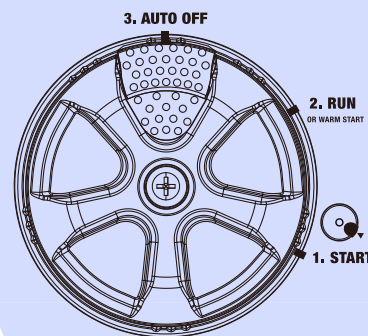
Arrancando el generador

1. Asegúrese de que el combustible esté encendido.
2. Asegúrese de que el sistema de encendido esté encendido.
3. Asegúrese de que la válvula del estrangulador esté cerrada y de que esté en el estado normal "OFF" del generador de enfriamiento.

Propina: Cuando se arranca el motor caliente, no es necesario cerrar la válvula del estrangulador, pero gire el interruptor de combinación a "RUN".

4. Primero jale suavemente la manija de arranque, hasta que el cable de la manija esté tenso, y luego jálelo con esfuerzo.

Propina: When pulling the hand starter, hold the generator carrying handle firmly, to prevent the generator from overturning.



Apagando el generador

1. Gire el interruptor combinado 3 en 1 a la posición "OFF".
2. Después de que el generador se haya enfriado por completo, gire la perilla de ventilación en la tapa del tanque de combustible a "APAGADO".

ENTORNO DE SERVICIO

Temperatura de funcionamiento aceptable	-5°C - 40°C / 23°F - 104°C
Humedad de funcionamiento aplicable	Abajo 95%
Altitud de funcionamiento aplicable	Por debajo de 1500 m sobre el nivel del mar (potencia reducida por encima de 1,000m)
Temperatura ambiente Tr	298k (25°C)
Humedad relativa del aire Φ_r	30%
Presión atmosférica Pr	100kPa

Cuando la condición ambiental real es inconsistente con las pautas ambientales de operación anteriores:

- Cada aumento de 5 ° C en la temperatura ambiente reducirá la potencia disponible del generador en aproximadamente un 2%.
- Cada aumento del 30% en la humedad relativa del aire reducirá la potencia disponible del generador en aproximadamente un 1,5%.
- Cada 300 m sobre el nivel del mar reducirá la potencia disponible del generador en aproximadamente un 4,5%.

CABLEADO DEL GENERADOR

- No conecte el generador como fuente de energía doméstica de respaldo. Esta conexión debe ser realizada por un electricista profesional.
- Después de conectar la carga al generador, verifique cuidadosamente si la conexión eléctrica es segura y confiable. Una conexión eléctrica inadecuada puede causar daños al generador o incluso provocar un incendio.
- Evite conectar este generador a una toma de corriente comercial.
- Al extender el cable, asegúrese de no exceder su longitud.
El área de sección transversal de 60 m es de 1.5 mm²
El área de sección transversal de 100 m es de 2.5 mm²
- La apariencia del cable de extensión debe estar protegida por una capa de cubierta de goma resistente y elástica (IEC25) u otros sustitutos.

CONECTAR DISPOSITIVOS A SU GENERADOR



ADVERTENCIA

Todo el equipo eléctrico deberá desconectarse antes de insertar el enchufe.



