

# Böhmer-AG

PETROL GENERATOR



Instruction Manual



The generator is a potential source of electrical shock if misused.  
Do not expose the generator to moisture, rain or snow.  
DO not let the generator get wet, and do not operate it with wet hands.

Thank you for purchasing a Böhmer-AG generator. We want to help you get the best results from your new generator and to operate it safely. This manual contains the information on how to do that, please read it carefully.

This owner's manual describes the operation and maintenance of the GENERATOR. All information in this publication is based on the latest product information available at the time of printing. Böhmer-AG reserve the right to make changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission.

This manual should be considered a permanent part of the generator and should remain with it if resold.

## SAFETY MESSAGES

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Your safety and the safety of others is very important. We have provided important safety information preceded by a safety alert symbol and one of three words: DANGER, WARNING, and CAUTION.

**These mean**

	You could be KILLED or SERIOUSLY HURT if you don't follow instructions.
	You could be KILLED or SERIOUSLY HURT if you don't follow instructions.
	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**

**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 or the environment.

## SAFETY INFORMATION

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Böhmer-AG generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your generator. You can

help prevent accidents by being familiar with your generator's controls and by observing safe operating procedures.

### **Operator Responsibility**

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

### **Carbon Monoxide Hazards**

1. Exhaust contains poisonous carbon monoxide, a colourless and odourless gas. Breathing exhaust can cause loss of consciousness and may lead to death.
2. If you run 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**

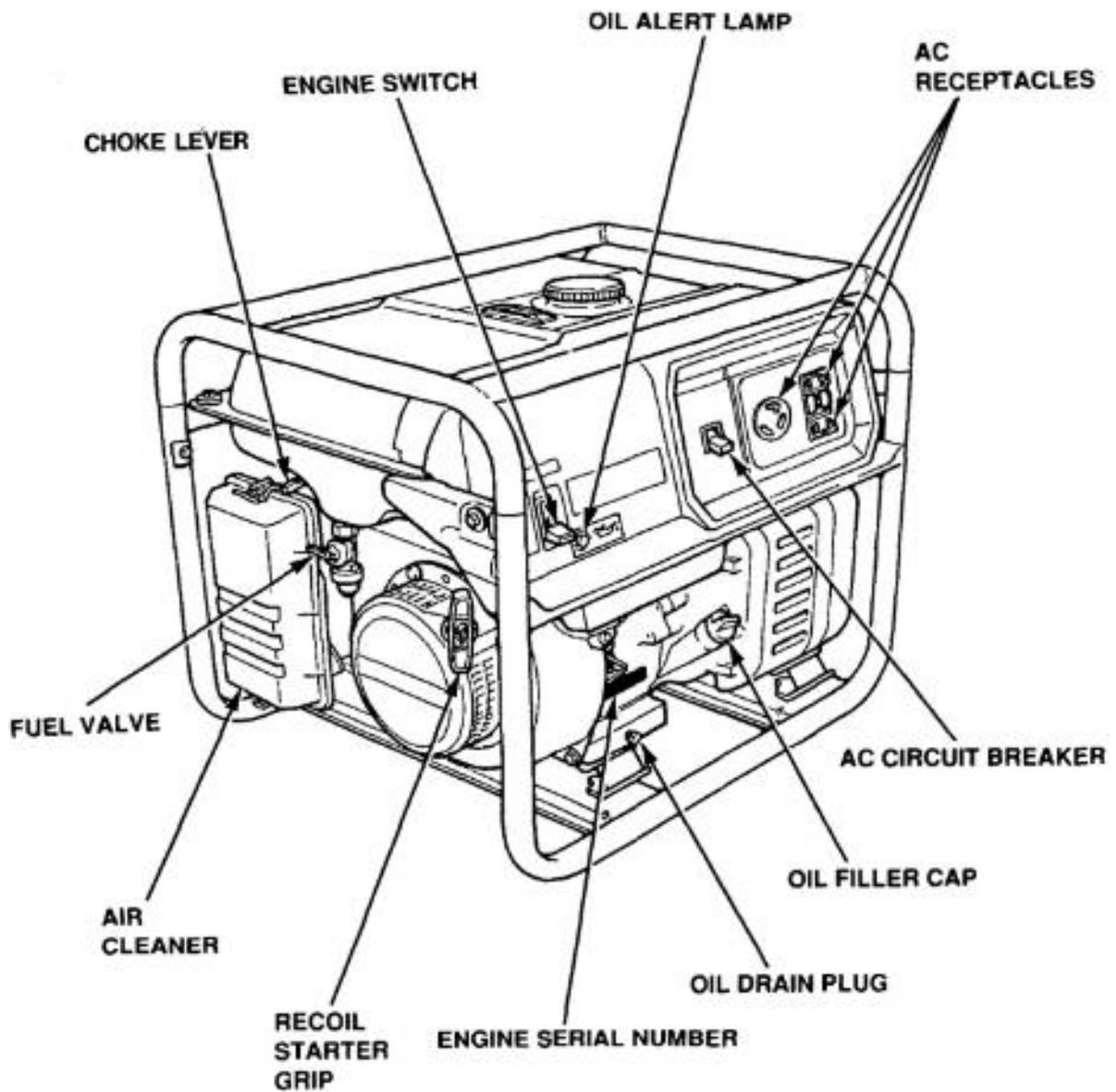
1. The generator produces enough electric power to cause a serious shock or electrocution if misused.
2. Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry.
3. If the generator is stored outdoors, unprotected from the weather, check the Ground Fault Circuit Interrupter (GFCI) receptacle, and all other 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.
4. Do not connect to a building's electrical system unless an isolation switch has been installed by a qualified electrician.

