

INVERTER GENERATOR USER'S MANUAL



GM2800iA/GM2800iAE

Portable Inverter Generator 2500 Running Watts | 2800 Peak Watts

GM3500iA/GM3500iAE/GM3500iAD/GM3500iAED

Portable Inverter Generator 3200(GAS.)/2800(LPG) Running Watts | 3500(GAS.)/3100(LPG) Peak Watts



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





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, oil and 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) 30RV Transfer Plug (GM3500iAED only)(1) Remote Control Key (GM2800iAE/GM3500iAE/GM3500iAED only)(1) LPG Hose With Regulator (GM3500iAD/GM3500iAED only)(1)

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 per iod 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 durat ion of the warranty period.

6. WHAT IS NOT COVERED UNDER THIS WARRANTY:

A. Transportation changes for s ending 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 norne by the purchaser.

8. HAVE QUESTIONS?

Email: warrantiessmallengines@gmail.com Phone: 866-960-2920

WARRANTY CARD

PERSONAL INFORMATION	INVERTER INFORMATION
Name:	Model Number:
Street Address:	Serial Number:
City, State, ZIP:	Date Purchased:
Country:	Purchased From:
Phone Number:	GENMAX [®]
E Mail:	

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SAFETY WARNING



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 instruction will result in being in peril of your life or extremely serious injury.

CAREFUL

Failure to follow the instruction will result in minor injury.

WARNING

Failure to follow the instruction will result in being in peril of your life or very serious injury.

ATTENTION

Failure to follow the instruction will result in the 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:

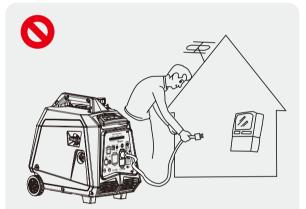
The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin; and Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.

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 connect it to household appliances directly





Please do not use in humid environment



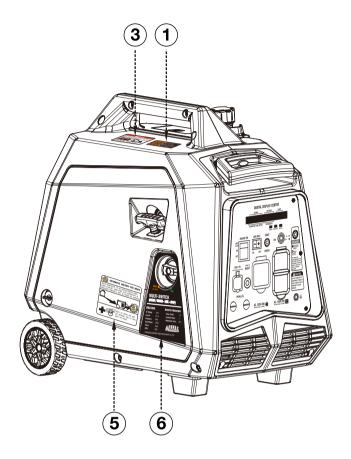
Please do not smoke when refueling

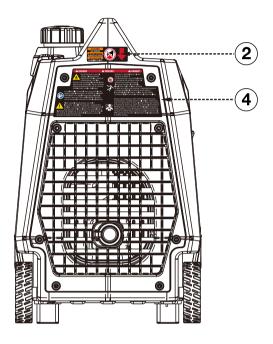


Please shut down the generator before refueling

SAFETY INSTRUCTIONS

SAFETY LABELS AND DECALS







 WARNING Cancer and reproductive harm - www.P65Warnings.ca.gov/product
 Cancer et problèmes de reproduction - www.P65Warnings.ca.gov/product
 ADVERTENCIA Cáncer y daños al sistema reproductor - www.P65Warnings.ca.gov/product

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



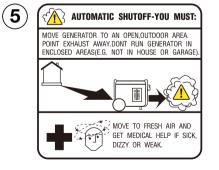
A hot exhaust system can cause serious burns, avoid contact if the engine has been running.



6



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.

