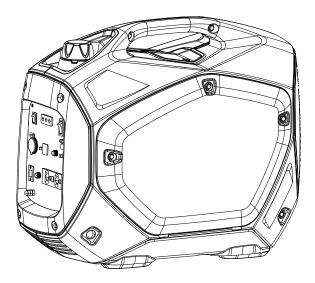
....AIMS POWER[™]

PORTABLE INVERTER GENERATOR

GEN2000W120V





READ AND UNDERSTAND THE MANUAL PRIOR TO USING.

2018-08-06 (REV:01)

INTRODUCTION

Thank you for purchasing this Inverter Generator. Before using this product, please read this manual thoroughly and follow the instructions carefully.

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WARNING

READ AND UNDERSTAND THIS MANUAL COMPLETELY BEFORE OPERATING THE GENERATOR.

SAFETY INFORMATION

EXHAUST FUMES ARE POISONOUS

Never operate the generator in a closed area. It may cause unconsciousness or death within a short period of time. Operate the generator in a well ventilated area.

Operate une generator in a weil ventilated area.

FUEL IS HIGHLY FLAMMABLE AND POISONOUS

Always turn off the engine when refueling.

Never refuel while smoking or near an open flame.

Take care not to spill any fuel on the engine or muffler when refueling.

If you swallow any fuel, inhale fuel vapor, or allow any to get in your eyes, seek assistance immediately. If any fuel spills on your skin or clothing, immediately wash with soap and water and change your clothes.

When operating or transporting the generator, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

ENGINE AND MUFFLER MAY BE HOT

Place the generator in a place where passers-by or children are not likely to touch the generator.

Avoid placing any flammable materials near the exhaust outlet during operation.

Keep the generator at least 3 feet from buildings or other equipment, or the engine may overheat.

Avoid operating the engine with a dust cover.

Be sure to carry the generator only by its carry handle.

Put the machine on the flat ground, allowing generator to elminate heat freely.

ELECTRIC SHOCK PREVENTION

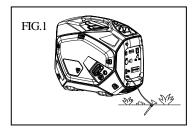
Never operate the generator in rain or snow.

Never touch the generator with wet hands or electrical shock will occur.

Be sure to ground (earth) the generator. FIG.1

NOTE:

Use ground (earth) lead of sufficient current capacity. Diameter: 0.12mm (0.005 in)/ampere –8AWG Wire EX: 10 Ampere –1.2mm (0.055 in)



CONNECTION NOTES

Do not connect the generator to commercial power outlet.

Do not connect the generator in parallel with any other generator.

SAFETY SYMBOLS



Caution - The user should be aware of a general hazard.



Dangerous Voltage

Flammable



Hot Surface - Do not touch.

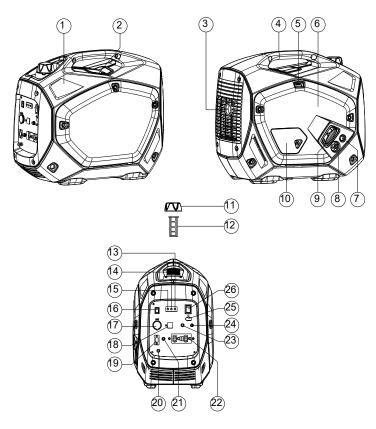
CONTROL & FEATURES

GENERATOR OVERVIEW (FOR ELECTRIC START TYPE)

- (1) Fuel tank
- (4) Carrying handle
- (7) Fuel pump
- (10) Oil filler cap
- (13) AC pilot light
- (16) Economy control switch
- (19) Auto Gen Start
- (22) AC receptacle
- (25) Engine start (EC5 receptacle)

- (2) Spark plug(5) Choke lever
- (8) Fuel cock
- (11) Fuel tank cap
- (14) Overload indicator light
- (17) DC 12V output
 - (20) Ground (earth) terminal
- (23) DC protector
 - (26) Engine switch

- (3) Muffler
- (6) Air filter
- (9) Recoil starter
- (12) Fuel filter
- (15) Oil warning light
- (18)USB output
- (21) AC protector 20A
- (24) Output reset



OIL WARNING SYSTEM

When the oil level falls below the lower level, the engine stops automatically. Unless you refill with oil, the engine will not start again.

