HARD GEAR

DAISHIN ダイシン

PORTABLE GENERATOR

INSTRUCTION MANUAL

SGB12000HSa
SGBT14000HSa

WWW.DAISHIN-JAPAN.CO.JP

P・No.15750210000

Dear Customer:

We carefully manufactured to give you a dependable operation.
However, similar to all mechanical products, your machine will occasionally require adjustments and maintenance. This manual should be read carefully before operating or performing any adjustments on your machine. Please contact **DAISHIN** dealer if technical assistance is required.

Please be advised that unit was designed / manufactured for specific applications. So please do not modify and use the unit for any application other than which it was designed for. If you have any questions regarding any applications, please ask **DAISHIN** dealer before using.

Please read an instruction manual before use.

Safety Messages

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the generator. Please read these messages carefully.

Safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol and one of three words; **DANGER**, **WARNING**, or **CAUTION**.

These words mean:

⚠DANGER You will be killed or seriously hurt if you don't follow instructions.
⚠ WARNING You can be killed or seriously hurt if you don't follow instructions.
⚠ CAUTION You can be hurt if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

Damage Prevention Messages

You will also see other important messages that are preceded by the word.

NOTICE

This word means:

NOTICE Your generator or other property could be damaged if you don't follow instructions.

The purpose of these messages is to help prevent damage to your generator, other property, or the environment.

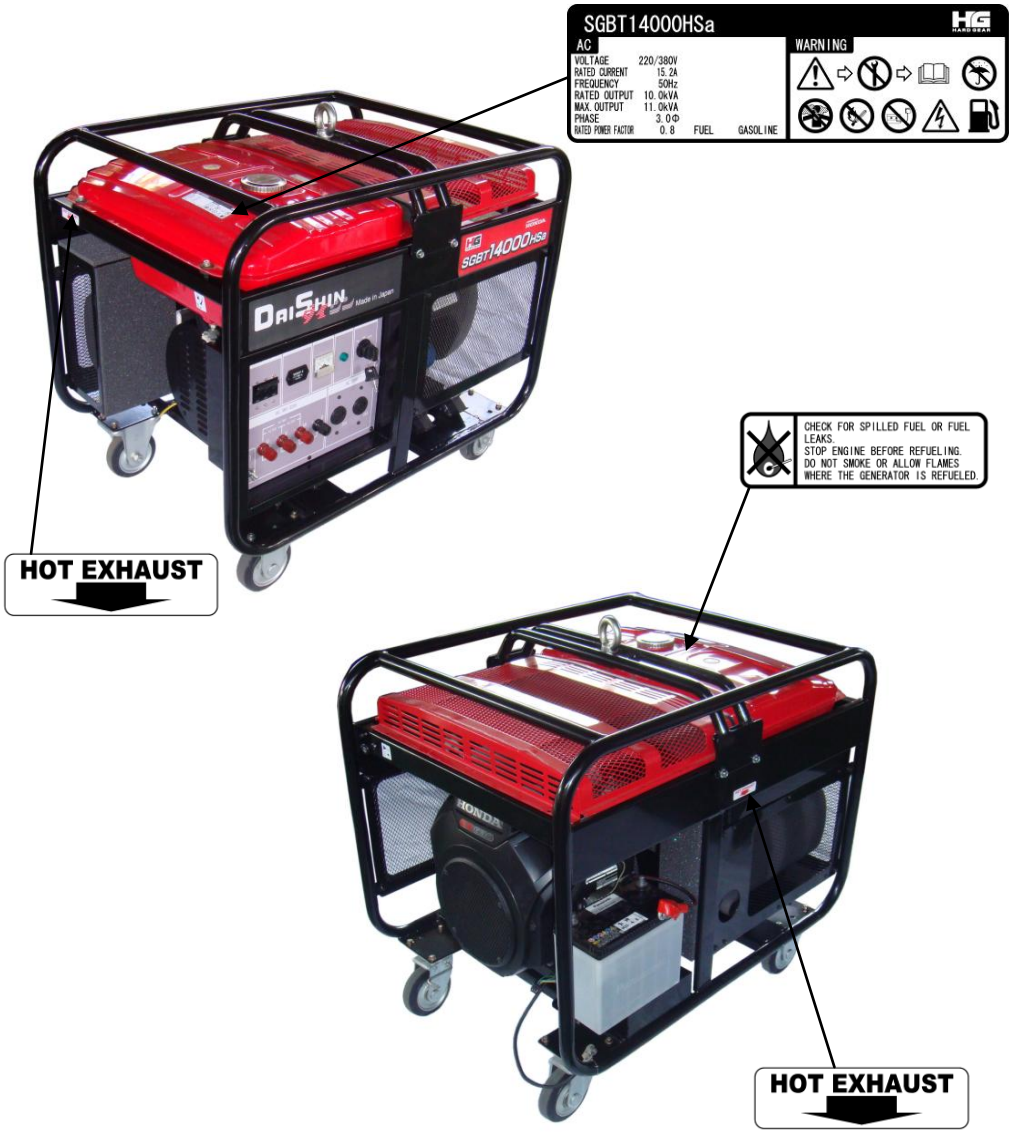
Table of Contents

1. SAFETY LABEL LOCATION

These labels warn you of potential hazards that can cause serious injury.

Read them carefully.

If a label comes off or becomes hard to read, contact your DAISHIN dealer for a replacement.



・Daishin generator is designed to give safe and dependable service if operated according to instructions.
Read and understand the Instruction Manual before operating the generator. Failure to do so could result in personalinjury or equipment damage.

・Using a generator of electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.

・Do not connect to a building's electrical system unless an isolation switch has been installed by a qualified electrician

・Refuel in a well-ventilated area with the engine stopped
Keep away from open fire, cigarettes, smoke, and sparks of any kind when refueling the generator or when near gasoline storage.

・Exhaust gas contains poisonous carbon monoxide.
Never run the generator in an enclosed area.
Be sure to provide adequote ventilation.

・Never use other fuel except gasoline.
Never use an oil/gasoline mixture or dirty gasoline.

・The generator is a potential source of electrical shocks when misused; do not operate with wet hand and in rain and snow.
Do not touch spark plug while the generator running.

2. SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the generator. Please read these messages carefully.

Operator responsibility

- Know how to stop the generator quickly in case of emergency.
- Understand the use of all generator controls, output receptacles, and connections.
- Be sure that anyone who operates the generator receives proper instruction. Do not let children operate the generator without parental supervision.

Carbon monoxide hazards

- Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.
- If you the generator in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from building up, provide adequate ventilation.

Electric shock hazards

- The generator produces enough electric power to cause a serious shock or electrocution if misused.
- Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.
- If the generator is stored outdoors, unprotected from the weather, check all electrical components on the control panel, before each use. Moisture or ice can cause a malfunction or short circuit in electrical components, which could result in electrocution.
- Do not connect to a building's electrical system unless an isolation switch has been installed by a qualified electrician.

Fire and burn hazards

- The exhaust system gets hot enough to ignite some materials.
  Keep the generator at least 1 meter (3 feet) away from buildings and other equipment during operation.
  Do not enclose the generator in any structure.