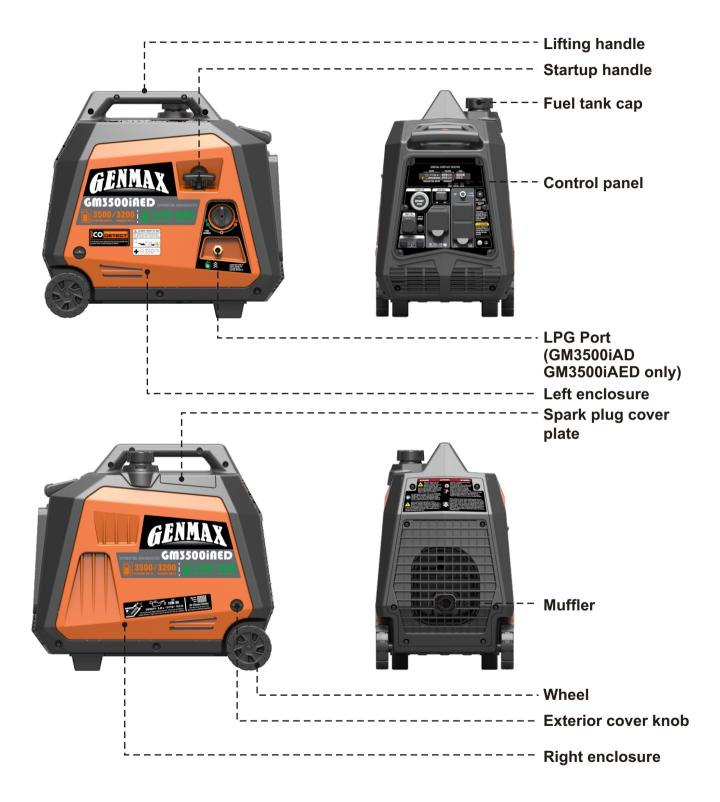


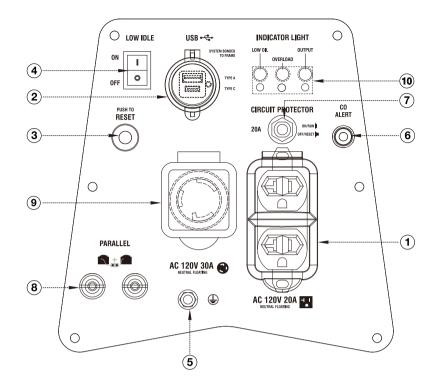


Before using the generator, please read the operation manual.Be careful with the shock hazard.Be careful, the fuel is flammable, do not add the fuel when the engine is running.



NAMES OF COMPONENTS





CONTROL PANEL FEATURES GM2800iA/GM3500iA

 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:** 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.

(a) Low Idle: When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.

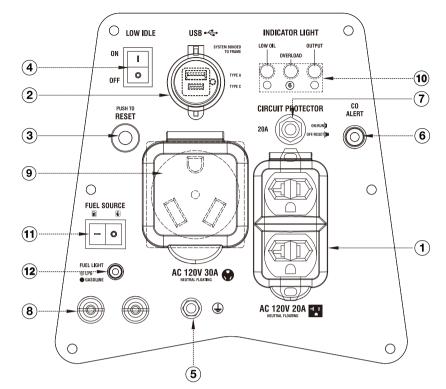
(5) **Ground Terminal:** The ground terminal is used to externally ground the inverter.

(6) **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.

⑦ AC Breaker: If the inverter is overloaded, the reset breaker will trip to block current. (a) 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.

(9) 120-Volt, 30-Amp Outlet (L5-30): The outlet is capable of carrying a maximum of 30 amps.

Indicator Light: Red light (LOW OIL) means that the amount of oil is too low, red light (OVERLOAD) means that the machine overload, green light (POWER) means normal operation. Frequency display, Load power display.



CONTROL PANEL FEATURES GM3500iAD

(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:** 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.

(a) Low Idle: 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) CO Alarm: Flashing red light: dangerous levels of carbon monoxide gas have built up leave immediately until area has aired out. Move generator to wellventilated area before operation. Flashing yellow light: carbon monoxide sensor malfunction. Sensor needs service.

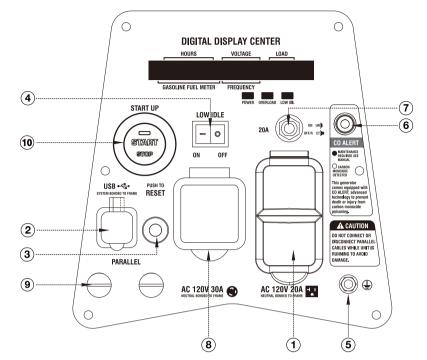
⑦ AC Breaker: If the inverter is overloaded, the reset breaker will trip to block current. **Brailel Connectors:** To increase AC power output, the connector sockets are used to connect the two same type generator with special paralleling cords. The connector sockets is only used to the communication 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.

(9) 120-Volt, 30-Amp Outlet (NEMA Rv30): The outlet is capable of carrying a maximum of 30 amps.

Indicator Light: Red light (LOW OIL) means that the amount of oil is too low, red light (OVERLOAD) means that the machine overload, green light (POWER) means normal operation. Frequency display, Load power display.

