



INVERTER GENERATOR

Owner's Manual

Models: SUA2000i and SC2000i



SAVE THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY INSTRUCTIONS ARE INCLUDED IN THIS MANUAL

CUSTOMER SERVICE

SERVICE CLIENTELE

SERVICIO AL CLIENTE

1-855-888-3598

A-iPOWER Corp.

1477 E. Cedar St. #B,

Ontario, CA 91761

U.S.A.

www.a-ipower.com

Thank You and Congratulations on Choosing A-iPower Inverter Generator.

This Operating Manual has been designed to instruct you on the correct use and operation of you're A-IPOWER product. Your satisfaction with this product and its safe operation is our ultimate concern. Therefore, please take your time to read the entire manual, especially the Safety Precautions. They will help you to avoid potential hazards that may exist when working with this product. This manual should stay with this generator if it is sold.

WARNING!

Read and understand all safety precautions in this manual before operating. Failure to comply with the instructions in this manual could result in personal injury, property damage, and/or voiding of your warranty. A-iPower will not be liable for any damages due to failure to follow these instructions.

Customer service: 1-855-888-3598, www.a-ipower.com.

TABLE OF CONTENTS

SAFETY INSTURCTIONS AND WARRANINGS	4
CONTROLS AND FEATURES	7
2.1 GENERATOR	7
2.2 CONTROL PANEL	7
2.3 CONTROL FUNCTION.....	7
2.4 TO RESET THE GENERATOR	10
2.5 HOW TO START GENERATOR WITH MULTI-SWITCH	10
GETTING STARTED	11
3.1 UNPACKING THE GENERATOR	11
3.2 ADDING ENGINE OIL.....	11
3.3 ADDING FUEL.....	12
3.4 STARTING THE ENGINE	13
3.5 STOPPING THE ENGINE	13
ELECTRIC CONNECTION	14
4.1 CAPACITY	14
4.2 POWER EQUIPMENT.....	14
4.3 CONNECTING ELECTRICAL LOADS	14
4.4 PARALLEL CONNECTION WITH 2 GENERATORS.....	15
4.5 BATTERY CHARGING	16
4.6 WATTAGE REFERENCE GUIDE	17
MAINTENANCE	18
5.1 PERIODIC MAINTENANCE	18
5.2 SPARK PLUG MAINTENANCE	19
5.3 ENGINE OIL REPLACEMENT.....	20
5.4 AIR FILTER MAINTENANCE	21
5.5 MUFFLER SCREEN & SPARK ARRESTOR MAINTENANCE.....	22
5.6 FUEL FILTER MAINTENANCE	23
STORAGE	24
6.1 LONG TERM STORAGE	24
6.2 ENGINE.....	25
TROUBLESHOOTING AND SPECIFICATIONS	26
7.1 TROUBLESHOOTING DIAGRAM	26
7.2 FUEL FILTER MAINTENANCE	27
7.3 SPECIFICATIONS	28
WARRANTY	29
A-IPOWER WARRANTY REGISERATION FORM	32

SAFETY INSTURCTIONS AND WARNNINGS

IMPORANT MANUAL INFORMATION

Important information is distinguished in this manual by the following notes.

Symbol Usage

This manual contains important information that you need to know and understand in order to assure YOUR SAFETY and PROPER OPERATION OF EQUIPMENT. The following symbols help you recognize this information.

Please read the manual and pay attention to these sections.



WARNING indicate a certainty or strong possibility of personal injury or death if instructions are not followed.

NOTICE

NOTICE indicates a possibility damage to the products if instructions are not followed properly.

TIPS

TIPS give helpful information.



Please read and understand this manual completely before operating the machine.

TIPS

A-IPOWER continually seeks advancements in product design and quality. Therefore, wherein this manual contains the most current product information available at the time of printing, there may be minor variances between your product and this manual. If there is any question concerning this manual, please consult a A-IPOWER dealer.

This manual should be considered a permanent part of this product and should remain with this product when resold.

Product and specifications are subject to change without notice.

SAFETY INSTURCTIONS AND WARNNINGS

SAFETY INFORMATION

FUEL IS HIGHLY FLAMABLE AND POISONOUS

- Always turn off the engine when refueling.
- Never refuel while smoking or in the vicinity of 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 eye(s), see your doctor 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 machine, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

EXHAUST FUMES ARE POISONOUS

- Never operate this product in a closed area or it may cause unconsciousness and death within a short time. Always operate this productmp in a well ventilated outdoor area.

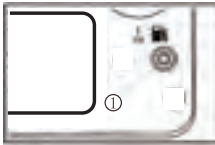
ENGINE AND MUFFLER MAY BE HOT

- When operating the generator, place in a safe area away from pedestrians or children.
- Avoid placing any flammable materials near the exhaust outlet during operating.
- Keep the generatr at least 3Ft. (1 m) from buildings or other equipment, or the product may overheat.
- Do not operate the product with a dust cover, or other objects covering it.
- When covering the generator, be sure to do so only after the engine and muffler have completely cooled down.
- Be sure to carry the generator only by its carrying handles.
- Do not place any obstacles on the generator.

TO PREVENT ELECTRIC SHOCK

- Never operate the product in rain or snow.
- Never touch the generator with wet hands, or, electrical shock can occur.

GROUNDING



Properly ground generator to prevent electric shock.

Connect the ground terminal of the generator to the ground electrode buried in the ground.

WARNING NOTES

Failure to properly ground the generator can result in electric shock.

Be sure to always comply with electric loads.

SAFETY INSTRUCTIONS AND WARNINGS

SAFETY INFORMATION



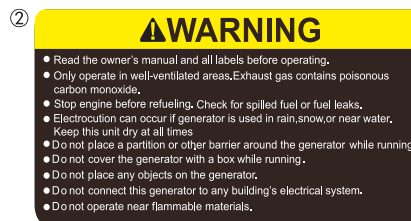
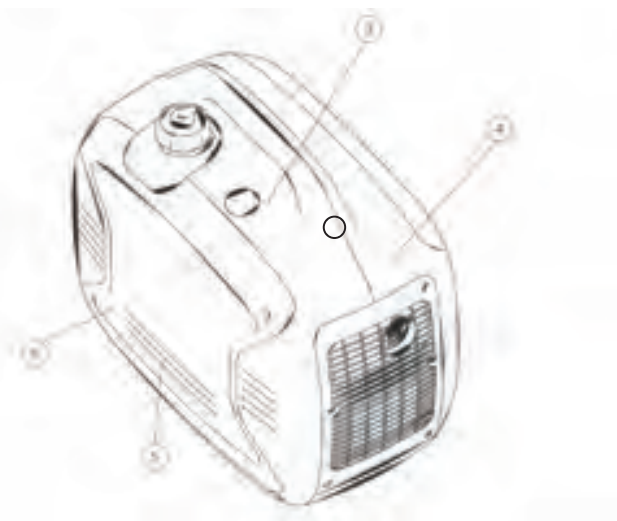
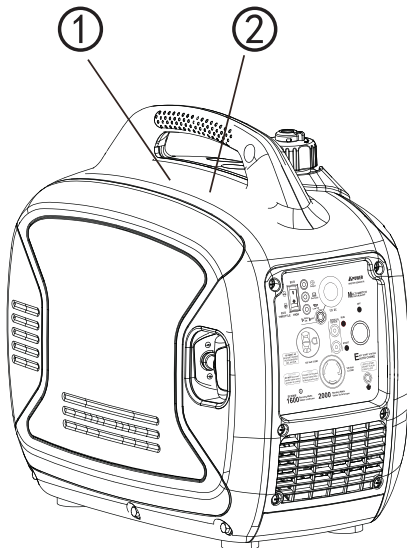
Always use proper approved electrical cords. Be sure to comply with all electric codes.
Do not use electrical cords that are worn or damaged.
Always use GFCI (ground fault circuit interruptor) for damp locations.
Always use proper approved transfer switch to isolate generator from the electric panel.