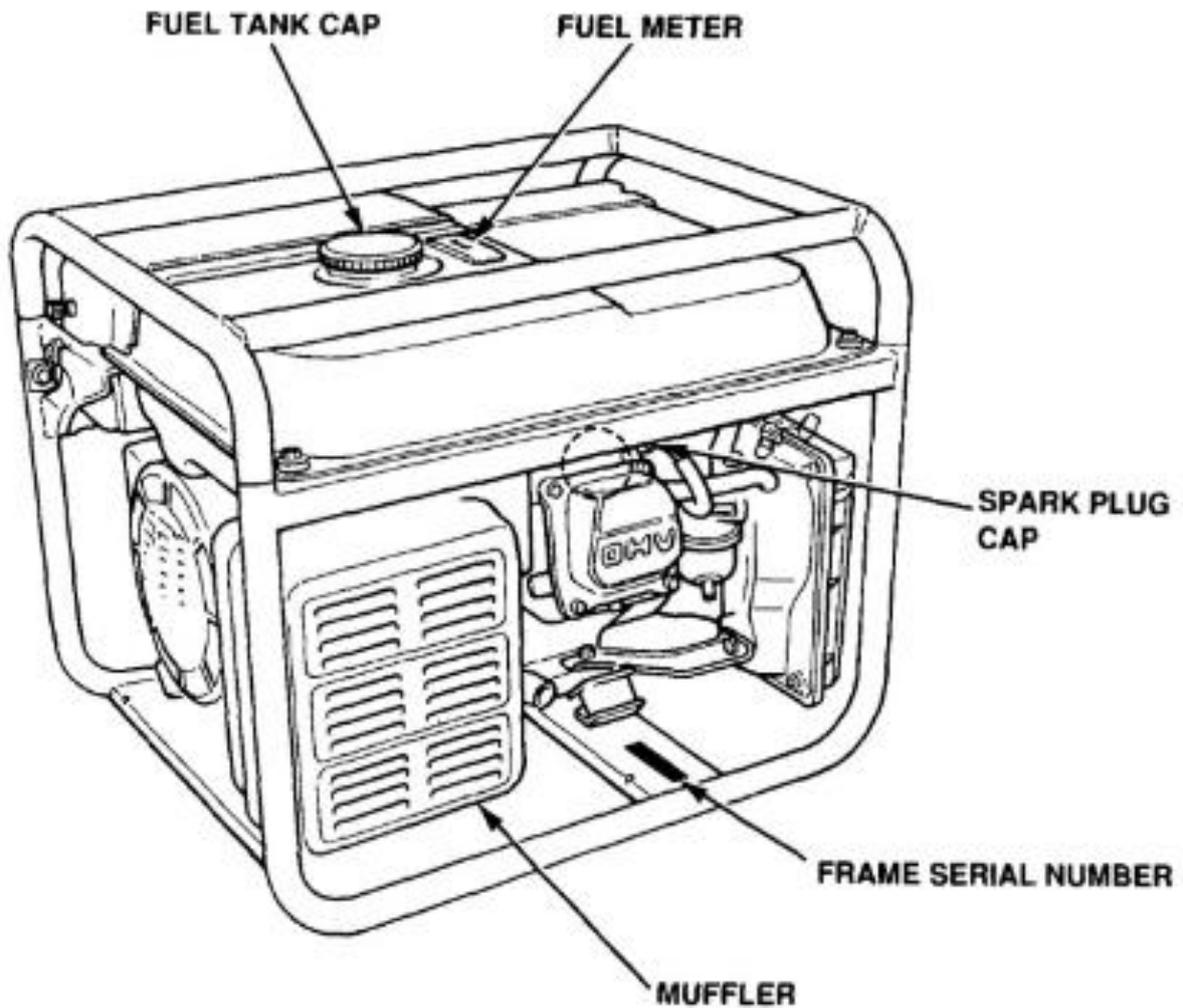
### **Fire and Burn Hazards**

1. The exhaust system gets hot enough to ignite some materials.
  - (1) Keep the generator at least 1 meter away from building and other equipment during operation.
  - (2) Do not enclose the generator in any structure.
  - (3) Keep flammable materials away from the generator.
2. The muffler becomes the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before starting the generator indoors.
3. Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refuelled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
4. Fuel vapours 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.

