

# **INVERTER GENERATOR USER'S MANUAL**



Portable Inverter Generator

GM3000IA 3000 STARTING / 2300 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.



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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#### **A 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) 450ml 10W30 Oil(1)



# **DESCRIPTION OF FITTINGS**





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.

#### 450ml 10W30 Oil



Be sure to add oil before starting 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 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 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.

Phone: 866-960-2920

- 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

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:	THE A		



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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.







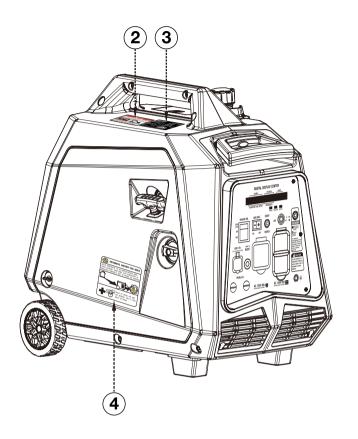


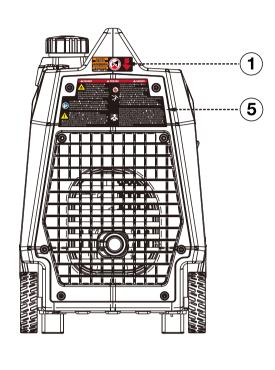




# **SAFETY INSTRUCTIONS**

#### SAFETY LABELS AND DECALS





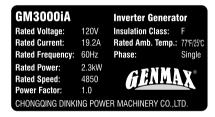








**(3**)











#### NAMES OF COMPONENTS





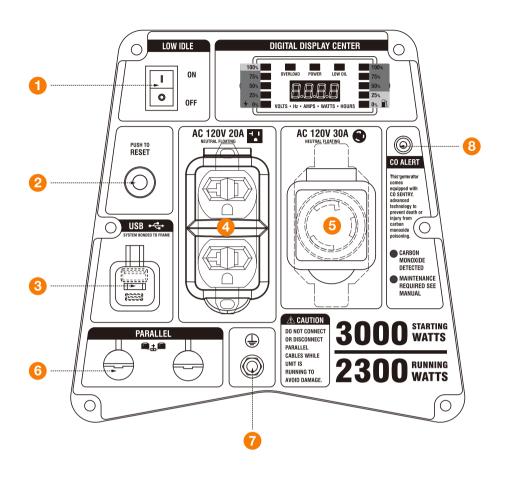




- ① Fuel Tank Cap: Open the fuel tank cap and fill with proper amount of gasoline.
- 2 Recoil Handle: Pull to start the engine.
- 3 Bolt: Remove left (right) outer cover.
- **4** Left Outer Cover
- (5) Control Panel: Contains the reset breaker, outlets and warning lights.
- **(6)** Engine Cooling Vents: 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.
- **® Muffler:** Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.

- Spark Plug Access Cover: Remove the cover to service the spark plug.
- **10 Telescopic Rod**
- 11) Wheel
- 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.
- 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 GM3000iA**

- ① 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.
- ② 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.
- 3 USB Duplex: 5V DC, type-A and type-C connectors.
- 4 L120V AC 20A 5-20R Outlet: The outlet is capable of

carrying a maximum of 20 amps.

- (5) 120V AC 30A L5-30R Outlet: The outlet is capable of carrying a maximum of 30 amps.
- 6 Parallel Connectors: To increase AC power output,

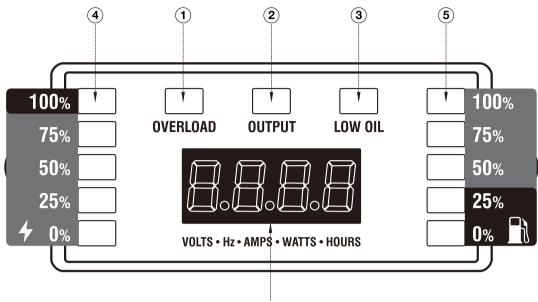
the connector sockets are used to connect the two same type generators with special parallel kit GM6000SPK sold by GENMAX. The connector sockets is only used to connect two inverter generators. They can not used for AC power output. The special paralleling kit GM6000SPK shall be purchased separately,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

- **The ground terminal:** The ground terminal is used to externally ground the inverter.
- (8) 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.

#### **CONTROL FUNCTIONS**



#### **DIGITAL DISPLAY CENTER**



AUTOMATIC ROTATING DIGITAL DISPLAY(scroll once every 5 s)

U 2 3 0	99.9H	R99.9	P 9.9 9	999.9
<b>VOLTS</b>	Hz	<b>AMPS</b>	WATTS	HOURS
6	7	8	9	10

- ① OVERLOAD: Red light means the machine overload.
- ② **OUTPUT**: Indicates the inverter is ready to be used.
- 3 LOW OIL: Red light means the amount of oil is too low.
- 4 POWER OUTPUT: Output power percentage display.
- **⑤ GASOLINE FUEL METER:** Gasoline fuel level display.