LOCATION OF IMPORTANT LABELS

Please read the following labels carefully before operating this product.

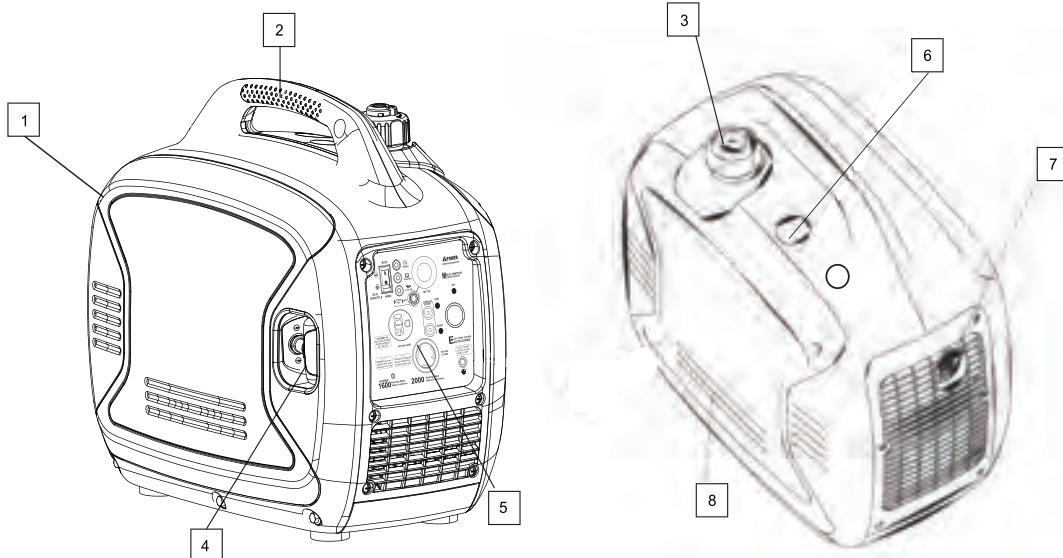
TIP

Maintain or replace safety and instruction labels when necessary.
For customer service, call 1-855-888-3598.



CONTROL AND FEATURES

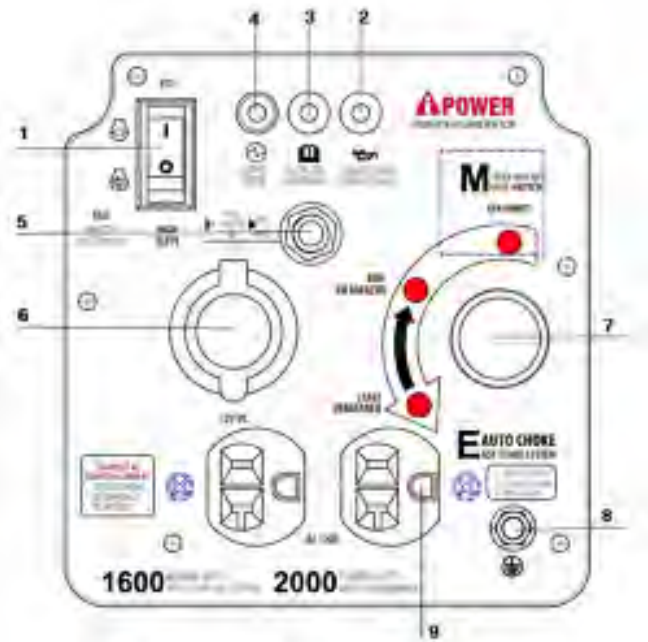
2-1 GENERATOR



- | | | |
|-------------------------------|--------------------|-------------------|
| 1. Muffler | 2. Carrying Handle | 3. Vented Gas Cap |
| 4. Recoil Starter | 5. Control Panel | 6. Fuel Gauge |
| 7. Exhaust and Spark Arrestor | 8. Oil Filler Cap | |

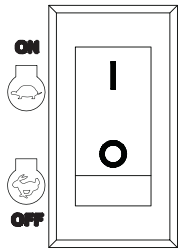
2-2 CONTROL PANEL

1. Eco Throttle
2. Low Oil Alarm
3. Overhead Alarm
4. Output Indicator
5. 8A DC Circuit Breaker
6. 12V DC Output
7. Multi-Switch
8. Ground Terminal
9. 120 Volt 5-20R



CONTROL AND FEATURES

2.3 CONTROL FUNCTIONS



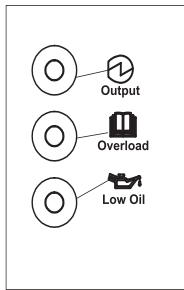
ECO THROTTLE

When the Throttle Switch is in the “ON” position, the throttle controls the engine speed according to the connected electrical load. The results are better fuel consumption and less noise. When the switch is in the “OFF” position, the engine runs at 4,500 RPM regardless of the electrical load.



NOTE

The Throttle must be “OFF” when using electrical devices that require a large starting current, such as a compressor, pump, or refrigerator.



LED INDICATORS

The LED indicators assist in communicating status and functions of the Unit.

OUTPUT INDICATORS (GREEN)

The Output Indicator comes on when the engine starts and produces power.

OVERLOAD ALARM (RED)

The Overload Alarm comes on when a connected device requires more power than the generator is able to produce.

The Output Indicator (Green) will go off and the Overload Alarm (Red) will stay on, but the engine will continue to run.

CAUTION: Do not overload the generator when overload light appears.

LOW OIL ALARM (RED)

When the engine oil falls below the required level, the Low Oil Alarm will come on and the engine will stop automatically. The engine will not restart until oil is added to the unit to bring it up to the appropriate level.



Note:

The Overload Alarm may come on for a few seconds when first using electrical devices that require a large starting current, such as a compressor, pump, or refrigerator. This is normal and not a malfunction.

CONTROL AND FEATURES

2.3 CONTROL FUNCTIONS (CONTINUED)



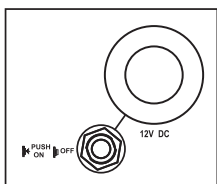
NOTE

When starting the unit, if the Low Oil Alarm light flickers and the engine will not start, you will need to add engine oil before attempting to restart the engine.