FIG.2

ENGINE AND FUEL COCK SWITCH

The engine switch controls the ignition system. FIG.3

1 **ON** (run)

Ignition circuit is switched on. The engine can be started.

2 OFF(stop)

Ignition circuit is switched off. The engine will not run.

ELECTRIC START SWITCH

The engine switch controls the ignition system. FIG.4

1 RUN

Ignition circuit is switched on. The engine can be started.

2 STOP

Ignition circuit is switched off. The engine will not run.

3 START

Starting circuit is switched on. The starter motor starts.

ECONOMY CONTROL SWITCH

When the economy control switch is turned **ON**, the economy control unit will control the engine speed according to the connected load. The results are more efficient fuel consumption and less noise. **FIG.5**

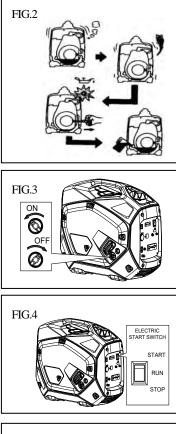
DC CIRCUIT PROTECTOR

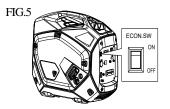
The DC circuit protector turns off automatically when the load exceeds

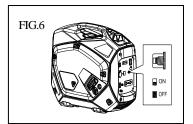
the generator's rated output. FIG.6

CAUTION:

Reduce the load to within specified generator's rated output if the DC circuit protector turns off.







OUTPUT RESET

Push reset button for 2 seconds. The generator will recover and produce

AC power. FIG.7

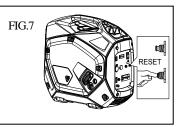
NOTE: -

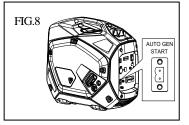
Reduce the load on the generator to ensure that the total load is within the rated power.

AUTO GEN START

The auto gen start controls the ignition system. FIG.8

When the circuit of this plug is connected the starter motor starts When the circuit of this plug is disconnected the engine will stop





PRE-OPERATION CHECK

NOTE:

Pre-operation checks should be made each time the generator is used.

CHECK ENGINE FUEL

Make sure there is enough fuel in the tank. FIG.9

If fuel is low, refill with unleaded automotive gasoline.

Be sure to use the fuel filter screen on the fuel filter neck.

Recommended fuel: Unleaded gasoline.

Fuel tank capacity: (see page 19)

WARNING:

Do not refill tank while engine is running or hot.

Close fuel petcock before refueling.

Be careful not to allow dust, dirt, water or other foreign objects into fuel.

Do not fill above the top of the fuel filter or it may overflow when

the fuel heats up later and expands.

Wipe off spilled fuel thoroughly before starting engine.

Keep away from open flame.

CHECK ENGINE OIL

Make sure the engine oil is at the upper level of the oil filler hole. Add oil

as necessary. FIG.10

Remove oil filler cap and check the engine oil level.

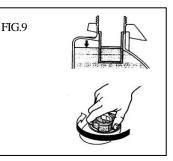
If oil level is below the lower level line, refill with recommended oil to upper level line. Do not screw in the oil filler cap when checking oil level.

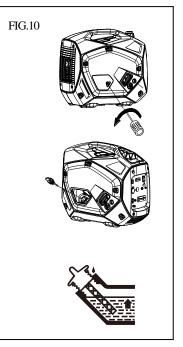
Change oil if contaminated.