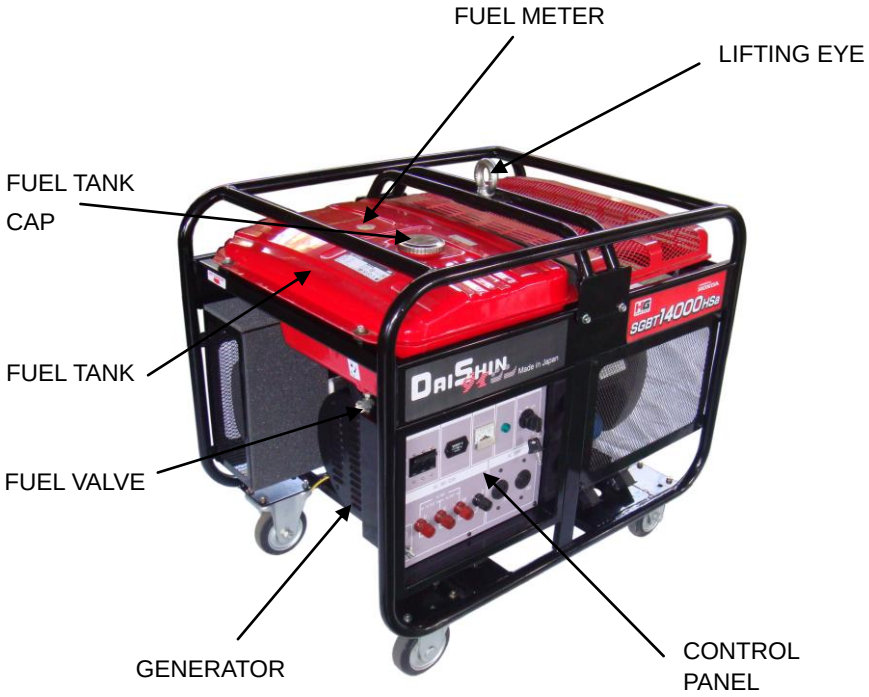
Keep flammable materials away from the generator.

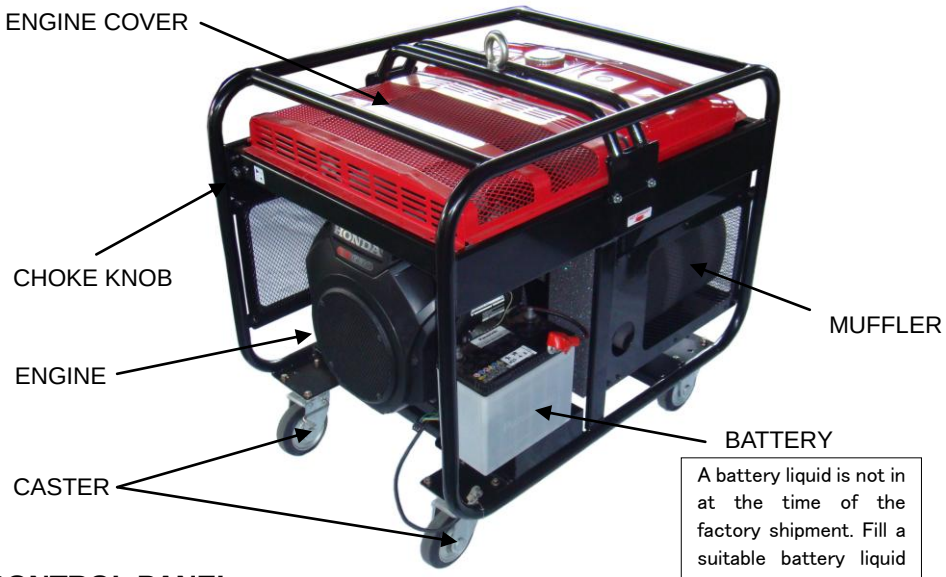
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while is in hot. Let the engine cool before storing the generator indoors.

- Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well ventilated area with the engine stopped.

- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting, the generator.

3. COMPONENTS

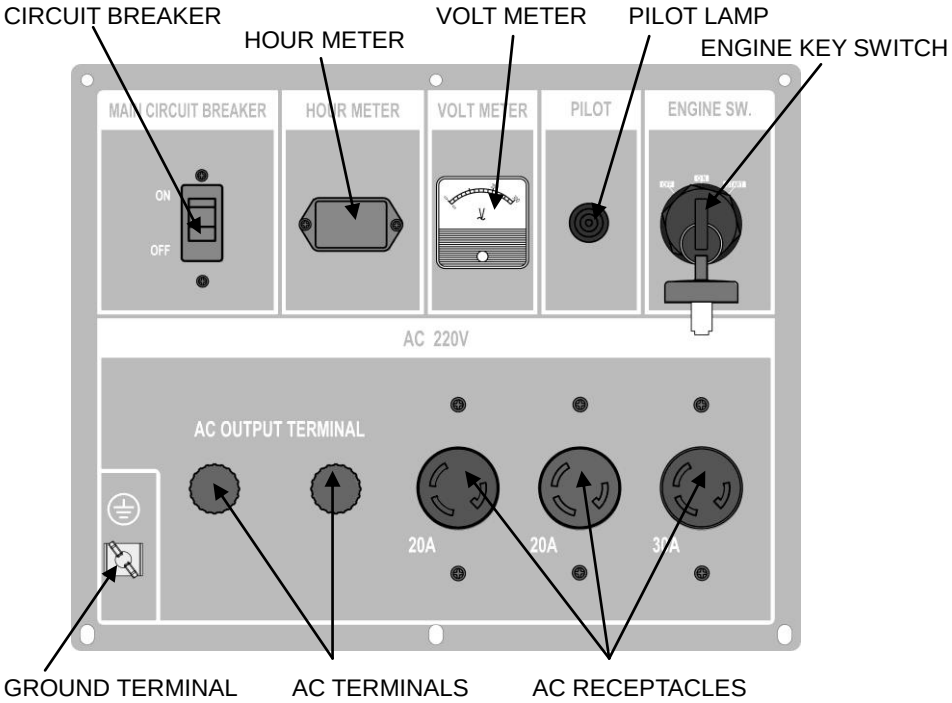




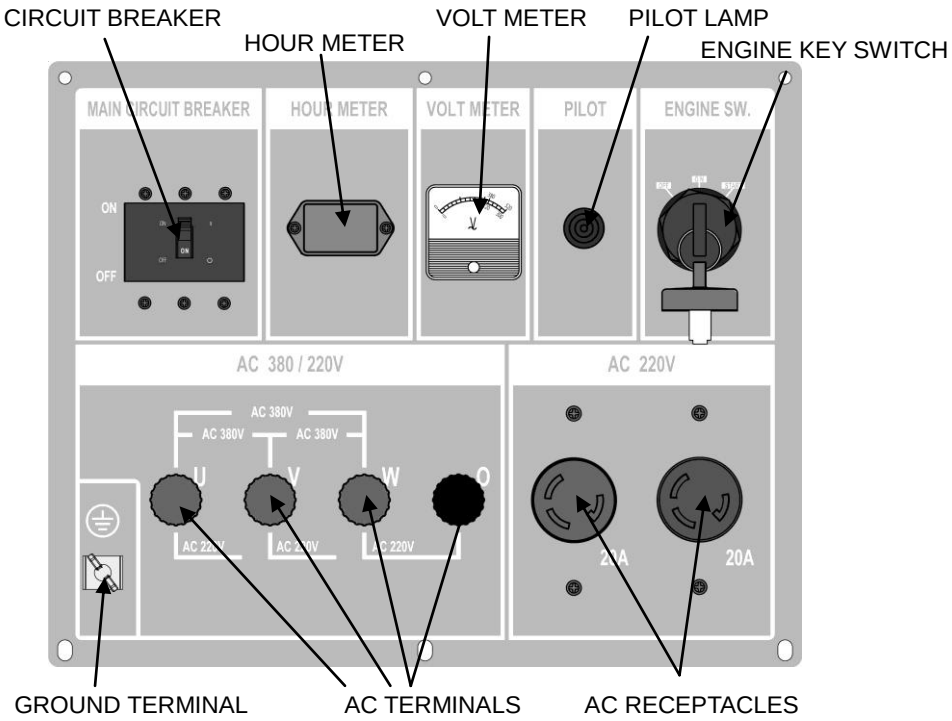
A battery liquid is not in at the time of the factory shipment. Fill a suitable battery liquid before the use.