① Fuel Source: Gasoline and LPG switch back and forth.

¹² **Fuel Light:** LPG green light is steady on, gasoline blue light is steady on.



CONTROL PANEL FEATURES GM2800iAE/GM3500iAE/GM3500iAED

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:** 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.

(a) Low Idle: 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.

(c) CO Alarm: Flashing red light: dangerous levels of carbon monoxide gas have built up leave immediately until area has aired out. Move generator to wellventilated area before operation. Flashing yellow light: carbon monoxide sensor malfunction. Sensor needs service.

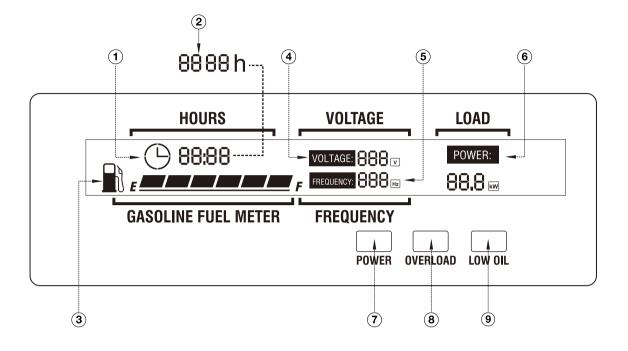
⑦ AC Breaker: If the inverter is overloaded, the reset breaker will trip to block current.

(a) **120-Volt, 30-Amp Outlet (L5-30):** The outlet is capable of carrying a maximum of 30 amps.

(9) 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.

(D) One Push Start: Press this button, the engine can start and stop.

DIGITAL DISPLAY CENTER



① **HOURS:** Represents single run time, goes from 0 at each startup.

② HOURS: Represents total operation time of the generator. The two factors ① and ② are displayed alternately every 8 seconds.

③ **GASOLINE FUEL METER:** Gasoline fuel level display.

④ VOLTAGE: Voltage display: 120V and 240V switch every 16 seconds.

- ⑤ FREQUENCY: Frequency display.
- 6 LOAD: Load power display.
- ⑦ **POWER:** Green light means normal operation.

③ OVERLOAD: Red light means the machine overload.

Source LOW OIL: Red light means the amount of oil is too low.

PREPARATIONS

1 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.

• 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: 1.7gal



2 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 oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher);



Don't go over the scale

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

PREPARATIONS

3 *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

Fuel

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

Oil

- Check oil level of the generator, and fill 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.

GM2800iA/GM3500iA Startup Procedure

- 1. Remove the load from all output ends;
- 2. Press the LOW IDLE switch to "OFF";

- **3.** Turn the multi-switch to "START"; Tip: When hot engine is started up, it is unnecessary to close the choke valve, but turn the combination switch to "RUN".
- 5. First gently pull startup handle, until guy cable is hooked tight, and then pull it with effort;

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

6. After the generator starts, turn the multi-switch to "RUN";

Plug in after started.

GM3500iAD Startup Procedure

- 1. Remove the load from all output ends;
- **2.** Select the Fuel: a. Gasoline: Press the oil/gas switch to gasoline.









MULTI-SWITCH





LPG:

1. Connect the LPG hose to the LPG tank;

- 2. Tighten the other end of the LPG hose to the generator intake;
- 3. Press the fuel source switch to LPG;

4. Press the thickening valve button on the secondary pressure reducing valve for 2-3 seconds to thicken the gas.



3. Press the LOW IDLE switch to "OFF";

- **4.** Turn the multi-switch to "START";
 Tip: When hot engine is started up, it is unnecessary to close the choke valve, but turn the combination switch to "RUN".
- **5.** First gently pull startup handle, until guy cable is hooked tight, and then pull it with effort.

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

6. After the generator starts, turn the multi-switch to "RUN";















GM2800iAE/GM3500iAE/GM3500iAED Startup Procedure

- **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.
- **3.** a. GM2800iAE/GM3500iAE: Turn the fuel switch to "ON".

b. GM3500iAED: Turn the GAS/LPG switch to fuel gear.



LPG (GM3500iAED only):

- 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;

4. Press the thickening valve button on the secondary pressure reducing valve for 2-3 seconds to thicken the gas.



4. Press the LOW IDLE switch to "OFF";



5. Select Boot Mode:

a. Hand Starting: Pull the starting handle to start the generator.

b. One Button to Start: Press the one-click start button to start the generator.