- **® VOLTS:** Voltage display.
- ⑦ Hz: Frequency display.
- AMPS: Current display.
- WATTS: Actual numerical power display.
- **® HOURS:** Represents total operation time of the
- generator.

#### **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: 1.6gal (6L)** 



## 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(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.



#### **PREPARATIONS**



# 3 Pre-use Inspection



#### **WARNING**

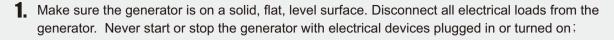
Even if the generator is not in service, its important component may suddenly fails. Before the generator is started up, if any of following components is unable to work properly, please inspect and repair carefully.

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

#### **Pre-operation inspection**

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.
Oii	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







**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";



**7.** Plug in after started.



#### **ATTENTION**

For gasoline restarts with hot engine in hot ambient temperature >86°F (30°C): Rotate the Multi-Switch to the "START" position for only one pull of the recoil cord. If generator does not start after first pull, rotate the Multi-Switch to the "RUN" position for the next three pulls. Too much choke leads to spark plug fouling and engine flooding. This will cause the engine not to start.

#### STARTING UP THE GENERATOR



#### **ATTENTION**

For gasoline starting in standard ambient temperature >59°F(15°C): Keep Multi-Switch in "START" position for three pulls of the recoil cord. If generator does not start after three pulls, rotate the Multi-Switch to the "RUN" position for the next three pulls. Too much choke leads to spark plug fouling and engine flooding. This will cause the engine not to start.

#### **ATTENTION**

For gasoline starting in cold ambient temperature < 59°F (15°C): Keep the Multi-Switch in the "START" position until engine starts. As soon as the engine starts and runs smoothly turn the Multi-Switch to the "RUN" position. In extreme cold temperatures, this may take several seconds.

#### **ATTENTION**

If the engine starts but does not continue to run make certain that the generator is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

#### **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.** Turn off and unplug all connected electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
- 2. Turn the Multi-Switch to "STOP".



**3.** Remove or consume all untreated gasoline if you plan to store the generator longer than 3 months.

# +

#### **USING THE GENERATOR**



- Applicable temperature: 23°F~104°F (-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

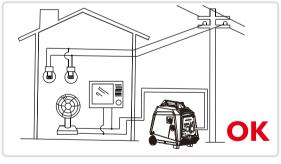
- Ambient temperature Tr: 298k (77°F/25°C)
- Relative air humidity Φr: 30%
- Absolute atmospheric pressure Pr: 100kPa

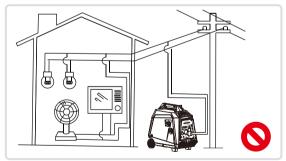
# When actual environmental condition is inconsistent with the condition of output power of the generator set:

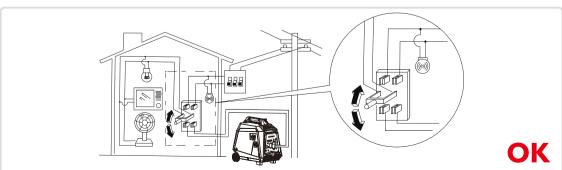
- Every 41°F(5°C) of increase in ambient temperature will reduce the power of generator by about 2%.
- Every 30% of increase in relative humidity of air will reduce the power of generator by about 1.5%.
- Every 300 m rising of ASL will reduce the power the generator by about 4.5%.

# **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<sup>2</sup>
- 2 100m cross-section area is 2.5mm<sup>2</sup>
- 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.



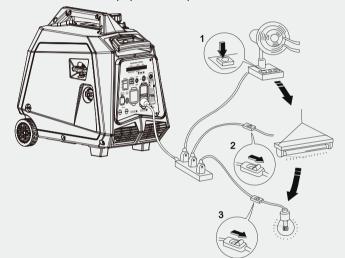
#### **ATTENTION**

- 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.



Tip: How to change the grounding method please refer to the website: https://www.genmaxpower.com/page/faq





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:

Main	tenance cycle	Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
Famina all	Check-fill	√			
Engine oil	Replace		√	√	
Gearbox gear	Check oil	√			
Oil (if any)	Replace		√	<b>√</b>	
	Inspection	√			
Air cleaner element	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.			

<sup>\*</sup> These items shall be replaced if necessary;

<sup>\*\*</sup> 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.



#### 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;





**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±1N.m(123.9±8.8in-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.** 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)





#### 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.



#### **ATTENTION**

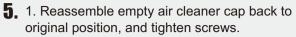
Be sure not to twist the foam cleaner element forcibly to avoid damage.



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

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.











## 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



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.



 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.** 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.