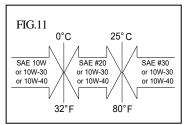
Oil capacity: (see page 19)

Recommended engine oil:10W-30

API Service "SJ" FIG.11







GROUND (Earth)

WARNING:

It is important to property ground your generator before using. Use an 8AWG wire and a small metal earth spike. The wire and earth spike are not supplied with the unit. **FIG.12**

CONNECT BATTERY (for electric starting system)

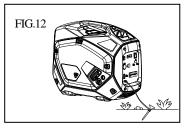
- (a) The battery for electric starter should be fixed on the handle of generator. FIG.13
- (b) Connect the battery to the socket on the control panel with the cable for battery. FIG.14

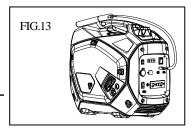
NOTE:

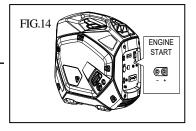
Make sure the battery is fully charged before using.

Avoid poor contact between battery and socket on control panel.

The battery also can be used as a power bank, please find the details in the manual for battery.







OPERATION

NOTE:

The generator has been shipped without engine oil. Fill with oil or it will not start.

Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.

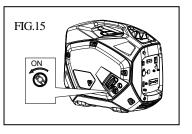
STARTING THE ENGINE

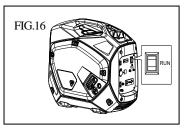
NOTE:

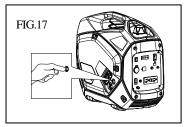
Before starting the engine, do not connect electric appliances.

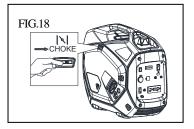
A. Recoil start

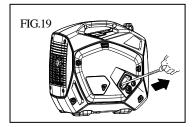
- 1. Turn the fuel cock lever to the **ON** position. **FIG.15**
- 2. Turn the electric start switch to the **RUN** position. **FIG.16**
- When starting the generator for the first time, press the primer bulb 6 times before attempting to start. FIG.17
- Turn the choke lever to the | ICHOKE position. Not necessary if the engine is warm. FIG.18
- 5. Pull the starter handle slowly until resistance is felt. This is the "Compression" point. Return the handle to its original position and pull swiftly. Do not fully pull out the rope. After starting, allow the starter handle to return to its original position while still holding the handle. Grasp the carrying handle firmly to prevent the generator





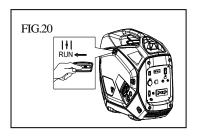


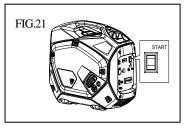


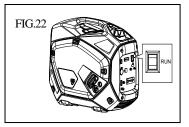


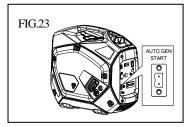
from falling over when pulling the recoil starter. FIG.19

- 6. Warm up the engine.
- Turn the choke lever back to the | | RUN position.
 FIG.20
- 8. Warm up the engine without a load for a few minutes.
- B. Electric start
- 1. Make sure the fuel cock lever is in the ON position.
- 2. Make sure the choke lever is in the | \blacklozenge | RUN position
- 3. Turn the engine switch to the START position. FIG.21
- 4. Turn the engine switch to the **RUN** position. **FIG.22**
- 5. Warm up the engine without a load for a few minutes.
- C. Auto start
- 1. Make sure the fuel cock lever is in the **ON** position.
- 2. Make sure the choke lever is in the | \blacklozenge | RUN position.
- 3. Make sure the engine switch is in the **RUN** position.
- 4. Connect the cable to Auto Gen Start plug. As soon as the generator receives the start signal, the generator will start. If the generator does not start successfully it will try to start again. Generator will disconnect the circuit when the generator does not start after three times. FIG.23









USING ELECTRIC POWER

- 1. AC APPLICATION
- (a) Check the AC pilot lamp for proper voltage.
- (b) Turn off the switch(es) of the electrical appliance(s) before connecting to the generator.
- (c) Insert the plug(s) of the electrical appliance(s) into the outlet. FIG.24