# COMPONENT IDENTIFICATION

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Record the Engine Frame Serial Numbers for your future reference. Refer to these serial numbers when ordering parts, and when making technical or warranty enquiries.

Frame Serial Number \_\_\_\_\_

Engine Serial Number \_\_\_\_\_

## CONTROLS

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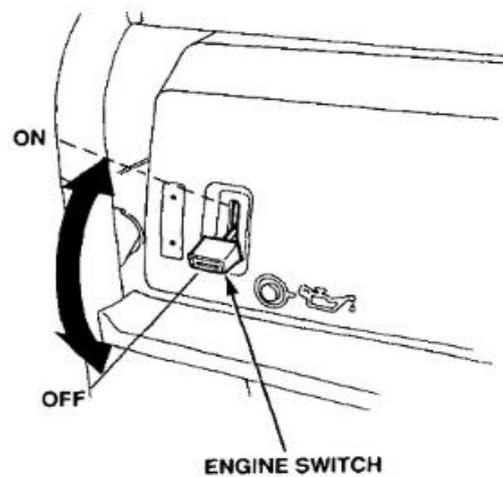
### Engine Switch

To start and stop the engine

Switch Position:

**OFF:** To stop the engine

**ON:** To run the engine



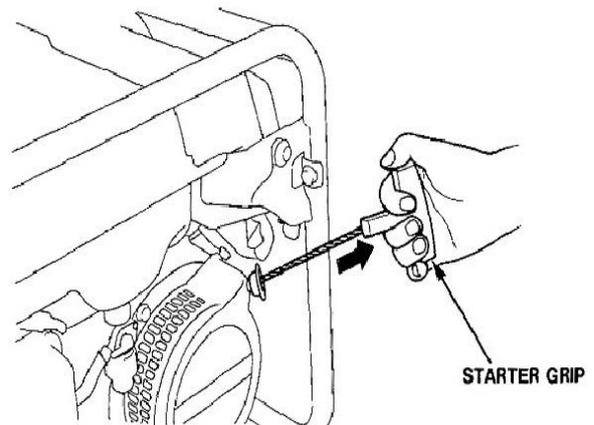
## RECOIL STARTER

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To start the engine, pull the starter grip lightly until resistance is felt, then pull briskly

**NOTICE:** Do not allow the starter to snap back against the engine.

Return it gently to prevent damage to the starter.

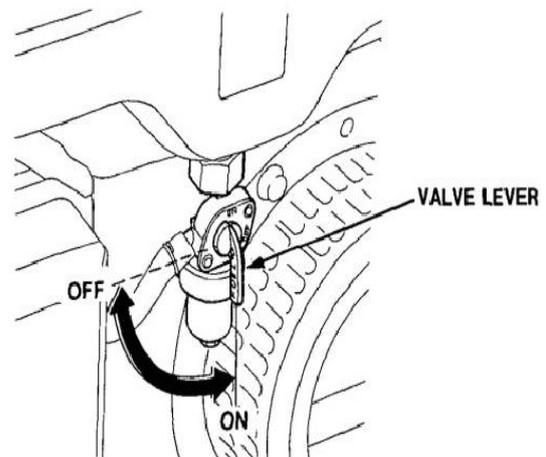


## FUEL VALVE

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The fuel valve is located between the fuel tank and carburettor. When the valve lever is in the ON position, fuel is allowed to flow from the fuel tank to the carburettor.

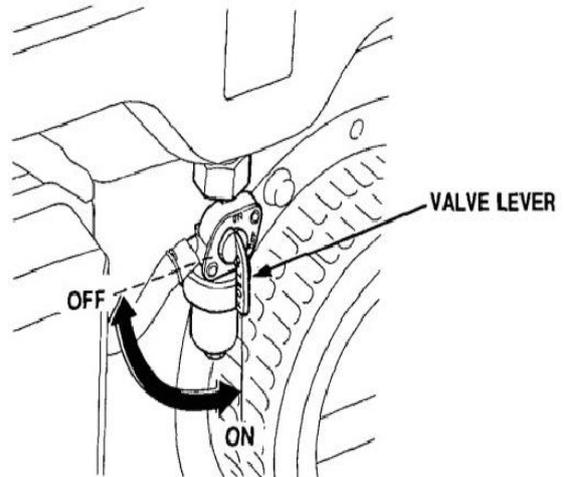
Be sure to return the lever to OFF after stopping the engine.



## CHOKE LEVER

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The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke lever manually. Move the lever to the CLOSE position to enrich the mixture.



