



GENMAX GENERATOR

INVERTER GENERATOR USER'S MANUAL



GM3200i
Portable Inverter Generator

3200 Peak Watts | 2800 Running 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

⚠ 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.

WHAT COMES IN THE BOX

Spark Plug Socket Wrench (1)
Dual-Purpose Screwdriver (1)
Funnel (1)
30A 120V L5-30P to TT-30R Plug Adapter (1)
450ml 10W30 Oil (1)

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.

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


30A 120V L5-30P to TT-30R Plug Adapter

Change the 30A 120V L5-30R socket to the TT-30R socket.

10W30 Oil

Be sure to add oil before starting the generator.

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

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: _____

The logo for GENMAX is displayed in a stylized, orange, blocky font. The word "GENMAX" is written in a bold, sans-serif typeface, with a registered trademark symbol (®) positioned to the upper right of the "X". The letters are slightly rounded and have a three-dimensional, shadowed effect.

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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.

WARNING

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

CAREFUL

Failure to follow the instruction will result in minor injury.

ATTENTION

Failure to follow the instruction will result in the damage to your generator set and other properties.

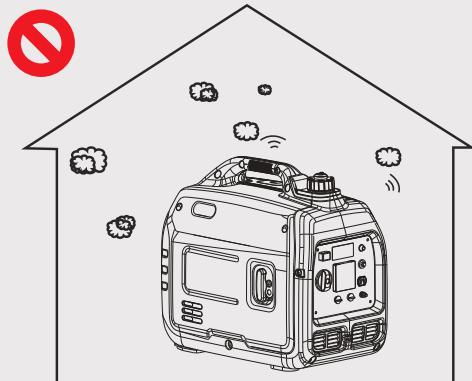
NEUTRAL FLOATING

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

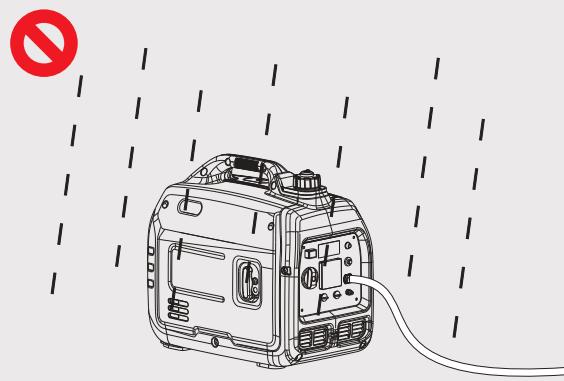
The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin; and Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.

SAFETY INSTRUCTIONS

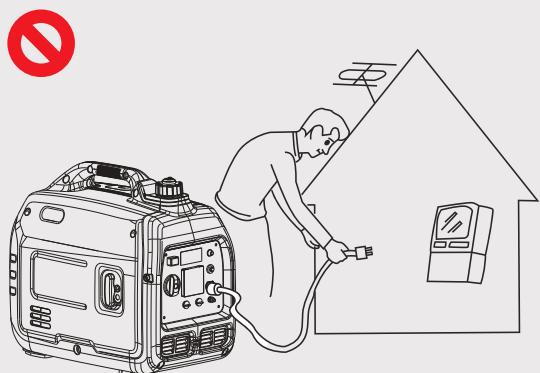
Before operating the generator, it will help you avoid accidents to read and understand the Manual and familiarize yourself with the safe operation procedures of the generator.



