

GENMAX GENERATOR GM4600iAEDC Inverter Generator



GENMAX GENERATOR GM4600iAEDC Inverter Generator User Manual

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GENMAX GENERATOR GM4600iAEDC Inverter Generator



WARNING: SAVE THIS MANUAL FOR FUTURE REFERENCE

This manual contains important information regarding safety. Operation, maintenance and storage of this product. Before use, read carefully and understand all cautions, warnings, instructions and product labels. Failure to do so could result in serious personal injury and/or property damage

California

Proposition 65 Warning

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

California

Proposition 65 Warning

Certain components in this product and its related accessories contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

DISCLAIMERS:

All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Some images may vary depending upon which model is shown.

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Danger

This manual contains important instructions for operating this inverter generator. For your safety and the safety of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed

UNPACKING

Caution

- Always have assistance when lifting the generator. The generator is heavy; lifting it could cause bodily harm.
- Avoid cutting on or near staples to prevent personal injury.

Tools required – box cutter or similar device.

1. Carefully cut the packing tape on top of the carton.
2. Remove socket wrench, and oil funnel and save for later.
3. Carefully cut two sides of the carton to remove the generator.

WHAT COMES IN THE BOX

- Spark Plug Socket Wrench (1)
- Dual-Purpose Screwdriver (1)
- User Manual (1)
- Warranty Information (1)
- Funnel (1)
- Cigarette Lighter to USB-C&A Adapter (1)
- Remote Control Key (1)
- LPG Hose (1)
- 450ml 10W30 Oil(1)
- Battery Charger (1)

DESCRIPTION OF FITTINGS

Spark Plug Socket Wrench



Used in spark plug maintenance, inspection, and installation.

Dual-Purpose Screwdriver



Phillips and slot blade screwdriver used for generator maintenance.

Funnel



It's used to oil the generator.

Cigarette Lighter to USB-C&A Adapter



Convert the cigarette lighter socket to a USB-C&A socket.

450ml 10W30 Oil



Be sure to add oil before starting the generator.

Remote Control Key



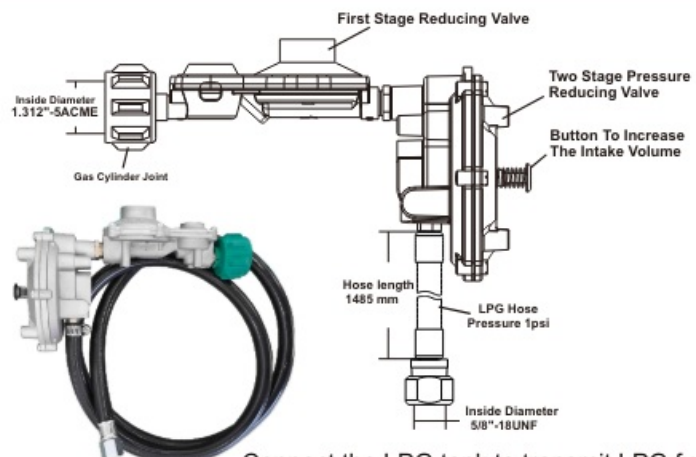
Used to remotely start and stop the generator.

Battery Charger



Used to charge the battery when in storage.

LPG Hose



Connect the LPG tank to transmit LPG fuel to the generator.

Note: Actual tools may differ in appearance or design from image shown

LIMITED WARRANTY

1. **DURATION** : One (1) year from the date of purchase by the original purchaser (retail customer) on products used solely for consumer applications; if a product is used for business, commercial, or industrial applications, the warranty period will be limited to ninety (90) days from the date of purchase.
2. **WHO GIVES THIS WARRANTY (WARRANTOR)**: CHONGQING DINKING POWER MACHINERY CO., LTD
3. **WHO RECEIVES THIS WARRANTY(PURCHASER)**:The original purchaser (other than for purposes of resale) of the Genmax's inverter.
4. **WHAT PRODUCTS ARE COVERED BY THIS WARRANTY**: Any portable generator supplied or manufactured by Warrantor.

5. WHAT IS COVERED UNDER THIS WARRANTY: Substantial defects on material and workmanship which occur within the duration of the warranty period.
6. WHAT IS NOT COVERED UNDER THIS WARRANTY:
- A. Transportation changes for sending the product to Warrantor or its authorized service representative for warranty service, or for shipping repaired or replacement products back to the customer; these charges must be borne by the customer.
 - B. Damages caused by abuse, accident, shipping, misuse, overloading, modification, and the effects of corrosion, erosion and normal wear and tear.
 - C. Warranty is voided if the customer fails to install, maintain and operate the product in accordance with the instructions and recommendations set forth in the owner's manual(s), or if the product is used as rental equipment.
 - D. Pre-delivery service, i.e. assembly, oil or lubricants, and adjustment.
 - E. Items or service that are normally required to maintain the product, i.e. lubricants and filters.
 - F. Warrantor will not pay for repairs or adjustments to the product, or for any costs or labour, performed without Warrantor's prior authorization.
 - EXCLUSIONS AND LIMITATIONS : Warrantor makes no other warranty of any kind, express or implied. Implied warranties, including warranties of merchantability and of fitness for a particular purpose, are hereby disclaimed. This warranty service described above is the exclusive remedy under this warranty; liability for incidental and consequential damages is excluded to the extent permitted by law.
7. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:
- A. The purchaser must provide dated proof of purchase and must notify Warrantor within the warranty period.
 - B. Deliver or ship the serviced generator or component to the nearest Warrantor's authorized service representative. Freight costs, if any, must be borne by the purchaser.
8. HAVE QUESTIONS?
- Email: service@genmaxpower.com
 - Phone: [866-960-2920](tel:866-960-2920)

WARRANTY CARD

PERSONAL INFORMATION

Name: _____

Street Address: _____

City, State, ZIP: _____

Country: _____

Phone Number: _____

E-Mail: _____

INVERTER INFORMATION

Model Number: _____

Serial Number: _____

Date Purchased: _____

Purchased From: _____

SAFETY WARNING

The personal and property safeties of you and others are very vital. Please read the Safety Warning in the User's Manual and the decals of the generator set carefully. The Safety Warning can alert you to those potential hazards that could harm you and others. In front of each Safety Warning, there is one of four words "DANGER"

“WARNING”, “ATTENTION”, and “CAREFUL”. Details are as follows:

- **DANGER**
 - Failure to follow the instructions will result in being in peril of your life or extremely serious injury.
- **CAREFUL**
 - Failure to follow the instructions will result in minor injury.
- **WARNING**
 - Failure to follow the instructions will result in being in peril of your life or very serious injury.
- **ATTENTION**
 - Failure to follow the instructions will result in damage to your generator set and other properties.

CO TECHNICAL WARNING

CO DETECT technology monitors the accumulation of carbon monoxide (CO), a poisonous gas produced by engine exhaust when the generator is running. If CO Sensor detects unsafe elevated levels of CO gas, it automatically shuts off the engine. CO Sensor is not a substitute for an indoor carbon monoxide alarm or for safe operation. DO NOT allow engine exhaust fumes to enter a confined area through windows, doors, vents or other openings. Generators must ALWAYS be used outdoors, far away from occupied buildings with engine exhaust pointed away from people and buildings. Meets the requirements of ANSI/PGMA G300-2018.