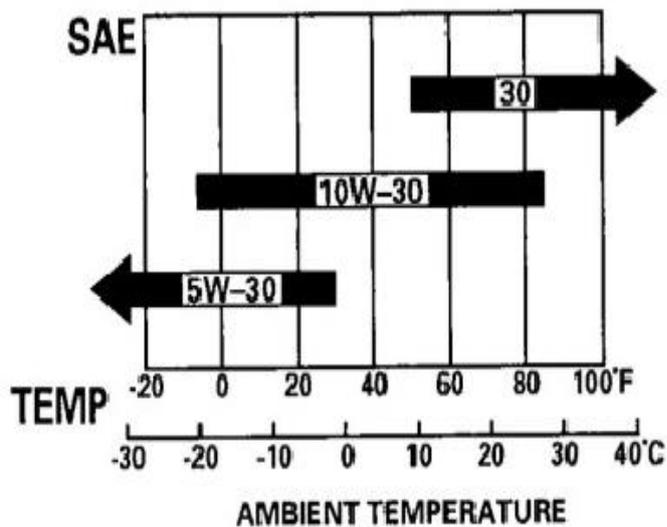
## PRE-OPERATION CHECK

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### ENGINE OIL

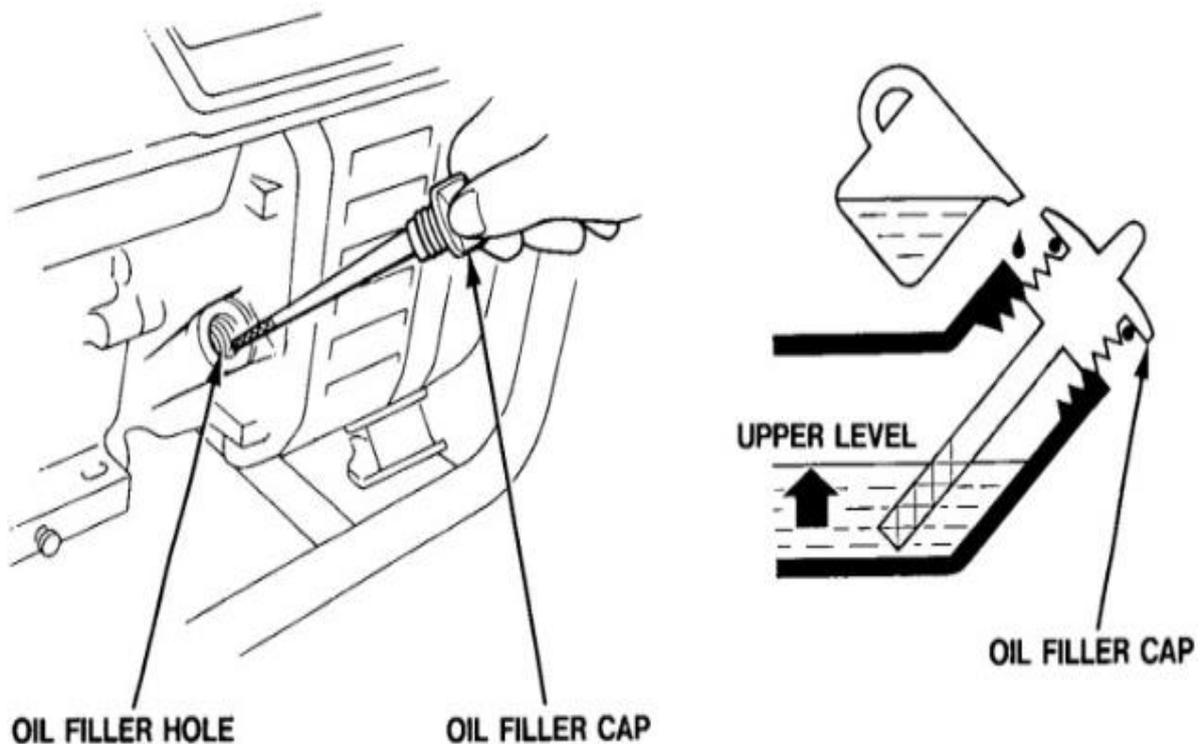
**NOTICE:** Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended.

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



SAE 10W-30 is recommended for generators, all -temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

1. Remove the oil filler cap and wipe the dipstick clean.
2. Check the oil level by inserting the dipstick into the filler neck without screwing it in.
3. If the level is low, add the recommended oil to the upper mark on the dipstick.



## FUEL RECOMMENDATION

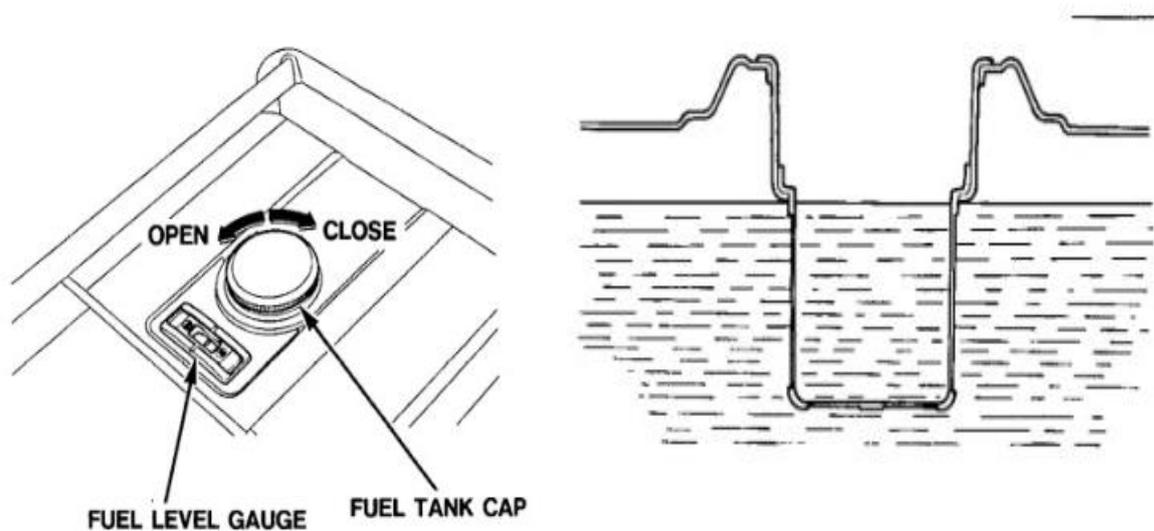
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1. Check the fuel level gauge.
2. Refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer.