CAUTION:

Be sure the electric appliance is turned off before plugging in. Be sure the total load is within generator's rated output. Be sure the socket load current is within socket rated current. The economy control switch must be turned to **OFF** when using electric devices that require a large starting current, such as a compressor or a submergible pump. **FIG.25**

2. OVERLOAD INDICATOR LIGHT

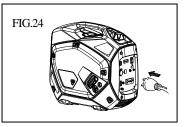
The overload indicator light comes on when overloaded, short circuit, or voltage is out of operating tolerance, overheats, or the AC output voltage rises. The electronic breaker will then activate, stopping power to the generator in order to protect the generator and any connected electric devices. The output pilot light (green) will flicker and the overload indicator light (red) will turn on, then the engine will stop running. If so follow the following steps: **FIG.26**

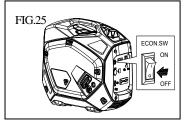
- (a) Turn off any connected electric devices and stop the engine.
- (b) Reduce the total wattage of connected electric devices to within the application range.
- (c) Check for blockages in the cooling air inlet and around the control unit. If any blockages are found, remove.
- (d) After checking, restart the engine. FIG.27

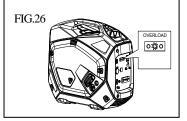
CAUTION:

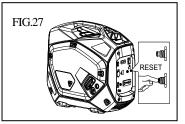
The generator AC output automatically resets when the engine is stopped and then restarted.

The overload indicator light may come on for a few seconds at first when using electric devices that require a large starting current, such as a compressor or a submergible pump. This is not a malfunction.









3. DC APPLICATION (option)

This applies to 12V battery charging only.

(a) Disconnect the leads for the battery.

Fully loosen the battery fluid filler cap.

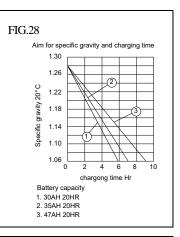
Fill distilled water to the upper limit, if the battery fluid is low level. Measure the specific gravity for the battery fluid by using the hydrometer, and calculate the charging time according to the table shown on right side.

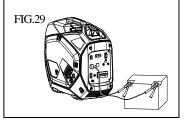
The specific gravity for the fully charged battery shall be within 1.26 to 1.28. It is recommended to check every hour. **FIG.28**

(b) Connect the DC output socket and the battery terminals using the charging leads. The leads must be connected making sure the (+) and (-) are correct.FIG.29

CAUTION:

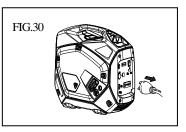
 Be sure the economy control switch is turned OFF while charging the battery.

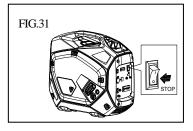


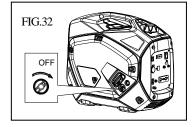


STOPPING THE ENGINE

- 1. Turn off the power switch of the electric device or disconnect any electric devices. FIG.30
- 2. Turn the engine switch to STOP position. FIG.31
- 3. Turn the fuel cock lever to OFF. FIG.32