CONTROL PANEL

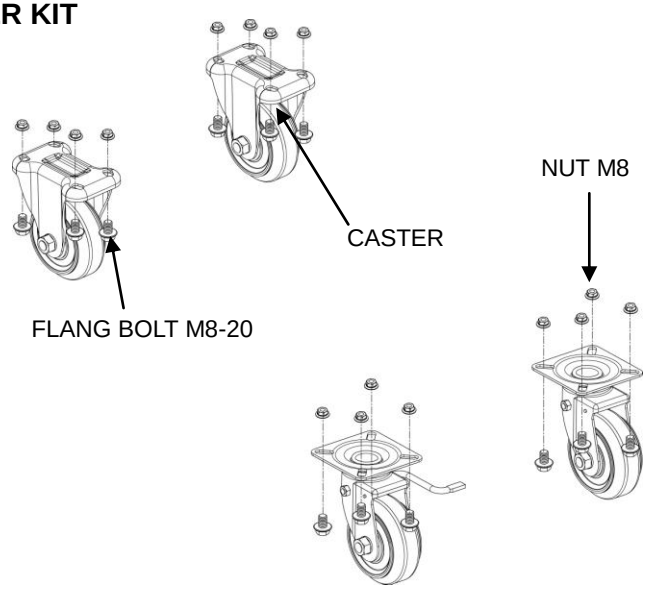
SGB12000HSa (220V 50Hz)



SGBT14000HSa (220/380V 50Hz)



CASTER KIT



4. CONTROLS

Engine key switch

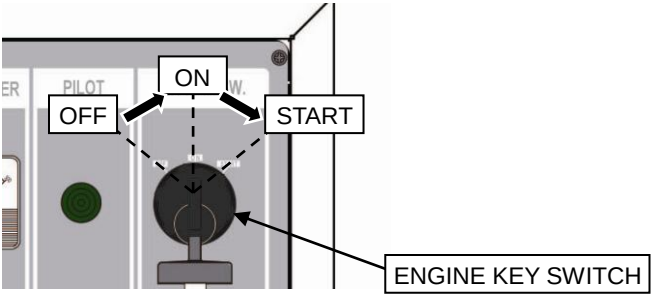
To start and stop the engine.

Switch position:

Off: To stop the engine. Key can be removed/ inserted.

On: To run the engine after starting.

Start: To start the engine by turning the starter motor.



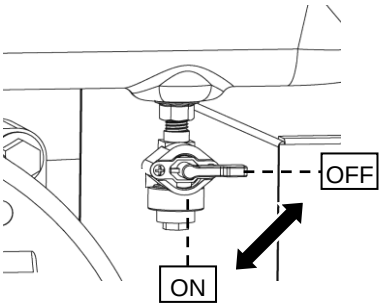
NOTICE

Return the key to the “ON” position once the engine has started. Do not use the starter for more than 5 seconds at a time. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.

Fuel valve

The fuel valve is located between the fuel tank and carburetor.

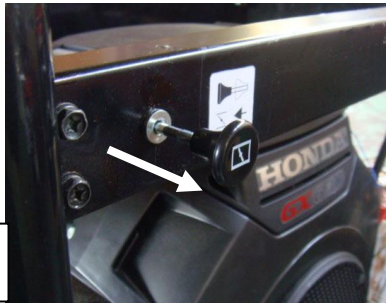
When the valve lever is in the “ON” position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the lever to “OFF” after stopping the engine.



Choke knob

The choke is used to provide proper starting mixture when the engine is cold. It can be opened and closed by operating the choke rod manually.

Pull the knob out toward “CLOSED” to enrich the mixture.



PULL THE KNOB
CLOSED POSITION

Circuit Breaker

The Circuit breaker will automatically cut off the circuit if there is a short circuit or a significant overload of the generator at the receptacle.

If the circuit breaker is OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before turn on to reset the circuit breaker.

Ground terminal

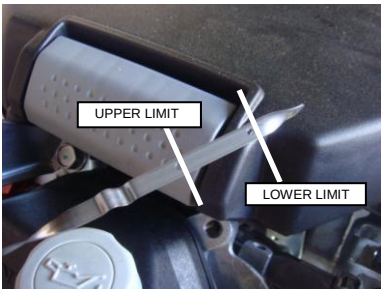
The generator ground terminal is connected to the frame of the generator, the metal non-current carrying parts of the generator, and the ground terminals of each receptacle.

Pilot lamp

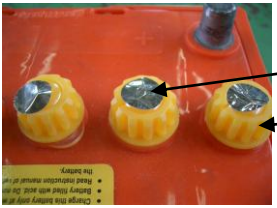
The pilot lamp is illuminated when the generator is operating normally.

5. BEFORE STARTING ENGINE

1. **Fill recommended engine oil to the upper limit mark if the oil is short.**
2. **Change oil if it becomes dirty or discolored.**
   Oil capacity at upper limit mark:
   See attached HONDA OWNER'S MANUAL.



3. **Remove the tank cap and check the fuel level.**
   If fuel level is low, refill with unleaded automotive gasoline.
4. **Fuel tank capacity: see page 20 (this INSTRUCTION MANUAL)**
5. **Battery liquid is not in at the time of the factory shipment. Fill a suitable battery liquid.**
   1) Remove the battery cell caps.
   2) Fill the electrolyte into the each cell, the level must be maintained between the UPPER and LOWER limit marks.
   3) Peel the protection seal.

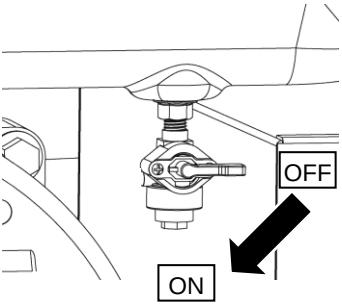


6. OPERATION

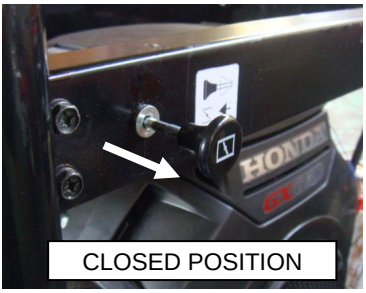
1. STARTING THE ENGINE (Refer to HONDA OWNER'S MANUAL for engine.)

1) Make sure that disconnect all electrical loads from panel receptacles.
The generator may be hard to start if a load is connected.

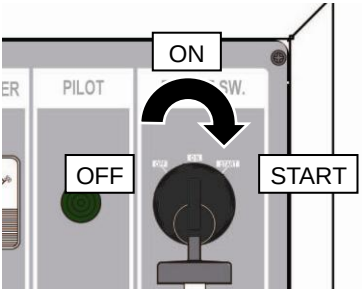
2) Turn the fuel valve to the "ON" position.



3) If you want to start operate the choke manually, move the choke knob to the "CLOSED" position.