NOTE

Generator should only be operated on a level surface. DO NOT operate the generator on loose ground or obvious inclines. The low oil shutdown feature may be prematurely activated in these cases causing the engine to not start.

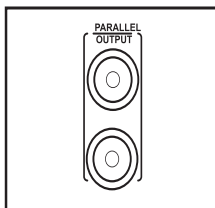


12V 8A DC

The 12V 8A DC Output is provided for battery charging. Follow instructions in the owner's manual for the battery charging procedures.

8A DC Circuit Breaker

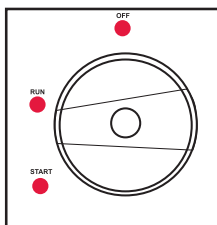
The 8A DC Circuit Breaker turns off automatically if the current exceeds 8A. If the circuit breaker turns "OFF" you will need to push it in to turn it "ON" again.



Parallel Output

Two generators can be connected to increase output. Put parallel wire into the socket first, then start the two greater wattage as the normal process.

NOTE: put the connection wire into the right sockets (please refer to 4.4 for how to connect properly).



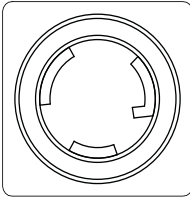
Multi-Switch

The Multi-Switch control fuel valve, choke and engine switch. When starting the generator, rotate the Multi-Switch counter clockwise from OFF to START position, then pull recoil cord quickly to start. After started, rotate the switch to RUN position.

NOTE: To shut off generator, rotate Multi-Switch clockwise to OFF position and hold until generator turns off.

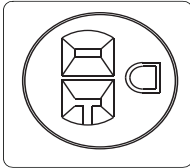
CONTROL AND FEATURES

2.3 CONTROL FUNCTIONS (CONTINUED)



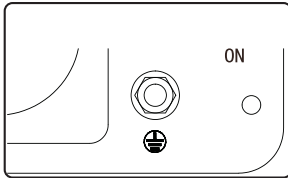
120V AC Outlet

The Outlet is used to power 120V single phase 60HZ loads requiring up to 1600W continuous power. 120V AC twist lock receptacle (NEMA L5-30R) may be used to supply electrical power when parallel connection required.



120 Volt 5-20R

The Outlet is used to power 120V single phase 60HZ loads requiring up to 1600W continuous power.



Ground Terminal

Properly ground generator to prevent electrical shock. Connect the ground terminal of generator to ground electrode buried in the ground.

2.4 TO RESET THE GENERATOR

- 1) Turn off any connected electrical devices and stop the engine.
- 2) Reduce the total wattage of connected electric devices within the rated output.
- 3) Use in proper ventilated areas. Maintain at least 3Ft. of clearance on all sides for adequate cooling.
- 4) After checking, restart the engine.

2.5 HOW TO START GENERATOR WITH MULTI-SWITCH

Rotate knob counterclockwise to “RUN” position and start by pulling the recoil starter.

NOTE

When attempting to restart generator while engine is hot, there is no need to rotate knob to “START” position.

GETTING STARTED

3.1 UNPACK THE GENERATOR

Remove the generator from its packaging.



WARNING!

DO NOT ATTEMPT TO ADD FUEL TO THIS UNIT BEFORE REMOVING IT FROM PACKAGING.

Inspect the generator to ensure that no damage has occurred in shipping or handling. If the unit appears to be damaged, DO NOT add fuel or attempt to start the generator. Please call A-IPOWER customer service at 1-855-888-3598.

Check to Ensure that You Received the Following Items:

Inverter Generator
12V Charging Cables
Parallel Output Wire
Oil Funnel
RV Adaptor

If you did not receive any of the above items, please contact A-IPOWER customer service at 1-855-888-3598.



Figure 1

3.2 ADDING ENGINE OIL

The generator has been shipped without engine oil. DO NOT add fuel or start the engine before adding engine oil.

IN ORDER TO ADD ENGINE OIL, YOU WILL NEED TO REMOVE THE SIDE PANEL FROM THE UNIT (Figure 1). Using a #2 Philips-Head screwdriver to remove screws ① ② (Figure 1) and lift up and away to remove the side panel.



Figure 2

PLACE THE GENERATOR ON A LEVEL SURFACE.

DO NOT tilt the generator while adding oil. It can cause you to overfill the oil and/or cause the oil to leak into areas in which it is not intended.

Remove the oil filler cap ① (see Figure 2)

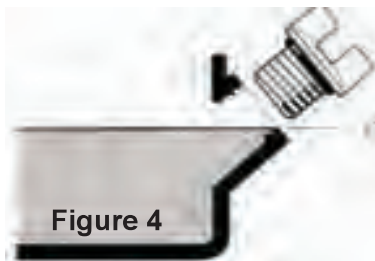


Figure 3

Using the funnel (supplied) to fill with 0.42 quart of SAE 10W-30 or 10W-40 (see Figure 3). See Figure 4 for proper oil level.

GETTING STARTED

Replace oil filler cap and secure side panel with screws.



Recommended Engine Oil:

- A. YAMALUBE 4 (10W-40), SAE 10W-30 or 10W-40
B. SAE #30 C. SAE #30 D. SAE #10W

Recommended Engine Oil Grade:

API Service SE type or higher

Engine Oil Quantity: 0.4L (0.42 US Qt, 0.35 Imp Qt)

3.3 ADDING FUEL

The fuel capacity is 1.1 Gallon.

DO NOT overfill the tank, otherwise, it may overflow when the fuel warms up and expands.



NOTE

For safety reasons, once fuel has been added to this unit, it cannot be returned to the place of purchase.

1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85.
2. DO NOT mix oil with fuel.
3. Clean area around the fuel cap.
4. Remove the fuel cap.
5. Be sure that the fuel strainer is in place.
6. Slowly add fuel to the tank.
7. Do not exceed the red marker position of the fuel filter.
8. Screw on the fuel cap and wipe away and spilled fuel.



NOTE: Use only unleaded gasoline.

The use of leaded gasoline will cause severe damage to internal engine parts.

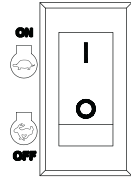
After filling fuel, make sure the fuel tank cap is tightened securely.

GETTING STARTED

3.4 STARTING THE ENGINE

OPERATING THE ENGINE IN A WELL VENTILATED AREA.

DO NOT connect any electrical devices to the outlets on the generator before starting the engine.

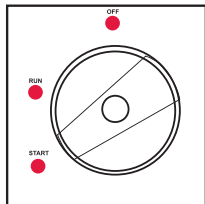


1. Turn the Eco Throttle switch “OFF”.

You may turn the Eco Throttle switch to “ON” once the engine is started and a steady idle is achieved. (below 0°C(32°F)/5mins, below 5°C(41°F) /3mins)



2. Hold the fuel tank cap so as not to make it move, then turn the air vent knob to “ON”.



3. Turn the Multi-Switch to “START” position.



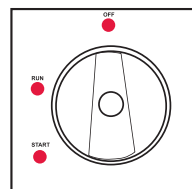
4. Grasp the carrying handle firmly to prevent the generator from falling over when pulling the recoil starter.