NEUTRAL FLOATING

For portable generators where the neutral is floating, the operator’s manual shall include the following wording or equivalent: 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

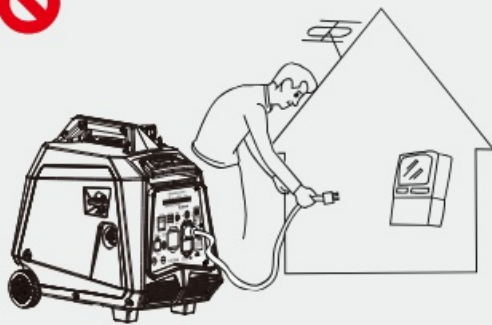
Before operating the generator, it will help you avoid accidents to read and understand the Manual and familiarize yourself with the safe operation procedures of the generator.



Please do not use indoors



Please do not use in humid environment



Please do not connect it to household appliances directly



Please do not smoke when refueling

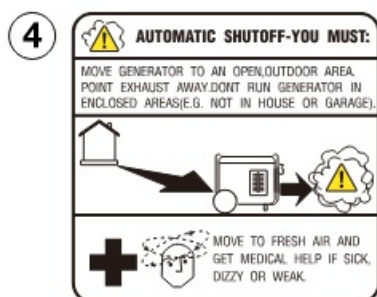
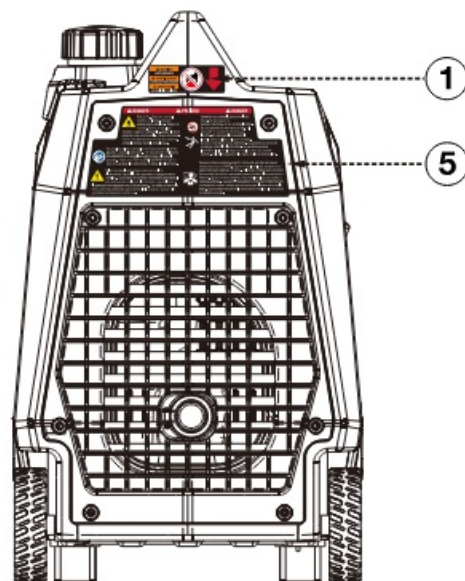