4) Start the engine
With the electric starter:
Turn the engine key switch to the "START" position and hold it there until the engine starts.



NOTICE **Do not use the electric starter for more than 5 seconds at the time. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.**

NOTICE **When the speed of the starter motor drops after a period of the time, it is the indication that the battery should be recharged.**

5) After the engine starts, let the engine switch return to “ON”.
6) If you have manually closed the choke, move it to the “OPEN” position as the engine warms up.

2. APPLYING AC LOAD

1) Start engine (see STARTING THE ENGINE).
2) Allow the engine to warm up for 2-3 minutes before connecting tools or appliances.
3) Insert the plug of the electrical appliance into “AC RECEPTACLE”.
4) Turn the circuit breaker knob to the on position.

⚠ WARNING

** Do not take a current exceeding the specified amperage.
** Be sure that total wattage of all appliances does not exceed the rated output of the generator.

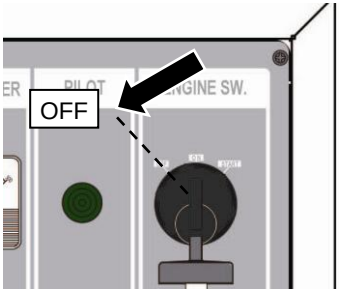
⚠ CAUTION

When the generator is overloaded or a short circuit is made, the CIRCUIT BREAKER will trip to protect the circuit automatically. If CIRCUIT BREAKER trips during operation, the generator is either over loaded or the appliance is defective.
Check the appliance and / or generator for overloading or defect make necessary corrections or repairs before use.

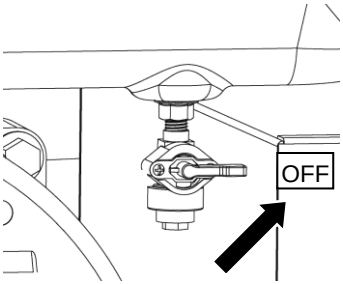
BE SURE THAT THE TOTAL WATTAGE OF ALL APPLIANCES DOES NOT EXCEED THE RATED OUTPUT OF THE GENERATOR.

7. STOPPING ENGINE

1) Turn the circuit breaker knob to the “OFF” position.
2) Turn the engine key switch to the “OFF” position.



3) Disconnect all electrical loads from panel receptacles.
4) Turn the fuel valve to the “OFF” position.



⚠ CAUTION

Never leave an appliance plugged into the generator when you stop the generator as damage could result to the generator and / or appliance.

8. MAINTENANCE

Periodic inspection and adjustment of HONDA ENGINE & Generator is essential if high-level performance is to be maintained. Regular maintenance will also ensure a long service life. The required service intervals and kind of maintenance to be performed are described on HONDA OWNER'S MANUAL, so please see HONDA OWNER'S MANUAL.

⚠ WARNING

Exhaust gas contains poisonous carbon monoxide.

Shut off the engine before performing any maintenance, if the engine must be run, make sure the areas is well ventilated.

NOTICE

Use only genuine HONDA parts or their equivalent for maintenance or repair.

Replacement parts, which are not of equivalent quality, may damage the generator.

MAINTENANCE SCHEDULE

REGULAR SERVISE PERIOD Performed at every indicated month or operating hour interval, whichever comes first. ITEM		Each use	First month or 20Hrs. (3)	Every 3month or 50Hrs. (3)	Every 6month or 100Hrs. (3)	Every Year or 300Hrs (3)
Engine oil	Check level	O				
	Change		O		O	
Engine oil filter	Replace					Every 200 Hrs
Air filter	Check	O				
	Clean			O (1)		
	Replace					O*
Spark plug	Check-adjust				O	
	Replace					O
Valve clearance	Check-Adjust				O (2)	
Combustion chamber	Clean	After every 500 Hrs(2)				
Fuel filter	Clean				O	
	Replace					O (2)
Fuel tank	Clean	Every 2 years (2)				
Fuel tube	Check	Every 2 years (Replace if necessary)(2)				

* Replace the paper air filter element only

(1) Service more frequently when used in dusty areas.

(2) These items should be service by your dealer, unless the owner has the proper tools and is mechanically proficient. See the service manual.

(3) For professional commercial use, log has of operation to determine proper maintenance intervals.

Engine oil

Engine oil is a major factor affecting engine performance and service life.

No detergent and 2-stroke engine oils will damage the engine and are not recommended.

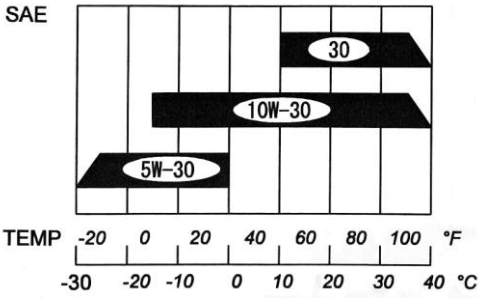
Check the oil level BEFORE EACH USE with the generator on a level surface with the engine stopped.

Use a high quality detergent oil classified for API Service SJ,SL or equivalent.

Use no special additives with recommended oils. Do not mix oil with gasoline.

** Air-cooled engines run hotter than automotive engines. The use of no-synthetic multi-viscosity oils (5W-30,10W-30,etc.)in temperatures above 40° F(4℃), will result in higher than normal oil consumption. When using multi-viscosity oil, check oil level more frequently

** SAE30 oil, if used below 40° F (4℃), will result in hard starting and possible engine bore damage due to inadequate lubrication.

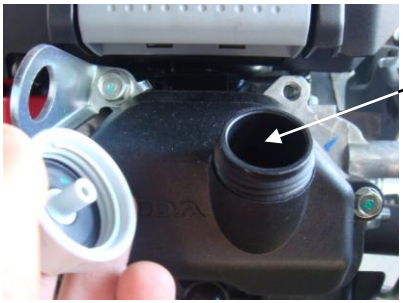


Ambient temperature

Engine oil change

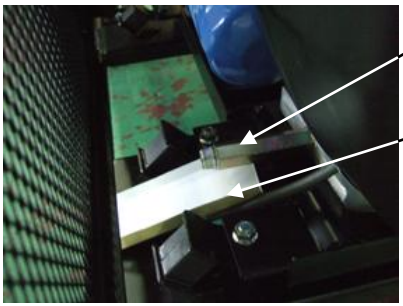
Drain the oil while the engine is warm to assure rapid and complete draining.

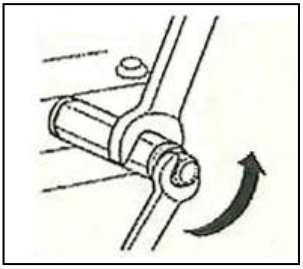
1) Remove the drain plug and sealing washer, oil filler cap, and drain the oil.
2) Reinstall the drain plug and sealing washer. Tighten the plug securely.
3) Refill with the recommended oil and check the level.



Oil capacity:

1.7ℓ (1.79 US qt , 1.50 lmp qt)





NOTICE

In case of removing the drain pipe, please control the extended pipe by spanner.

Engine oil filter change

1) Drain the engine oil, and retighten the drain plug securely.
2) Remove the oil filter, and drain the oil into a suitable container.

Dispose the used oil and filter in a manner compatible with the environment.

NOTICE

Used an oil filter socket, rather than a strap wrench, to avoid striking and damaging the oil pressure switch.

3) Clean the filter mounting base, and coat the seal of the new oil filter with clean engine oil.

NOTICE

Used only a genuine HONDA oil filter or a filter of equivalent quality specified for your model. Using the wrong filter, or a non-HONDA filter which is not of equivalent quality, may cause engine damage.