PERIODIC MAINTENANCE

MAINTENANCE CHART

| | ANCE CHART | | 1 11 1 | - | - | - |
|-------------|------------------------------------|------------------------|---------------------|-------------------|-------------------|--------------------|
| | | Pre-operation check | Initial 1 months | Every 3 months | Every 6 months | Every 12 months |
| Item | Remarks | (daily) | or 20 Hr | or 50Hr | or 100Hr | or 300Hr |
| Spark | Check condition adjust gap and | | | | | |
| Plug | clean. Replace if necessary. | | | • | | |
| Engine | Check oil level | • | | | | |
| Oil | Replace | | • | | • | |
| Oil filter | Clean oil filter | | | | • | |
| Air Filter | Clean. Replace if necessary. | | | • | | |
| Fuel Filter | Clean fuel cock filter. Replace if | | | | | |
| | necessary | | | | • | |
| Choke | Check choke operation | • | | | | |
| Valve | Check and adjust when engine | | | | | |
| Clearance | is cold. | | | | | • |
| Fuel Line | Check fuel hose for crack or | | | | | |
| | damage. Replace if necessary. | • | | | | |
| Exhaust | Check for leakage. Retighten or | • | | | | |
| System | replace gasket if necessary | | | | | |
| | Check muffler screen. | | | | | • |
| | Clean / replace if necessary. | | | | | |
| Carburetor | Check choke operation | • | | | | |
| Cooling | Check fan damage. | | | | | • |
| system | | | | | | • |
| Starting | Check recoil starter operation. | • | | | | |
| system | | - | | | | |
| Idle speed | Check and adjust engine idle speed | | | | | • |
| Fittings / | Check all fittings and fasteners | | | | • | |
| Fasteners | correct if necessary. | | | | - | |
| Crankcase | Check breather hose for cracks or | | | | | • |
| breather | damage. Replace if necessary | | | | | - |
| Generator | Check the pilot light comes on | • | | | | |
| | | | | | | |

Regular maintenance is important for the best performance and safe operation.

ENGINE OIL REPLACEMENT

- Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine and turn the fuel cock knob to OFF. Turn the fuel tank cap air vent knob counterclockwise to the CLOSED position. FIG.33
- 2. Loosen the screw and remove the cover.
- 3. Remove the oil filler cap.
- Place an oil pan under the engine. Tilt the generator to drain the oil completely. FIG.34
- 5. Replace the generator on a level surface.
- 6. Add engine oil to the upper level. FIG.35
- 7. Replace the oil filler cap.
- Replace the cover and tighten the screw Recommended engine oil: (see page 19) API Service "SJ"

CAUTION:

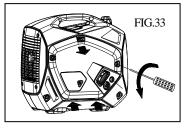
Be sure no foreign material enters the crankcase.

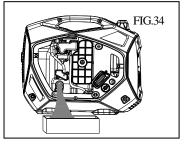
Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine

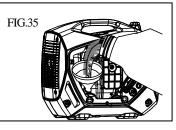
AIR FILTER

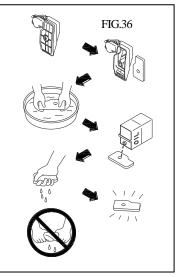
Cleaning your air filter needs to be part of your maintenance regime. The air filter ensures that the air entering the combustion chamber is as clean as possible. Contaminated air wears on the engine caused by foreign bodies and a less efficient combustion process. FIG.36

- 1. Remove the cover.
- 2. Remove the air filter cover and element.
- 3. Wash the element in solvent and dry.
- Oil the element and squeeze out excess oil. The element should be wet but not dripping.
- 5. Insert the element into the air filter.
- 6. Replace the cover.









CAUTION: -

The engine should never run without the element; excessive piston and/or cylinder wear may result.

CLEANING AND ADJUSTING SPARK PLUG

- 1. Remove the cover.
- 2. Check for discoloration and remove the carbon.
- 3. Check the spark plug type and gap.
- 4. Install the spark plug.
- 5. Replace the cover. FIG.37

CAUTION:

Standard electrode color: Tan Color. Standard Spark Plug: A5RTC (TORCH) Spark Plug Gap: 0.6-0.7 mm (0.024-0.028 in)

FUEL TANK FILTER

- 1. Remove the fuel tank cap and filter.
- 2. Clean the filter with solvent. If damaged, replace.
- 3. Wipe the filter and insert it. FIG.38

WARNING -

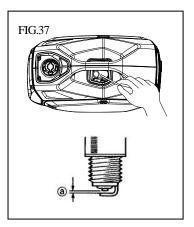
Be sure the tank cap is tightened securely.