### **⚠ WARNING**

1. Gasoline is extremely flammable and is explosive under certain conditions.
2. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refuelled or where gasoline is stored.
3. Do not overfill the fuel tank (there should be no fuel in the filler neck). After refuelling, make sure the tank cap is closed properly and securely. Be careful not to spill fuel when relieving. Spilled fuel or fuel vapour may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
4. Avoid repeated or prolonged contact with skin or breathing of vapour.
5. KEEP OUT OF REACH OF CHILDREN.

**Fuel tank capacity: 11 Litres (2.9 US Gal, 2.4 Imp gal)**



#### **Use gasoline with a pump octane rating of 86 or higher**

We recommend unleaded gasoline because it produces fewer engine and spark plug deposits and extends exhaust system life.

Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

Occasionally you may hear light "spark knock" or "pinging" (metallic rapping noise) while operating under heavy loads. This is no cause for concern.

If spark knock or pinging occurs at a steady engine speed, under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized Böhmer-AG generator dealer.

**NOTICE** Running the engine with persistent spark knock or pinging can cause engine damage.

Running the engine with persistent spark knock or pinging is misuse and the Distributor's Limited Warranty does not cover parts damages by misuse.

#### **Oxygenated Fuels**

Some gasoline is being blended with alcohol or an ether compound to increase the octane. These gasolines are collectively referred to as oxygenated fuels. Some areas of the United States use oxygenated fuels to help meet clean air standards.

If you use an oxygenated fuel, be sure its pump octane rating is 86 or higher.

#### **Ethanol (ethyl or grain alcohol)**

Gasoline containing more than 10% ethanol by volume may cause starting and/or performance problems. Gasoline containing ethanol may be marketed under the name "Gasohol"

### **Methanol (methyl or wood alcohol)**

Gasoline containing methanol must contain solvents and corrosion inhibitors to protect the fuel system. Gasoline containing more than 5% methanol by volume may cause starting and /or performance problems and may damage metal, rubber and plastic parts of your fuel system.

### **MTBE (methyl tertiary butyl ether)**

You may use gasoline containing up to 15% MTBE by volume.

Before using an oxygenated fuel, try to confirm the fuel's contents. Some states (provinces in Canada) require this information to be posted on the pump. If you notice any undesirable operating symptoms, switch to a conventional unleaded gasoline. Fuel system damage or performance problems resulting from the use of an oxygenated fuel are not the responsibility of Böhmer-AG and not covered under warranty.

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**NOTICE:** Oxygenated fuels can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.

## **STARTING/STOPPING THE ENGINE**

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### **Starting the engine**

1. Make sure that the AC circuit breaker is in the OFF position. The generator may be hard to start if a load is connected.
2. Turn the fuel valve to the ON position.
3. Turn the choke lever to the CLOSE position.
4. Turn the engine switch to the ON position.
5. Pull the starter grip until compression is felt, then pull briskly.

**NOTICE:** Do not allow the starter grip to snap back. Return it slowly by hand.

6. Turn the choke lever to the OPEN position as the engine warms up.

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### **Stopping the engine**

#### **In an emergency:**

1. To stop the engine in an emergency. Move the engine switch to the OFF position.

#### **In normal use:**

1. Turn the AC circuit breaker to the OFF position.
2. Move the engine switch to the OFF position.
3. Turn the fuel valve to the OFF position.