4) Screw on the new oil filter by hand until the seal contacts the filter mounting base, then use an oil filter socket tool to tighten the filter an additional 7/8 turn.

Oil filter tightening torque:12N-m(1.2kg・m , 16lb・ft)

5) Refill the crankcase with the specified amount of the recommended oil. Reinstall the oil filter cap and dipstick.
6) Start the engine, and check for leaks.
7) Stop the engine, and check the oil level. If necessary, and oil to bring the oil level to the upper limit mark on the dipstick.

⚠CAUTION

Used motor oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station or recycling center for reclamation. Do not throw it in the trash or pour it on the ground.

Refueling

Fuel tank capacity:

35ℓ (9.25 USG)

Check the fuel level gauge, and refill the tank if the fuel level is low.

⚠ WARNING

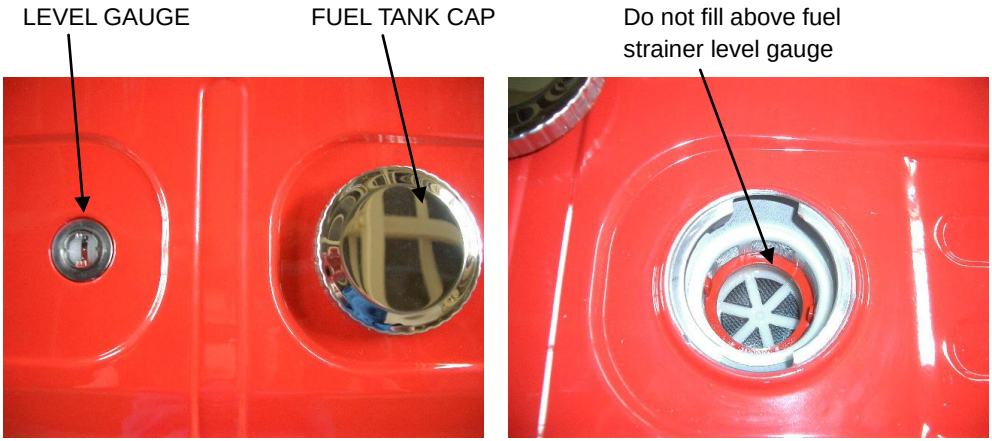
Gasoline is highly flammable and explosive, and you can be burned or seriously injured when handling fuel.

- **Stop engine and keep heat, sparks, and flame away.**
- **Handle fuel only outdoors.**
- **Wipe up spills immediately.**

Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling. Do not fill above the shoulder of the fuel strainer. After refueling, tighten the fuel tank cap securely.

Never refuel the generator inside a building where gasoline fumes may reach flames or sparks. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.

Spilled fuel is not only a fire hazard, it causes environmental damage. Wipe up spills immediately.



Spark plug service

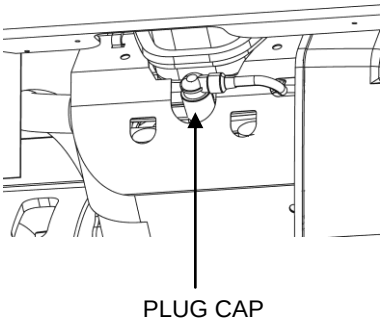
Recommended spark plugs:

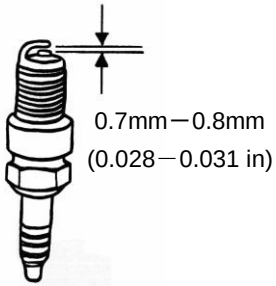
J16CR-U (DENSO) , ZGR5A (NGK)

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

If the engine has been running, the muffler will by very hot. Be careful not to touch the muffler.

1) Remove the spark plug cap.
2) Clean any dirt from around the spark plug base.
3) Use the wrench supplied in the tool kit to remove the spark plug.
4) Visually inspect the spark plug. Discard it if the insulator is cracked or chipped.
   Clean the spark plug with a wire brush if it is to be reused.
5) Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode.





The gap should be: 0.7mm－0.8mm
(0.028－0.031 in)

6) Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
7) After the spark plug is seated, tighten with a spark plug wrench to compress the washer.
   - If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.

NOTICE

The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine.

Never use spark plugs which have an improper heat range. Use only the recommended spark plugs or equivalent.

Air cleaner service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

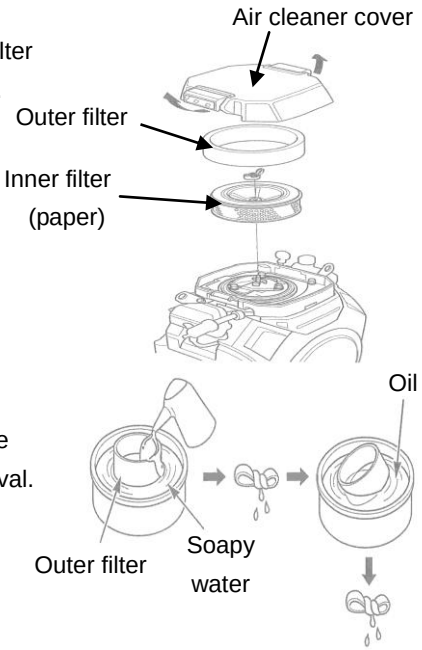
NOTICE

Operating the engine without an air filter, or with a damaged air filter, will allow dirt to enter the engine, causing rapid engine wear,

This type of damage is not covered by the Distributor's limited warranty.

Inspection

Remove the air cleaner cover and inspect the filter Elements. Clean or replace dirty filter elements. Always replace damaged filter elements.



Cleaning

1) Release two tabs from the air cleaner cover, and remove the cover
2) Remove the outer filter from the cover.
3) Remove the inner filter(paper) from the air cleaner case.
4) Inspect both air filter elements, and replace them if they are damaged. Always replace the paper air filter element at the scheduled interval.
5) Clean the air filter elements if they are to be reused.

Inner filter (paper): Tap the filter element several times on a hard surface to remove dirt, or blow compressed air [not exceeding 207kPa(2.1kgf/㎠,30psi)] through the filter element from the air cleaner case side.

Never try to brush off dirty; brushing will force dirt into the fibers.
Replace the paper element if it is excessively dirty.
Outer filter; clean in warm soapy water, rinse and allow to dry thoroughly.
Squeeze it well after dipping it into the clean engine oil.

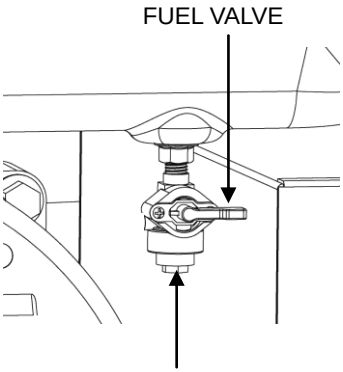
6) Wipe dirt from the inside of the air cleaner body and cover, using a moist rag. Be careful to prevent dirt from entering the air chamber that leads to the carburetor.

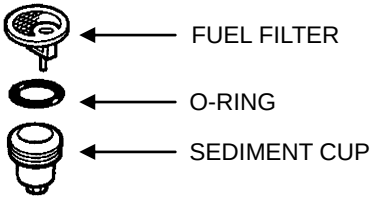
7) Outer filter in the air cleaner cover, then reinstall the inner filter (paper) and cover to the air cleaner case. Hook the two tabs securely.