5. Pull slowly on the recoil starter until it is engaged and then pull it briskly.

6. After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned the original position.

3.5 STOP THE ENGINE

Before stopping the engine, turn off and disconnect any electronic devices attached to the generator.



1. Turn the Multi-Switch to the “OFF” position.



2. Holding the fuel tank cap so as not to make it move, then, turn the air vent knob to “OFF”.

ELECTRICAL CONNECTION

4.1 CAPACITY

Follow these simple steps to calculate the running and starting watts necessary for your purposes.

See Section 4.6 for WATTAGE REFERENCE GUIDE.

1. Select the electrical devices you plan on running at the same time.
2. Total the running watts of these items. This is the amount of power you need to keep your items running.
3. Identify the highest starting wattage of all devices identified in step 1
 - A. Add the number to the number calculated in Step 2.
 - B. Surge wattage is the extra burst of power needed to start some electric driven equipment. Following the steps listed under “Power Management” will guarantee that only one device will be starting at a time.

4.2 POWER EQUIPMENT

Use the following formula to convert voltage and amperage to watts:

Volts x Amps = Watts

TO PROLONG THE LIFE OF YOUR GENERATOR AND ATTACHED DEVICES, FOLLOW THESE STEPS TO ADD ELECTRICAL LOAD:

1. Start the generator with no electrical load attached.
2. Allow the engine to run for several minutes to stabilize.
3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
4. Allow the engine to stabilize.
5. Plug in and turn on the next item.
6. Allow the engine to stabilize.
7. Repeat Step 5 and Step 6 for each additional.

4.3 CONNECTING ELECTRICAL LOADS

1. Let the engine stabilize and warm up a few minutes after starting.
2. Prior to powering tools and equipment, make sure the generator rated voltage, and amperage capacity (120V AC @ 7 AMPs, 12V DC @ 8 AMPs) is adequate to supply all electrical loads that the unit will power. If powering exceeds the generator capacity, it may be necessary to group one or more of the tools and/or equipment for connection to a separate generator.
3. Once the generator is running, simply connect the power cords of 120 Volt AC powered tools and equipment into the 120 Volt AC outlet and/or the power cord of a 12V DC powered tool to the DC terminals.

ELECTRICAL CONNECTION

4.3 CONNECTING ELECTRICAL LOADS (CONTINUED)

4. DO NOT connect 3-phase loads to the generator.
5. DO NOT connect 50HZ loads to the generator.
6. DO NOT overload the generator.



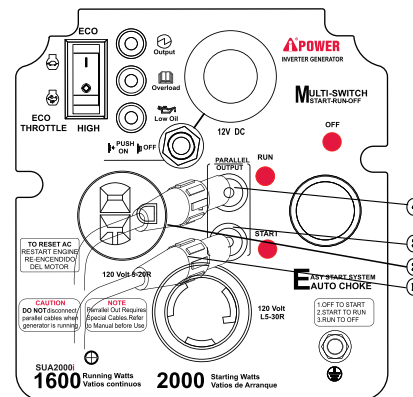
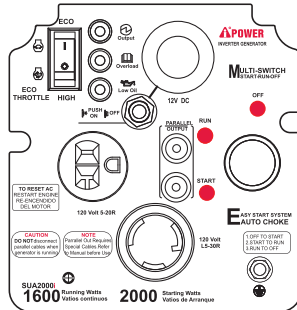
NOTE

The DC terminals may be used for charging 12 Volt automotive type batteries only.

4.4 PARALLEL CONNECTION WITHIN 2 GENERATORS.

Performance: Allows you to increase the output by connecting tow generators together.
By using the parallel connection wires provided.

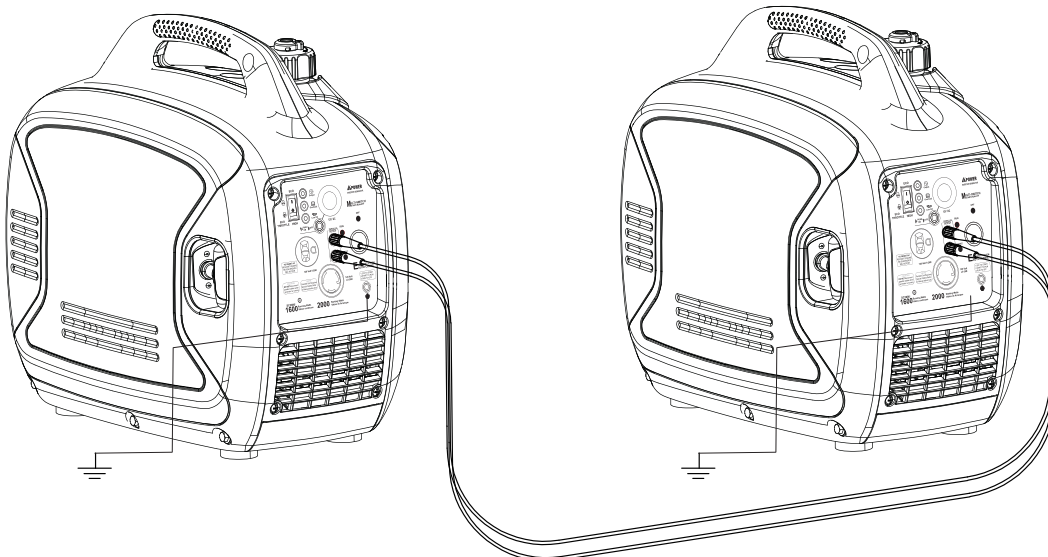
1. Two SUA2000i inverter generatorS needed.



2. Put the parallel connection wire 1 and 2 into the parallel connection sockets 3 and 4.

ATTENTION

Grounding wire must be properly connected.



ELECTRICAL CONNECTION

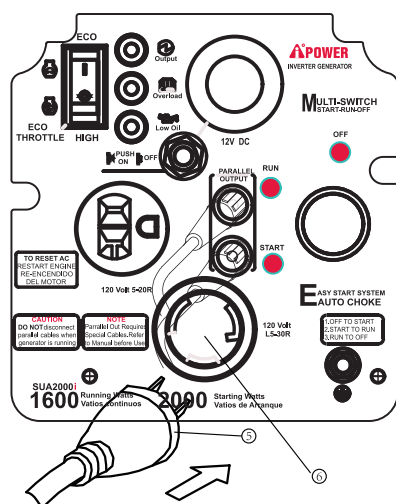
4.4 PARALLEL CONNECTION WITHIN 2 GENERATORS (CONTINUED)

3. Start two sets of inverter generators. The starting operation is as the same as normal process.

ATTENTION

Please make sure the parallel connection wires have been put into the parallel connection sockets properly. If not connected properly, it could damage the generator if starting it.

4. The load plugs can now be plugged into socket 6.



WARNING

Only TWO SUA2000i inverter generators can be parallel connected.
Only use SUA2000i parallel connecting wire.
Make sure to connect the correct parallel wire into the correct socket.
Connect the parallel wires when generator is OFF.
Parallel wires are not necessary when only one generator is used.
Read SUA2000i manual carefully before operation.

