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# BP2S



## OPERATION MANUAL

# PREFACE

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This book includes the operating and maintenance instructions for the Bundu Power BP2S petrol generator.

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|                                                                                  |                                                                                                                                                           |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>This sign indicates that operating the generator outside the parameters and guidelines of this manual could cause serious harm and possibly death.</p> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>This sign indicates that the generator could be damaged if not operated within the parameters and guidelines set out in the manual.</p> |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

Should any problems arise during the use of your generator please contact your local agent for assistance. Details of which can be found on the website. [www.bundupower.co.za](http://www.bundupower.co.za)

**NOTE:** Warranty of this product is held with the branch where you purchased the generator. Generators to be repaired under warranty must be returned to the branch from which they were bought.

This generator is designed to run on PETROL only. The use of the word petrol and Gasoline are used interchangeably in this manual.

# INDEX

## BP2S PETROL GENERATOR

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## 1. SAFETY CONSIDERATIONS

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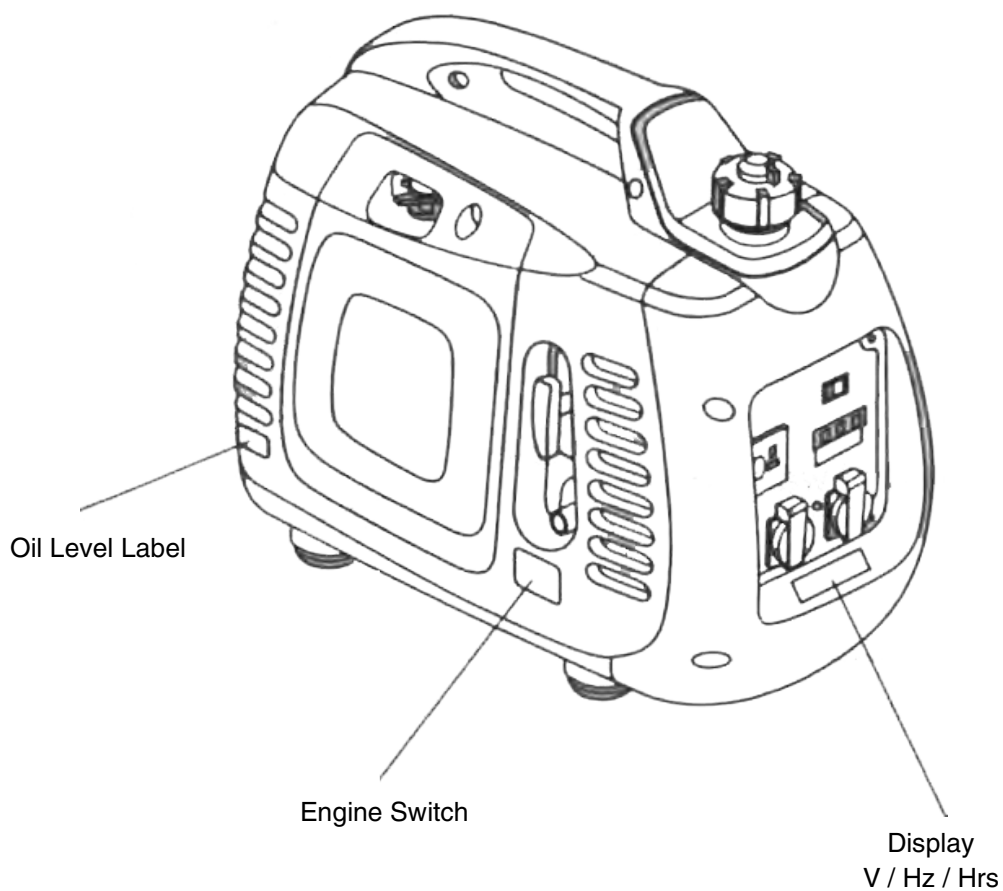
This generator produces toxic fumes when in operation. **DO NOT OPERATE INDOORS** under any circumstances. Ensure the generator is in a well-ventilated area when in operation.

### GENERAL SAFETY

- Do not use the generator indoors. The generator produces toxic fumes when in operation. Ensure the generator is in a well-ventilated area and at least 1m from any structures.
- Do not re-fuel the generator whilst it is running.
- Let the generator cool down before re-fuelling or topping up the oil.
- Petrol is highly flammable, keep it stored away from the generator and out of the reach of children.
- Do not have any naked flames or cigarettes close to the generator when in operation or refuelling.
- Clean any overflow of petrol away from the generator.
- Check the generator thoroughly prior to starting it each time.
- The generator must be placed on a level surface for optimal operation. If the generator is tilted the petrol will leak from the generator.
- **DO NOT** operate the generator without all the necessary covers in place.
- This generator produces electricity. Be careful to ensure that all plugs, connections and cables are well insulated. The cables and connection are not in contact with water and no cable is exposed.
- **DO NOT** operate the generator in the rain or snow.