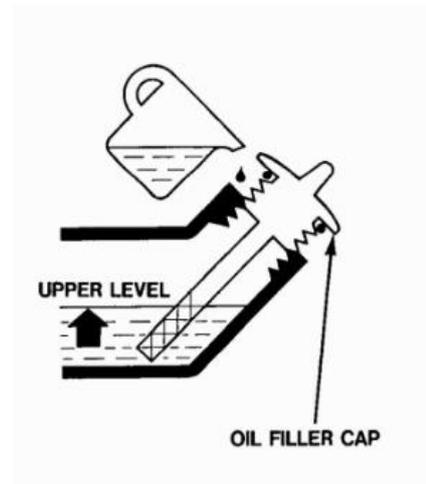
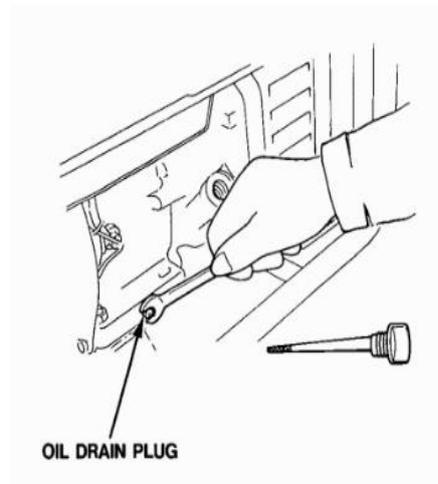
## ENGINE OIL CHANGE

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Drain the oil while the engine is warm to assure complete and rapid 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 (see page 21) and check the oil level.

**Oil capacity:** 0.6L (0.63US qt, 0.52 Imp qt)



**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 centre for reclamation. Do not throw it in the trash or pour it on the ground.

## AIR CLEANER SERVICE

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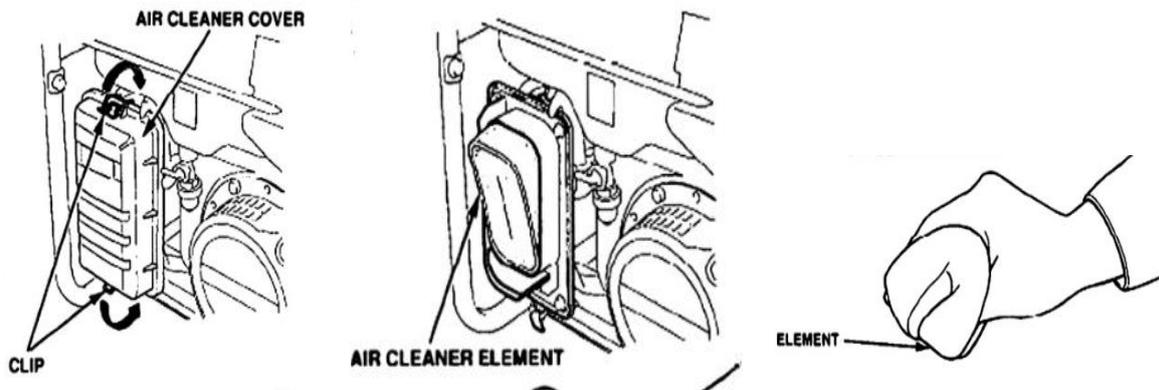
A dirty air cleaner will restrict air flow to the carburettor. To prevent carburettor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

**WARNING:** Using gasoline or flammable solvent to clean the filter element can cause a fire explosion. Use only soapy water or non-flammable solvent.

**NOTICE:** Never run the generator without the air cleaner. Rapid engine wear will result.

1. Unsnap the air cleaner cover clips, remove the air cleaner cover and remove the element.

2. Wash the element in a solution of household detergent and warm water, then rinse thoroughly or wash in non-flammable or high flash point solvent .Allow the element to dry thoroughly.
3. Soak the element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial start-up if too much oil is left in the element.
4. Reinstall the air cleaner element and the cover.

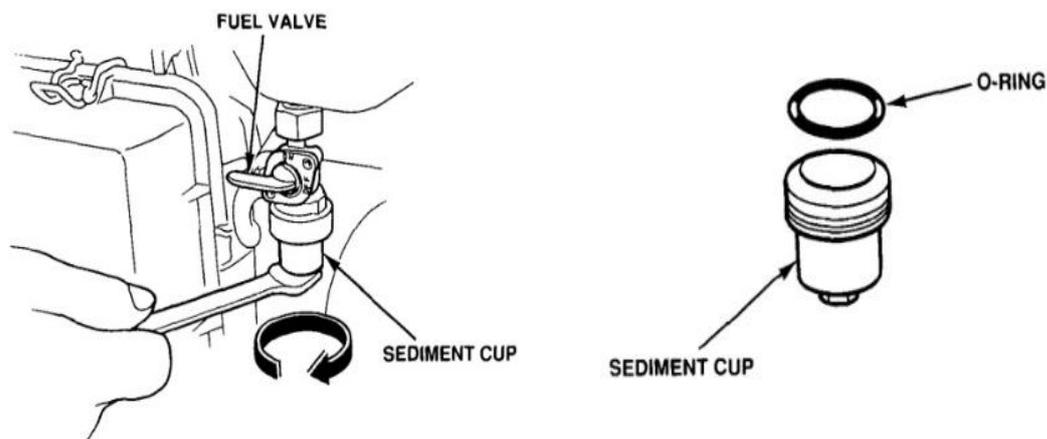


## FUEL SEDIMENT CUP CLEANING

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The sediment cup prevents dirt or water which may be in the fuel tank from entering the carburettor. 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 and O-ring.
2. Clean the sediment cup and O-ring in non-flammable or high flash point solvent.
3. Reinstall O-ring and sediment cup.
- 4 .Turn the fuel valve ON and check for leaks.