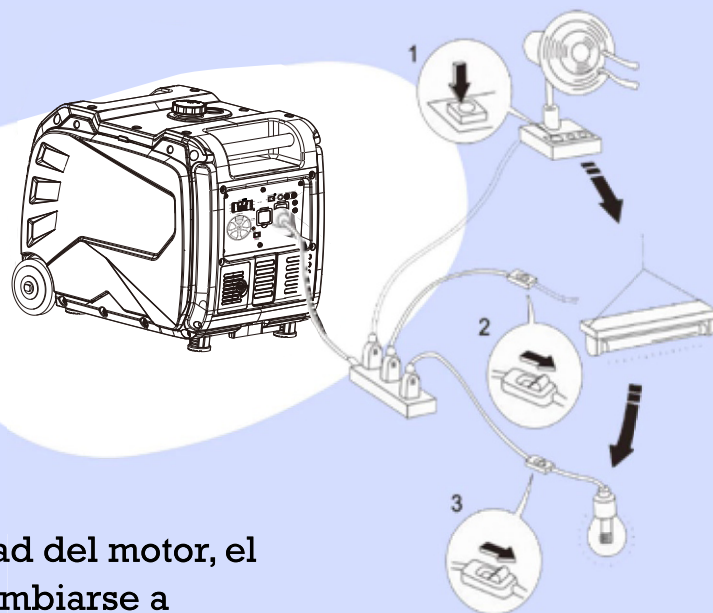
ATENCIÓN

Asegúrese de que todos los equipos eléctricos, incluidos los cables y enchufes, estén en buenas condiciones antes de conectarlos al generador.

- Asegúrese de que todas las cargas accionadas por el generador estén dentro del rango de carga nominal;
- Asegúrese de que la corriente de carga esté dentro del rango de corriente nominal del enchufe nominal.

Propina: Asegúrese de que el grupo electrógeno esté conectado a tierra, y si el equipo eléctrico requiere conexión a tierra, el grupo electrógeno debe estar conectado a tierra.

1. Arrancar el motor;
2. Gire el interruptor de ahorro de energía a "ON".
3. Inserte el enchufe en la toma de corriente alterna.
4. Asegúrese de que el indicador de CA esté encendido.
5. Encienda el equipo eléctrico.



Propina: Antes de aumentar la velocidad del motor, el interruptor de ahorro de energía debe cambiarse a "APAGADO". Si el generador suministra energía a múltiples cargas o equipos eléctricos, conecte primero la carga más grande y la carga más pequeña al final.

CONECTANDO SU GENERADOR

Para evitar cualquier daño al generador causado por una descarga eléctrica o una aplicación eléctrica inadecuada, se recomienda que el generador esté conectado a tierra con un buen conductor con una cubierta aislante.

- Utilice un cable de conexión a tierra con suficiente capacidad de energía eléctrica.
- Conecte un extremo del cable de conexión a tierra firmemente al perno de conexión a tierra en el panel de control del generador.
- Inserte la varilla de conexión a tierra (varilla de hierro con un diámetro de 5 ~ 10 mm) al menos 200 mm (7,9 pulgadas) en el suelo y extráigala con el conductor.
- Conecte el otro extremo del cable de conexión a tierra firmemente al cable de la varilla de conexión a tierra.

BATERIA CARGANDO

- El voltaje de CC nominal de este generador es de 12V.
- Después de encender el generador, conecte la batería al generador.
- Antes de cargar, asegúrese de que el protector de CC esté encendido.

1. Arranque el generador.
2. Conecte el cable rojo (positivo) del cable de carga al terminal positivo (+) de la batería.
3. Conecte el cable negro (negativo) del cable de carga al terminal negativo (-) de la batería.



ATENCIÓN

Asegúrese de que el cable rojo / positivo del cargador esté conectado al terminal positivo de la batería (+), y el cable negro / negativo esté conectado al terminal negativo de la batería (-). **No invierta estas conexiones.**

- La conexión entre el cable del cargador y el terminal de la batería debe ser confiable, para evitar que el generador se mueva o se afloje.
- Siga los pasos del Manual del usuario para un funcionamiento correcto.
- En el proceso de carga, si la corriente consumida por los dispositivos conectados excede el valor de la corriente nominal, el protector de CC apagará la salida.

BATERIA CARGANDO

Presione el protector de CC en “ON” para reiniciar la carga. Si el protector de CC se apaga nuevamente, deje de cargarlo inmediatamente y comuníquese con su distribuidor.

Propina: Mida la cantidad específica de electrolito para determinar si la batería está cargada por completo. En el caso de carga completa, la gravedad específica del electrolito está entre 1.26 y 1.28. Se recomienda verificar la gravedad específica del electrolito al menos una vez por hora, para evitar que la batería se sobrecargue.