4.5 BATTERY CHARGING

Start the engine first and allow it to reach idle before connecting the generator to the battery. Battery charging is performed using the 12V DC outlet only.

1. Be sure the Throttle Switch is turned "OFF" while charging batteries.
2. Be sure to connect the red battery charger lead to the positive (+) battery terminal, and connect the black lead to the negative (-) battery terminal. DO NOT reverse these positions.
3. Connect the battery charger leads to the battery terminals securely so that they do not disconnect due to engine vibration or other disturbances.
4. Charge the battery by following the instructions in the owner's manual for the battery.

ELECTRICAL CONNECTION

4.5 BATTERY CHARGING (CONTINUED)

5. The DC Circuit Breaker will turn “OFF” automatically if the current exceeds rated output.
6. To restart charging the battery, turn the DC protector on by pressing its button to “ON”.
7. Refer to the owner’s manual for the battery to determine charging times.

NOTE

Never start or stop the generator with electrical devices plugged in or turned on.

4.6 WATTAGE REFERENCE GUIDE

Item	Running Watts	Starting Watts
Essentials		
Light Bulb	100	100
Refrigerator/Freezer	1200	2400
Sump Pump	600	1800
Well Pump 1HP	2000	4000
Water Heater	4000	
Security System	180	
AM/FM Radio	300	
Garage Door Opener ½ HP	500	600
Battery Charger 12V	110	
Heating and Cooling		
Air Conditioner 12000 BTU	1700	2500
Fan	300	600
Furnace Fan 1/3 HP	1200	2000
Home Appliances		
Microwave	1000	
Electric Range – One Element	1500	
Electric Skillet	1250	
Coffee Maker	1500	
Clothes Washer	1200	
Entertainment		
CD/DVD Player	100	
Stereo Receiver	450	
Television 27”	500	
PC with 15” Monitor	800	
Job Site		
Belt Sander 3”	1000	1500
Bench Grinder 6”	700	1500
Circular Saw	1500	1500
Compressor 1 ½ HP	1000	1000
Edge Trimmer	500	500
Hand Drill ½”	1000	1000
Paint Sprayer	600	1200
Table Saw	2000	2000

Reference Only. Check your tool or appliance requirements. The wattage for exact wattages listed is based on estimated wattage requirements.

For exact wattages, check the data plate or owner’s annual on the item you wish to power when you use the generator.

Operating voltage and frequency requirement of all electronic equipment should be checked prior to plugging into this generator. Damage may result if the equipment is not designed to operate within a +/-10% voltage variation, and +/-3 Hz frequency variation from the generator specification ratings.

YOUR POWER NEEDS

Tool or Appliance	Running Watts	Starting Watts
1.		
2.		
3.		
4.		
5.		
Total Running Watts		
	Highest Starting Watts	

Total Running Watts + Highest Starting Watts	
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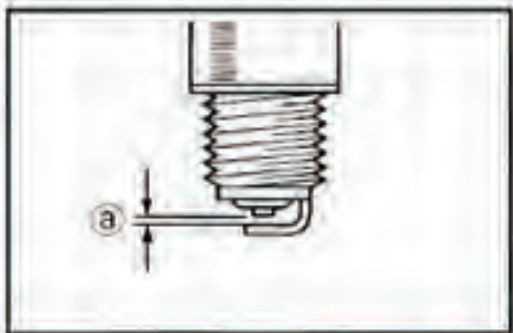
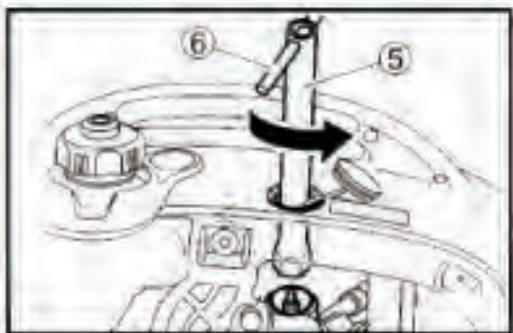
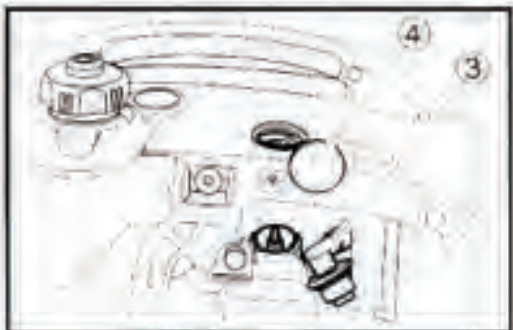
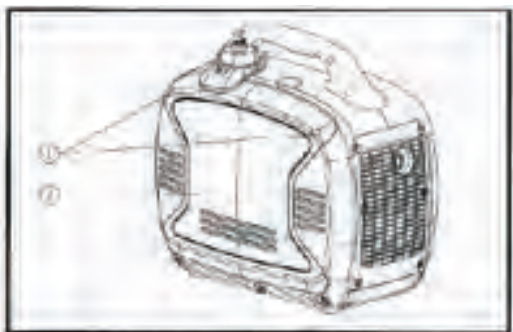
MAINTENANCE

5.1 PERIODIC MAINTENANCE

Periodic inspection, adjustment and lubrication will keep your generator in the safest and most efficient condition possible.

Item	Routine	Prior to use	Every	
			6mos. or 100hrs.	12mos. or 300hrs.
Spark Plug	• Check condition • Clean and replace if necessary		•	
Fuel	• Check fuel level and leakage.	•		
Fuel hose	• Check fuel hose for cracks or damage • Replace if necessary.	•		
Engine oil	• Check oil level in engine.	•		
	• Replace*		•*	
Air Filter Element	• Check condition • Clean		•	
Muffler Screen	• Check Condition • Clean or replace if necessary		•	
Spark Arrestor	• Check Condition • Clean or replace if necessary		•	
Fuel Filter	• Check Condition • Clean or replace if necessary			•

* Initial replacement of the engine oil is after one month or 20 hours of operation.



MAINTENANCE

5.2 Spark Plug Maintenance

Spark plug inspection

The spark plug is an important engine component and should be checked periodically.

1. Remove the screws ① and then remove the cover ②.
2. Remove the spark plug cap ③ and access cap ④
3. Insert the tool ⑤ through the hole in the outside of the cover.
4. Insert the handlebar ⑥ into the tool ⑤ and turn it counterclockwise to remove the spark plug.
5. Check for discoloration. The carbon porcelain insulator around the center electrode of spark plug should be a Medium-to-light tan color.
6. Check the spark plug type and gap. The spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.

