

**HYUNDAI**  
POWER PRODUCTS

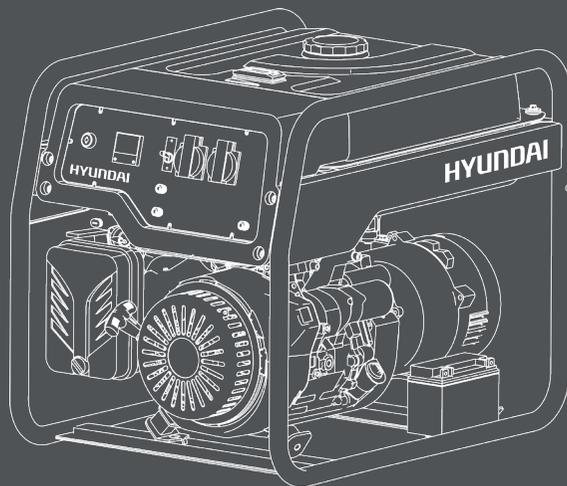


**Petrol Generators**

# HOME SERIES

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**User's Manual**



**EN**

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**! WARNING**

PLEASE READ AND UNDERSTAND THIS MANUAL COMPLETELY BEFORE OPERATING THE MACHINE.

**1. SAFETY INFORMATION****1) EXHAUST FUMES ARE POISONOUS**

- Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area.

**2) FUEL IS HIGHLY FLAMMABLE 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 eyes, 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.

**3) ENGINE AND MUFFLER MAY BE HOT**

- Place the machine in a place where pedestrians or children are not likely to touch the machine.
- Avoid placing any flammable materials near the exhaust outlet during operation.
- Keep the machine at least 1 m ( 3 ft ) from buildings or other equipment, or the engine may overheat.
- Avoid operating the engine with a dust cover.

**4) ELECTRIC SHOCK PREVENTION**

- Never operate the engine in rain or snow.
- Never touch the machine with wet hands or electrical shock will occur.
- Be sure to ground (earth) the generator.

**NOTE:**

Use ground (earth) lead of sufficient current capacity.

Ground (earth) Lead

Diameter: 0.12mm (0.005 in)/ampere

EX: 10 Ampere –1.2mm (0.055 in)

**5) CONNECTION NOTES**

- Avoid connecting the generator to commercial power outlet.

- Avoid connecting the generator in parallel with any other generator.

## 6) BATTERY

- No smoking while handling the battery.
- The battery emits flammable hydrogen gas, which can explode if exposed to electric arcing or open flame.
- Keep the area well-ventilated and keep open flames/sparks away when handling the battery

## 2. CONTROL FUNCTION

### 1) OIL WARNING SYSTEM

When the oil level falls below the lower level, the engine stops automatically.

Unless you refill with oil, the engine will not start again.

### 2) ENGINE SWITCH

The engine switch controls the ignition system.

#### ① "ON"(run)

Ignition circuit is switched on.

The engine can be started.

#### ② "OFF"(stop)

Ignition circuit is switched off.

The engine will not run.

#### ③ "START"

Starting circuit is switched on.

The starter motor starts.

**A** GG3000F

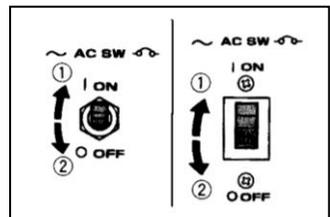
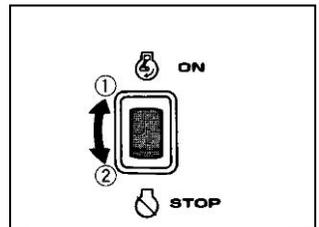
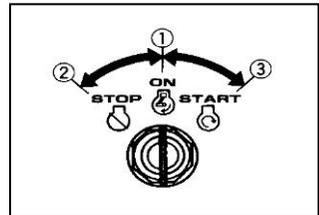
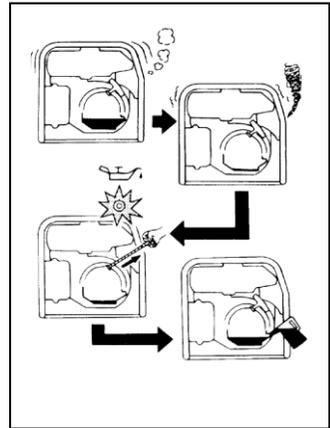
**B** GG3000FE, GG3000E, GG4500E, GG5000E

### 3) AC SWITCH (N.F.B.)

The AC switch turns off automatically when the load exceeds the generator rated output.