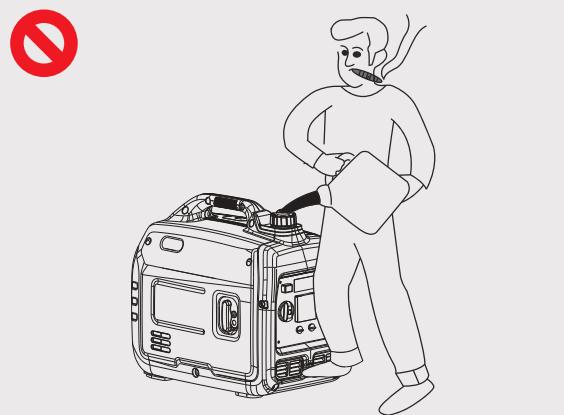
Please do not use indoors



Please do not use in humid environment



Do not directly connect to the household power supply system



Please do not smoke when refueling



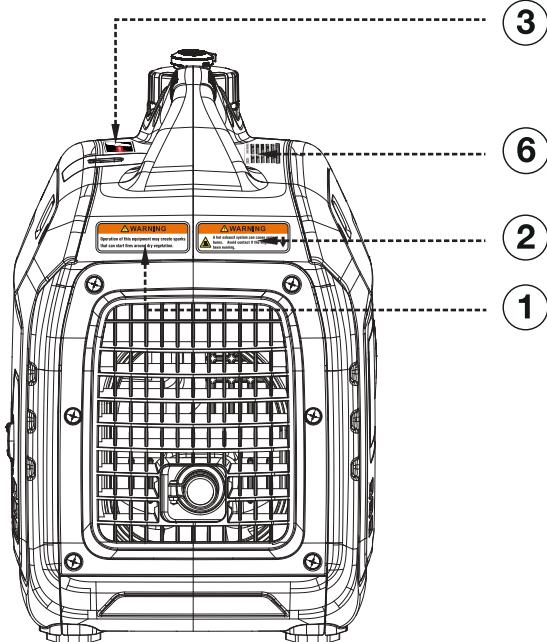
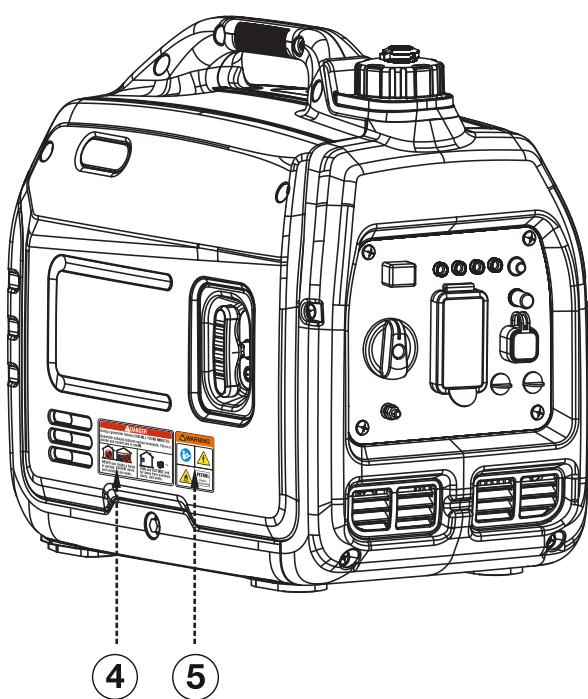
Please do not spill when refueling



Please shut down the generator before refueling

SAFETY INSTRUCTIONS

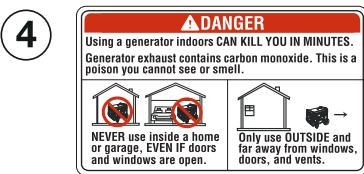
SAFETY LABELS AND DECALS



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.

6 

GM2200i Inverter Generator			
Rated Power	1.8kW	Number Of Phases	Single
Rated Voltage	120V	Performance Class	G1
Rated Frequency	60Hz	Power Factor	1
Rated Current	15A	Insulation Class	Class F
Rated Speed	4500rpm	Rated ambient temperature	25°C
CHONGQING DINKING POWER MACHINERY CO.,LTD.			