# SPARK PLUG SERVICE

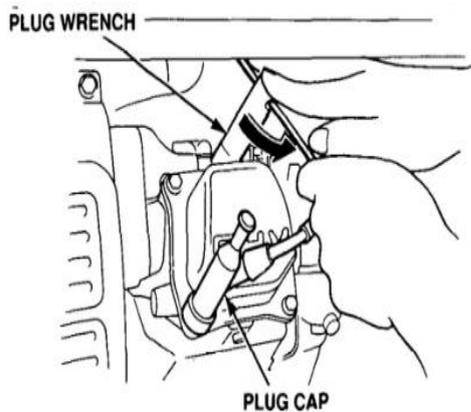
Recommended spark plugs:

**BPR6ES (NGK) / W20EPR-U (NIPPONDENSO)**

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 be very hot. Be careful not to touch the muffler.

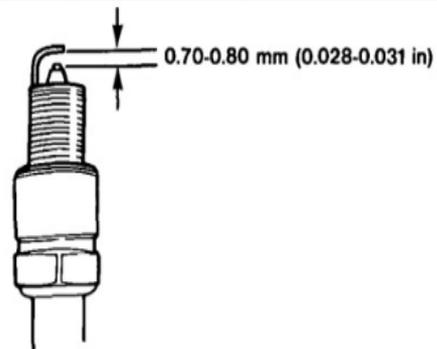
1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use the wrench supplied in the tool kit to remove the spark plug.



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: 0.70-080 mm (0.028-0.031 in)

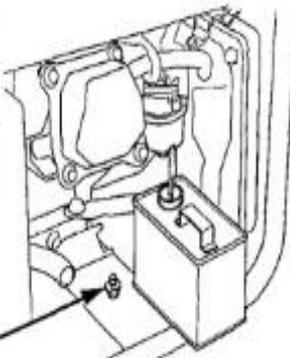
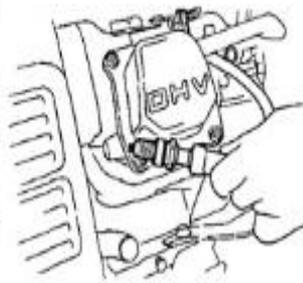
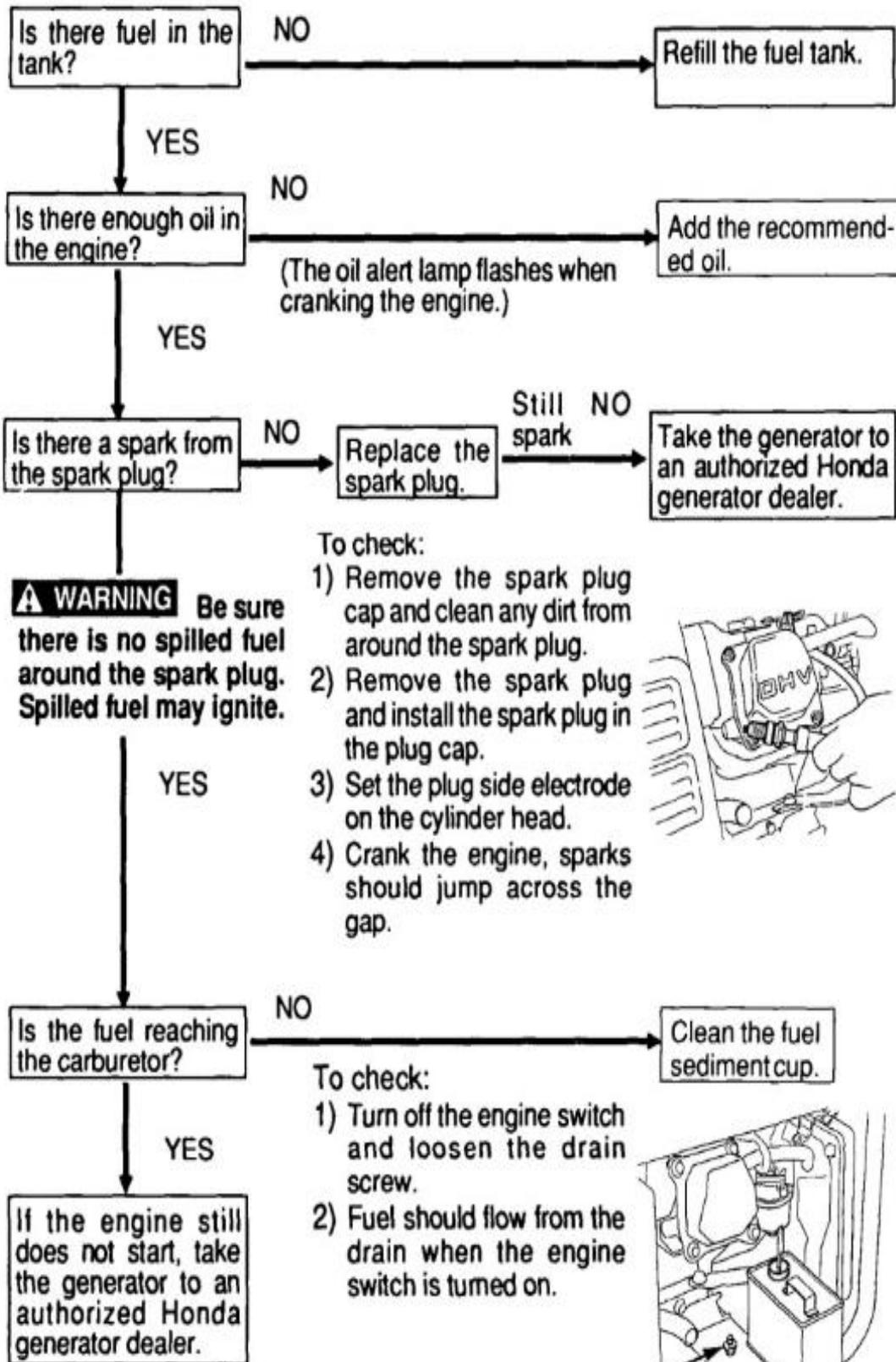