Nunca fume, y nunca conecte o desconecte la conexión a la batería durante la carga. La chispa generada encenderá gas alrededor de

la batería. El electrolito de la batería contiene ácido sulfúrico, que es tóxico y con riesgo de quemarse. Evite exponerse a la piel, ojos y ropa.

En caso de exposición accidental al ácido sulfúrico, siga los siguientes pasos:

- Exposición externa: enjuague con gran cantidad de agua.
- Ingestión accidental: beba una gran cantidad de agua o leche, y beba leche, huevo líquido o aceite vegetal que contenga óxido de magnesio. Busque ayuda médica de inmediato.
- Exposición ocular: enjuague los ojos con agua durante 15 minutos y busque tratamiento médico de inmediato.

Propina: La batería puede generar gases explosivos, así que manténgala alejada de chispas, llamas o cigarrillos, etc. Cargue o use la batería solo en un espacio bien ventilado. Se recomienda encarecidamente usar protección para los ojos cuando trabaje cerca de la batería.

Mantenga la batería fuera del alcance de los niños.

- Se pueden usar CA y CC al mismo tiempo, pero la potencia total no puede exceder la potencia de salida nominal del generador.
- Cuando la potencia total excede la potencia nominal, el indicador de sobrecarga se encenderá.

SERVICIO Y MANTENIMIENTO

Un buen mantenimiento y servicio es la mejor garantía para un funcionamiento seguro, económico y confiable. También contribuye a la protección del medio ambiente. Para mantener el generador en buenas condiciones, debe inspeccionarlo y mantenerlo regularmente. El programa de mantenimiento es el siguiente:

Artículo	Ciclo de mantenimiento	Cada uso	Primer mantenimiento después de 1 mes o después de 20 horas de uso	Mantenimiento realizado cada tres meses o cada 50 horas de uso	Mantenimiento realizado cada año o cada 100 horas de uso
Aceite de motor	Verificar y llenar	✓			
	Reemplazar		✓	✓	
Aceite para engranajes de caja de cambios (si corresponde)	Revisar el nivel de aceite	✓			
	Reemplazar		✓	✓	
Elemento del filtro de aire	Inspección	✓			
	Limpiar		✓		
	Reemplazar			✓	
Tazón de sedimentación (si lo hay)	Limpiar				✓
Bujía	Limpiar y ajustar				✓ *
Eliminador de chispas	Limpiar			✓	
Velocidad de ralentí (si la hay)**	Verificar y ajustar				✓
Juego de válvulas	Verificar y ajustar				✓
Depósito de combustible y filtro de combustible	Limpiar				✓
Manguera de combustible	Inspección	Cada dos años (reemplazar si es necesario)			
Culata, pistón	Eliminar el depósito de carbono**	Desplazamiento <225cc, cada 125 horas Desplazamiento ≥225cc, cada 250 horas			

* Estos artículos serán reemplazados si es necesario

** Estos artículos deben ser mantenidos por un distribuidor autorizado o centro de servicio, a menos que el usuario tenga las herramientas adecuadas y la capacidad de mantenimiento

SERVICIO Y MANTENIMIENTO



ATENCIÓN

- Si el generador se usa con frecuencia a altas temperaturas o con una carga alta, el aceite debe cambiarse cada 25 horas.
- Si el generador se usa con frecuencia en ambientes polvorientos o hostiles, el elemento del filtro de aire debe limpiarse cada 10 horas de uso. De lo contrario, el elemento del filtro de aire debe reemplazarse cada 25 horas de uso.
- El generador debe mantenerse si se descubren problemas, ya sea en una inspección puntual o en inspecciones programadas regularmente (vea la página siguiente), lo que ocurra antes.
- Si ha transcurrido el tiempo del ciclo de mantenimiento, realice el mantenimiento lo antes posible según la tabla (consulte la página siguiente).