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

c. Remote Start: Press the "OFF" button on the remote control to start the generator.



7. Plug in after started.



Remote Control Pairing

1. Long press the one-key start button for 5 seconds until the green light is steady on;

2. Press the remote control ON or OFF, the one-button start button turns OFF the green light, and the remote control is paired successfully.

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



SHUTTING DOWN THE GENERATOR

- 1. Unplug the power cord;
- Select Stop Mode:

 a. One Button to Start: Press the one-click start button to turn off the generator.
 b. Remote Start: Press the "OFF" button on the remote control to turn off the generator.



- 3. a. GM2800iA/GM3500iA: Turn the multi-switch to "STOP".
 - b. GM2800iAE/GM3500iAE: Turn the fuel switch to "ON".
 - c. GM3500iAED: Turn the GAS/LPG switch to the middle to turn off the LPG or fuel.



USING THE GENERATOR

Service environment of the generator

- Applicable temperature: -5°C~ 40°C;
- Applicable humidity: below 95%;

1

• 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 Tr: 298k (25°C)
- Relative air humidity Φr: 30%
- Absolute atmospheric pressure Pr: 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%.

2 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.

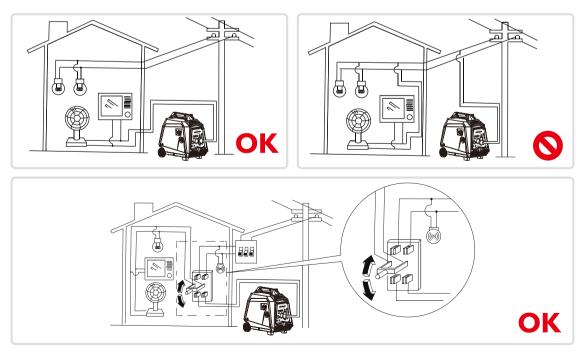
• After connecting the load to the generator, check carefully whether electrical connection is safe and reliable.

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 2.5mm²

• The appearance of extension cable shall be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes.



USING THE GENERATOR

Connection of AC power



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;

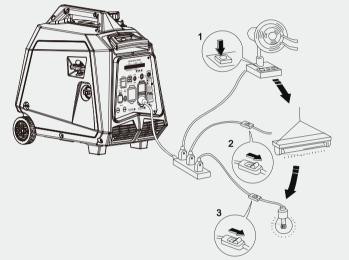
- Make sure that all loads driven by the generator are within rated load range;
- Make sure that load current is within rated current range of rated socket.

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, 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.



3 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 $5 \sim 10$ mm) 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.



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
	Check-fill	\checkmark			
Engine oil	Replace		\checkmark	\checkmark	
Gearbox gear	Check oil	\checkmark			
Oil (if any)	Replace		\checkmark	\checkmark	
Air cleaner element	Inspection	\checkmark			
	Clean		\checkmark		
	Replace			\checkmark	
Settling cup (if any)	Clean				\checkmark
Spark plug	Clean-adjust				√*
Spark eliminator	Clean			\checkmark	
Idle speed (if any)**	Check-adjust				\checkmark
Valve clearance**	Check-adjust				\checkmark
Fuel tank and fuel filter***	Clean				\checkmark
Fuel line	Inspection	Every two yeara (Please replace if ecessary)			
Cylinder head, piston	Remove carbon deposit**	Displacement < 225cc, every 125 hours; displacement capacity ≥ 225cc, every 250 hours.			
* Those items shall	I ha rankaad if				

* 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.

• 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.

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.

1 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;
- Insert the screwdriver into the sleeve, to screw it counterclockwise, and then remove the spark plug;
- 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;
- Check the model of spark plug and clearance.
 Standard spark: A5RTC
 Spark plug gap: 0.7-0.8mm

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









Install the spark plugs in reverse order of removal.
 Spark cold torque: 12.5 N.m



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.

2 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.

3 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

Don't go over the scale



4 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.

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

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;





- Reassemble empty air cleaner cap back to original position, and tighten screws;
 Accomble right outerior court and tighten land
 - 2. Assemble right exterior cover and tighten knob.



5 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.





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.
- 7. Unscrew oil dipstick, and drain oil in the crankcase off. Fill new oil to upper oil limit, and then assemble oil dipstick.