Please do not spill when refueling

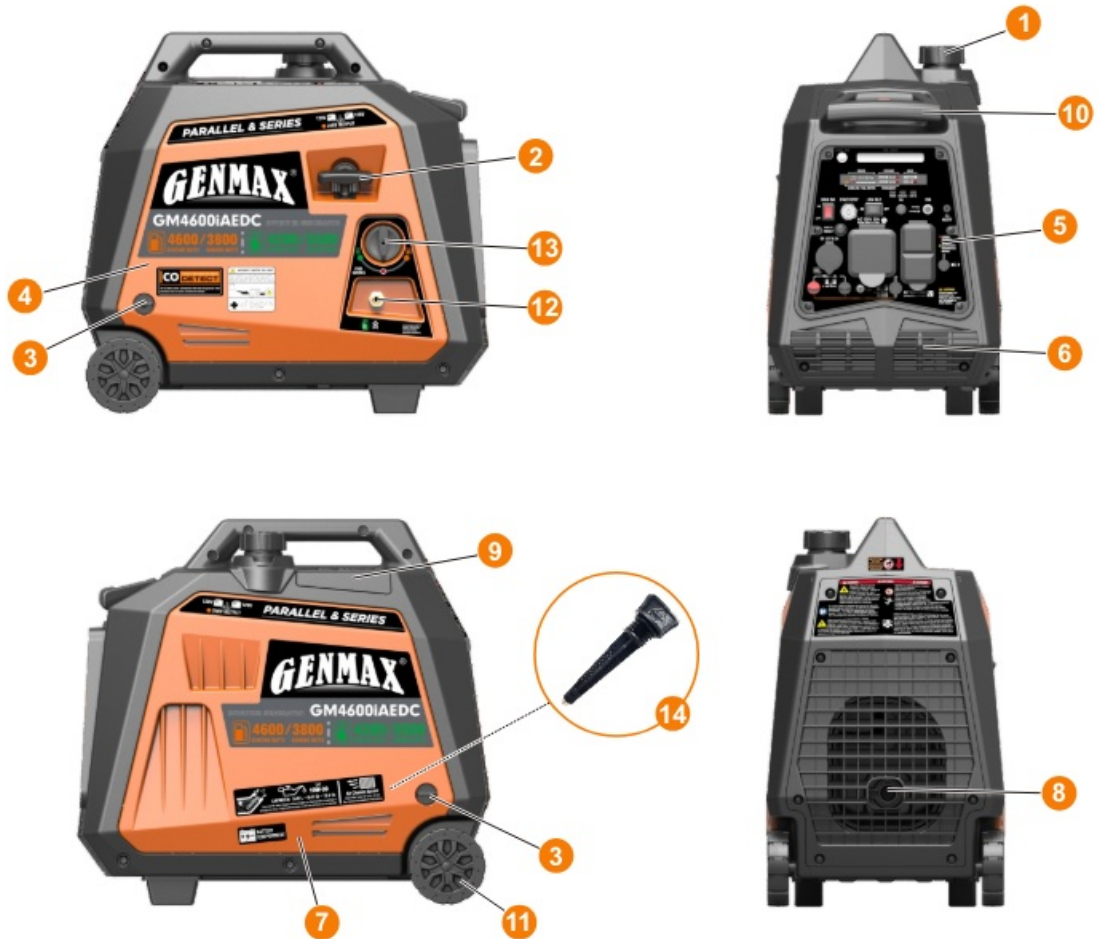


Please shut down the generator before refueling

SAFETY LABELS AND DECALS

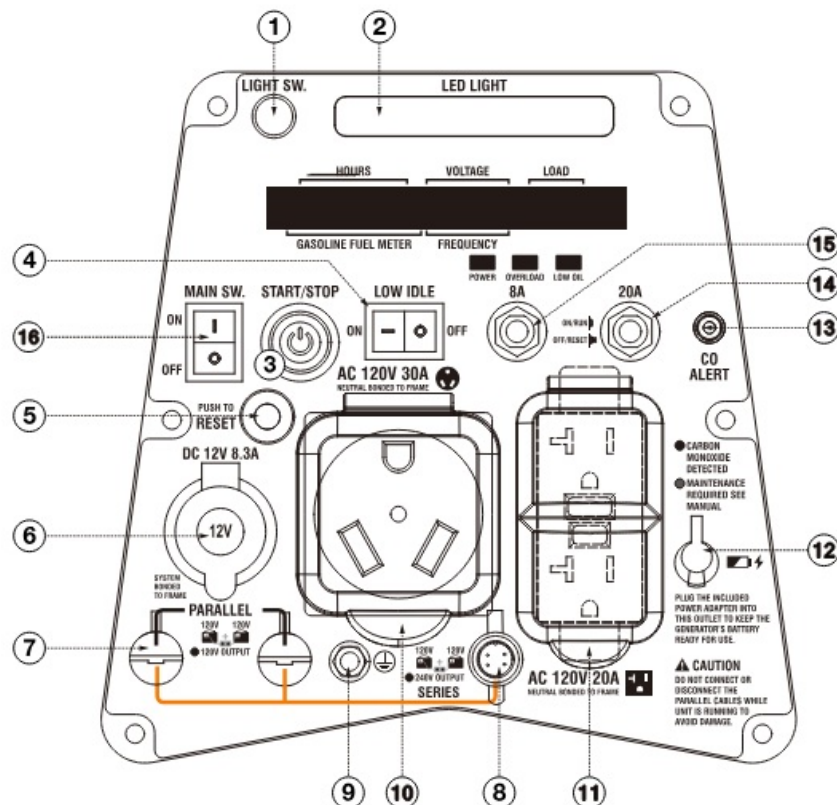


NAMES OF COMPONENTS



1. Fuel Tank Cap: Open the fuel tank cap and fill with proper amount of gasoline.
2. Recoil Handle: Pull to start the engine.
3. Bolt: Remove left (right) outer cover.
4. Left Outer Cover
5. Control Panel: Contains the reset breaker, outlets and warning lights.
6. Engine Cooling Vents: Helps move airflow in unit to regulate engine temperatures.
7. Right Outer Cover: Unscrew the bolts to remove the outer cover, add or replace the oil and maintain the air filter.
8. Muffler: Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.
9. Spark Plug Access Cover: Remove the cover to service the spark plug.
10. Telescopic Rod
11. Wheel
12. LPG Inlet: Connects the LPG inlet to the LPG hose/regulator.
13. Fuel Source: GAS/LPG valve that changes the fuel into the engine.
14. Magnetic Oil Dipstick: absorb iron filings in the oil, it is recommended to screw down the magnetic oil dipstick and clean it every 50 hours.

CONTROL FUNCTIONS

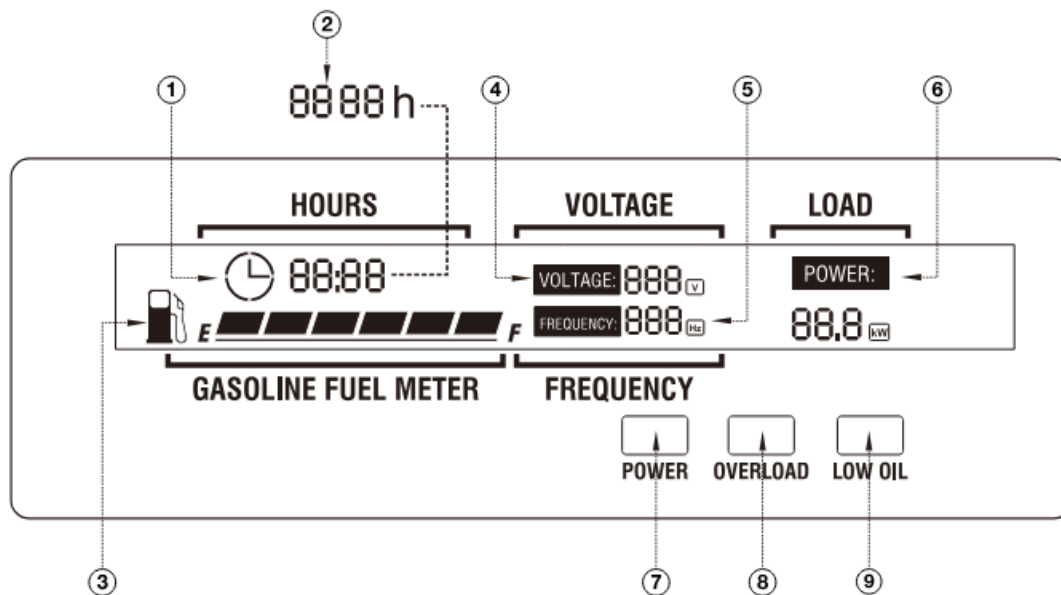


CONTROL PANEL FEATURES GM4600iAEDC

1. Light Switch: Press the first time to turn on the LED light and press the second time to turn off the LED light.
2. LED Light: 1. The LED light can be used normally when the generator is running, and the LED light cannot be used when the generator shuts down.
 - 2. If the LED light is not turned off, press the one-key start button (or remote control key) to stop the generator while the main switch is not turned off, the LED light will automatically turn off after 30 seconds.
 - 3. Press the one-key start button (or remote control key) to stop the generator and also turned off the main switch, the LED light will go out immediately.
3. START/STOP Switch: Press this button, the engine can start and stop.
4. Low Idle Switch: When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.
5. Reset: 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.
6. DC Cigarette Lighter Outlet: 12V DC 8.3A. ⑦ Parallel Connectors: To increase AC power output, the connector sockets are used to connect the two same type generators with special parallel kit GM6000SPK sold by GENMAX. The connector sockets is only used to connect two inverter generators. They can not used for AC power output. The special paralleling kit GM6000SPKshall be purchased separately, and they shall be approved by certification body.
7. Series Connectors :
 - a. When using parallel kits, two 120V generators can output 240V by connecting this interface.
 - b. Connect with the GM1600WH to automatically start or stop charging the GM1600WH.
8. Ground Terminal: The ground terminal is used to externally ground the inverter.
9. 120V AC 30A TT-30R Outlet: The outlet is capable of carrying a maximum of 30 amps.

10. 120V AC 20A 5-20R Outlet: The outlet is capable of carrying a maximum of 20 amps.
11. Battery Charging Port: Charge the generator battery.
12. CO Alarm: Flashing red light: dangerous levels of carbon monoxide gas have built up leave immediately until area has aired out. Move generator to well-ventilated area before operation. Flashing yellow light: carbon monoxide sensor malfunction. Sensor needs service.
13. AC Protector: If the generator is overload, the AC protector will trip to block current.
14. DC Protector: If the generator is overload, the DC protector will trip to block current.
15. Main Switch: Manage battery power and shutdown. Tip: If you do not use the generator for more than 7 days (168 hours), please press the main switch to the "OFF" position, which can prevent the battery from running out.

DIGITAL DISPLAY CENTER



1. 88:88 : Represents single run time, goes from 0 at each startup.
2. 8888 h : Represents total operation time of the generator. (Tip: The total operation time shall start to accumulate after the generator runs for one hour. It will not be displayed when the generator runs for less than one hour. The total operation time shall be accumulated by hours.) The two factors ① and ② are displayed alternately every 8 seconds.
3. GASOLINE FUEL METER: Gasoline fuel level display.
4. VOLTAGE: Voltage display.
5. FREQUENCY: Frequency display.
6. LOAD: Load power display.
7. POWER: Green light means normal operation.
8. OVERLOAD: Red light means the machine overload.
9. LOW OIL: Red light means the amount of oil is too low.

