



## GASOLINE GENERATOR WITH BUILT + ATS

## USER MANUAL





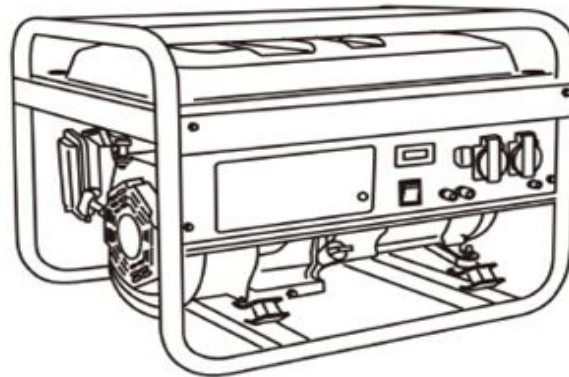
## **GASOLINE GENERATOR**

### **USER'S MANUAL**

**SPG 3800 -EA**

**SPG 6500 -EA**

**SPG 9000 -EA**



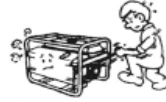
**IMPORTANT** — Please make sure that the person who will use the machine must read and understand this user's manual carefully before operating.

# CONTENTS

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- Use generator.....11
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## 9.TROUBLE EXAMINING AND REPAIRING

- 1.Engine does not start.
- 2.Is engine switch at"NO"?



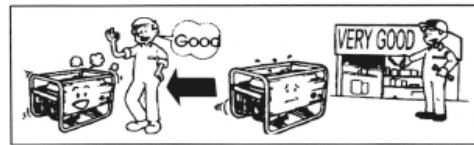
- 3.Examine lubricant.



- 4.Examine oil.

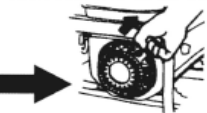
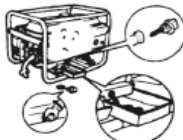
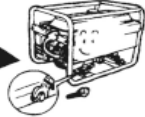
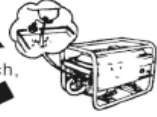


- 5.Remove spark plug.



## 8.CARE-TAKING

- 1.Close oil valve, turn the cup of oil-filter and discharge the oil.
- 2.Open oil valve, discharge the oil in the tank.
- 3.Chage the rubber spacer and turn the cup firmly.
- 4.Turn oil-outting plug and let oil out of carburettor.
- 5.Turn oil-plug and oil-outting switch, then discharge the oil.
- 6.install oil-outting plug.
- 7. Pour oil until reach the upper limitation level of engine oil rule.
- 8.Pull the handle lightly until feel the obstruction.



## SAFETY



No use in house.

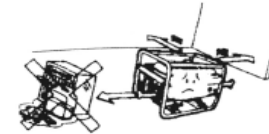


No use in wet conditions.



No connect to household circuit.

Keep in flammable away(3ft)





When refueling no smoking.

When refueling do not spill.

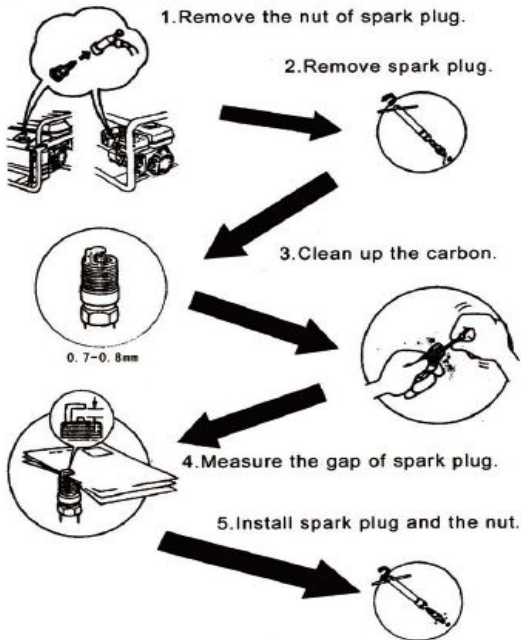


When refueling stop engine.

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## 2. Air filter (see P8)

### 3. Spark plug

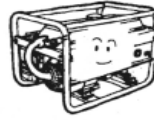


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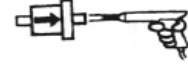
## 4. Maintenance of fuel-filter

1. Pull the fuel valve to "OFF" and remove the cup of oil-filter.

Remove the filter fuel-filter.



Use air gun to blow wind adversely to the arrow.



Remove the cup of fuel-filter.