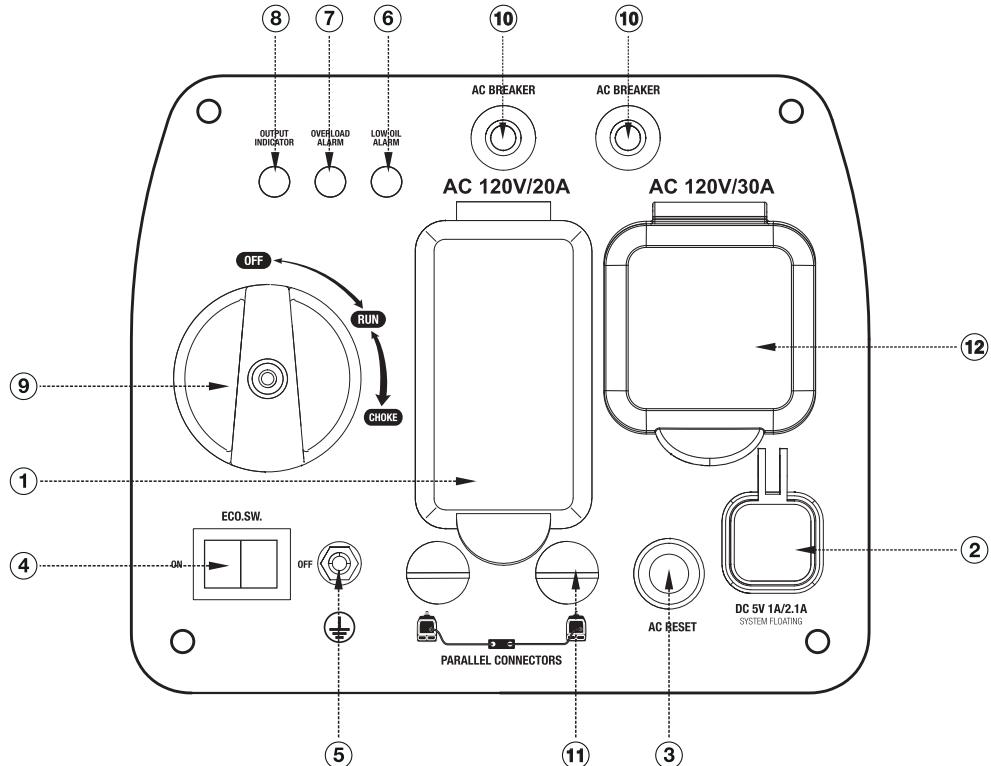
NAMES OF COMPONENTS



- 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 **Left Outer Cover**
- ④ **Right 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 **Oil Maintenance Panel:** Unscrew the bolts to

- remove the outer cover, add or replace the oil.
- 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 **Air Filter Maintenance Panel:** Clean or replace the air filter element.

CONTROL FUNCTIONS



CONTROL PANEL FEATURES

- ① **120V AC 20A 5-20R Outlet:** 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 **AC 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.
- 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 Alarm:** Indicates low oil level.
- ⑦ **Overload Alarm:** Indicates that the inverter is overloaded.
- ⑧ **Output Indicator:** Indicates the inverter is ready to be used.
- ⑨ **Multi-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 be used for AC power output. The special paralleling cords shall be purchase separately, and they shall be approved by certification body.

⑫ **120V AC 30A TT-30R Outlet(NEMA RV30):** The outlet is capable of carrying a maximum of 30 amps.

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.

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: 1.0gal (3.7L)



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. Turn the knob to ON and remove the oil maintenance cover.



3. Unscrew oil dipstick, Fill in (GM2200i:0.092gal (0.35L) GM3200i/GM3300i:0.12gal (0.45L)) 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. Reassemble oil cover plate 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.

STARTING UP THE GENERATOR

1. Remove the load from all output ends;

2. Switch ECO switch to "OFF";

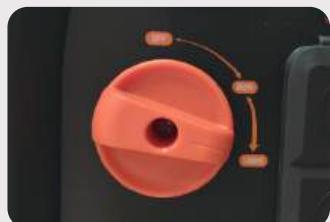


3. Turn ventilation knob of fuel tank cap to "ON";
(GM2200i only)



4. Turn Multi-Switch to "CHOKE" position;

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".



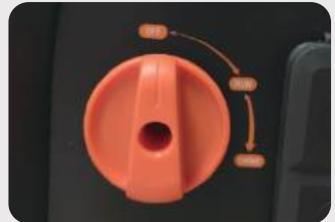
7. Plug in after started.