PREPARATIONS

Fuel

DANGER

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

ATTENTION

- After refueling, dry gasoline residue with a clean and soft cloth in time to avoid damaging plastic enclosure;
- Unleaded gasoline must be used, as leaded gasoline can seriously damage internal parts of the generator;

Remove fuel tank cap, and add gasoline to red horizontal indicating line oil level. Fuel tank capacity: 1.6gal (6L)



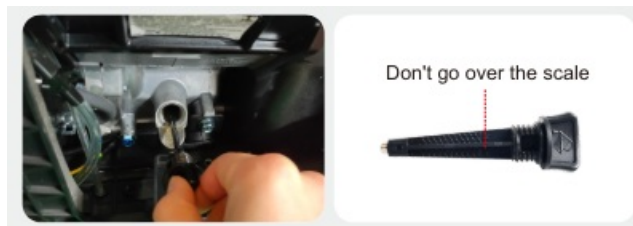
Oil

No oil is filled into this generator when being delivered. Do not start up the generator without filling sufficient oil.

1. Please place the generator onto a horizontal plane surface;
2. Loosen the knob on the right cover counterclockwise and remove the right cover;



3. Unscrew oil dipstick, Fill in 0.12gal(0.45L) oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher);



4. Reinstall the right exterior cover and tighten the knob.

Pre-use Inspection

WARNING

Even if the generator is not in service, its important component may suddenly fails. Before the generator is started up, if any of following components is unable to work properly, please inspect and repair carefully.

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

Pre-operation inspection

Project	Possible Causes	Probable Solutions
Fuel	Check fuel level in fuel tank of the generator.	Add fuel if necessary.
Oil	Check oil level of the generator.	Add oil if necessary.
	Check whether there is oil leaking.	
Abnormal conditions during operation	Check operating condition of the generator.	If there is any need, please do not hesitate to consult your dealer.
Battery	Check whether the battery is full.	See the "Battery Charging" page.

STARTING UP THE GENERATOR

1. Remove the load from all output ends;
2. Connect battery line before first use:
 1. Loosen the knob on the right cover and remove the cover;
 2. Connect the positive and negative electrodes of the battery.

Tip: Connect the same color wires together, do not connect the wrong positive and negative wires.



3.

3. Select the Fuel:



a. Gasoline: Turn the Fuel Source Switch to gasoline.



b. LPG:

1. Connect the LPG hose to the LPG tank.
2. Tighten the other end of the LPG hose to the generator intake.
3. Turn the fuel source switch to gas.

Tip: If the cold engine fails to start many times, press the thickening valve button on the secondary pressure reducing valve for 2-3 seconds to thicken the gas.

1



2



3



Tip



DANGER

Fire and explosion hazard. Always turn the propane tank valve to the fully closed position if not running the generator on propane.



WARNING

When using the generator with propane, make sure there is no possible ignition source close to the generator.

4. Move the LOW IDLE Switch to “OFF”;



5. Move the Main Switch to “ON”;



6. Select Boot Mode:

- a. Recoil Start: Pull the starting handle to start the generator.
- b. START/STOP Button Switch: Press the button to start the generator.

Tip: If the red light keeps flashing fast, the generator does not start successfully. Press the button to turn off the red light, and press the button again to start the generator.

- c. Remote Start: Press the “START” button on the remote control to start the generator.



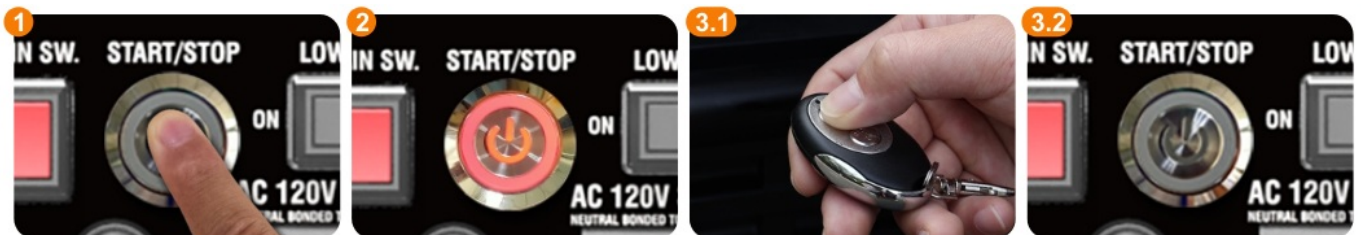
7. Plug in after started.



Remote Control Pairing

1. Long press the start button for more than 5 seconds until the button red indicator is on;
2. Press any key on the remote control;
3. The red indicator of the start button will blink two or three times and then turns off, Remote start pairing is successful.

Tip: The remote control delivered with the generator has been paired successfully.



COMMON PROBLEMS WITH STARTING THE GENERATOR:

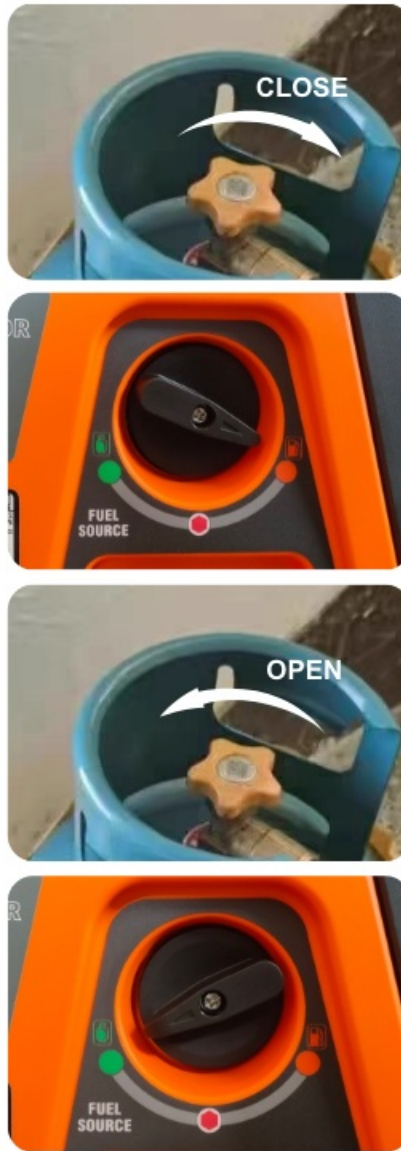
Start the generator to run normally without output ? Check whether the green light of the GFCI socket is on. If the green light is not on, press the RESET button after the generator is started to make the green light on.

Tip: When the generator is not started, the GFCI socket is in the protected state and the “RESET” button cannot be pressed.

LPG startup is difficult ?

When both gasoline and propane are present in the generator it is recommended to start the generator on gasoline first, allow the engine to stabilize then switch to propane.

1. Ensure the LPG supply hose is securely attached and Close the LPG valve completely.
2. Fuel source rocker switch to “GASOLINE”.
3. Follow the startup steps to start the generator.
4. Open the LPG valve completely.
5. Fuel source switch to “LPG”.



Electric start and remote start no response ?

1. Check whether the positive and negative electrodes of the battery are correctly connected.
2. Check whether the battery is charged.
3. Check whether the remote control is powered on.

Parallel Operation

The parallel connection ports allow you to connect two generators to increase the total available electrical power. Follow the instructions included with your parallel connection kit for proper installation and operation.

Overload Indicator

Note: The OVERLOAD light may turn on for a few seconds as a large device starts. This is normal for loads approaching the capacity of this generator.