2. Clean up the cup of fuel-filter.

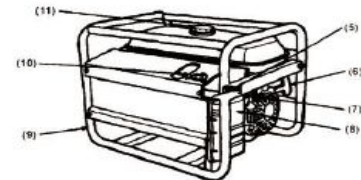
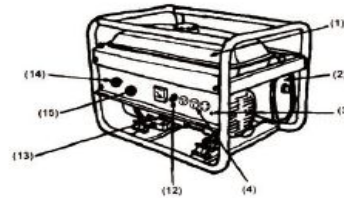


3. Install new rubber spacer and cup of fuel-filter.



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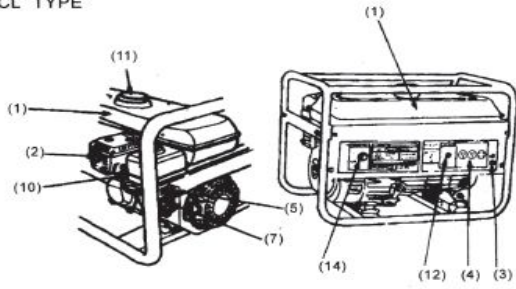
## EVERY PARTS NAME CX TYPE



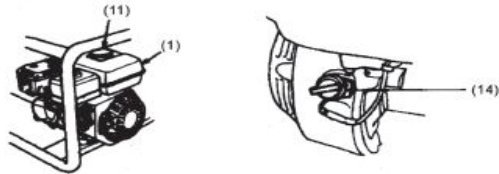
- |                       |                     |
|-----------------------|---------------------|
| (1) Fuel tank         | (9) Tube frame      |
| (2) Exhaust silencer  | (10) Spark plug     |
| (3) Ground terminal   | (11) Fuel cover     |
| (4) Circuit outlet    | (12) Circuit cutout |
| (5) Air-hinderance    | (13) Oil stopper    |
| (6) Operatiing handle | (14) Engine switch  |
| (7) Fuel valve        | (15) DC             |
| (8) Air filter        |                     |

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CL TYPE

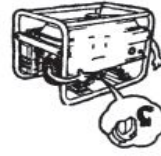


CL TYPE

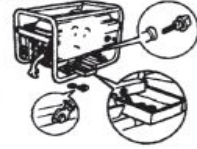


1.Oil changing

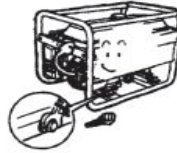
1.Open the cover of oil-adding.



2.Turn open the oil bolt and discharge oil.



3.Place the oil bolt.



4.Pour oil till the upper limitation of engine oil rule.



5.Place the oil engine oil ruler.



7.MAINTENANCE

check change clean check re-install

	check	change	clean	check re-install	Reference page	
			or the first month of the first use	or every 3 months	or every 6 months	or every year
Lubricant checking						P.5
Lubricant checking						P.17
Air-filter checking						P.8
Air-filter checking						P.8
Cup of fuel-filter						P.19
Filter of cup of fuel-filter						P.19
Spark plug						P.18
Valve gap						-
Cleaning of cylinder cover						-
Cleaning of oil tank			Every three years			-

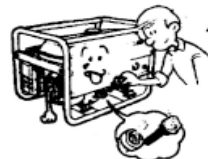
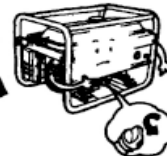
2.CHECK BEFORE USING



1.Check oil

Attention: Check generator after stopping engine on plain ground.

1.Open fuel cover and clean engine oil.



2.Insert engine oil ruler into oil mouth, and don't revolve engine oil ruler pour oil if oil level is below engine oil ruler.



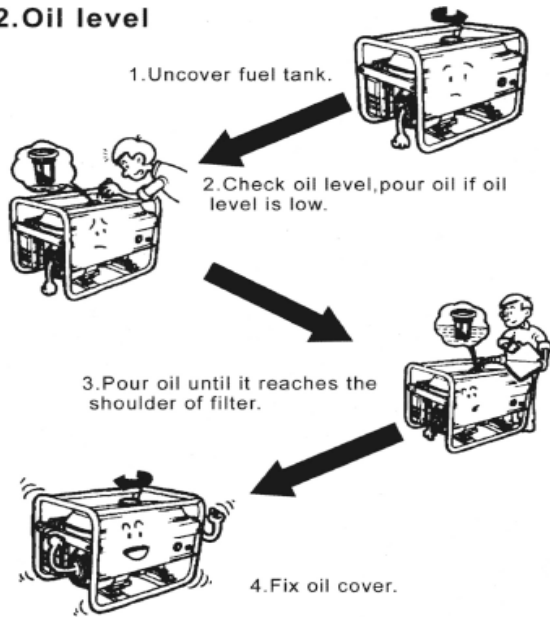
1.Pour oil until it reaches above engine oil ruler level.