ADVERTENCIA

Primero apague el motor antes de realizar cualquier mantenimiento. El motor debe colocarse en posición horizontal. Para evitar que el motor arranque accidentalmente, retire la tapa de la bujía de la bujía.

No use el generador en interiores, ni lo use en un túnel, cueva u otro espacio cerrado mal ventilado.

Asegúrese de que su área de trabajo esté bien ventilada. El gas de escape del motor contiene gases tóxicos, monóxido de carbono, y la inhalación puede causar shock, pérdida de conciencia e incluso la muerte.



¡ADVERTENCIA!

El generador en funcionamiento emite **monóxido de carbono**: un gas inodoro, incoloro y **venenoso**.

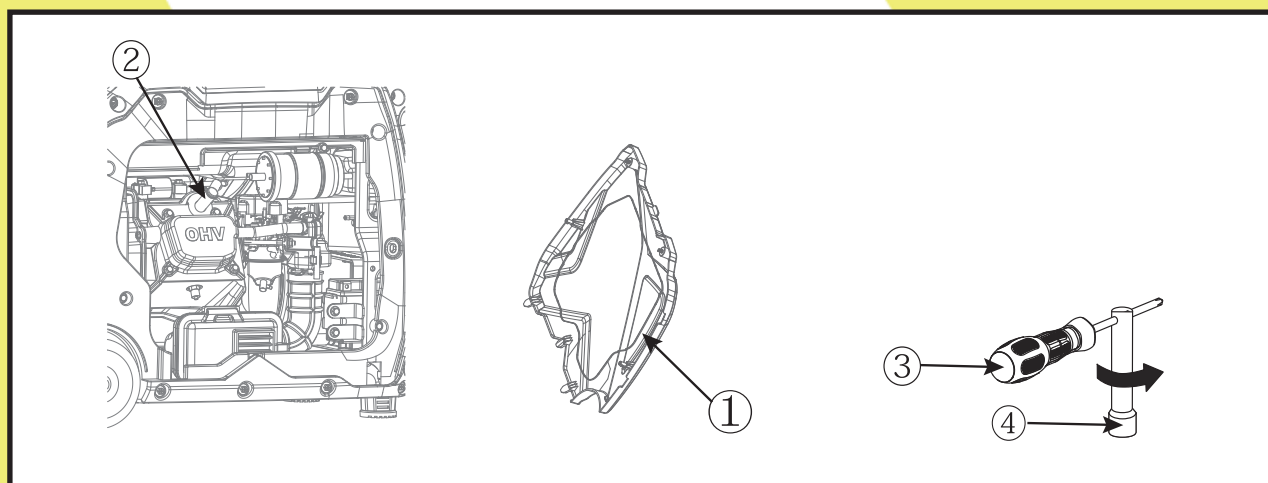
¡Respirar monóxido de carbono puede causar náuseas o la muerte!



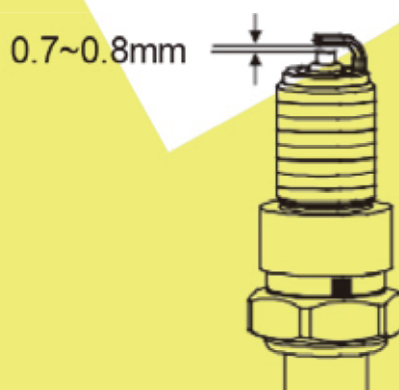
INSPECCIÓN DE BUJÍAS

La bujía es una parte importante del generador, que debe inspeccionarse regularmente.

1. Retire la cubierta decorativa y la tapa de la bujía del generador.
2. Inserte un destornillador en la funda, gírelo en sentido antihorario y luego retire la bujía.
3. Compruebe si hay decoloración y elimine los depósitos de carbono. Verifique si hay un depósito marrón claro a moderado en los núcleos de cerámica alrededor del electrodo central de la bujía.
4. Verifique el modelo de bujía y el espacio libre.