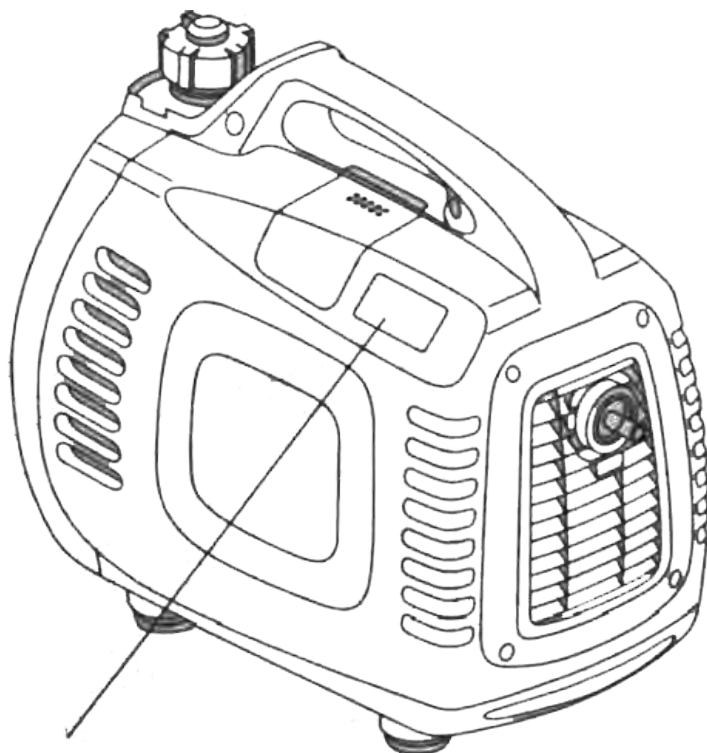
## 2. LABELS

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## 2. LABELS (CONT..)

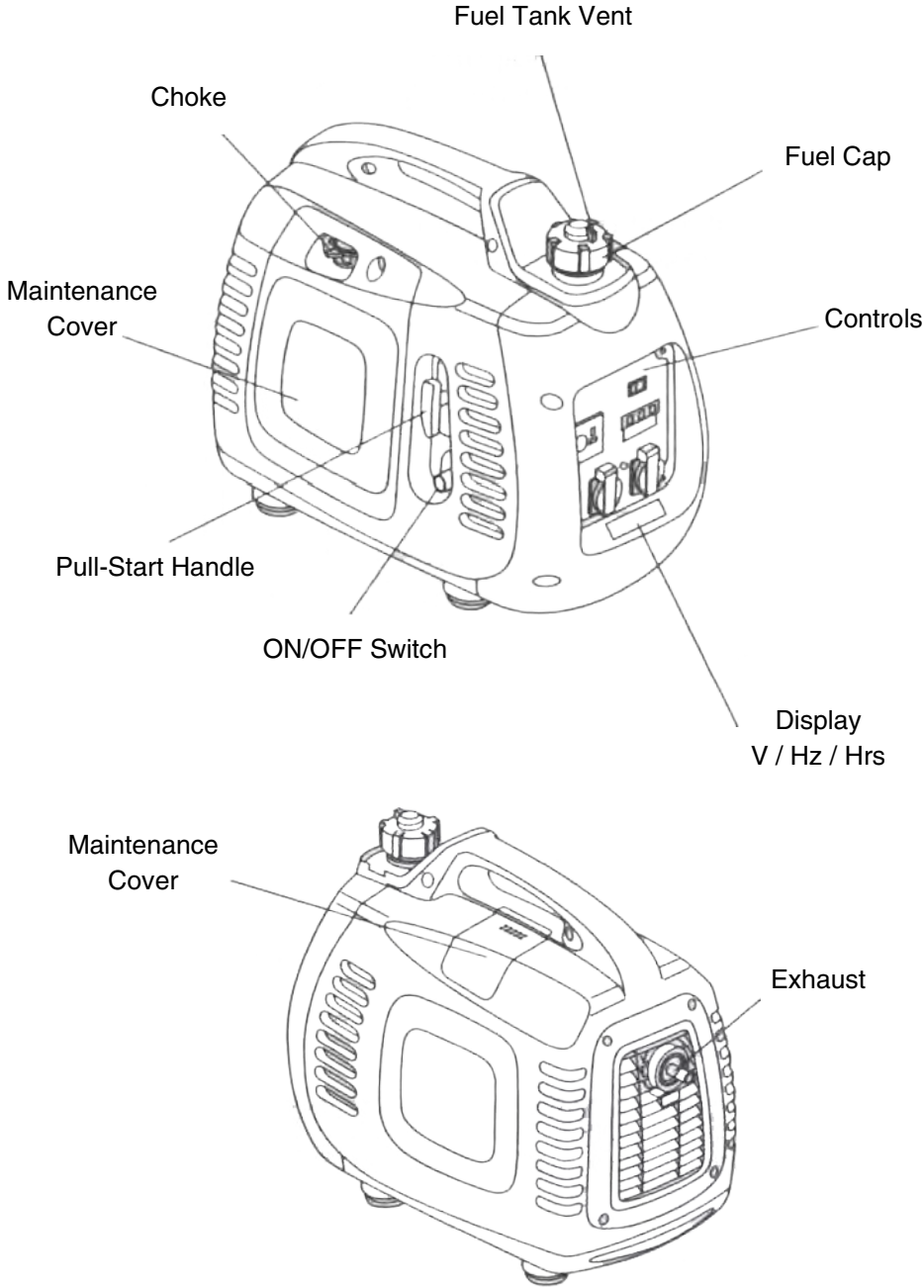
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Label of Warning