STORAGE AND TRANSPORT

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



9. Disconnect the battery cable. (GM2800iAE/GM3500iAE/GM3500iAED only)

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

2 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:	FUEL RELATED:		
	1. No fuel in tank or fuel valve closed.	 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. Choke not in START position, cold engine.	2. Move Choke to START position.		
	 Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.) 	 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.). 		
	 Low quality or deteriorated, old gasoline. 	 4. Use fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 		
	5. Carburetor not primed.	5. Pull on Starter Handle to prime.		
	6. Dirty fuel passageways.	 Clean out passageways using fuel additive. Heavy deposits may require further cleaning. 		
	 Carburetor needle stuck. Fuel can be smelled in the air. 	 Gently tap side of carburetor float chamber with screwdriver handle. 		
	 Too much fuel in chamber. This can be caused by the carburetor needle sticking. 	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. Clogged Fuel Filter.	9. Replace Fuel Filter.		
	IGNITION (SPARK) RELATED:	IGNITION (SPARK) RELATED:		
	1. Power Switch at OFF position.	1. Turn Power Switch to ON.		
	2. Spark plug cap not connected securely	2. Connect spark plug cap properly.		
	3. Spark plug electrode wet or dirty	3. Clean spark plug.		
	4. Incorrect spark plug gap.	4. Correct spark plug gap.		
	5. Spark plug cap broken.	5. Replace spark plug cap.		
	 Circuit breaker tripped (electric start models only). 	 Reset circuit breaker. Check wiring and starter motor if breaker continues to trip. 		
	 Incorrect spark timing or faulty ignition system. 	 Have qualified technician diagnose/ repair ignition system. 		
	COMPRESSION RELATED:	COMPRESSION RELATED:		
	 Cylinder not lubricated. Problem after long storage periods. 	1. Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again.		
	 Loose or broken spark plug. (Hissing noise will occur when trying to start.) 	 Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3. 		
	 Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.) 	 Tighten head. If that does not remedy problem, replace head gasket. 		
	 Engine valves or tappets mis-adjusted or stuck. 	 Have qualified technician adjust/ repair valves and tappets. 		
	ENGINE OIL RELATED:	ENGINE OIL RELATED:		
	1. Low engine oil.	 Fill engine oil to proper level. Check engine oil before EVERY use. 		
	 Engine mounted on slope, triggering low oil shutdown. 	2. Operate engine on level surface. Check engine oil level.		
	SPARK ARRESTOR RELATED:	SPARK ARRESTOR RELATED:		
	1. Spark Arrestor clogged with soot.	1. Clean and replace Spark Arrestor.		



Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine misfires	1. Spark plug cap loose.	1. Check cap and wire connections.
	 Incorrect spark plug gap or damaged spark plug. 	2. Re-gap or replace spark plug.
	3. Defective spark plug cap.	3. Replace spark plug cap.
	4. Old or low quality gasoline.	 Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	5. Incorrect compression.	 Diagnose and repair compression. (Use Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	 Carbon Monoxide level high. Red light on Carbon Monoxide Sensor illuminates. 	 Leave area immediately and allow area to ventilate thoroughly. Only operate generator outside.
	 CO Sensor Alarm flashes yellow continually shortly after starting. 	 Carbon monoxide sensor malfunction. Sensor needs service. Do not use the Generator until the sensor is working properly.
	 CO Sensor Alarm flashes yellow continually after longer period of operation. 	 Make sure to operate generator within rated ambient temperature; maintain minimum ft. clearance from all sides.
	4. Low oil shutdown.	 Fill engine oil to proper level. Check engine oil before EVERY use.
	 Fuel tank empty or full of impure or low quality gasoline. 	 Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	 Defective fuel tank cap creating vacuum, preventing proper fuel flow. 	6. Test/replace fuel tank cap.
	7. Faulty magneto.	7. Have qualified technician service magneto.
	 Disconnected or improperly connected spark plug cap. 	8. Secure spark plug cap.
Engine stops when	1. Dirty air filter	1. Clean element.
under heavy load	2. Engine running cold.	2. Allow engine to warm up prior to operating equipment.
Engine knocks	1. Old or low quality gasoline.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated
	2. Engine overloaded.	unleaded gasoline.
	3. Incorrect spark timing, deposit	Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	buildup, worn engine, or other mechanical problems.	2. Do not exceed equipment's load rating.
		3. Have gualified technician diagnose and service engine.
Engine backfires	1. Impure or low quality gasoline.	 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. Engine too cold.	 Use cold weather fuel and oil additives to prevent backfiring.
	3. Intake valve stuck or overheated engine.	3. Have qualified technician diagnose and service engine.
	4. Incorrect timing.	4. Check engine timing.
Attached device doesn't have power	1. Device not plugged in properly.	 Turn off and unplug the device, then plug it back in again and turn on.
	2. Circuit Breaker tripped.	 Turn off and unplug device, reset Circuit Breaker, plug in device and turn on.
	3. Product needs service.	3. Have product repaired.
Attached device begins to operate abnormally	1. Problem with device.	 Immediately unplug device. Have device repaired by a qualified technician, or replace device.
	2. Rated load capacity exceeded.	 Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator.