1.Fix engine oil plug ruler.



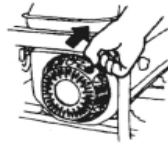
## 2.Oil level



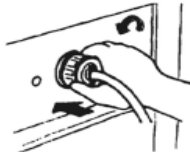
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## Use of circuit

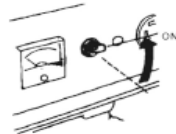
1.Start the engine.



2.Join the installment.



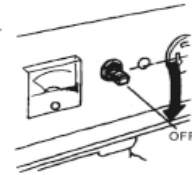
3.Connect the circuit cutout. Push down the circuit protector.



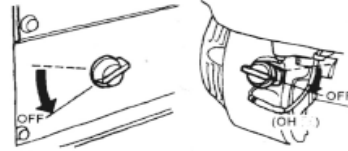
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## 6.STOP THE ENGINE

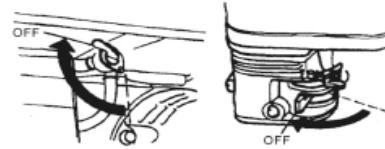
1.Close the circuit cutout.



2.Turn off the switch of engine.



3.Turn off the fuel valve.



### Attention:

If engine must be stopped urgently,pull the swith to "OFF".

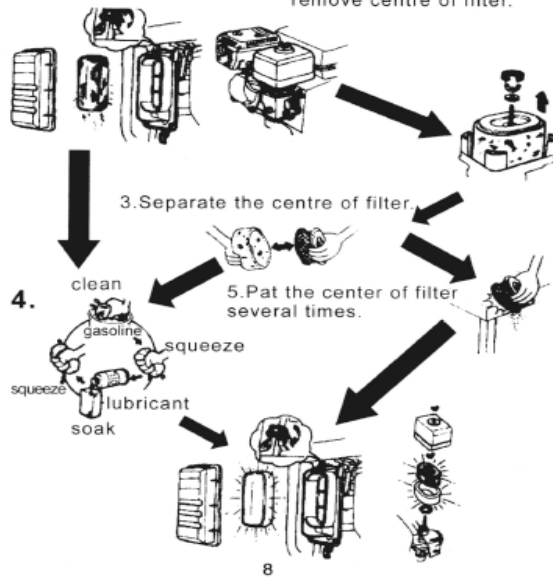
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## 3.Air-filter

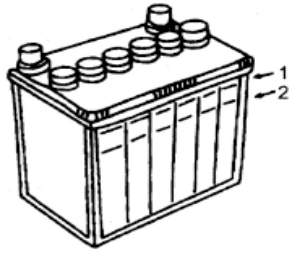
1.Remove Callipers, Remove outer covering off air-filter and turn on nut and cover of air-filter.

2.Turn nut and washer,then remove centre of filter.



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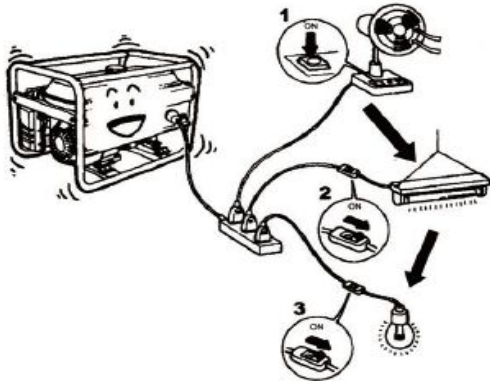
### 3.STORAGE BATTERY(ONLY FOR CXS TYPE)



1.Make sure electrolyte of every unit is between upper limit and lower limit.  
 <1>upper limit  
 <2>lower limit

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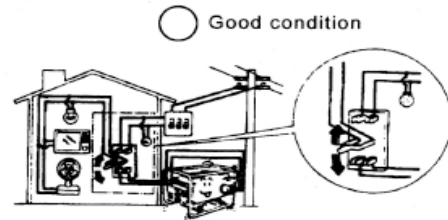
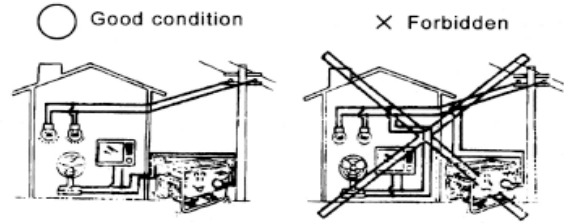
3.When more than two loads are connected to generator, please connect from high current to low.