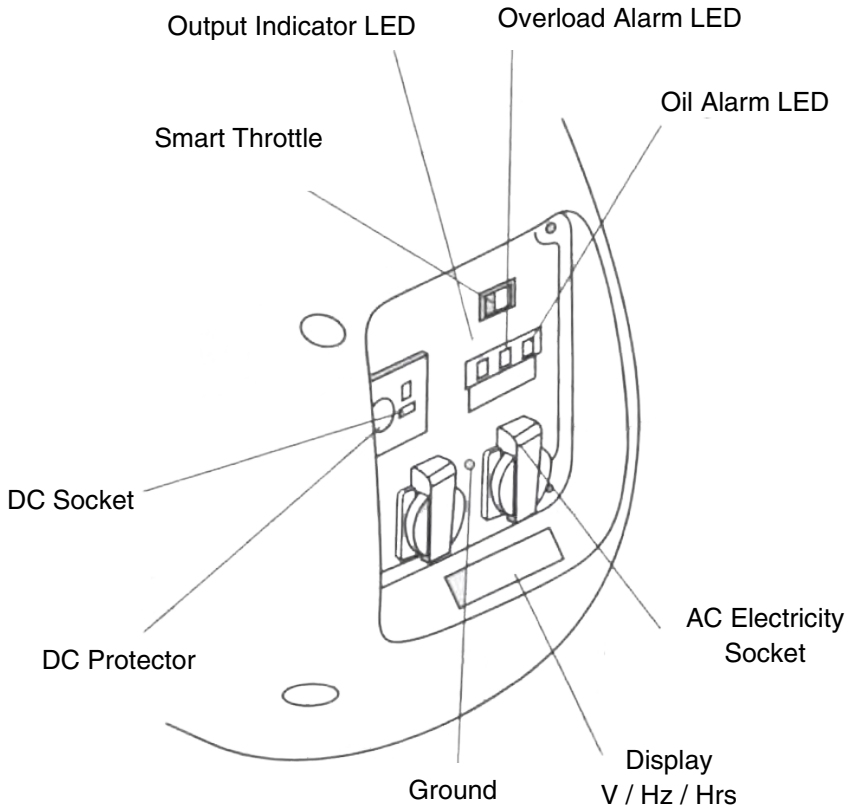
**3.    COMPONENT IDENTIFICATION**

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### 3. COMPONENT IDENTIFICATION (CONT...)

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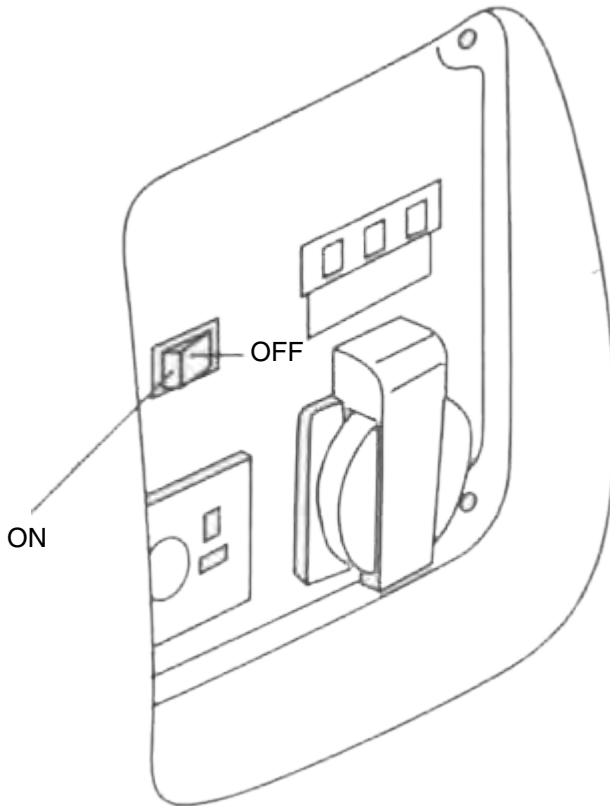
### 3. COMPONENT IDENTIFICATION (CONT...)