Propina: El espacio libre de la bujía se debe medir con un medidor de espesor de línea, que se ajustará si es necesario.



Standard spark: F6RTC
Spark plug gap: 0.7-0.8mm

INSPECCIÓN DE BUJÍAS

El par frío de la bujía es de 12.5 Nm.

Si no hay una llave dinamométrica al instalar la bujía, un mejor método de estimación es atornillarla 1 / 4-1 / 2 vueltas por la fuerza después de atornillarla en su lugar, pero la bujía se atornillará al par especificado tan pronto como sea posible.

AJUSTE DEL CARBURADOR

El carburador es un componente importante del motor. El ajuste debe ser realizado por un distribuidor autorizado o centro de servicio con conocimiento profesional, datos profesionales y equipos, para garantizar el ajuste adecuado.

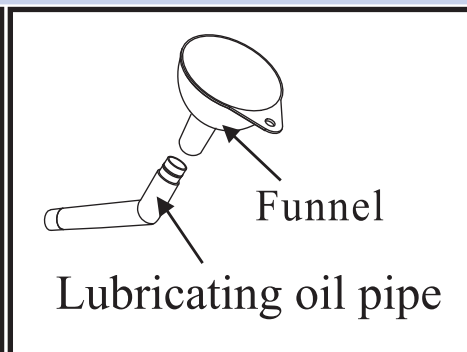
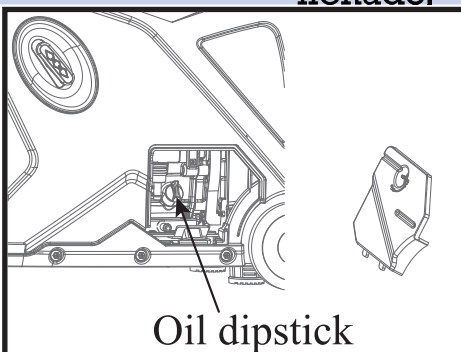
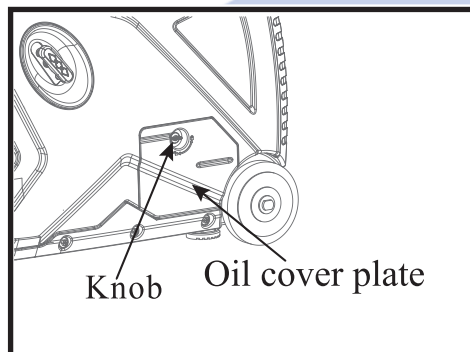
REEMPLAZO DEL ACEITE



No drene el aceite inmediatamente después de apagar el generador; Durante o inmediatamente después de la operación, el aceite está muy caliente y puede causar quemaduras graves.

Coloque el generador en una superficie horizontal plana, para poner en marcha el generador, funcionando durante unos minutos para aumentar su temperatura, y luego apague el motor y gire el interruptor de combinación tres en uno a “APAGADO”.

1. Desatornille la perilla de la placa de cubierta de aceite
2. Retire la placa de cubierta de aceite.
3. Desenrosque la varilla medidora de aceite.
4. Coloque una bandeja de aceite debajo del motor, incline el generador para verter aceite rápidamente.
5. Coloque el generador en una superficie horizontal plana.
6. Rellene aceite hasta la línea de llenado.



REEMPLAZO DEL ACEITE

Aceite recomendado: SAE S10W / 30

**Grado de aceite: API estándar Modelo SJ
o superior Volumen: 0.53L**

Cuando se haya rellenado el aceite, apriete la varilla de nivel de aceite, vuelva a colocar la placa de cubierta externa en su lugar y apriete la perilla.