6. Check that the spark plug washer is in good condition and thread the spark plug in by hand to prevent cross-threading

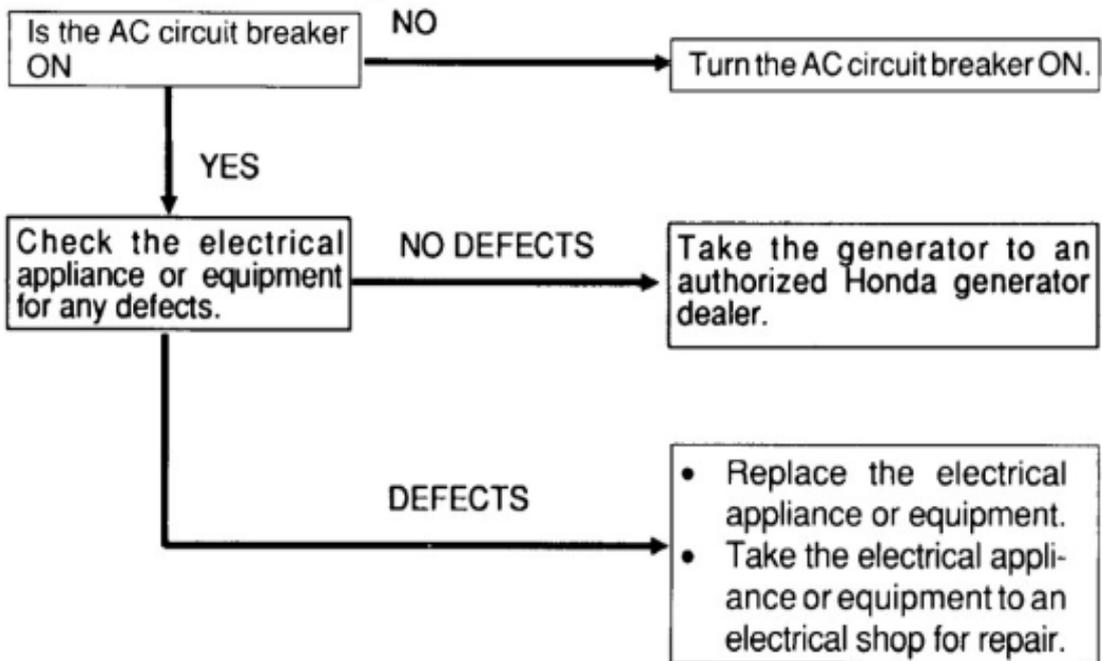
7. After the spark plug is seated tighten with a spark plug wrench to compress the washer  
The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine.

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

When the engine will not start:



No electricity at the AC receptacles:



# CE DECLARATION OF CONFORMITY

We hereby declare that the machine described below complies with the relevant basic safety and health requirements of the EU Directives, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified without our prior approval.

The undersigned: Michael S McQuaide

**as authorised by:** Union Mart Ltd

Declares that

**Description:** Petrol Generator

**Identification code:** 6500W

**Conforms to the following directives and standards:**

- MD 2006/42/EC Machinery Directive
- EMC 2004/108/EC Annex 11 Electromagnetic Compatibility Directive

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**And Complies with the provisions of the following standards:**

EN 12601:2010, EN60204-1:2006/AC:2010, IEC 60034-1:2010, EN 55012:2007+A1:2009.

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**Notified body:** CNAS – China National Accreditation Service of Conformity Assessment

The technical documentation is kept by: Union Mart Ltd

**Date:** 15/02/2017

**Signed:**



Michael S McQuaide

Managing Director

**Name and address of the manufacturer:**

Union Mart Ltd, Company No. 8384155. Registered address: Unit C3,  
Deacon Trading Estate, Chicken Hall Ln, Eastleigh SO50 6RS, United Kingdom.