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#### SMART THROTTLE

The RPM of the generator is automatically adjusted to save fuel when there is little to no load on the generator.

This feature can be turned on or off using the switch on the control panel.



## 4. CHECKS BEFORE OPERATING



1. Check that the generator is on a level surface.
2. Check the oil level of the generator.
3. Check the fuel level of the generator.

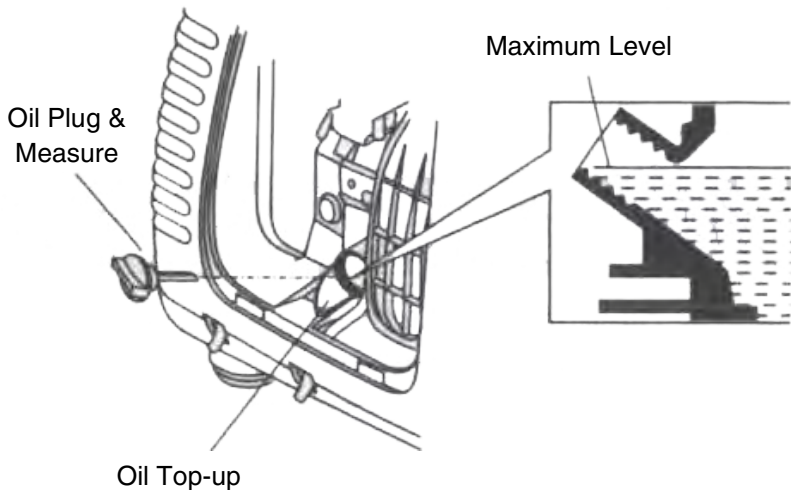
### 4.1 CHECK THE OIL LEVEL



Only use the recommended lubricants in the generator. Using inferior lubricants or 2-stroke lubricant will significantly reduce the life span of the generator and void the warranty.

**RECOMMENDED OIL:** SAE10W30

The generator has a safety feature which will turn the generator off if the oil level is too low. To avoid the inconvenience of this shutdown, please always check the oil level before using the generator.



#### 4. CHECKS BEFORE OPERATING (CONT...)

Only use vehicle grade petrol (gasoline) in this generator. Do not use leaded or lead replacement fuel (LRP).

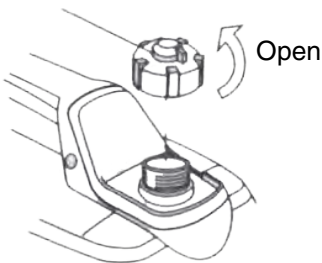
**DO NOT** add oil to the fuel. The generator is a four stroke system that does not require any additional lubricant to be added other than that described in the pages prior to this.

- To increase the longevity of the generator always use clean fuel.
- Always empty the generator of fuel when being stored.

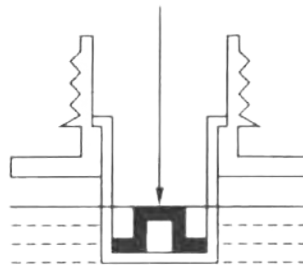
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>- Petrol is highly flammable and volatile in certain circumstances. Always take precautions when using or storing petrol.</li><li>- Always turn off the generator when adding fuel to it. Let the generator cool down before filling with fuel.</li><li>- Clean any spillage off of the generator prior to operating the generator.</li><li>- Avoid direct contact with your skin and eyes. Should you come into contact with the fuel, rinse thoroughly and contact a medical physician for further treatment.</li></ul> |
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The fuel tank capacity is: 2.1 litres.