1. The total combined load through the outlets on the generator must not exceed the running power of the unit.
2. If the OVERLOAD light turns on and the generator stops producing power, it has been overloaded.
3. Turn off and disconnect all electrical devices and stop the engine. Compare device requirements to generator

rating and reduce the total wattage of connected devices if necessary. Move anything that may be limiting generator ventilation away.

4. Check if any circuit breakers have tripped and make sure that ALL circuit breakers are reset before starting the generator again.
5. Restart the engine and reconnect devices while being careful to not overload the generator.

Low Oil Indicator

1. If the engine oil level is too low, the LOW OIL light turns on and the engine will automatically shut off.
2. The engine cannot be restarted until the proper amount of oil has been added. Add the appropriate type of oil until the oil level is at the proper level. SAE 10W-30 oil is recommended for general use.

ATTENTION

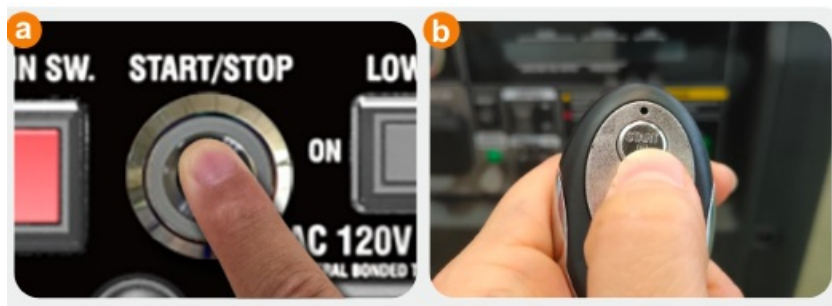
Do not run the engine with too little oil. Engine will shut off if engine oil level is too low.

Low Idle

1. Turn on a Low Idle Switch to limit noise and fuel consumption with a light generator load.
2. Turn off the low idle mode to run the engine at full speed under the following conditions:
 - Starting the generator.
 - If the load exceeds 50%, it is recommended to turn off the low idle mode.

SHUTTING DOWN THE GENERATOR

1. Unplug the power cord;
2. Select Stop Mode:
 - a. START/STOP Button Stop: Press the button to turn off the generator.
 - b. Remote Stop: Press the "OFF" button on the remote control to turn off the generator.



3. Move the Main Switch to "OFF".



4. Set the Fuel Source Switch to the off position.



USING THE GENERATOR

Service Environment of the Generator

- Applicable temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$;
- Applicable humidity: below 95%;
- Applicable altitude: regions below 1,500 m (It shall be used by reducing power in regions above 1,000 m).

Standard atmospheric condition

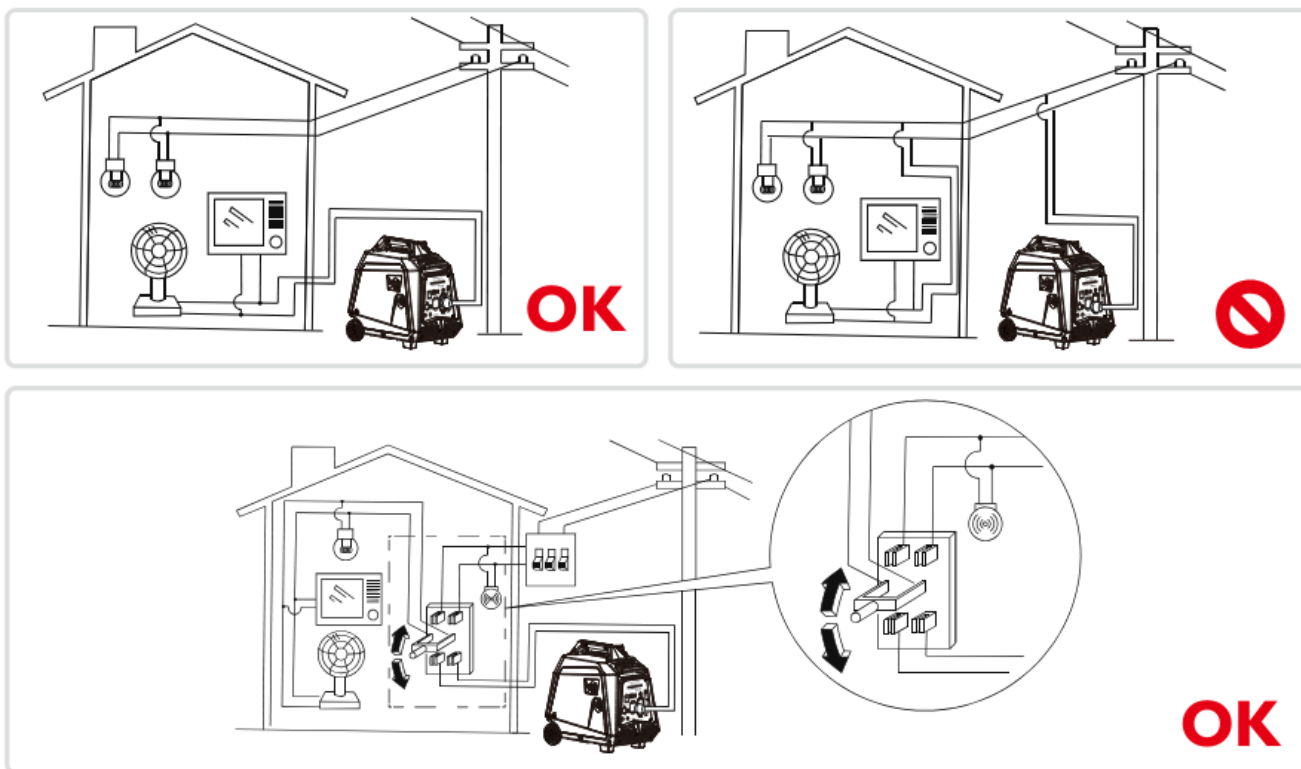
- Ambient temperature T_r : 298k (25°C)
- Relative air humidity Φ_r : 30%
- Absolute atmospheric pressure P_r : 100kPa

When actual environmental condition is inconsistent with the condition of output power of the generator set:

- Every 5°C of increase in ambient temperature will reduce the power of generator by about 2%.
- Every 30% of increase in relative humidity of air will reduce the power of generator by about 1.5%.
- Every 300 m rising of ASL will reduce the power the generator by about 4.5%.