#### CAUTION:

Reduce the load to within specified generator rated output if the AC switch (N.F.B.) turn off.



### 3. PRE-OPERATION CHECK

**NOTE:** \_\_\_\_\_

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

#### 1) CHECK ENGINE FUEL

- Check fuel level at fuel level gauge.
- If fuel level is low, refill with unleaded automotive gasoline.
- Be sure to use the fuel filter screen on the fuel filter neck.
- Recommended fuel: Unleaded gasoline.
- Fuel tank capacity:

**Model**

GG3000F, GG3000FE,

GG2500C, GG3000C

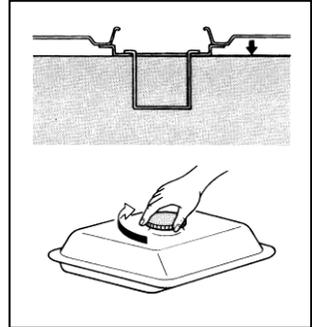
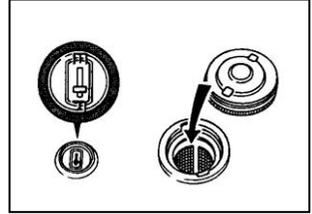
GG4500FE, GG7000FE, GG9000FE

**Full**

12 liters

3,6 liters

22 liters



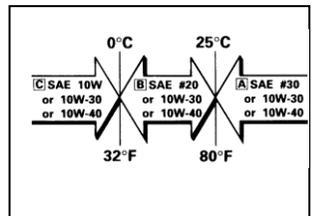
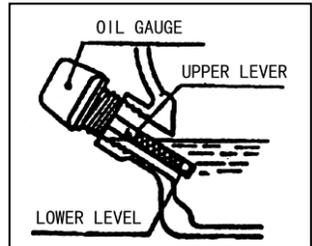
**WARNING:** \_\_\_\_\_

- Do not refill tank while engine is running or hot.
- Close fuel cock before refueling with fuel.
- Be careful not to admit dust, dirt, water or other foreign objects into fuel.
- Wipe off spilt fuel thoroughly before starting engine.
- Keep open flames away.
- "F" Full, "E" Empty.

#### 2) CHECK ENGINE OIL

Before checking or refilling oil, be sure the generator is put on a stable and level surface with engine stopped.

- Remove oil filler cap and check the engine oil level.
- If oil level is below the lower level line, refill with suitable oil to upper level line. Do not screw in the oil filler cap when checking oil level.
- Change oil if contaminated.
- Oil capacity



### 3) GROUND (Earth)

Make sure to ground (earth) the generator.

## 4. OPERATION

### NOTE:

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

### 1) STARTING THE ENGINE

### NOTE:

- Before starting the engine, do not connect the electric apparatus.
- Turn the AC switch (N.F.B.) to "OFF".

1. Turn the fuel cock lever to "ON".

2. Turn the engine switch to "ON"

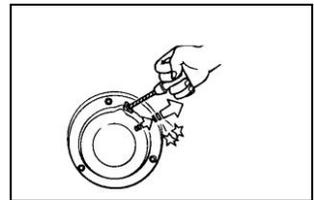
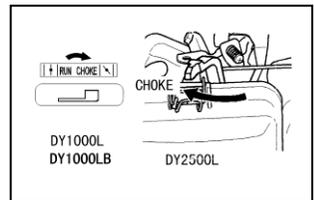
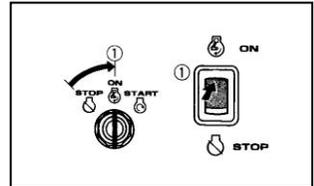
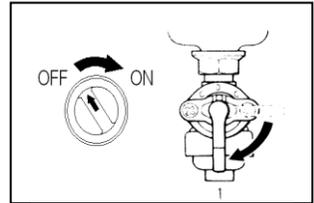
3. Turn the choke lever to the " |  | " position. Not necessary if the engine is warm.