Fuel Cap



Maximum Fuel  
Level



#### 4. CHECKS BEFORE OPERATING (CONT...)

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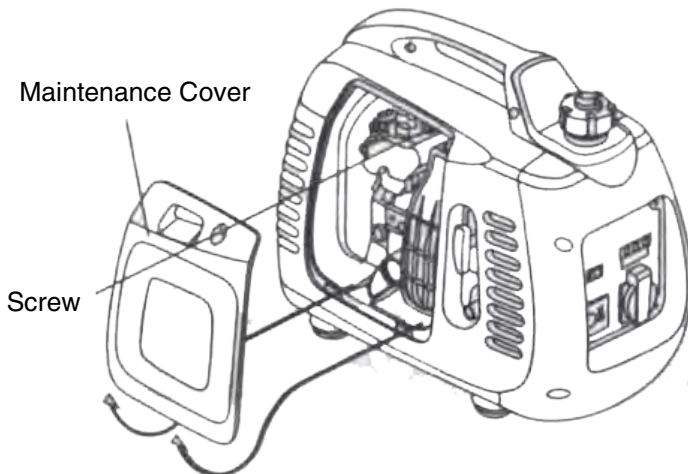
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>- Use of higher concentrated ethanol or methanol than mentioned above can lead to performance problems and will not be covered under the warranty agreement.</li><li>- DO NOT use petrol (gasoline) with a higher concentration than 10% ethanol or 5% methanol. This will cause damage to the internal components.</li></ul> |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### CHECK THE AIR FILTER

Before running the generator check that the air filter is clean and clear of obstructions. The generator will not operate optimally without the good airflow through the air filter.

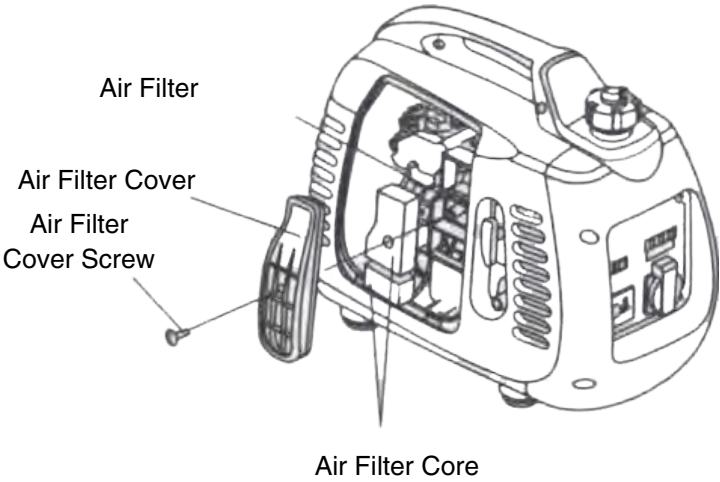
To check the air filter, unscrew the larger maintenance panel and unscrew the air filter housing to check the air filter inside. Either clean the air filter or replace it if necessary.

|                                                                                  |                                                                                                                                                                                        |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>- DO NOT run the generator without the air filter. Dirt and dust will enter the engine and will reduce the longevity of the generator.</li></ul> |
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**4. CHECKS BEFORE OPERATING (CONT...)**

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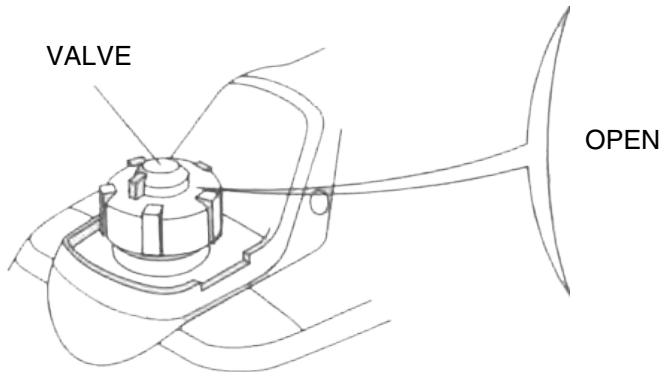


## 5. STARTING THE ENGINE

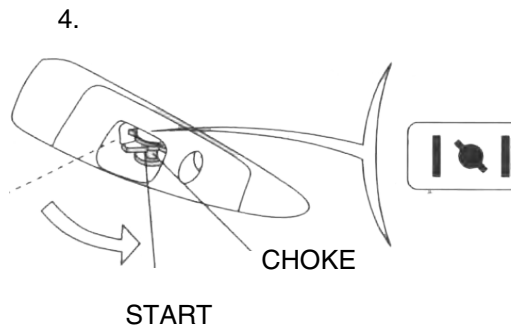
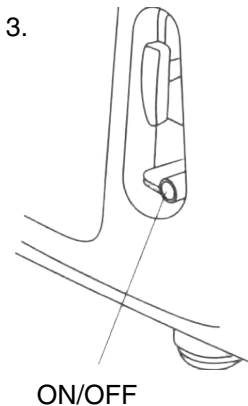
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### CHECKLIST

1. Before starting the engine turn off all appliances connected to the AC socket of the generator or unplug the AC plug from the generator.
2. Turn the valve on the top of the fuel cap to the open position.
  - a. NOTE: When transporting the generator this valve should be in the off position.



3. Turn the switch on the side of the generator to the ON position. Located next to the pull start.
4. Turn the choke to the START position.