SHUTTING DOWN THE GENERATOR

1. Unplug the power cord;

2. Turn the Multi-Switch to "OFF" position;



3. After the generator has completely cooled down, turn ventilation knob on fuel tank cap to "OFF".
(GM2200i only)



USING THE GENERATOR

1 Service Environment of the Generator

- Applicable temperature: -5°C ~ 40°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

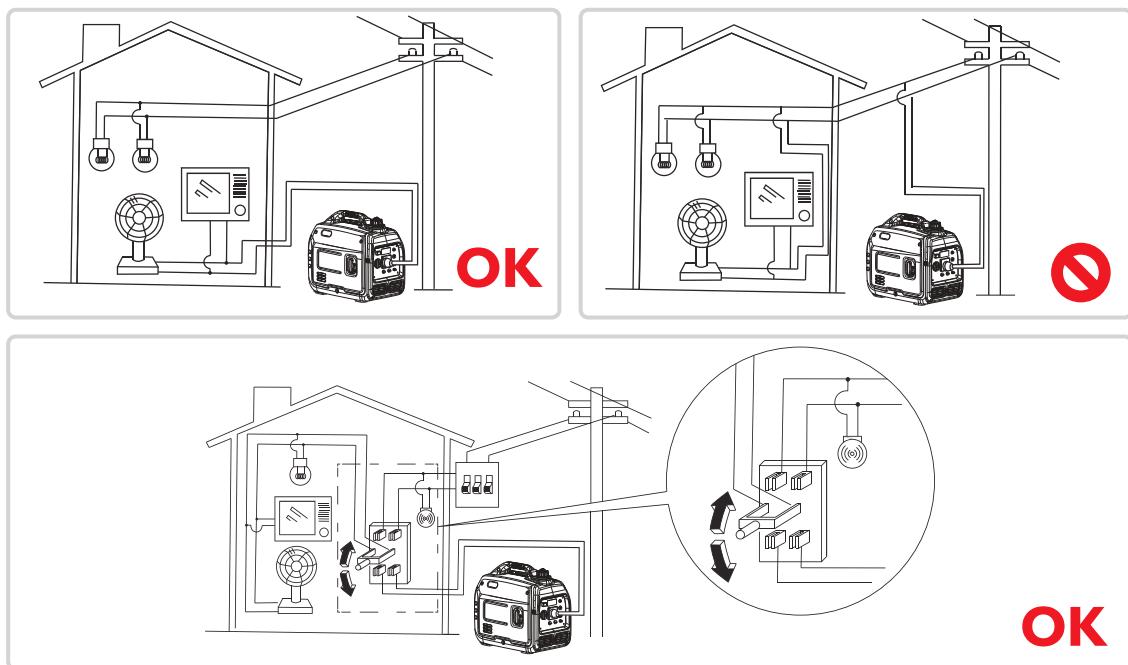
- Ambient temperature Tr: 298k (25°C)
- Relative air humidity Φ_r : 30%
- Absolute atmospheric pressure P_r : 100kPa

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 of 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 1.5mm²
 - 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

WARNING

All electrical equipment shall be disconnected before inserting the plug.

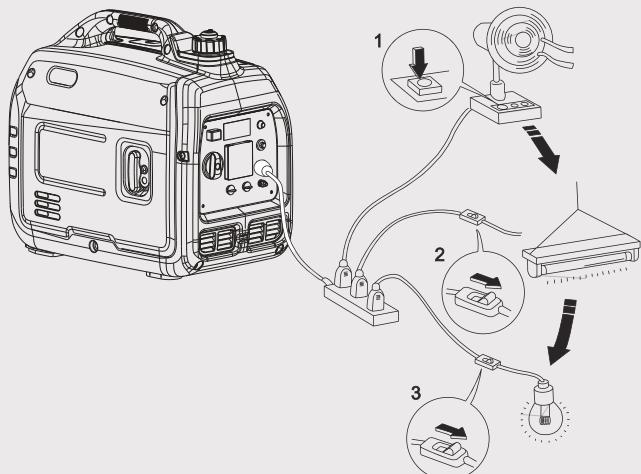
ATTENTION

- 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, energy-saving 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 ~ 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.



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:

Item	Maintenance cycle	Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
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.