4. Pull the starter handle slowly until resistance is felt. This is the "Compression" point. Return the handle to its original position and pull swiftly. Do not fully pull out the rope. After starting, allow the starter handle to return to its original position while still holding the handle.

5. Warm up the engine.

6. Turn the choke lever back to the operating position.

7. Warm up the engine without a load for a few minutes.



### 3) STOPPING THE ENGINE

1. Turn off the power switch of the electric apparatus or unplug the cord from receptacle of the generator. Turn the AC switch to "OFF".
2. Turn the engine switch to "OFF".
3. Turn the fuel cock lever to "OFF".

### 4) BATTERY

(for electric starting system)

#### 1. REPLENISHING THE BATTERY FLUID

- Check the fluid level. The level should be between the upper and lower level marks.
- Add only distilled water if necessary.

#### 2. BATTERY STORE

Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place.

#### 3. RECOMMENDED BATTERY

- Recommended battery: 12V/26A • h

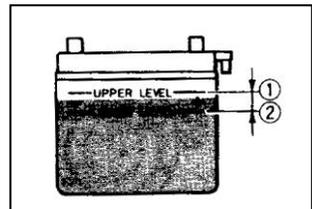
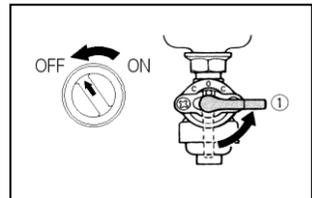
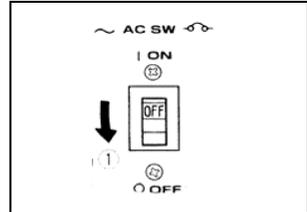
**NOTE:** \_\_\_\_\_

- Clamp the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of the battery. Do not reverse these positions.
- Be sure the battery is installed on the battery mount tray securely

**NOTE:** \_\_\_\_\_

In order to increase the longevity of your generator it is advantageous to maintain a minimum load of approximately one third the rated output.

\_\_\_\_\_



## 5.PERIODIC MAINTENANCE

### 1) MAINTENANCE CHART

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

| Item                 | Remarks   | Pre-operation check (daily) | Initial 1 months or 20 Hr | Every 3 months or 50Hr | Every 6 months or 100Hr | Every 12 months or 300Hr |
|----------------------|---|-----------------------------|---------------------------|------------------------|-------------------------|--------------------------|
| Spark Plug           | Check condition adjust gap and clean. Replace if necessary. |                             |                           | ●                      |                         |                          |
| Engine Oil           | Check oil level<br>Replace                                  | ●                           | ●                         |                        | ●                       |                          |
| Air Filter           | Clean. Replace if necessary.                                |                             |                           | ●                      |                         |                          |
| Fuel Filter          | Clean fuel cock filter. Replace if necessary                |                             |                           |                        | ●                       |                          |
| Valve Clearance      | Check and adjust when engine is cold.                       |                             |                           |                        |                         | ●                        |
| Fuel Line            | Check fuel hose for crack or damage. Replace if necessary.  | ●                           |                           |                        |                         |                          |
| Exhaust System       | Check for leakage. Retighten or replace gasket if necessary | ●                           |                           |                        |                         |                          |
|                      | Check muffler screen.<br>Clean / replace if necessary.      |                             |                           |                        | ●                       |                          |
| Carburetor           | Check choke operation                                       | ●                           |                           |                        |                         |                          |
| Cooling system       | Check fan damage.   |                             |                           |                        |                         | ●                        |
| Starting system      | Check recoil starter operation.                             | ●                           |                           |                        |                         |                          |
| Decarbon i-zation    | More frequently if necessary.                               |                             |                           |                        |                         | ●                        |
| Fittings / Fasteners | Check all fittings and fasteners correct if necessary.      |                             |                           |                        | ●                       |                          |