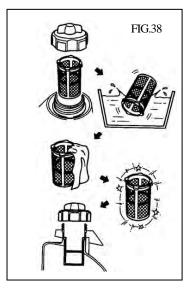
MUFFLER SCREEN

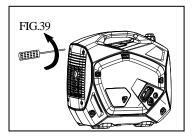
WARNING

The engine and muffler will be very hot after the engine has been run.

Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.FIG.39







- 1. Remove the cover.
- 2. Remove the muffler screen.
- Use a flathead screw driver to pry the spark arrester out from the muffler.
- Remove the carbon deposits on the muffler screen and spark arrester using a wire brush.
- 5. Replace the muffler screen.
- 6. Replace the cover. FIG.40

TROUBLESHOOTING

Engine won't start

1. Fuel systems

No fuel supplied to combustion chamber.

No fuel in tank....Supply fuel.

Fuel in tank....Turn fuel cock knob to ON.

Clogged fuel line....Clean fuel line.

Clogged carburetor....Clean carburetor.

2. Engine oil system

Oil level is low....Add engine oil.

3. Electrical systems

Poor spark

Spark plug dirty with carbon or wet....Remove carbon or wipe spark plug dry.

Faulty ignition system....Consult dealer.

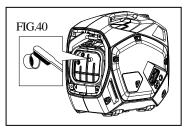
4. Compression insufficient

Worn out piston and cylinder....Consult dealer.

5. Generator won't produce power

Safety device (AC) to "OFF" ... Stop the engine, then restart.

Safety device (DC) to "OFF" ... Press to reset the DC protector



STORAGE

Long term storage of your machine will require some preventative maintenance to guard against deterioration. DRAIN THE FUEL

- 1. Remove the fuel tank cap, drain the fuel from the fuel tank.
- 2. Remove the cover, drain fuel from the carburetor by loosening the drain screw.

ENGINE

- Remove the spark plug, pour in about one tablespoon of SAE 10W30 or 20W40 motor oil into the spark plug hole and reinstall the spark plug.
- 2. Use the recoil starter to turn the engine over several times (with ignition off).
- 3. Pull the recoil starter until you feel compression.
- 4. Stop pulling.
- 5. Clean exterior of the generator and apply a rust inhibitor.
- 6. Store the generator in a dry, well-ventilated place, with the cover placed over it.
- 7. The generator must remain in a vertical position.

SPECIFICATION

| MODEL | | GEN2000W120V |
|-----------|----------------------------|-------------------------------------------|
| GENERATOR | Туре | Portable Inverter Generator |
| | AC Voltage | 100V, 110V, 120V |
| | Frequency | 60Hz |
| | Max. Output | 2.0 kW |
| | Rated Output | 1.9 kW |
| | Power Factor | 1.0 |
| | DC Output | 12V/4.0A 5V/1A 5V/2.1A(Option) |
| | Model | XY156F |
| | Туре | Air-cooled, 4 cycle, OHV, Gasoline Engine |
| | Bore×Stroke mm×mm | 56×46 |
| | Displacement | 114 cc |
| ш | Max. Output | 2.5KW / 4500rpm |
| | Fuel | Unleaded Automobile Gasoline |
| ENGINE | Fuel tank Capacity | 0.95gal |
| | Rated Continuous Operation | 4.6 hr (50% Load) |
| | Lubricating oil | SAE 10W30 |
| | Lubricating oil Capacity | 0.52 liter |
| | Starting System | Electric / Recoil Starter |
| | Ignition system | C.D.I. |
| | Spark Plug: Type | A5RTC (TORCH) |
| NO | Unit dimension L×W×H | 20.66×11.10×17.32 in |
| | Box dimension L×W×H | 21.85×12.6×18.3 in |
| DIMENSION | Unit Weight | 48.5lb |
| MID | Box Weight | 50lb |

Specifications subject to change without prior notice.

WIRING DIAGRAM