#### **3** Preparation for Use After Storage

- 1. Slowly pull the starter cord a few times to clean oil from the cylinder or to eject any pump protector from the pump which may have been added prior to storage.
- 2. Remove the spark plug from the cylinder. Wipe oil from the spark plug and return it to the cylinder and retighten.
- 3. Reconnect the spark plug wire.
- 4. Refuel engine per earlier instructions in this manual.

# **TROUBLESHOOTING**

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED:	FUEL RELATED:
	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.
	3. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.)	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. 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.
	7. Carburetor needle stuck. Fuel can be smelled in the air.	7. <b>Gently</b> 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.
	O. Classed Fuel Filter	9. Replace Fuel Filter.
	9. Clogged Fuel Filter.	LONITION (ODADIC) DELATED
	IGNITION (SPARK) RELATED:	IGNITION (SPARK) RELATED:
	Power Switch at OFF position.	1. Turn Power Switch to ON.
	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.
	7. 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.	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:
	Spark Arrestor clogged with soot.	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	Spark plug cap loose.	Check cap and wire connections.
	Incorrect spark plug gap or damaged spark plug.	2. Re-gap or replace spark plug.
	Defective spark plug cap.	3. Replace spark plug cap.
	4. Old or low quality gasoline.	4. 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.	5. 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 5 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.	<ul><li>5. Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline.</li><li>Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).</li></ul>
	6. 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	Dirty air filter	Clean element.
under heavy load	2. Engine running cold.	2. Allow engine to warm up prior to operating equipment.
Engine knocks	Old or low quality gasoline.	Fill fuel tank with fresh 87+ octane stabilizer-treated
	Engine overloaded.	unleaded gasoline.  Do not use gasoline with more than
	Incorrect spark timing, deposit	10% ethanol (E15, E20, E85, etc.).
	buildup, worn engine, or other mechanical problems.	2. Do not exceed equipment's load rating.
	meenamear problems:	3. Have qualified technician diagnose and service engine.
Engine backfires	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	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.
	Product needs service.	3. Have product repaired.
Attached device begins to operate abnormally	Problem with device.	Immediately unplug device.     Have device repaired by a qualified technician, or replace device.
	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**

Item	GM3000iA
Rated Power (kW)	2.3
Max. Power (kW)	3.0
Engine Model	164F/P-2
Valve Clearance	Input valve:0.03~0.08mm, Output valve:0.03~0.08mm
Stroke x Bore (mm)	65x45
Engine Type	4-stroke
Displacement (cc)	145
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	4850
Starting Method	Recoil 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)	1.5
THD	≤3%
Overall Dimension (in.)	20.7×12.2×19.7 (540×310×500mm)
Net Weight (lb.)	51 (23kg)



# CHOOSING A GENERATOR

#### **OUICK REFERENCE WATTAGE** Starting Watts Running Watts Power Rating Tool or Appliance 2800 Blender 300 650 겅 500 Coffee Maker 1500 Drill 600 900 Т T. 200 Fan 8 컹 3800 1000 Furnace 1/4 hp 600 ,000 Game console 150 1200 Hand sander 600 Running **Running Watts** Hedge trimmer 450 1200 Running Watts 100 Lamp 800 Laptop LED/LCD TV 150 Watts Microwave 1000 Modem/router 20 600 Paint sprayer 600 Radio 100 200 200 Slow cooker String trimmer 350 875 800 1300 Sump Pump 1/3 hp 1000 Work light Belt sander 1200 2400 2400 Chainsaw 1200 Circular saw 1200 2000 Edger 950 2400 Electric grill 1650 1200 Lawn mower 2400 1200 2400 Pressure washer 700 2200 Refrigerator Washing machine 1150 2250 Well pump 1000 2100 Window AC 13k BTU 1800 2800 Air compressor 1 hp 1600 4500 7200 Central AC 3 ton 5400 **Electric Dryer** 5400 6750 3400 6500 Heat Pump 3 ton 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

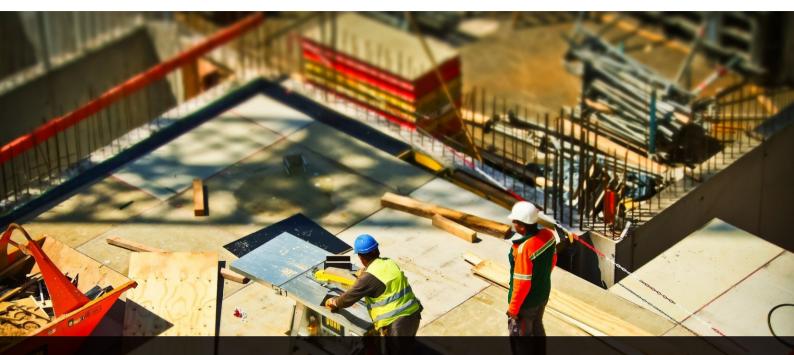
**Total Running Watts 2400 -----**

# Calculate Starting Watts:

**Total Starting Watts 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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