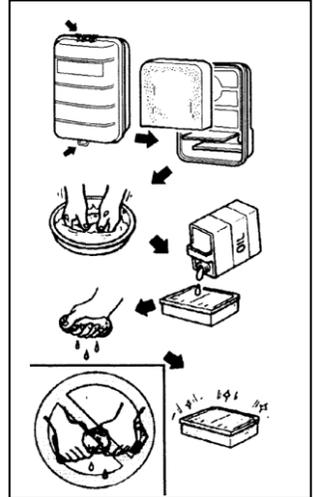
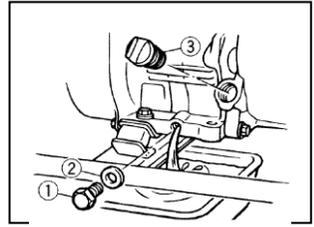
## 2) ENGINE OIL REPLACEMENT

1. Place the machine on a level surface and warm up the engine for several minutes. Then stop the engine.
  2. Remove the oil filler cap
  3. Place an oil pan under the engine. Remove the oil drain plug so that the oil can be completely drained.
  4. Check the oil drain plug, gasket, oil filler cap and O-ring. If damaged replace.
  5. Reinstall the oil drain plug.
  6. Add engine oil to the upper level.
- Recommended engine oil:

API Service "SE" or "SF", if not available, "SD". (see page 6)

### CAUTION:

Be sure no foreign material enters the crankcase.



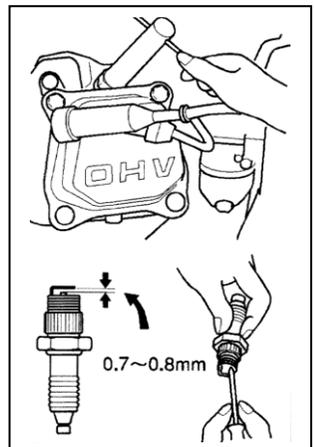
## 3) AIR FILTER

Maintaining an air cleaner in proper condition is very important. Dirt induced through improperly installed, improperly serviced, or inadequate elements damages and wears out engines. Keep the element always clean.

1. Take out the air cleaner, clean it well in kerosene and dry it.
2. After wetting the element by clean engine oil, squeeze it tight by hand.
3. Lastly, put the element in the case and install it securely.

### CAUTION:

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



## 4) CLEANING AND ADJUSTING SPARK PLUG

Standard electrode color: Tan Color

Standard Spark Plug: BPR4ES (NGK)

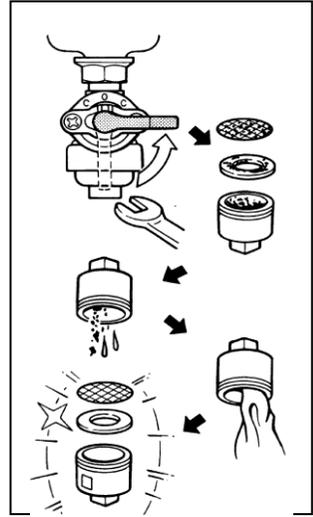
Spark Plug Gap: 0.7-0.8 mm (0.028-0.031 in)

### 5) FUEL COCK

1. Stop the engine.
2. Turn the fuel cock lever to "OFF".
3. Clean with solvent.
4. Wipe off.
5. Check the gasket. Replace it if damaged.

**! WARNING**

Be sure the fuel cock cup is tightened securely.

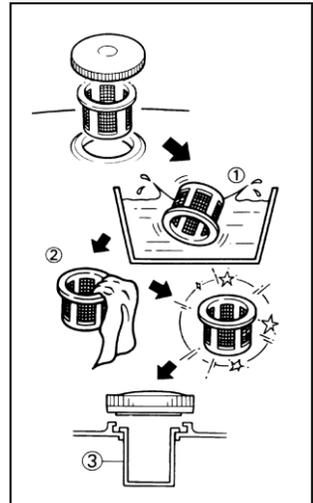


### 6) FUEL TANK FILTER

- ① Clean with solvent.
- ② Wipe off.
- ③ Fuel tank filter.

**! WARNING**

Be sure the tank cap is tightened securely.