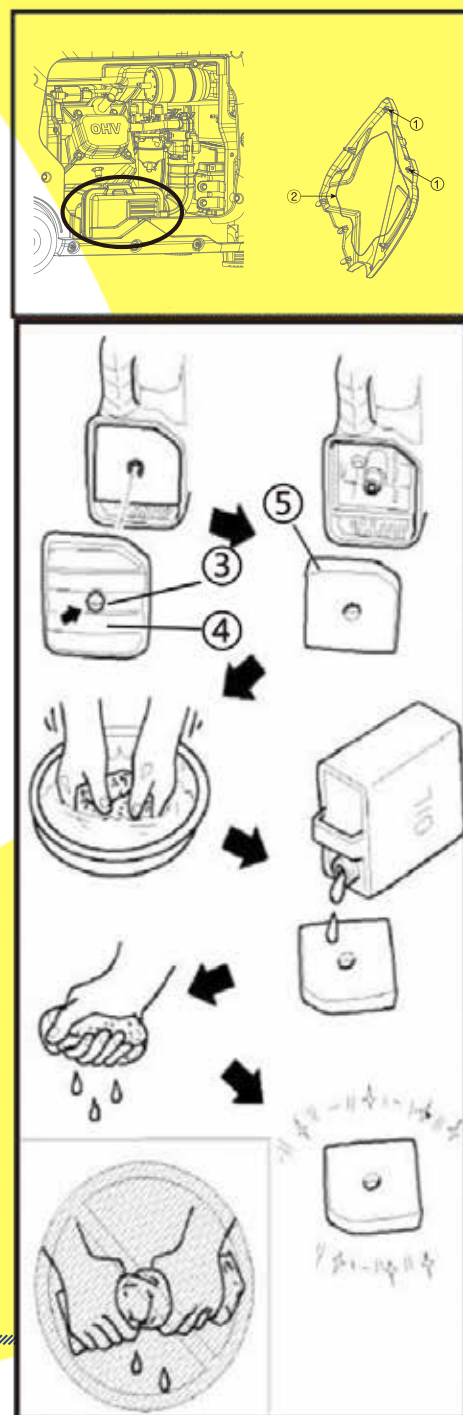
REEMPLAZO DEL FILTRO DE AIRE

Un filtro de aire sucio puede evitar que el aire fluya hacia el carburador. Para evitar la falla del carburador, mantenga el filtro de aire regularmente. Si el generador se utiliza en un entorno polvoriento, debe mantenerse con frecuencia.

1. Retire los tornillos y retire la tapa.
2. Retire la placa de cubierta del filtro de aire.
3. Retire los tornillos.
4. Retire la placa de cubierta del filtro de aire.
5. Retire el elemento limpiador de espuma.

Limpie el elemento limpiador de espuma con una limpieza. solvente y secarlo. Gotee unas gotas de aceite sobre elemento filtrante de espuma y exprima el exceso de aceite. los el elemento limpiador de espuma debe estar húmedo, pero debe haber No se gotee aceite. Asegúrese de no torcer el elemento limpiador de espuma a la fuerza para evitar daños.