Spark Plug Type:

TORCH E5T(E5RTC)

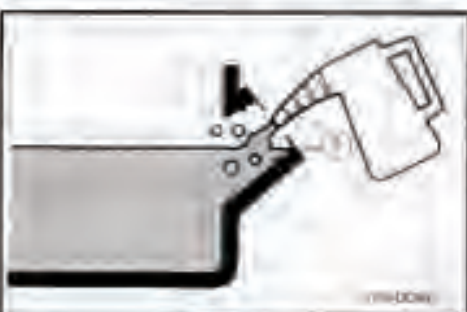
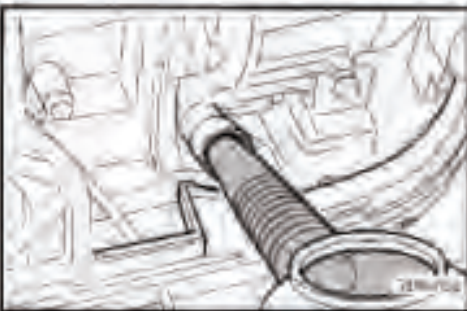
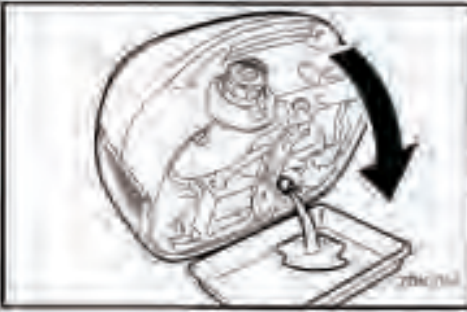
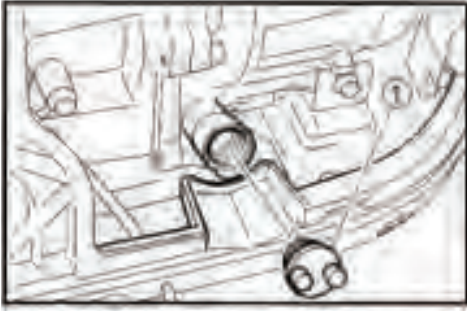
Spark Plug Gap:

0.6-0.7 mm (0.024-0.028 in)

Spark Plug Torque:

20.0 N·m (2.0kgf·m, 14.8 lbf·ft)

7. Install spark plug, spark plug cap, cover and screws.



MAINTENANCE

5.3 Engine Oil Replacement

Initial replacement of the engine oil is after one month or 20 hours of operation.

1. Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine and turn the Fuel Petcock knob to “OFF” and the Fuel Tank Cap Air Vent knob to “OFF”.
2. Remove the screws ① and then remove the cover ②.
3. Remove the oil filler cap.
4. Place an oil pan under the engine. Tilt the generator to drain the oil completely.
5. Return the generator to a level surface.

Note: DO NOT tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.

6. Add engine oil to the upper level as seen in the diagram ①.

Recommended engine oil:

- YAMALUBE 4 (10W-40), SAE 10W-30 or 10W-40
- SAE#30
- SAE#20
- SAE10W

Recommended engine oil grade:

API Service SE type or higher

Engine oil quantity:

0.4L (0.42US qt, 0.035 Imp qt)

7. Install oil filler cap, cover, and screws.



MAINTENANCE

5.4 Air Filter Maintenance

Should be performed every 6 months or 100 hours. The air filter may need to be cleaned more frequently when using in unusually wet or dusty areas.

1. Remove the screws ① and then remove the cover ②.
2. Remove the screws ① and then remove the air filter case cover ②.
3. Remove the foam element ①.
4. Wash the foam element in solvent and dry it.
5. Oil the foam element and squeeze out excess oil. The foam element should be wet but not dripping.

NOTE: Do not wring out the foam element when squeezing it. This could cause it to tear.

6. Insert the foam element into the air filter case. Be sure the foam element sealing surface matches the air filter so there is no air leak.

NOTE

Never operate the engine without foam element.

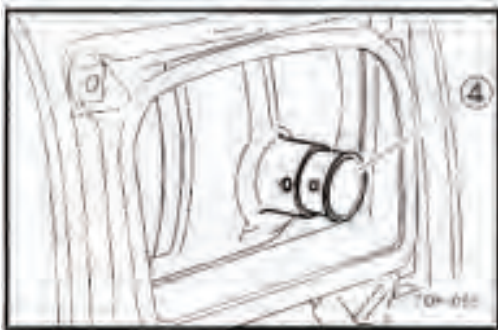
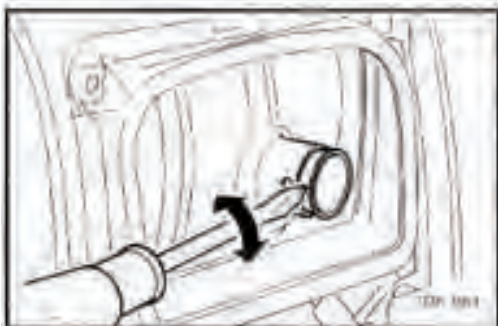
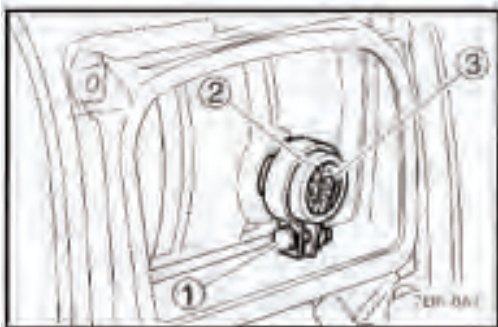
7. Install air filter case cover, cover, and screws.



MAINTENANCE

5.5 Muffler Screen and Spark Arrester Maintenance

Should be performed every 6 months or 100 hours. The air filter may need to be cleaned more frequently when using in unusually wet or dusty areas.



1. Remove the screws ① and then remove the cover ②.
2. Loosen the bolt ① and the remove the muffler cap ②, the muffler screen ③ and spark arrester ④
3. Remove the carbon deposits on the muffler screen and spark arrester using a wire brush. Use wire brush lightly to avoid damaging the muffler screen or spark arrester.
4. Check the muffler screen and spark arrester replace them if damaged.
5. Install the spark arrester.
6. Install the muffler cap.
7. Install the cover and tighten the screws.





MAINTENANCE

5.6 Fuel Filter Maintenance

Should be performed every 12 months or 300 hours.

1. Remove the fuel tank cap and filter ①.
2. Clean the filter with gasoline.
3. If damaged, replace it.
4. Wipe the filter and install it.
5. Install the fuel tank cap.

WARNING

GASOLINE IS FLAMMABLE. DO NOT perform this maintenance while smoking or near an open flame.

STORAGE

6.1 Long Term Storage

Long term storage of your generator will require some preventive procedures to guard against deterioration.



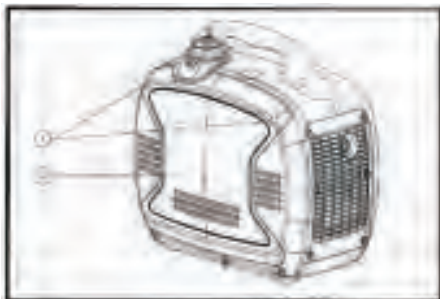
1. Drain the fuel

Remove the fuel tank cap. Extract the fuel tank into an approved gasoline container using a commercially available hand siphon. Then install the fuel tank cap.

WARNING!

GASOLINE IS FLAMMABLE. DO NOT perform this maintenance while smoking or near an open flame.