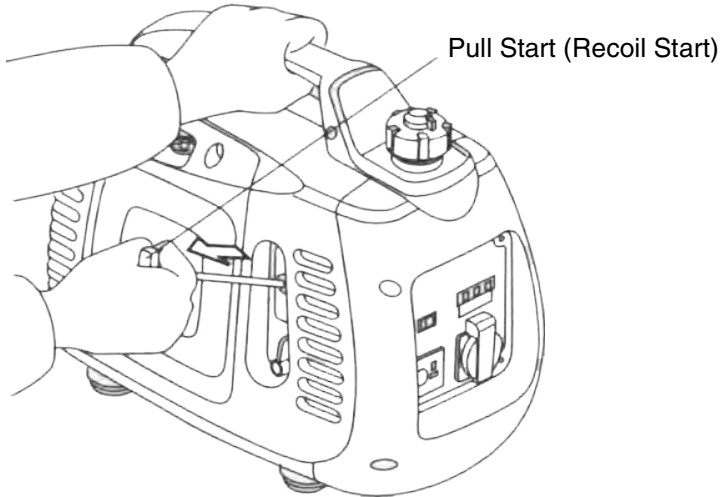


## 5. STARTING THE ENGINE

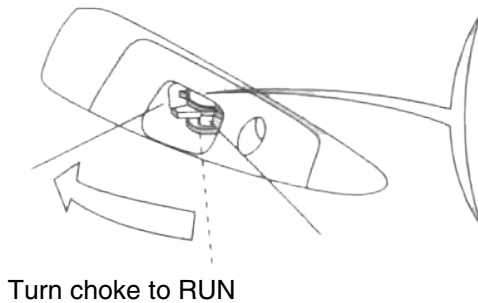
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5. Pull the handle firmly away from the generator whilst holding the handle on the top of the generator.

Be careful not to let go of the handle, release it slowly by hand.



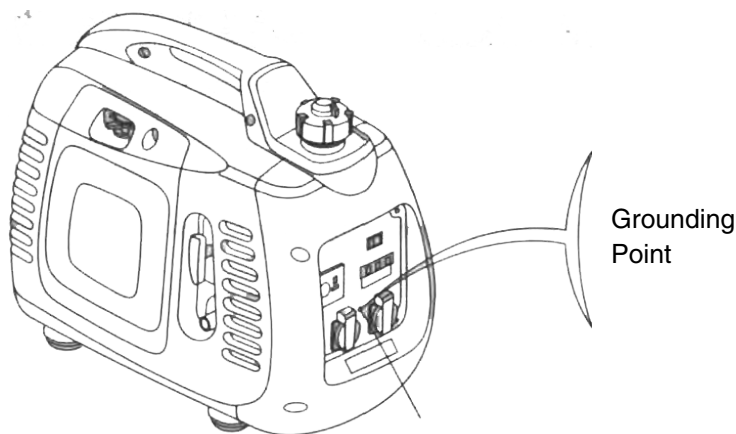
6. Once the engine has warmed up turn the choke to the RUN position.



## 6. USING THE GENERATOR



- To prevent electric shock when operated incorrectly you should earth the generator. There is an earthing point on the front of the generator between the AC sockets.
- Connection to any existing electrical infrastructure should always be performed by a qualified electrician.
- DO NOT connect this generator to any plug socket within your home. It is dangerous and illegal.



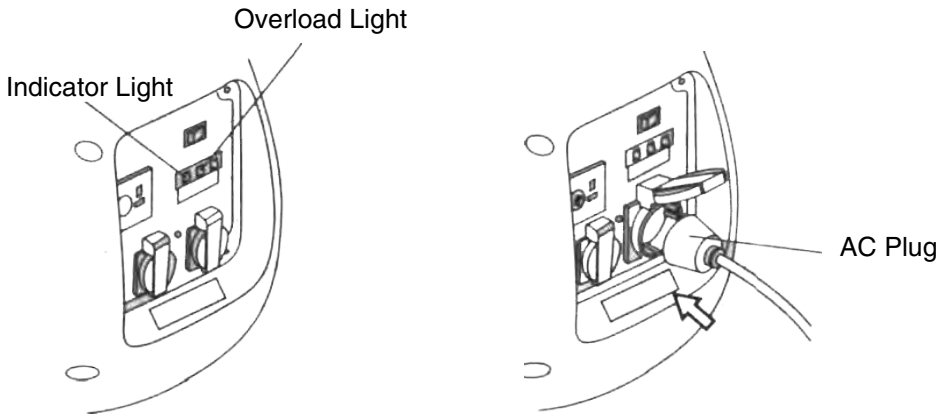
- Do not exceed the rated power of the generator. Check the electrical appliances prior to connecting them to the generator.
- Do not exceed the fixed current limit on the sockets.
- Do not modify the engine this could result in under or over voltage to your appliances.
- Extension cords up to 60m can be 1.5mm, from 60 to 100m should be 2.5mm
- If the cable is too long the resistance increases and you will have volt-drop.
- AC and DC sockets can be used simultaneously
- Most electrical equipment has a higher starting rating than its running rating.