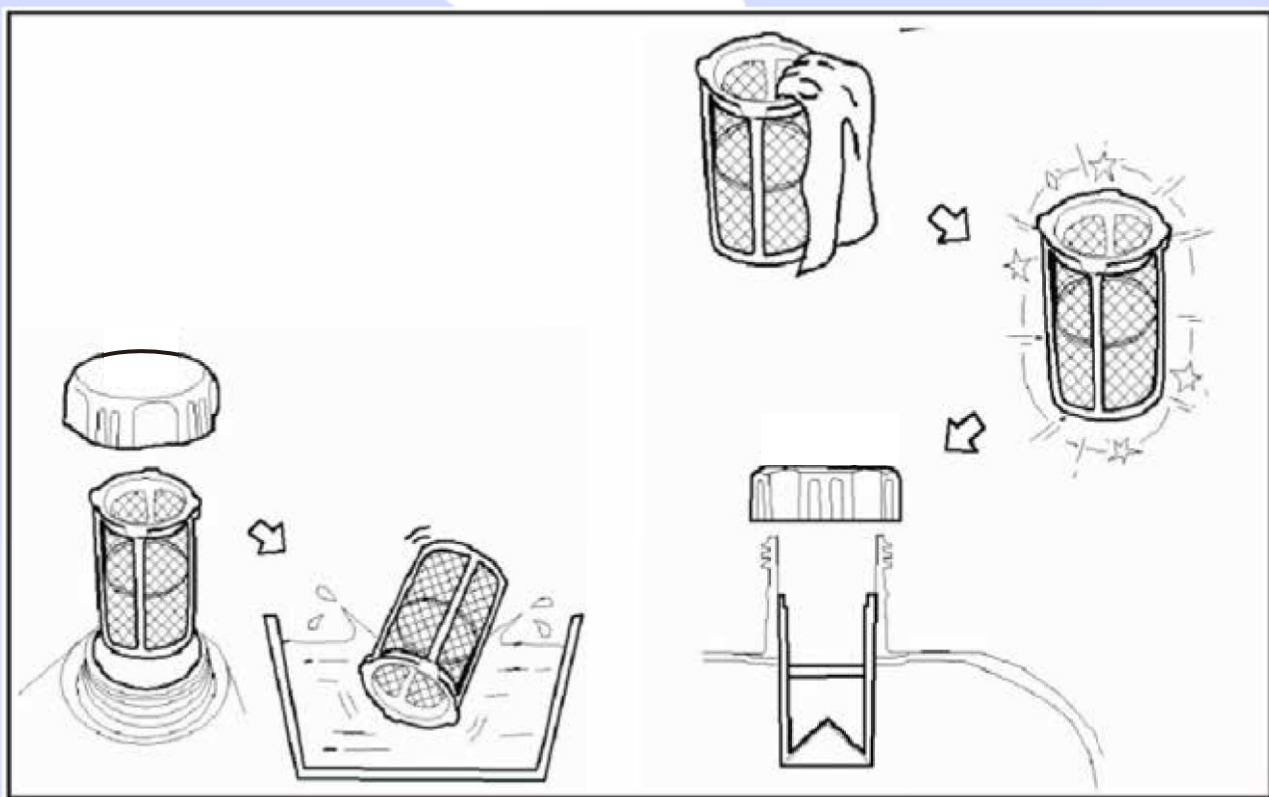
Vuelva a colocar el elemento limpiador de espuma en el filtro de aire. Asegúrese de que la superficie del elemento limpiador de espuma esté en contacto cercano con el filtro de aire; no debe haber brecha de fuga de aire. No arranque el motor antes de ensamblar el filtro de aire, ya que generará gases tóxicos excesivos y provocará desgaste en el cilindro.



REEMPLAZO DEL FILTRO DE AIRE

Vuelva a colocar la tapa vacía del filtro de aire en su posición original y apriete los tornillos. Vuelva a armar la cubierta del filtro de aire y apriete la perilla.

REEMPLAZO DE LA PANTALLA DEL FILTRO DE COMBUSTIBLE



ADVERTENCIA

Asegúrese de no abrir el tanque de combustible del generador en un lugar mientras fuma o cerca de una llama abierta.

1. Retire la tapa del tanque de combustible y la pantalla del filtro del tanque de combustible.
2. Limpie la pantalla del filtro del tanque de combustible con gasolina.
3. Seque la pantalla del filtro y vuelva a colocarla en el tanque de combustible.
4. Vuelva a montar la tapa del tanque de combustible.



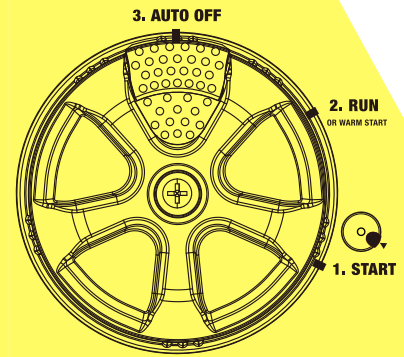
ATENCIÓN

Asegúrese de atornillar la tapa del tanque de combustible.