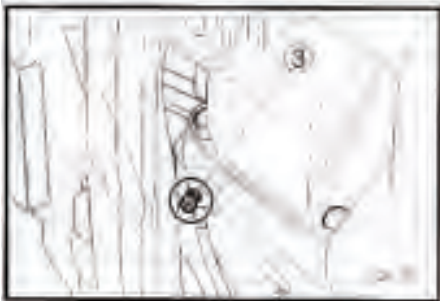
Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.



2. Start the engine and let it run until it stops. Duration of the running engine depends on the amount of the fuel left in the tank.

3. Remove the screws ①, and then remove the cover ②.

4. Drain the fuel from the carburetor by loosening the drain screw ③ on the carburetor float chamber. Tighten the drain screw.



5. Remove the dipstick and drain the engine oil. Then tighten the dipstick.

6. Install the cover and tighten the screws.

7. Turn the fuel tank cap air vent knob to "OFF"

8. Store the generator in a dry, well-ventilated place, with the cover placed over it.

STORAGE

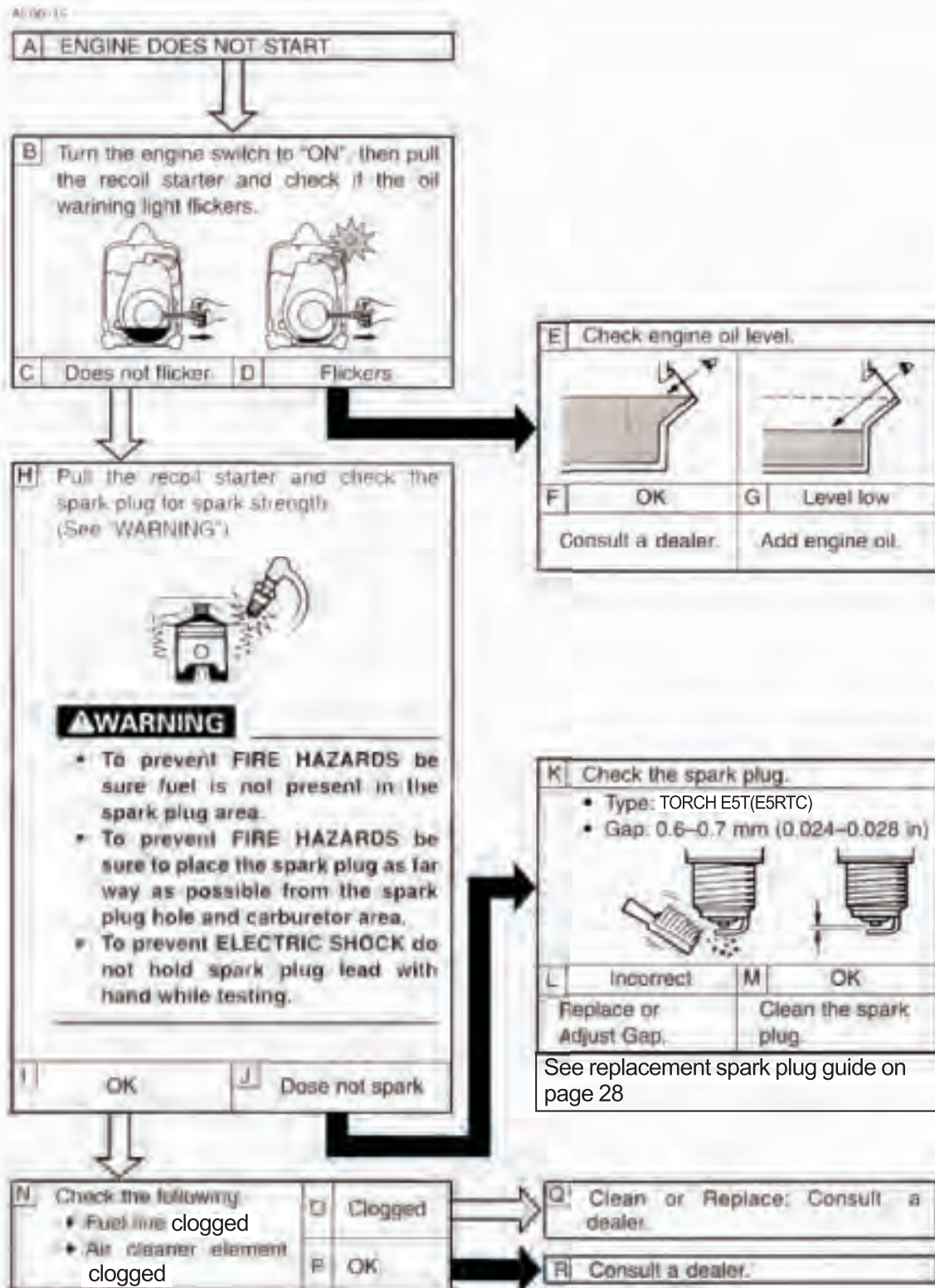
2. ENGINE

Perform the following steps to protect the cylinder, piston ring, etc. from corrosion.

1. Remove the spark plug, pour about one table-spoon of SAE 10W-30 or 20W-40 motor oil into the spark plug hole and reinstall the spark plug. Recoil start the engine by turning over several times (with ignition off) to coat the cylinder walls with oil.
2. Pull the recoil starter until you feel compression. Then stop pulling. (this prevents the cylinder and valves from rusting).
3. Clean exterior of the generator and apply a rust inhibitor.
4. Store the generator in a dry, well-ventilated place, with the cover placed over it.
5. The generator must remain in a vertical position when stored, carried, or operated.

TROUBLESHOOTING AND SPECIFICATIONS

7.1 Troubleshooting Diagram



Please call our customer service @ 1-855-888-3598 for help.

SENCI

TROUBLESHOOTING AND SPECIFICATIONS

7.2 Fuel Filter Maintenance

Use this section to troubleshoot common errors.

Engine won't start

Fuel systems: No fuel supplied to combustion chamber

- No fuel in tank.....supply fuel.
- Fuel in tank.....Fuel tank cap air vent knob and fuel cock knob to “ON”.
- Clogged fuel line.....clean fuel line.
- Clogged carburetor....clean carburetor.

Engine oil system insufficient

- Oil level is low....add engine oil.

Electrical systems

- Engine switch to “ON” and pull the recoil starter. Poor spark
- Spark plug dirty with carbon or wet...Remove carbon or wipe spark plug dry.
- Faulty ignition system....Consult a service center.

Generator won't produce power

- Safety device (DC protector) to ”OFF”press the DC protector to “ON”
- Safety device (AC) to “OFF”....stop the engine, then restart.

TROUBLESHOOTING AND SPECIFICATIONS

7.3 Specifications

Engine Type	4-Stroke OHV Air Cooled Single Cylinder EPA Certified
Engine Displacement (cc)	79cc
Running Watts	1600w
Starting Watts	2000w
Rated Frequency	60Hz
Rated Voltage	120V
Rated Current	13.3A
Run Time	7hrs at 1/2 load
Receptacles (qty.)	125V AC (2);12V 8A DC (1)
Net Weight	21KG
Noise Level	65dBA@ 1/4 Load
Fuel Type	Unleaded gasoline
Gallon	1.1
Oil Type	SAE 10W-40
Start Type	Recoil
Dimensions L x W x H (in.)	530x315x490mm

WARRANTY

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, the United States Environmental Protection Agency and A-iPOWER, are pleased to explain the emission control system warranty on your 2016-2017 model year small off-road engine/equipment. In the United States and California, new small off-road engine/equipment must be designed, built and equipped to meet the State's stringent anti smog standards. A-IPOWER must warrant the emission control system on your small off-road engine/equipment for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine/equipment.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, belts, and other associated emission-related components. For engines less than or equal to 80 cc, only the fuel tank is subject to the evaporative emission control warranty requirements of this section (California only).