Generator Wiring

- When the generator is connected to household power source as a backup power supply, the connection shall be carried out by a professional electrician or a person familiar with electricity.
- After connecting the load to the generator, check carefully whether electrical connection is safe and reliable. Improper electrical connection may cause generator damage, burning or fire.
- Avoid connecting this generator to commercial power outlet.
- When extending the cable, be sure not to exceed its length.
 1. 60m cross-section area is 1.5mm^2
 2. 100m cross-section area is 2.5mm^2
- The appearance of extension cable shall be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes



Connection of AC power

WARNING

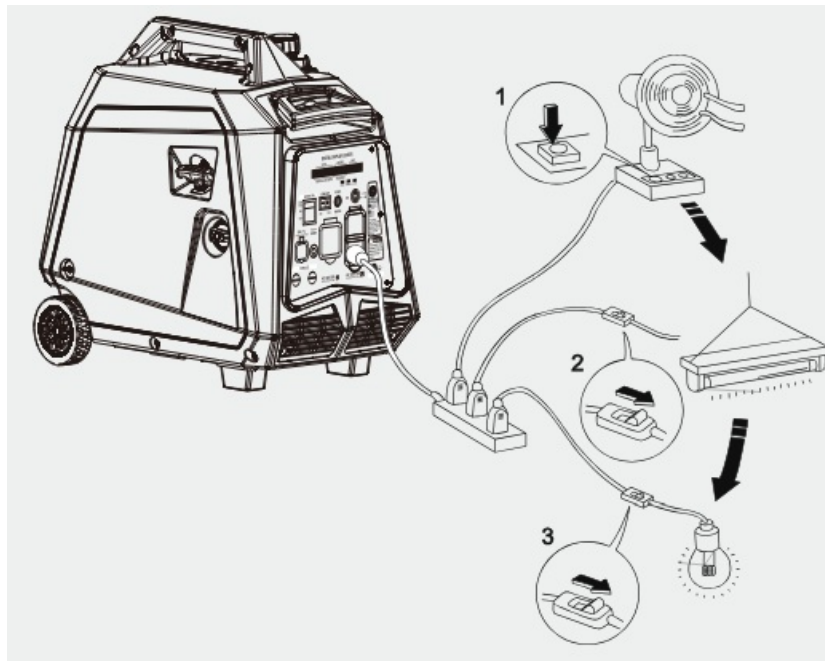
All electrical equipment shall be disconnected before inserting the plug.

ATTENTION

- 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.

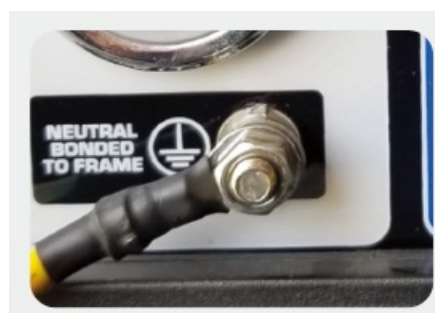


Tip: Before increasing engine speed, energysaving switch must be switched to “OFF”. If the generator set supplies power to multi loads or electrical equipment, start from large to small according to the size of each electrical equipment.

Generator Grounding

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 good conductor with insulating sheath

1. Please use grounding wire with sufficient electrical energy capacity;
2. Connect one end of grounding wire reliable to grounding bolt on control panel of the generator set;
3. Insert grounding body (iron rod with a diameter of 5 ~ 10mm) 200mm below into the earth and lead it out with conductor;
4. Connect the other end of the grounding wire reliable to the led wire of grounding body.



Tip: How to change the grounding method please refer to the website:

<https://www.genmaxpower.com/page/faq>

Parallel and Series Operation

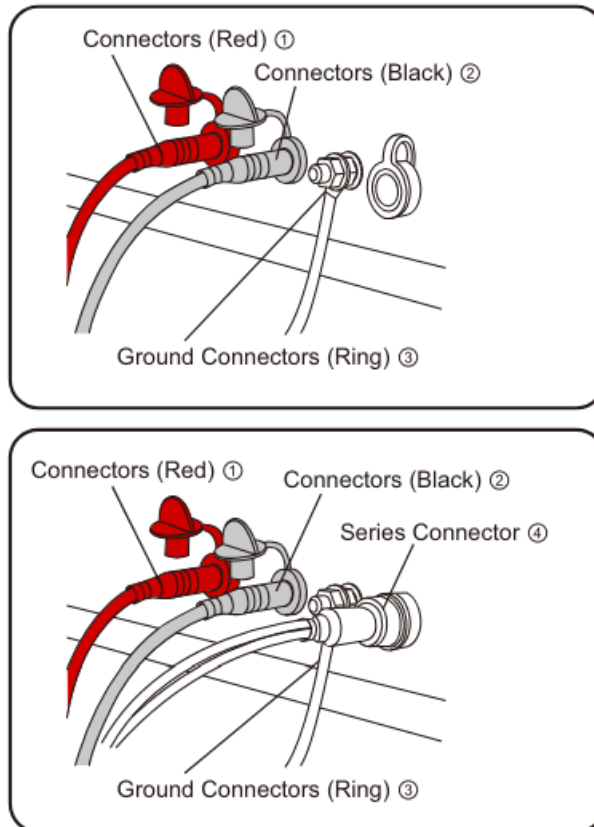
To increase AC power output, the connector sockets are used to connect the two same type generators with special parallel kit GM6000SPK sold by GENMAX. The connector sockets is only used to connect two inverter generators. They can not used for AC power output. The special paralleling kit GM6000SPK shall be purchased separately, and they shall be approved by certification body. Follow the instructions included with your parallel connection kit for proper installation and operation.

Parallel Connectors (120V OUTPUT):

Connect the parallel cables of connector (red) ① and connector (black) ② to the parallel ports of corresponding colors on the generator control panel; Connect the ground ring ③ to the generator ground terminal, and connect the other generator in the same way. Press the voltage selector switch to 120V ONLY.

Series Connectors (120/240V OUTPUT):

Connect the parallel cables of connector (red) ① and connector (black) ② to the parallel ports of corresponding colors on the generator control panel; Connect the ground ring ③ to the generator ground terminal; Connect the series connector ④ to the generator series connection port, and tighten the series connector nut. Connect the other generator in the same way. Press the voltage selector switch to 120/240V.



WARNING

TO PREVENT SERIOUS INJURY, DEATH, AND GENERATOR AND/OR EQUIPMENT DAMAGE FROM ELECTRIC SHOCK AND FIRE:

1. Follow Parallel Kit instructions provided with Kit for connection and use of a Parallel Kit.
2. Only connect two identical Inverter Generators together using a Parallel Kit.
3. Connect Parallel Kit only to terminals marked "Parallel Outlets" on the front of the Generator.
4. Do not remove or connect a Parallel Kit while the Generator is running.
5. Do not use a Parallel Kit that is attached to only one Generator. In parallel, the two generators should be connected to two fuel tanks. You cannot use the same tank to fuel two generators.

Battery Charging

The battery storage time is generally about 6 months. If the generator is not used for a long time, the battery will run out of power. At this time, the battery should be charged. Replace the battery if it is damaged or fails to charge.

Hand start charging: Start the generator by hand, and the battery will be charged automatically when the generator runs.

Use an external power source for charging:

Connect the charger to the battery charging port on the generator panel and connect the mains to charge the battery. Tip: The charging time is about 30-40 minutes



WARNING

Do not start the generator while charging with an external power supply. Keep batteries away from fire sources. Keep the battery in a cool and dry place, away from direct sunlight. Keep batteries away from children.