Fuel sediment cup cleaning

The sediment cup prevents dirt or water which may be in the fuel tank from entering the carburetor. If the engine has not been run for a long time, the sediment cup should be cleaned.

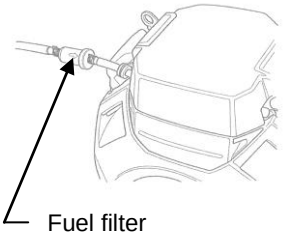
1) Turn the fuel valve to the “OFF” position. Remove the sediment cup, O-ring, and filter.
2) Clean the sediment cup, O-ring, and filter in nonflammable or high flash point solvent.
3) Reinstall the filter, O-ring, and sediment cup.
4) Turn the fuel valve “ON” and check for leaks.





Fuel filter

1) Check the fuel filter for water accumulation or sediment. If no water or sediment is found, reinstall the fuel filter and the air cleaner case.
2) If the fuel filter is found with excessive water accumulation or sediment, take the engine to your authorized servicing dealer.



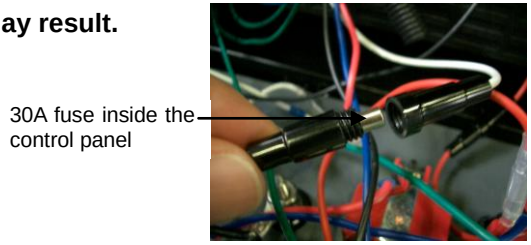
Fuse replacement

If the fuse is blown, the engine will not start until it is replaced.

1) Turn the engine switch OFF
2) Remove the fuse holder and replace the fuse. Use only a 30A fuse.

NOTICE

If frequent fuse failure occurs, determine the cause and correct the problem before attempting to operate the generator further.
Never use a fuse with a rating other than 30A. Serious damage to the electrical system or a fire may result.



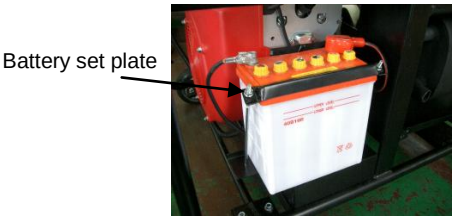
Battery

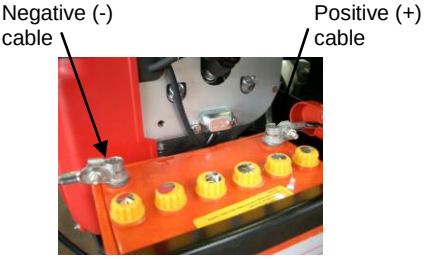
The generator's engine has a 3-amp charging system to charge the battery while the engine is running. If the generator is only used periodically, the battery must be charged monthly to maintain the battery service life.

A lead acid battery self discharges at a rate of 0.5－1.0% per day. This means that the battery, if the generator is not operated in a month, can discharge as much as 30% in the same period. This could cause the engine not to crank or shorten the service life of the battery. To charge the battery, follow the procedures below.

Removal

1) Remove the battery set plate.
2) Remove the negative(-) cable from the battery negative(-) terminal, then remove the battery positive(+) terminal.





3) Remove the battery from the battery tray.

Inspection

1) Remove the battery cell caps.
2) Inspect the electrolyte level of each cell. The electrolyte level must be maintained between the UPPER and LOWER limit marks.
3) If the electrolyte level is near the LOWER mark, add distilled water as necessary.

⚠ WARNING

The battery contains sulfuric acid(electrolyte) which is highly corrosive and poisonous.

Getting electrolyte in your eyes or on your skin can cause serious bums.

Wear protective clothing and eye protection when working near the battery.

EMERGENCY PROCEDURES

Eyes-Flush with water from a cup or other container for at least 15 minutes (water under pressure can damage the eye). Immediately call a physician, local poison control.

Skin-Remove contaminated clothing. Flush the skin with large quantities of water. Call a physician immediately.

Swallowing-Drink water or milk. Call your local poison control center or a physician immediately.

Charging

The battery is rated at 28AH(ampere-hour). 10% of the ampere-hour rating should be used as the charging current. A battery charger should be used that can be adjusted to deliver 1.4 amps.

⚠ WARNING

The battery gives off expiosive hydrogen gas during normal operation.

A spark or open flame can cause the battery to explode with enough force to kill or seriously hurt you.

Keep sparks and flames away. Wear protective clothing and a face shield, or have a skilled mechanic do battery maintenance.

1) Remove the battery cell caps.
2) Connect the battery charger following the manufacturer's instructions.
3) Charge the battery 3-4 hours.
4) After the battery is charged, inspect the electrolyte level in each of the cells. Add distilled water as necessaery.
5) Install the battery caps.
6) Clean the outside of the battery and the battery tray with a solution of baking soda and water.

Installation

1) Install the battery in the generator.
2) Install the positive(+) cable to the battery positive(+) terminal, then install the Negative(-) cable to the battery negative(-) terminal.
3) Install the battery set plate.

9. TRANSPORTING AND STORAGE

When transporting the generator, turn the engine switch and the fuel valve “OFF”. Keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

⚠ WARNING

Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.

Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator.

Before storing the unit for an extended period:

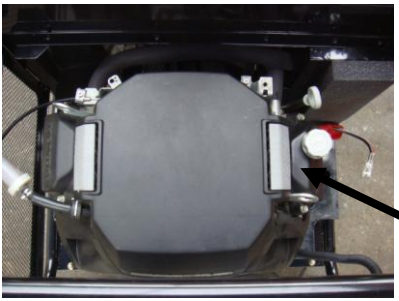
1) Be sure the storage area is free of excessive humidity and dust.
2) Service according to the table below:

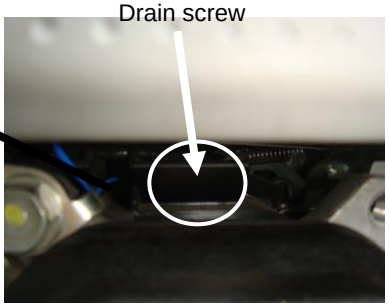
STORAGE TIME	RECOMMENDED SERVICE PROCEDURE TO PREVENT HARD STARTING
Less than 1 month	No preparation required.
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner*.
2 months to 1 year	Fill with fresh gasoline and add gasoline conditioner*. Drain the carburetor float bowl. Drain the fuel sediment cup.
1 year or more	Fill with fresh gasoline and add gasoline conditioner*. Drain the carburetor float bowl. Drain the fuel sediment cup. Remove the spark plug. Put a tablespoon of engine oil into the cylinder. Turn the engine slowly with the pull rope to distribute the oil. Reinstall the spark plug. Change the engine oil. After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
* Use gasoline conditioners that are formulated to extend storage life. Contact your authorized DAISHIN dealer for conditioner recommendations.	

1) Drain the carburetor by loosening the drain screw. Drain the gasoline into a suitable container.

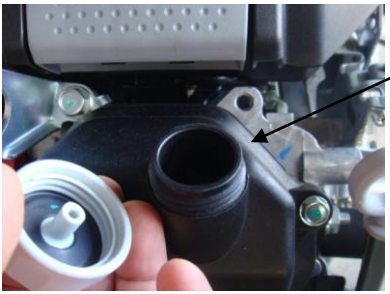
⚠ WARNING

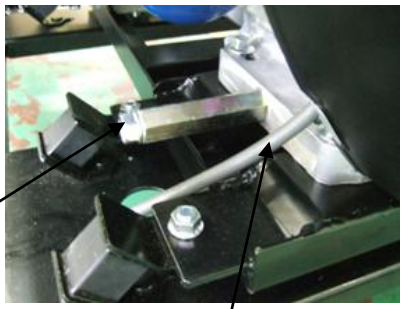
Gasoline is extremely flammable and is explosive under certain conditions. Perform this task in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area during this procedure.