ALMACENANDO SU GENERADOR

Si el generador se va a colocar en un almacenamiento a largo plazo, debe tomar medidas preventivas para evitar daños.

1. Gire el interruptor tres en uno a "APAGADO".
2. Abra la tapa del tanque de combustible y retire la pantalla del filtro de combustible. Bombear todo el combustible en el tanque de combustible en un tanque de combustible portable, y luego vuelva a montar la tapa del tanque de combustible.
3. Arranque el motor para quemar el combustible restante en el carburador y luego párelo.



Propina: No conecte ningún equipo eléctrico. El tiempo de funcionamiento del motor dependerá de la cantidad de combustible restante en el tanque de combustible.

4. Retire los pernos del lado derecho del gabinete.
5. Desatornille el perno de drenaje de combustible en el carburador y drene todo el combustible restante en el carburador en un tanque de combustible portátil.
6. Gire el interruptor de combinación tres en uno a "APAGADO".
7. Apriete el perno de drenaje de combustible.
8. Vuelva a montar el lado derecho del gabinete y apriete los pernos.
9. Después de que el motor se enfríe por completo, apague la perilla de ventilación de la tapa del tanque de combustible.
10. Desenrosque la varilla medidora de aceite y drene el aceite en el cárter. Agregue aceite nuevo a la línea de llenado y luego vuelva a montar la varilla medidora de aceite.
11. Retire la bujía y vierta una cucharada de aceite limpio en la cámara de combustión. Gire el cigüeñal unas pocas vueltas para distribuir el aceite por todas partes y luego vuelva a montar la bujía.
12. Jale suavemente la manija de arranque hasta que sienta resistencia, permitiendo que tanto la válvula de entrada como la válvula de escape se cierren.
13. Almacene el generador en un área limpia y seca.



ADVERTENCIA

Si el generador se deja en un área cerrada o en un vehículo, las altas temperaturas en el interior pueden hacer que el combustible residual se vaporice y se produzca una posible explosión.

TRANSPORTANDO SU GENERADOR

Cuando se transporta el generador, asegúrese de que no se derrame combustible.

- No sobrellene el tanque de combustible.
- No haga funcionar el generador durante el transporte y evite transportarlo a la luz solar directa.
- No transporte el generador por caminos irregulares durante un tiempo excesivamente largo.

SOLUCIÓN DE PROBLEMAS

EL MOTOR NO PUEDE ARRANCAR:

1. Sistema de combustible

- Verifique si hay combustible en el tanque.
- Si no hay combustible en el tanque, agregue combustible.
- Si el tubo de aceite está bloqueado, limpie el tubo de aceite.
- Si hay materia extraña en la válvula de combustible, limpie la obstrucción de la válvula.
- Si el carburador está bloqueado, limpie la obstrucción del carburador.

2. Bajo nivel de aceite

- Si el nivel de aceite es demasiado bajo, agregue aceite nuevo.

3. Sistema de circuito

- Asegúrese de que el generador se pueda encender (en funcionamiento).
- Verifique si la bujía necesita ser reemplazada. Si la bujía está manchada con depósitos de carbono o humedad, límpiela y séquela.
- Mal sistema de encendido., Solicite servicio técnico a su agencia.

4. Mala compresión

- Abrasión del pistón y el cilindro, Solicite servicio al concesionario de su agencia.
- Si los tornillos en la parte superior de la culata están flojos, apriételos adecuadamente.
- Si la junta de sellado está dañada, reemplace la junta.

5. El generador no genera energía

- Si se ha acumulado humedad o condensación en el generador, seque el generador.
- Si alguna conexión del circuito está floja, vuelva a insertar los conectores flojos.
- Si uno de los zócalos de salida está dañado, reemplace el zócalo.
- Si la luz de sobrecarga está encendida, desconecte todos los dispositivos y luego apague y reinicie el motor.