ATTENTION

1. Charge properly Keeping battery properly charged and discharged can prolong battery life. Maintaining a power level of 10%- 90% in battery is beneficial for battery protection.
2. Choose the appropriate charging temperature Battery charging temperature range: 0-45°C.
3. Avoid overcharging Overcharging of battery must be avoided during the charging process. Overcharging of battery in any form will lead to serious damage to battery performance and even explosion

SERVICE AND MAINTENANCE

Good maintenance and service is the best guarantee for safe, economical and zero-failure 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:

Maintenance cycle		Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
Item					
Engine oil	Check-fill	√			
	Replace		√	√	
Gearbox gear Oil (if any)	Check oil	√			
	Replace		√	√	
Air cleaner element	Inspection	√			
	Clean		√		
	Replace			√	
Settling cup (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 line	Inspection	Every two years (Please replace if necessary)			
Cylinder head, piston	Remove carbon deposit**	Displacement < 225cc, every 125 hours; displacement capacity ≥ 225cc, every 250 hours.			
* These items shall be replaced if necessary; ** These items shall be maintained by the dealer authorized by the Company, unless the user has proper tools and maintenance ability.					

ATTENTION

- If it often works under high temperature or high load, oil shall be changed every 25 hours;
- If it often works in dusty or harsh environment, air cleaner element shall be cleaned every 10 hours. If necessary, the air cleaner element shall be replaced every 25 hours;
- It shall be maintained on spot-inspection cycle and time, whichever is earlier;
- If maintenance cycle time has elapsed, perform the maintenance as soon as possible as per the table above.

SERVICE AND MAINTENANCE

WARNING

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

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

Spark Plug Inspection

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 the screwdriver into the sleeve, to screw it counterclockwise, and then remove the spark plug;



3. Check whether there is discoloration, and remove carbon deposits. Check whether there is little pale to moderate brown on ceramic cores around center electrode of the spark plug;



4. Check the model of spark plug and clearance.

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



BRAND	MODEL
NGK	C7HSA
	CR6HSA
TORCH	A5RTC

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

5. Install the spark plugs in reverse order of removal. Spark plug torque: $14 \pm 1 \text{ N.m}$ ($123.9 \pm 8.8 \text{ in-lb}$)



Tip: 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.

Adjustment of the Carburetor

The carburetor is an important components of the engine. The adjustment shall be carried out by a dealer with professional knowledge, professional data and equipment, to ensure that the adjustment is proper.

Replacement of Oil

WARNING

Do not drain the oil immediately after turning off the generator. Oil temperature is very high, when operating, take care to avoid scalding.

1. Put the generator on a horizontal plane, start the generator, run it for a few minutes to make it warm, then turn off the engine.
2. Loosen the knob on the right cover counterclockwise and remove the right cover



3. Unscrew oil dipstick



4. Place an oil pan under the engine, tilt the generator to quickly pour out oil; After discharging the oil, put the generator back on level ground.



5. Refill oil to a proper level, tighten oil dipstick, cover external cover plate and tighten the knob.
 - Recommended oil: SAE S10W/30
 - Oil grade: API standard Model SJ or higher
 - Volume: 0.12gal (0.45L)



Air Filter

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

1. Loosen the knob on the right cover counterclockwise and remove the right cover.



2. Remove screws, to remove cover plate of air cleaner.

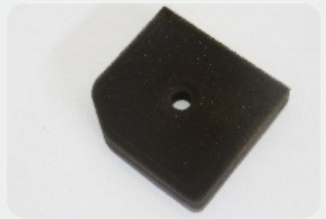


3. Clean foam cleaner element with cleaning solvent and blow it dry, Put a few drops of oil on the filter element.

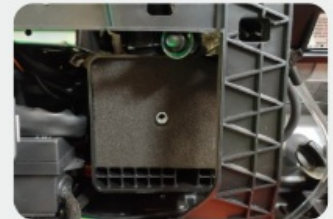


ATTENTION

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



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



1. Reassemble empty air cleaner cap back to original position, and tighten screws.
2. Assemble right exterior cover and tighten knob.

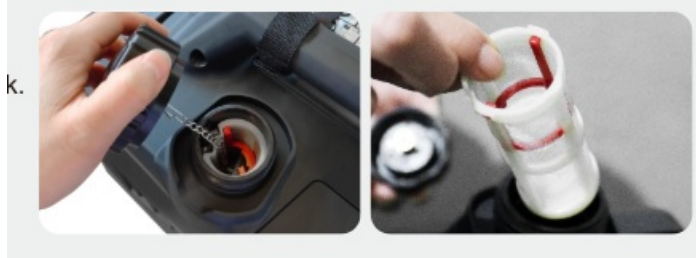


Fuel Filter Screen

WARNING

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

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



ATTENTION

Be sure to screw fuel tank cap tight.

STORAGE AND TRANSPORT

Generator Storage

If it is stored long-term, in order to prevent aging, you shall take some storage measures

1. Shut down generator.

2. Open fuel tank cap, to take out fuel filter screen. Pump all fuel in fuel tank into special fuel tank, and then reassemble fuel tank cap back.



3. Start up the engine to burn off fuel in the carburetor, and then shut it down.

Tip: Do not connect any electrical equipment. Running time of the engine depends on remaining fuel in the fuel tank.

4. Open the generator right exterior cover and enter the carburetor. Locate the clear plastic hose from the carburetor and place a suitable container under it to capture the drained fuel.



5. Loosen the carburetor drain screws until you see fuel draining from the carburetor.



6. Allow fuel to drain into the container and tighten the drain screws on the carburetor. Install the engine service panel.



8. Gently pull startup handle until you feel resistance, allowing both inlet valve and exhaust valve to be closed.



9. Disconnect the battery cable.



10. Place the generator set in a clean and dry area.

Generator transport

- When the generator set is transported, it shall be ensured that there is no fuel spilling;
- Do not fill excessive fuel into fuel tank;
- Do not run the generator, and avoid direct sunlight;
- Do not transport the generator set on rough road for long time.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED: <ol style="list-style-type: none"> 1. No fuel in tank or fuel valve closed. 2. Choke not in START position, cold engine. 3. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.) 4. Low quality or deteriorated, old gasoline. 5. Carburetor not primed. 6. Dirty fuel passageways. 7. Carburetor needle stuck. Fuel can be smelled in the air, 8. Too much fuel in chamber. This can be caused by the carburetor needle sticking. 9. Clogged Fuel Filter. 	FUEL RELATED: <ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline and open fuel valve. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Move Choke to START position. 3. Clean out ethanol rich gasoline from fuel system. Replace components damaged by ethanol. Use fresh 87+ octane stabilizer-treated unleaded gasoline only. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 4. Use fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 5. Pull on Starter Handle to prime. 6. Clean out passageways using fuel additive. Heavy deposits may require further cleaning. 7. Gently tap side of carburetor float chamber with screwdriver handle. 8. Turn Choke to RUN position. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set Choke to START position. 9. Replace Fuel Filter.
	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> 1. Power Switch at OFF position. 2. Spark plug cap not connected securely. 3. Spark plug electrode wet or dirty. 4. Incorrect spark plug gap. 5. Spark plug cap broken. 6. Circuit breaker tripped (electric start models only). 7. Incorrect spark timing or faulty ignition system. 	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> 1. Turn Power Switch to ON. 2. Connect spark plug cap properly. 3. Clean spark plug. 4. Correct spark plug gap. 5. Replace spark plug cap. 6. Reset circuit breaker. Check wiring and starter motor if breaker continues to trip. 7. Have qualified technician diagnose/repair ignition system.
	COMPRESSION RELATED: <ol style="list-style-type: none"> 1. Cylinder not lubricated. Problem after long storage periods. 2. Loose or broken spark plug. (Hissing noise will occur when trying to start.) 3. Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.) 4. Engine valves or tappets mis-adjusted or stuck. 	COMPRESSION RELATED: <ol style="list-style-type: none"> 1. Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again. 2. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3. 3. Tighten head. If that does not remedy problem, replace head gasket. 4. Have qualified technician adjust/repair valves and tappets.
	ENGINE OIL RELATED: <ol style="list-style-type: none"> 1. Low engine oil. 2. Engine mounted on slope, triggering low oil shutdown. 	ENGINE OIL RELATED: <ol style="list-style-type: none"> 1. Fill engine oil to proper level. Check engine oil before EVERY use. 2. Operate engine on level surface. Check engine oil level.
	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> 1. Spark Arrestor clogged with soot. 	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> 1. Clean and replace Spark Arrestor.