## 6. USING THE GENERATOR (CONT...)

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### USING THE AC SOCKETS

1. Start the generator and check that the green indicator light is on
2. Make sure that the appliances to be connected to the generator are in the off position. Connect the male AC plug into the plug socket on the generator.
3. Once the plug is securely connected turn the appliances on.



- Prior to connecting the appliances to the generator check to ensure they're in good operating order.

### OVERLOAD LIGHT

When the generator is operating normally the green indicator light will be on. If the generator is overloaded or there is a short circuit the green indicator light will go off and the red overload light will illuminate.

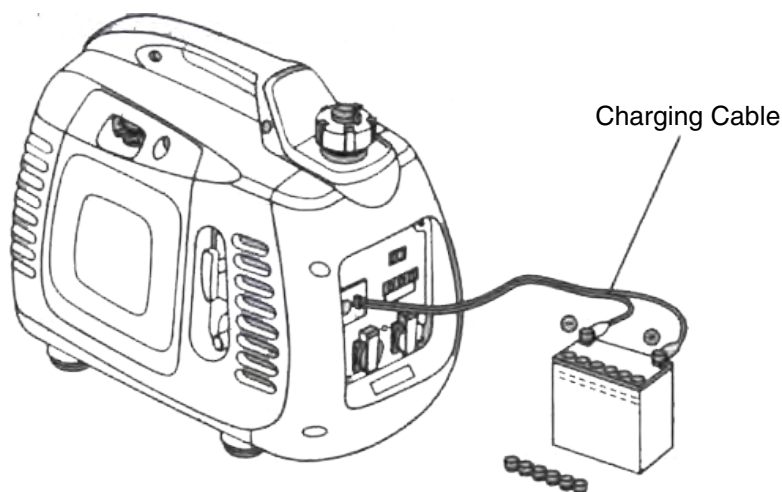
In this situation you should shut down the generator and disconnect the appliances to check for any problems on the generator or connected appliances.

## 6. USING THE GENERATOR (CONT...)



- During start-up it is common for both the green indicator light and the red overload light to be illuminated. After some time the red light should go off. If it does not, this indicates that there is a problem. Please contact your local service agent for assistance.

When using the DC charger output. Turn the smart throttle to the off position.



To avoid sparks when connecting the battery for charging, connect the charging cable to the generator first. Ensure that the positive and negative clamps are not touching one another. Connect the positive (+) clamp to the positive terminal first (RED). Then connect the negative (-) clamp to the negative terminal (BLACK).

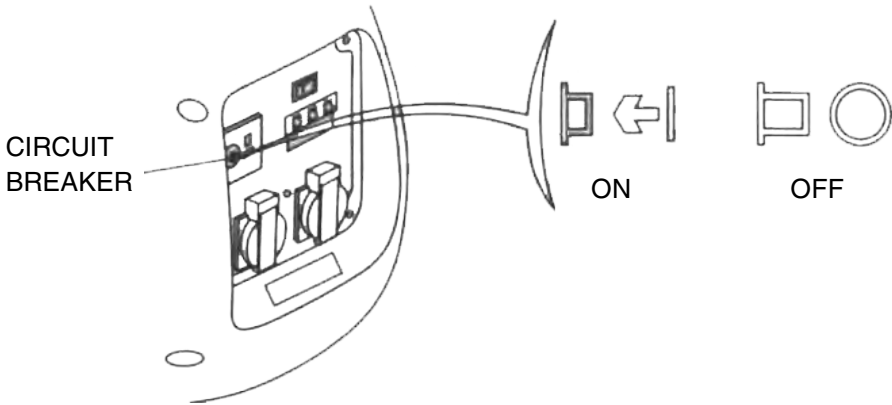


- DO NOT start the generator with a battery connected for charging.
- Keep the charging cable and batteries out of the reach of children.
- Batteries can contain toxic chemicals, check the battery instruction manual for information.