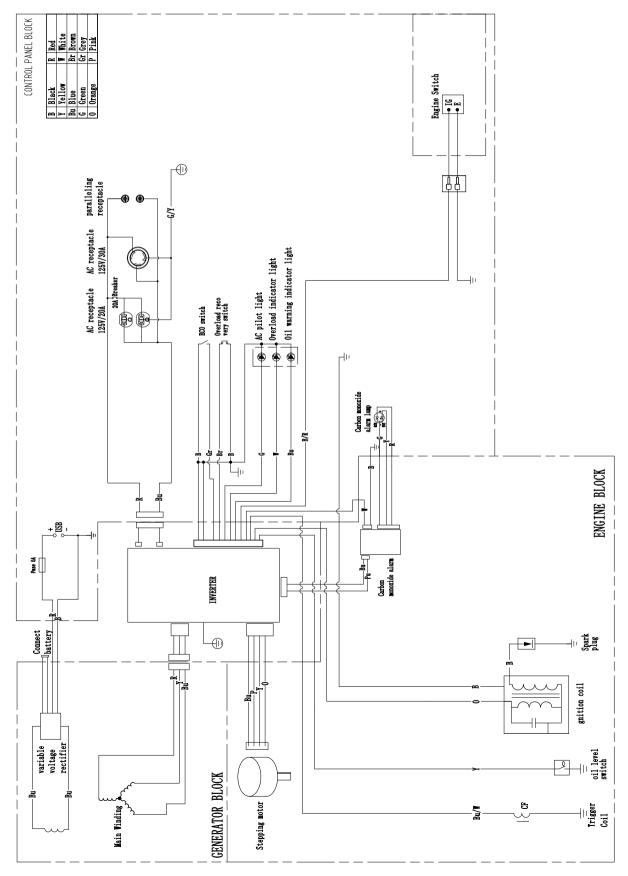


Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TECHNICAL PARAMETERS

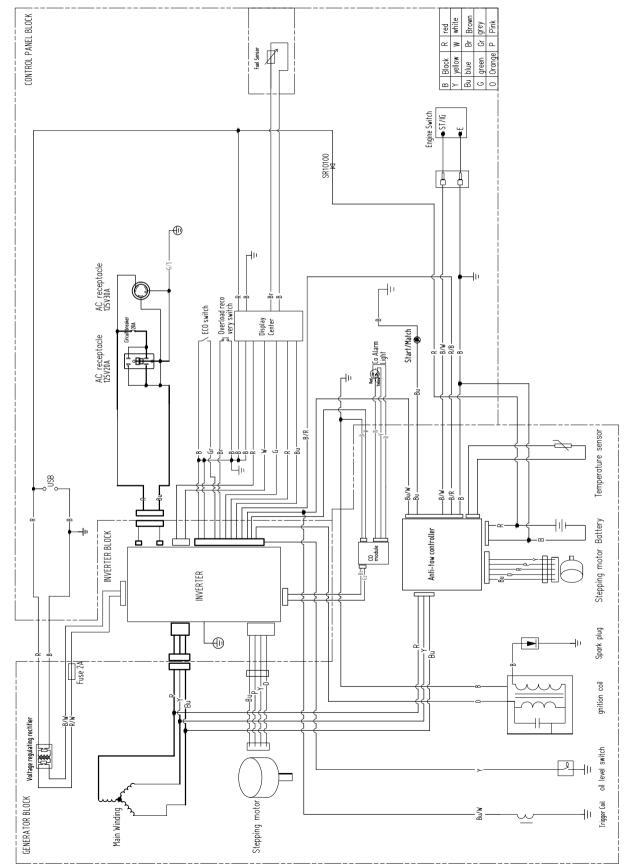
ltem	GM2800iA/GM2800iAE	GM3500iA/GM3500iAE	GM3500iAD GM3500iAED
Rated Power (kW)	2.5	3.2	3.2(GAS.)/2.8(LPG)
Max. Power (kW)	2.8	3.5	3.5(GAS.)/3.1(LPG)
Engine Model	164F/P	164F/P	164F/P
Stroke x Bore (mm)	64x45	64x45	64x45
Engine Type	4-stroke	4-stroke	4-stroke
Displacement (cc)	145	145	145
Gas Distribution Mode	OHV	OHV	OHV
Cooling Mode		Forced cooling wind	
Rated Speed (RPM)	4500	4850	4850
Starting Method	GM2800iA/GM3500iA/GM3500iAD: Recoil start GM2800iAE/GM3500iAED: Recoil start/Electrical start/Remote start		
Fuel Tank Volume (gal)	1.7	1.0	1.0
Fuel Type and Grade	Vehicle-use unleaded gasoline		
Lubricating Oil Capacity (gal)	0.12	0.12	0.12
Lubricating Oil Model	SAE 10W/30	SAE 10W/30	SAE 10W/30
Noise dB (at 7m)(25% load)	62	62	62
Rated Voltage (V)	120	120	120
Rated Frequency (Hz)	60	60	60
Rated Power Factor	1	1	1
Phase Number	Single phase	Single phase	Single phase
Run Time @ 25% (h)	10	9	9(GAS.)
Fuel Consumption Rate (25% load)(L/h)	0.75	0.85	0.85
Fuel Consumption Rate (100% load)(L/h)	1.5	1.9	1.9
LPG Consumption Rate (25% load)(kg/h)	-	-	0.425
LPG Consumption Rate (100% load)(kg/h)	-	-	1.25
THD	≤3%	≤3%	≤3%
Overall Dimension (in.)	20.7x12.2x19.7	20.7x12.2x19.7	20.7x12.2x19.7
Net Weight (lb.)	51/54	51/54	56.2