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### Attention:

- Connecting generator with family power supply must be operated by someone who knows electricity well.
- Make sure connector is right after connecting loads to generator.If not,that may cause damage of generator or a fire.



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### 4.START ENGINE

1.Remove any load from circuit out and close circuit breaker.



2.Switch oil valve to "ON"



3.Switch air-hinderance rod to "CHOKE"



4.Switch the engine switch to "ON"



5.Pull operating handle softly until feeling hinderance,then pull with greater power.



6.When engine turns hot,operate air hinderance as the following arrows show.



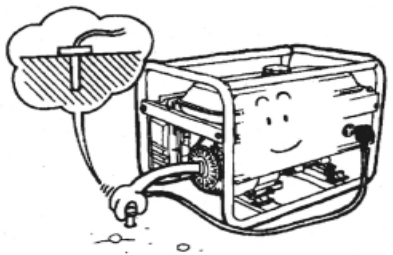
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## 5.USAGE OF GENERATOR

- To keep generator in good mechanical condition and electric condition, please obey the following.

### ! Warnig

1. To avoid wrong use of electricity, make sure to use generator ground connectin.



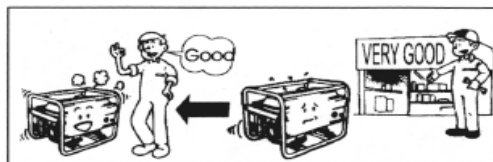
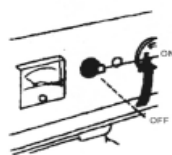
2. Electric equipment, especially engine produces strong current when being started. The table below offers reference when you connect those installation to generator.

Patte	Watt		Model installation	Example		
	starting	rated		Installation	startinig	rated
• Incandescent lamp • heating installatio	X1	X1	Incandescent lamp TV	Incandescent lamp 100W	100VA (W)	100VA (W)
• fluorescent lamp	X2	X1.5	fluorescent lamp	40w fluorescent lamp	80VA (W)	60VA (W)
• Engine-starting installation	X3-5	X2	fridge fanner	fridge fridge 150W	450-750VA (W)	300VA (W)

1. Examine the bulb.



2. Is the circuit cutout at "ON"?(The picture below)



## Warning

If you use a gasoline-powered generator, set it up outside in a dry area, away from air intakes to home. Opening doors and windows or operating fans to ventilate will not prevent CO buildup in home. Even with a CO alarm, you should never use a gasoline-powered generator inside your home or in a garage.

# Built-in ATS Unit Operation Instructions

When you want to use the Built-In ATS, please follow the steps below:

1. **MAINS POWER INPUT** should be connected to the Mains Power supply correctly.

**Note:** *All terminal posts must be properly connected.*



2. Connect the Electrical Devices;  
Turn the **ENGINE SWITCH** (**STARTER SWITCH**) to "RUN" ("ON");  
Set the circuit breaker to "ON".



3. Set the **ATS SWITCH** to "ON".



# Integrated ATS (Electric Start) Start and Stop

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## 1. Preparations Before Starting

1. Add 1.1 liters of engine oil.
  2. Correctly connect the positive and negative terminals of the battery.
- 

## 2. Integrated ATS Disabled State (Manual Operation):

### Starting:

- ① Correctly connect the battery cables: the red cable to the positive terminal, the black cable to the negative terminal.
- ② Move the fuel selector switch to the "Gasoline" position.
- ③ Set the circuit breaker to the "OFF" position.
- ④ Turn the engine key switch clockwise to the "START" position; once the engine starts, release the key switch, and it will automatically return to the "RUN" position.
- ⑤ Turn the fuel valve to the "OPEN" position.
- ⑥ Move the choke lever to the "Gasoline" position.
- ⑦ Move the choke lever to the "OPEN" position.
- ⑧ Turn on the power supply.
- ⑨ Set the circuit breaker to the "ON" position.

### Stopping:

- ① Set the circuit breaker to the "OFF" position.
  - ② Disconnect the power supply.
  - ③ Turn the engine key switch counterclockwise to the "STOP" position.
  - ④ Turn the fuel valve to the "OFF" position.
- 

## 3. Integrated ATS Enabled State (Automatic Start and Stop):

- ① Connect the 220V MAIN INPUT to the main power supply; proper connection is required.
- ② Connect the electrical equipment.
- ③ Set the circuit breaker to the "ON" position.
- ④ Turn the ignition switch to the RUN position.
- ⑤ Set the ATS switch to the ON position.
- ⑥ When the main power supply is connected, the generator should be off; the 220V socket should use the main power supply.
- ⑦ When the main power supply is disconnected, the generator should start automatically; the 220V socket should use the generator power.