Where a warrantable condition exists, A-IPOWER will repair your small off-road engine/equipment at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This Emissions Control System is warranted for two years. If any emission-related part on your engine/equipment is defective, the part will be repaired or replaced by A-IPOWER.

OWNER'S WARRANTY RESPONSIBILITIES:

As the small off-road engine/equipment owner, you are responsible for the performance of the required maintenance listed in your owner's manual. A-IPOWER recommends that you retain all receipts covering maintenance on your small off-road engine/equipment, but A-IPOWER cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine/equipment owner, you should however be aware that A-IPOWER may deny you warranty coverage if your small off-road engine/equipment or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine/equipment to A-IPOWER distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have a question regarding your warranty coverage, you should contact Senci Power USA Inc at 1-855-888-3598 or support@a-ipower.com.

DEFECTS WARRANTY
REQUIREMENTS:

(a) The warranty period begins on the date the engine/equipment is delivered to an ultimate purchaser.

(b) General Emissions Warranty Coverage. A-IPOWER warrants to the ultimate purchaser and each subsequent owner that the engine/equipment is:

- (1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board; and
- (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.

(c) The warranty on emissions-related parts will be interpreted as follows:

- (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by A-IPOWER according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
- (2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under

warranty must be warranted for the remaining warranty period.

- (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by A-IPOWER according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- (4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.
- (5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all A-IPOWER distribution centers that are franchised to service the subject engine/equipment.
- (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
- (7) A-IPOWER is liable for damages to other engine/equipment components proximately caused by a failure under warranty of any warranted part.
- (8) Throughout the emissions warranty period defined in Subsection (b)(2), A-IPOWER must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- (9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner.

Such use will not reduce the warranty obligations of A-IPOWER. maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of A-IPOWER.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. A-IPOWER will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
(11) A-IPOWER issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

(d) Emission Warranty Parts List for exhaust (for all displacements).

(1) Fuel Metering System

(i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).

(ii) Air/fuel ratio feedback and control system.

(iii) Cold start enrichment system.

(2) Air Induction System

(i) Controlled hot air intake system.

(ii) Intake manifold.

(iii) Air filter.

(3) Ignition System

(i) Spark Plugs.

(ii) Magneto or electronic ignition system.

(iii) Spark advance/retard system.

(4) Exhaust Gas Recirculation (EGR) System

(i) EGR valve body, and carburetor spacer if applicable.

(ii) EGR rate feedback and control system.

(5) Air Injection System

(i) Air pump or pulse valve.

(ii) Valves affecting distribution of flow.

(iii) Distribution manifold.

(6) Catalyst or Thermal Reactor System

(i) Catalytic converter.

(ii) Thermal reactor.

(iii) Exhaust manifold.

(7) Particulate Controls

(i) Traps, filters, precipitators, and any other device used to capture particulate emissions.

(8) Miscellaneous Items Used in Above Systems

(i) Electronic controls.

(ii) Vacuum, temperature, and time sensitive valves and switches.

(e) Emission Warranty Parts List for Evap less than or equal to 80cc.

(i) Fuel Tank.

(f) Emission Warranty Parts List for Evap greater than 80cc.

(1) Fuel Metering System

(i) Fuel Tank.

(2) Miscellaneous Items Used in Above Systems

(i) Fuel caps, valves, canisters, filters, vapor, hoses, clamps, connectors, belts, and assemblies.

A-IPOWER will furnish with each new engine/equipment written instructions for the maintenance and use of the engine/equipment by the owner.

A-iPOWER WARRANTY REGISTRATION FORM

Register your product by mailing this form to support@a-ipower.com or register online at www.a-ipower.com.

Registering your product is important, it provides protection

- 1) You have record of product purchased
- 2) Customer Service can Better serve you for Warranty related issues
- 3) We can contact you in the unlikely event should notification is necessary
- 4) Always keep copy of your original receipt

Primary Information	Generator Information
Name: _____	Serial # _____
Phone: _____	
E-mail: _____	Model # _____
Address: _____	
City, State, Zip code: _____	
Date of purchase: _____	
Where: _____	

*The serial No. can be found on the engine.
PLEASE NOTE: Your generator cannot be registered without model & serial numbers.*

1. THE PRODUCT WAS PURCHASED FOR:

- | | |
|--|---|
| A. ☐ Home back-up | G. ☐ Jobsite/construction |
| B. ☐ Business back-up | H. ☐ Outdoor activities (Hunting) |
| C. ☐ Camping | I. ☐ Special Events |
| D. ☐ Tailgating | J. ☐ Battery Charging |
| E. ☐ Rental | K. ☐ Other _____ |
| F. ☐ Farming/Agriculture | |

2. THIS PRODUCT IS A: (select one)

- | | |
|--|--|
| A. ☐ First Time Purchase | B. ☐ Replacement |
|--|--|

3. HOW DID YOU FIRST LEARN OF THIS PRODUCT: (select one)

- | | |
|--|--|
| A. ☐ Magazine Ad | G. ☐ Trade Show |
| B. ☐ Newspaper | H. ☐ Direct Mail |
| C. ☐ Radio | I. ☐ From Friend/Relative/Neighbor |
| D. ☐ TV | J. ☐ Catalog |
| E. ☐ Store Display | K. ☐ Internet |
| F. ☐ Contractor | L. ☐ Other _____ |

4. PLEASE RATE YOUR SATISFACTION LEVEL WITH THE FOLLOWING:

	Completely Satisfied 5	4	3	2	Not at all Satisfied
Product Value for Price Paid	☐	☐	☐	☐	☐
Performance	☐	☐	☐	☐	☐
Features	☐	☐	☐	☐	☐
Product Appearance	☐	☐	☐	☐	☐
Warranty	☐	☐	☐	☐	☐
Ease of Maintenance	☐	☐	☐	☐	☐
Noise Level	☐	☐	☐	☐	☐

5. HOW LIKELY ARE YOU TO RECOMMEND A-iPOWER TO FAMILY OR FRIENDS?

Extremely Likely 5	4	3	2	Not likely at all 1
☐	☐	☐	☐	☐

Privacy Statement: A-ipower is committed to respecting your privacy and to complying with the regulations regarding the protection of personal data. The survey data we collect is for the purposes of marketing or product support and demographic information about the entire audience registering their products.

YOUR POWER SOLUTION!



1477 E. Cedar Street #B,
Ontario, CA 91761, U.S.A.
Phone: 626-888-3598
support@a-ipower.com
[www. a-ipower.com](http://www.a-ipower.com)