GM2800iA/GM3500iA SCHEMATICS



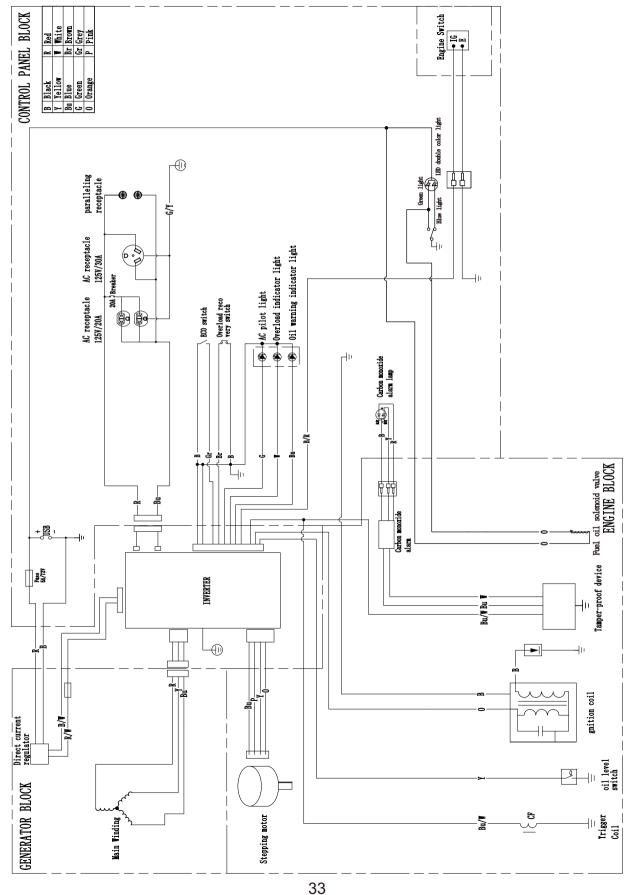
CIRCUIT DIAGRAM

GM2800iAE/GM3500iAE SCHEMATICS



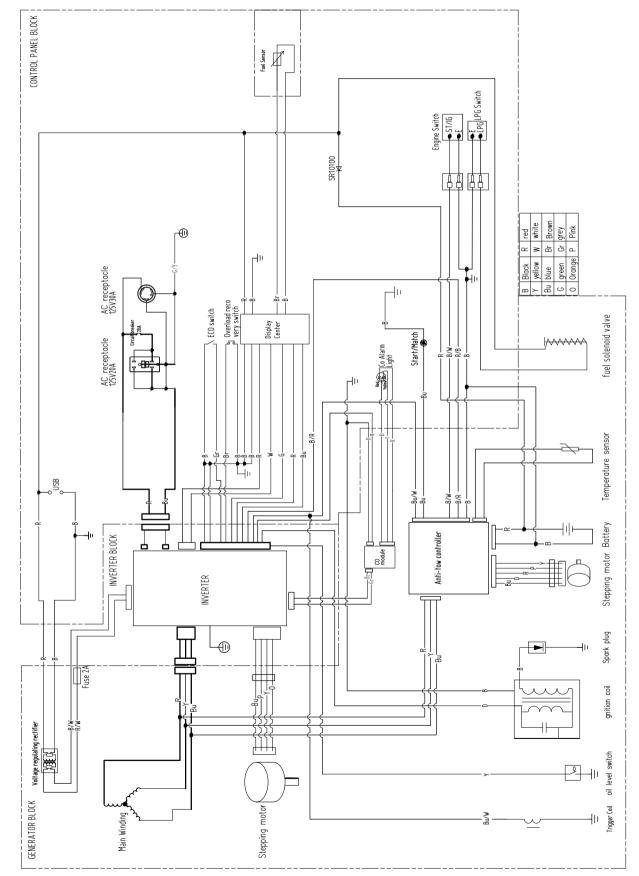
CIRCUIT DIAGRAM

GM3500iAD SCHEMATICS



CIRCUIT DIAGRAM

GM3500iAED SCHEMATICS



GENMAX[®]

CHOOSING A GENERATOR

Q	UIC	KF	REFERENCE W	ΑΤΤ	AGE
Power Rating		ting	Tool or Appliance	Running Watts	Starting Watts
ហ	N	1	Blender	300	650
5500	2800		Coffee Maker	1500	
		Ō	Drill	600	900
1	1		Fan	200	
2	ω		Furnace 1/4 hp	600	1000
, O	ö		Game console	150	
			Hand sander	600	1200
- 12,000 Running Watts	- 3800 Running Watts	1200 - 1800 Running Watts	Hedge trimmer	450	1200
2 L	In	IL I	Lamp	100	
nn	l≓i	<u>n</u>	Laptop	800	
in	Ð		LED/LCD TV	150	
_ p	\leq	∼a	Microwave	1000	
No No	at	tt	Modem/router	20	
Itt	ťs	S	Paint sprayer	600	600
S			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