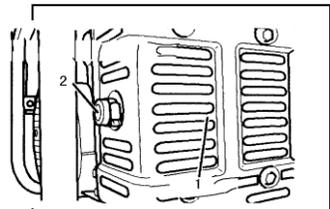


### 7) MUFFLER SCREEN

**! WARNING**

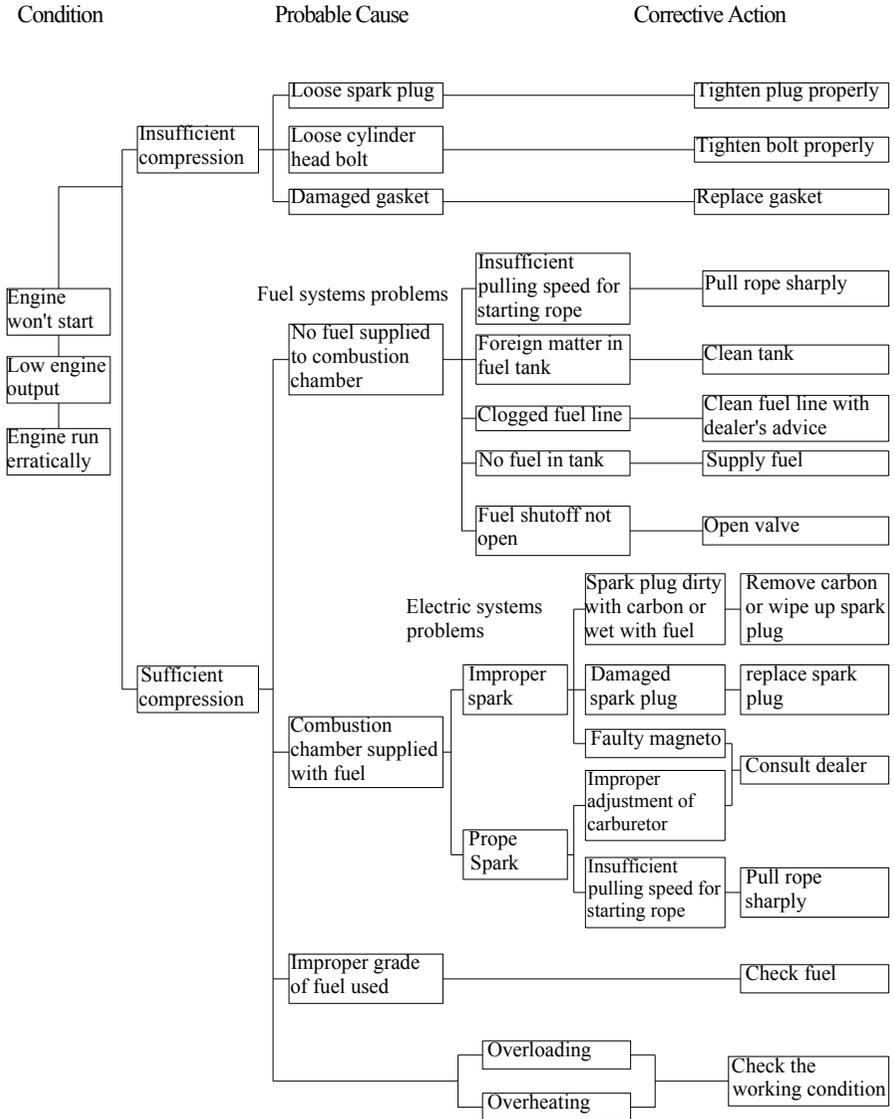
- The engine and muffler will be very hot after the engine has been run.
- Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