2) Change the engine oil.





3) Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions distribute the oil, then reinstall the spark plug.
4) Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.

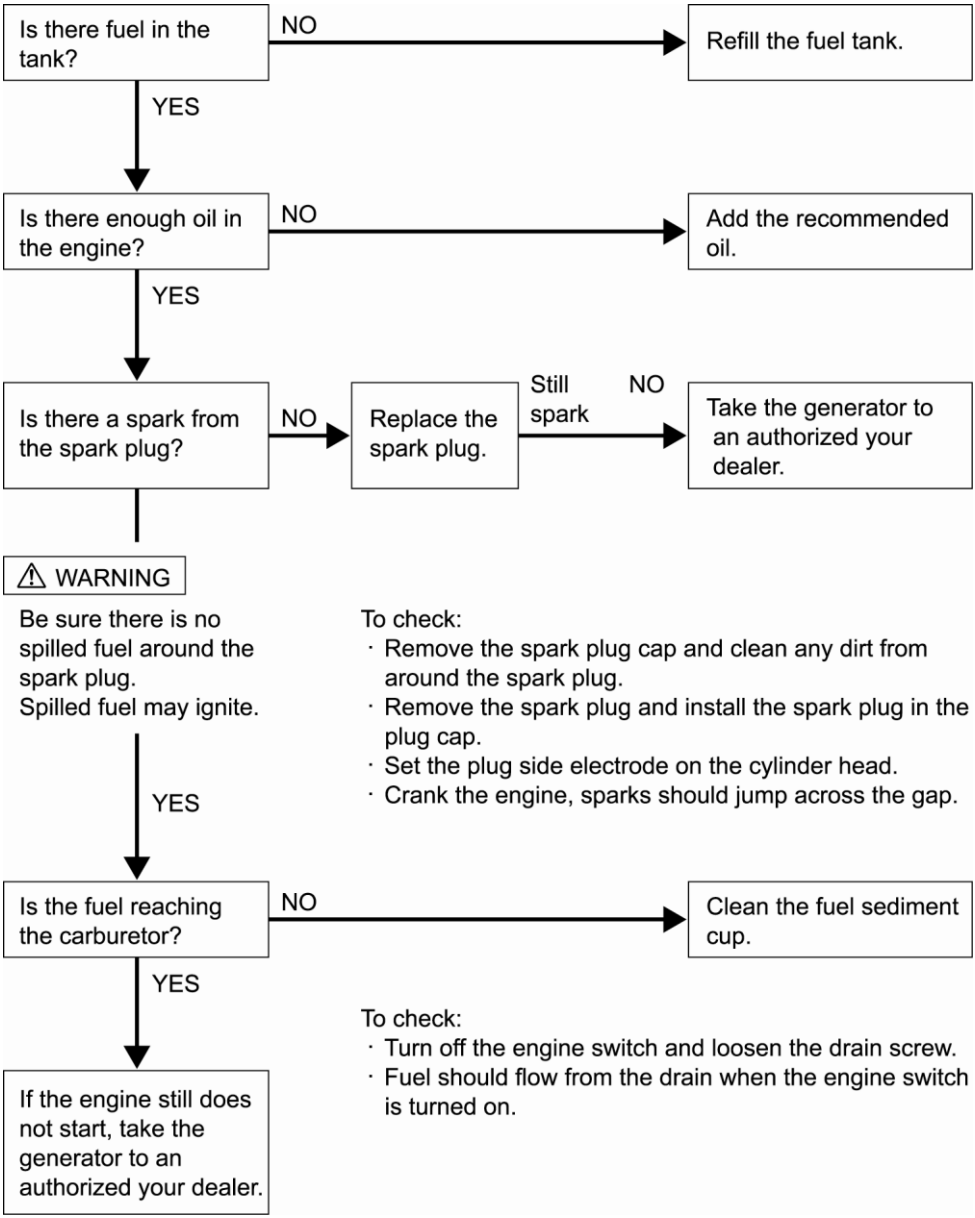
10. WATTAGE INFORMATION

Some appliance needs a “surge” of energy at starting. This means that the amount of electrical power needed to start the appliance may exceed the amount needed to maintain its use.

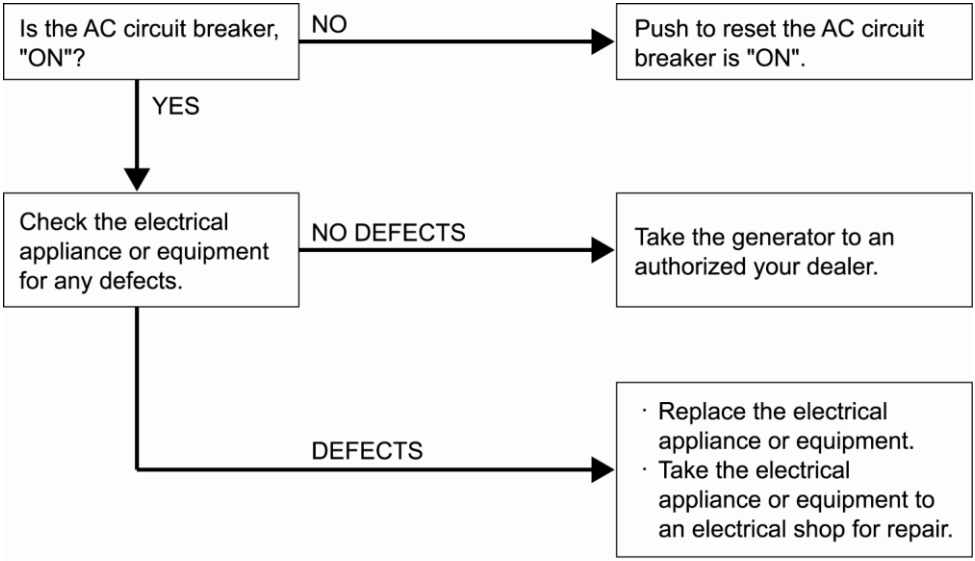
Electrical appliance and tools normally come with a label indicating voltage, cycles/ HZ, amperage and electrical power needed to run the appliance or tool. If no specification label is found, check with your nearest dealer for the power surge of your appliances or power tools.