			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 f	or referen	ce only. Check your device for ACTUAL watta	ge requirem	ents.

🖬 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:

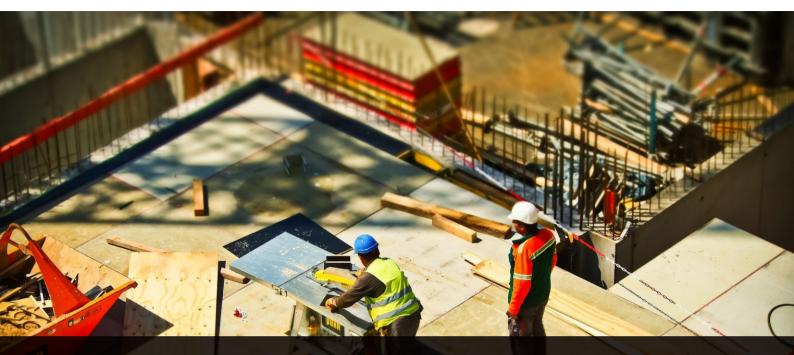
– Furnace — Lamp	600 100
— Microwave	1000
— Refrigerator	700
Total Running Watts	2400
Calculate Star	ting Watts:
Total Running Wattage	2400

Total Starting Watts

s 4600







In production management, based on orderly, efficient, scientific principles. trying to do as better as possible in product design, development, production, inspection,etc. to make our production can keep orderly. And will continue to make improvement to make sure that keep the competitiveness.

Welcome friends at home and abroad to visit and guide, work together to create brilliant.



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