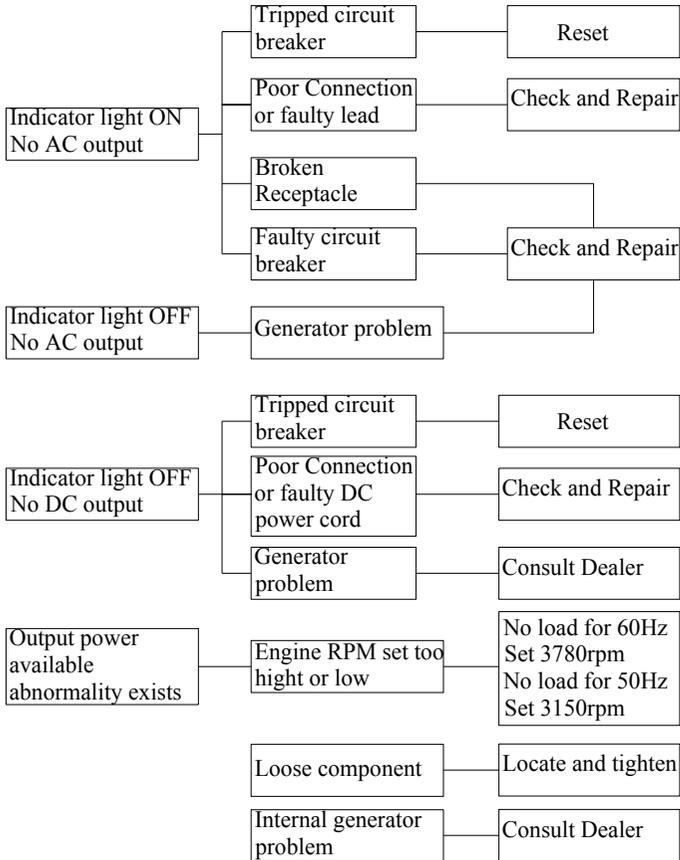
1. Remove the muffler protector and muffler screen.
  2. Clean the carbon deposits out of the muffler screen using a wire brush.
  3. Check the muffler screen. Replace it if damaged.
  4. Install the muffler screen and muffler protector.
- ① Muffler protector
  - ② Muffler screen



## 6. TROUBLE SHOOTING

### ENGINE TROUBLE SHOOTING





## 1) Engine won't start

### 1. Fuel systems

No fuel supplied to combustion chamber.

- No fuel in tank...Supply fuel.
- Clogged fuel line...Clean fuel line.
- Foreign matter in fuel cock...Clean fuel cock.
- clogged carburetor...Clean carburetor.

### 2. Engine oil system - Insufficient

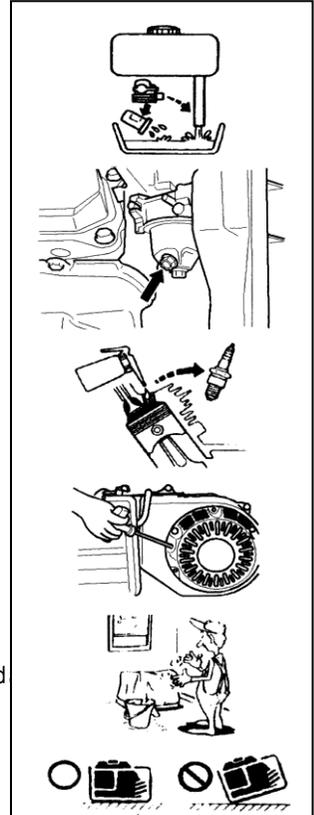
- Oil level is low...Add engine oil.

### 3. Electrical systems - Poor spark

- Spark plug dirty with carbon or wet...Remove carbon or wipe spark plug dry.
- Faulty ignition system...Consult dealer.

### 4. Compression insufficient

- Worn out piston and cylinder...Consult dealer.
- Loose cylinder head nuts...Tighten nuts properly.
- Damaged gasket...Replace gasket.



## 7. STORAGE

Long term storage of your machine will require some preventive procedures to guard

### 1) DRAIN THE FUEL

1. Drain the fuel tank, fuel cock, and carburetor float bowl.
2. A cup of SAE 10W30 or 20W40 motor oil.
3. Shake the tank.
4. Drain off the excess oil.

### 2) ENGINE

5. Pour in about one tablespoon of SAE 10W30 or 20W40 motor oil.
6. Use the recoil starter to turn the engine over several times (with ignition off).
7. pull the recoil starter until you feel compression.
8. Stop pulling.
9. Clean exterior of the generator and apply a rust inhibitor.
10. Store the generator in a dry, well-ventilated place, with the cover place over it.
11. The generator must remain in a vertical position.

**HYUNDAI**  
**POWER PRODUCTS**

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