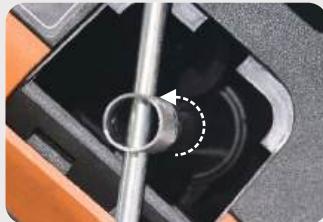
1 *Spark Plug Inspection*

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;



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

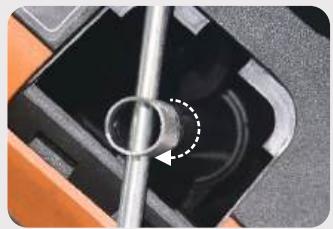


Tip: The spark plug clearance is required to be measured by line thickness gauge, which shall be adjusted if necessary.

SERVICE AND MAINTENANCE

5. Install the spark plugs in reverse order of removal.

Spark plug torque: $14\pm1\text{N}\cdot\text{m}(123.9\pm8.8\text{in-lb})$



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.

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. Turn the knob to ON and remove the oil maintenance cover;



3. Unscrew oil dipstick;



SERVICE AND MAINTENANCE

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: GM2200i:0.092gal(0.35L)

GM3200i/GM3300i:0.12gal(0.45L)

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. Unscrew the knob , to remove cover plate of air cleaner;



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

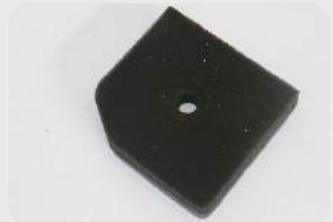


3. Clean foam cleaner element with cleaning solvent and blow it dry, Put a few drops of oil on the filter element.



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;



SERVICE AND MAINTENANCE

5. 1. Reassemble empty air cleaner cap back to original position, and tighten screws.
2. Assemble air cleaner cover and tighten the 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.



ATTENTION

Be sure to screw fuel tank cap tight.

STORAGE AND TRANSPORT

1 Generator Storage

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

1. Turn the Multi-Switch to "OFF".



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. Remove the engine service panel to access the carburetor. Locate the clear plastic hose from the float that is exiting out the bottom of the inverter, and place a suitable container under it to catch 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. After the engine is completely cooled, switch off ventilation knob of fuel tank cap.

STORAGE AND TRANSPORT

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

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



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	<p>FUEL RELATED:</p> <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. 	<p>FUEL RELATED:</p> <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.
	<p>IGNITION (SPARK) RELATED:</p> <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. 	<p>IGNITION (SPARK) RELATED:</p> <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.
	<p>COMPRESSION RELATED:</p> <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. 	<p>COMPRESSION RELATED:</p> <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.
	<p>ENGINE OIL RELATED:</p> <ol style="list-style-type: none"> 1. Low engine oil. 2. Engine mounted on slope, triggering low oil shutdown. 	<p>ENGINE OIL RELATED:</p> <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.
	<p>SPARK ARRESTOR RELATED:</p> <ol style="list-style-type: none"> 1. Spark Arrestor clogged with soot. 	<p>SPARK ARRESTOR RELATED:</p> <ol style="list-style-type: none"> 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	<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.



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TECHNICAL PARAMETERS

Item	GM3200i
Rated Power (kW)	2.8
Max. Power (kW)	3.2
Engine Model	164F/P
Valve Clearance	Input valve: 0.03~0.08mm, Output valve: 0.03~0.08mm
Stroke x Bore (mm)	64x45
Engine Type	4-stroke
Displacement (cc)	145
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	4600
Starting Method	Recoil start
Fuel Tank Volume (gal)	1.0(3.7L)
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)	6
Fuel Consumption Rate (25% load)(L/h)	0.78
Fuel Consumption Rate (100% load)(L/h)	1.8
THD	≤3%
Overall Dimension (in.)	18.9x11.4x17.3(480x290x440mm)
Net Weight (lb.)	47.4(21.5kg)

QUICK REFERENCE WATTAGE

Power Rating	Tool or Appliance	Running Watts	Starting 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	
5500 - 12,000 Running Watts	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 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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GENMAX®

ADD: 301 Doubleday Ave Ontario CA 91761

Phone 866-960-2920

E-mail service@genmaxpower.com

[Http://www.genmaxpower.com/](http://www.genmaxpower.com/)



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