Problem	Possible Causes	Probable Solutions
Engine misfires	<ol style="list-style-type: none"> 1. Spark plug cap loose. 2. Incorrect spark plug gap or damaged spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression. 	<ol style="list-style-type: none"> 1. Check cap and wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 5. Diagnose and repair compression. (Use Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	<ol style="list-style-type: none"> 1. Carbon Monoxide level high. Red light on Carbon Monoxide Sensor illuminates. 2. CO Sensor Alarm flashes yellow continually shortly after starting. 3. CO Sensor Alarm flashes yellow continually after longer period of operation. 4. Low oil shutdown. 5. Fuel tank empty or full of impure or low quality gasoline. 6. Defective fuel tank cap creating vacuum, preventing proper fuel flow. 7. Faulty magneto. 8. Disconnected or improperly connected spark plug cap. 	<ol style="list-style-type: none"> 1. Leave area immediately and allow area to ventilate thoroughly. Only operate generator outside. 2. Carbon monoxide sensor malfunction. Sensor needs service. Do not use the Generator until the sensor is working properly. 3. Make sure to operate generator within rated ambient temperature; maintain minimum 5 ft. clearance from all sides. 4. Fill engine oil to proper level. Check engine oil before EVERY use. 5. Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 6. Test/replace fuel tank cap. 7. Have qualified technician service magneto. 8. Secure spark plug cap.
Engine stops when under heavy load	<ol style="list-style-type: none"> 1. Dirty air filter 2. Engine running cold. 	<ol style="list-style-type: none"> 1. Clean element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	<ol style="list-style-type: none"> 1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Do not exceed equipment's load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	<ol style="list-style-type: none"> 1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing. 	<ol style="list-style-type: none"> 1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine. 4. Check engine timing.
Attached device doesn't have power	<ol style="list-style-type: none"> 1. Device not plugged in properly. 2. Circuit Breaker tripped. 3. Product needs service. 	<ol style="list-style-type: none"> 1. Turn off and unplug the device, then plug it back in again and turn on. 2. Turn off and unplug device, reset Circuit Breaker, plug in device and turn on. 3. Have product repaired.
Attached device begins to operate abnormally	<ol style="list-style-type: none"> 1. Problem with device. 2. Rated load capacity exceeded. 	<ol style="list-style-type: none"> 1. Immediately unplug device. Have device repaired by a qualified technician, or replace device. 2. Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator.

TECHNICAL PARAMETERS

Item	GM4600iAEDC
Rated Power (kW)	3.8(GAS)/3.5(LPG)
Max. Power (kW)	4.6(GAS)/4.2(LPG)
Engine Model	165F/GM-1
Valve Clearance	Input valve: 0.03~0.08mm, Output valve: 0.03~0.08mm
Stroke x Bore (mm)	65x48
Engine Type	4-stroke
Displacement (cc)	159
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	4850
Starting Method	Recoil Sstart / Electrical Start / Remote Start
Fuel Tank Volume (gal)	1.6 (6L)
Fuel Type and Grade	Vehicle-use unleaded gasoline
Lubricating Oil Capacity (gal)	0.12 (0.45L)
Lubricating Oil Model	SAE 10W-30
Noise dB (at 7m)(25% load)	62
Rated Voltage (V)	120
Rated Frequency (Hz)	60
Rated Power Factor	1
Phase Number	Single phase
Run Time @ 25% (h)	8
Fuel Consumption Rate (25% load)(L/h)	0.75
Fuel Consumption Rate (100% load)(L/h)	1.9
LPG Consumption Rate (25% load)(kg/h)	0.45
LPG Consumption Rate (100% load)(kg/h)	1.22
THD	≤3%
Overall Dimension (in.)	20.7×12.2×19.7 (540×310×500mm)
Net Weight (lb.)	62 (28kg)

Quick Reference Wattage					
Power Rating		Tool or Appliance	Running Watts	Starting Watts	
5500 – 12,000 Running Watts	2800 – 3800 Running Watts	1200 – 1800 Running Watts	Blender	300	650
			Coffee Maker	1500	
			Drill	600	900
			Fan	200	
			Furnace 1/4 hp	600	1000
			Game console	150	
			Hand sander	600	1200
			Hedge trimmer	450	1200
			Lamp	100	
			Laptop	800	
			LED/LCD TV	150	
			Microwave	1000	
			Modem/router	20	
			Paint sprayer	600	600
			Radio	100	
			Slow cooker	200	200
			String trimmer	350	875
			Sump Pump 1/3 hp	800	1300
			Work light	1000	
			Belt sander	1200	2400
		Chainsaw	1200	2400	
		Circular saw	1200	2000	
		Edger	950	2400	
		Electric grill	1650		
		Lawn mower	1200	2400	
	Pressure washer	1200	2400		
	Refrigerator	700	2200		
	Washing machine	1150	2250		
	Well pump	1000	2100		
	Window AC 13k BTU	1800	2800		
	5000 – 10,000 Running Watts	Air compressor 1 hp	1600	4500	
		Central AC 3 ton	5400	7200	
		Electric Dryer	5400	6750	
		Heat Pump 3 ton	3400	6500	
		Water heater	4000		

†Chart for reference only. Check your device for ACTUAL wattage requirements.

†Chart for reference only. Check your device for ACTUAL wattage requirements.

HOW TO CALCULATE

Running Watts needed:

Total Running Watts of ALL items to be powered by the generator.

Starting Watts needed:

Add highest SINGLE Starting Watt to Total Running Watts needed above.

EXAMPLE

1 Calculate Running Watts:

Furnace	600
Lamp	100
Microwave	1000
Refrigerator	700

Total Running Watts 2400

2 Calculate Starting Watts:

Total Running Wattage	2400
Refrigerator	2200

Total Starting Watts 4600



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Caojie Industrial Park, Hechuan District, Chongqing

- Phone [866-960-2920](tel:866-960-2920)
- E-mail service@genmaxpower.com

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[GENMAX GENERATOR GM4600iAEDC Inverter Generator](#) [pdf] User Manual
GM4600iAEDC Inverter Generator, GM4600iAEDC, Inverter Generator, Generator

References

- [User Manual](#)

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