11. TROUBLE SHOOTING

When the engine will not start:



No electricity at the A.C RECEPTACLES:



***If your generator still fails to start or generate electricity, contact DAISHIN dealer.

12. SPECIFICATION

Models		SGB12000HSa	SGBT14000HSa
Generator	Frequency (Hz)	50Hz	
	Type	Revolving field self excited AC generator	
	Voltage Regulation System	AVR	
	Phase	Single	Three
	AC Output Rat.	9.0kVA	10.0kVA
	AC Output Max.	10.0kVA	11.0kVA
	AC Voltage	220V	220/380V
	Rated Power factor	1.0	0.8
Engine	Model	HONDA GX630	
	Displacement	688cm^3	
	Maximum Output	15.5kW / 3600rpm	
	Oil Alert System	Low lubricating oil pressure	
	Starting System	Electric Starter	
Others	L×W×H	※1 951(951)×679(679)×690(914)	
	Dry Weight	※2 185 (177)Kg	
	Fuel Tank Capacity	35 liters	

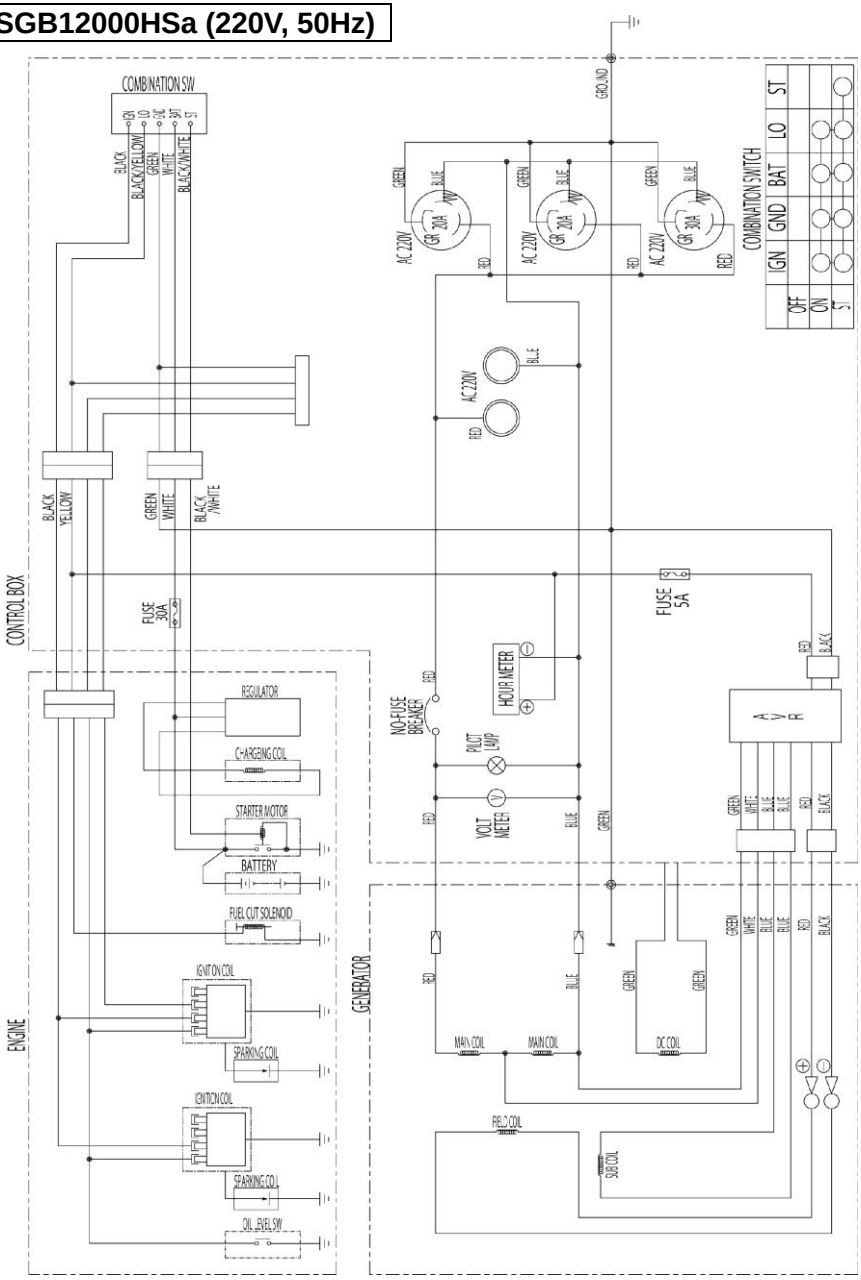
※1 ( )With caster kit.

※2 ( )With Battery.

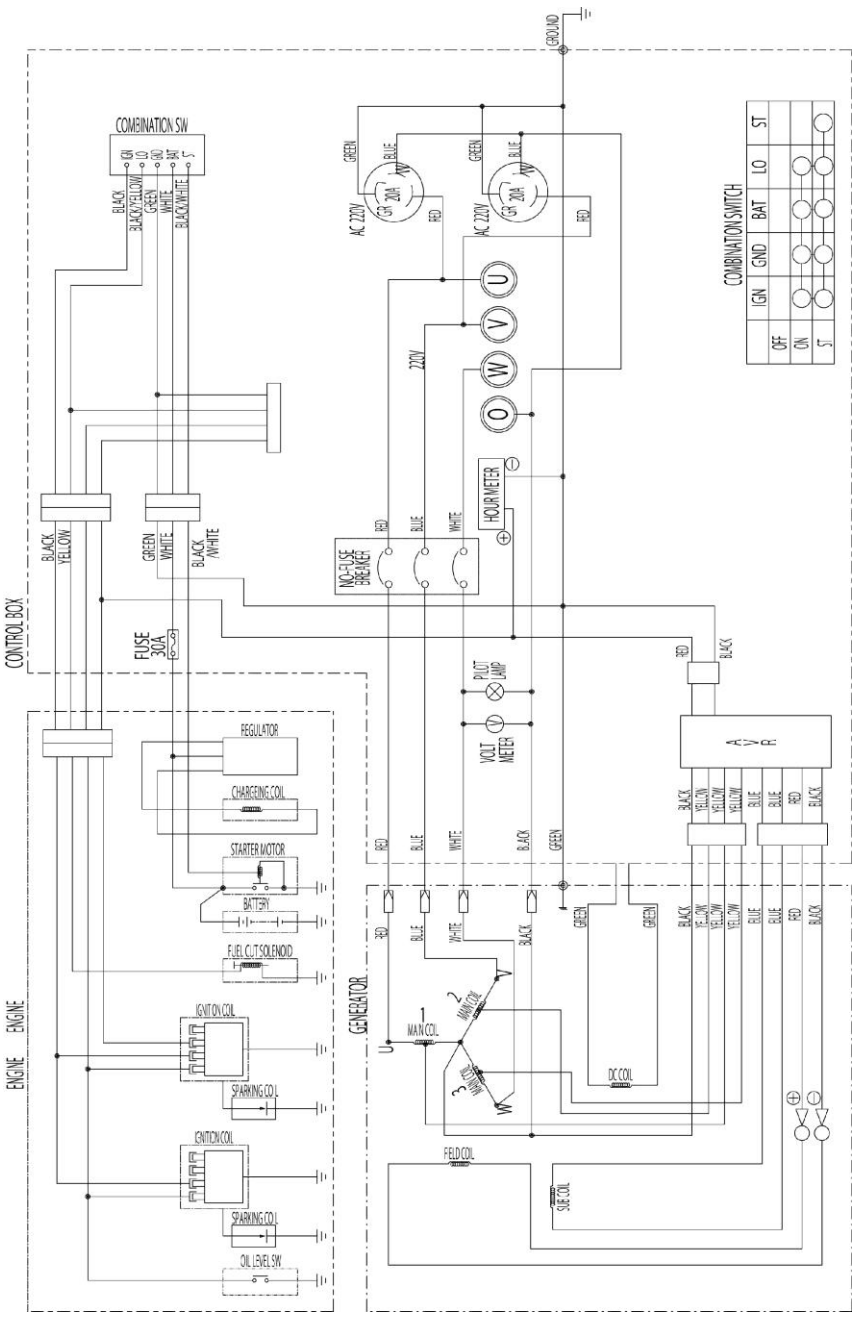
NOTE: Specifications are subject to change without notice.

13. WIRING DIAGRAM

SGB12000HSa (220V, 50Hz)



SGBT14000HSa (3P, 380V/220V, 50Hz)



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