## 6. USING THE GENERATOR (CONT...)

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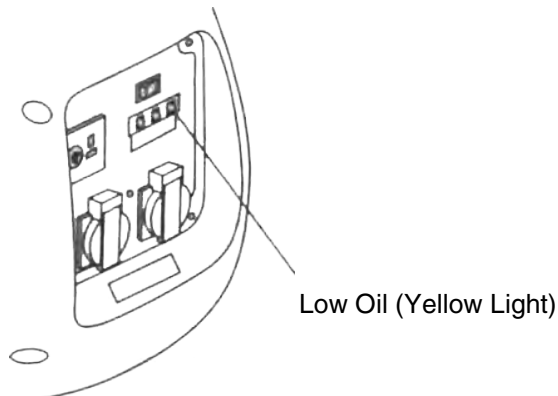
Overloading of the DC socket will result in the breaker tripping. If this happens, wait a few minutes and press the breaker back to the on position.



### LOW OIL ALARM

The generator has a low oil alarm which is designed to protect the generator from being damaged when operated without enough oil.

The engine will automatically shut down if there is a low oil alarm. If you attempt to run the generator again it will shut-down with the same alarm. Top up the oil in the generator to solve this problem.



## 7. TURNING OFF THE GENERATOR

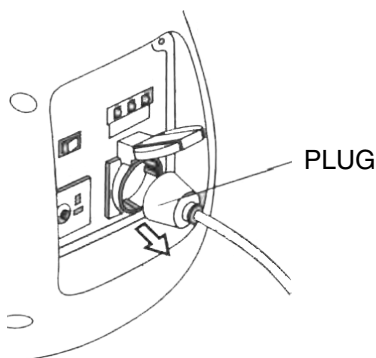
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### EMERGENCY SHUTDOWN

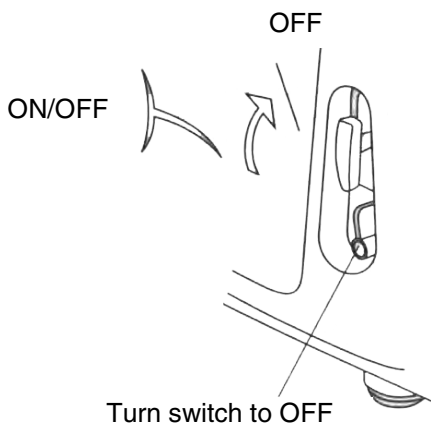
In the case of an EMERGENCY shutdown turn the generator ON/OFF switch to the OFF position. This will immediately disable the generator. Do not use this shutdown procedure for regular operation as it may damage your appliances.

### NORMAL OPERATION: SHUTDOWN

1. Turn off all the appliances connected to the generator.
2. Unplug the AC and DC sockets from the generator.



3. Turn the generator ON/OFF switch to the OFF position.

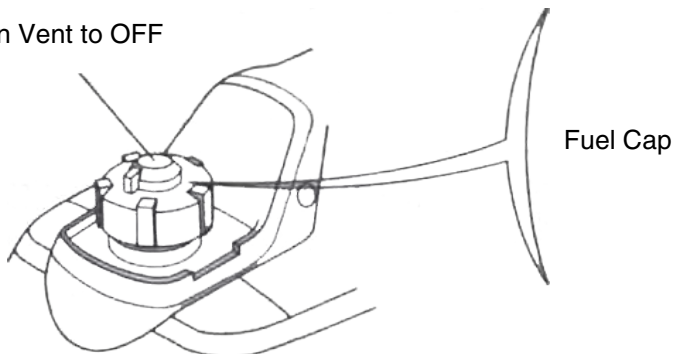


## 7. TURNING OFF THE GENERATOR (CONT...)

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4. Once the generator has cooled down, turn the vent on the fuel cap to the off position to close the fuel cap.

Turn Vent to OFF



## 8. MAINTENANCE

It is imperative to follow a rigorous maintenance plan in order to ensure the longevity of your generator. Failure to do regular maintenance will result in poor performance of the generator.

|                                                                                                    |                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>WARNING</b> | <ul style="list-style-type: none"><li>- Always turn the generator OFF to perform any maintenance.</li><li>- Only use original parts supplied by your local authorised agent.</li></ul> |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### MAINTENANCE SCHEDULE

| COMPONANT            |        | FIRST<br>USE | 1 Month /<br>20 Hrs | 3 Months<br>/ 50 Hrs                 | 6 Months<br>/ 100 Hrs | 1 Year /<br>200 Hrs |
|----------------------|--------|--------------|---------------------|--------------------------------------|-----------------------|---------------------|
| OIL                  | CHECK  | X            |                     |                                      |                       |                     |
|                      | CHANGE |              | X                   |                                      | X                     |                     |
| AIR FILTER           | CHECK  | X            |                     |                                      |                       |                     |
|                      | CHANGE |              |                     | X                                    |                       |                     |
| SPARK PLUG           | CHECK  |              |                     |                                      | X                     |                     |
|                      | CHANGE |              |                     |                                      |                       | X                   |
| BURNING<br>CONTAINER | CLEAN  |              |                     | Every 300 Hours                      |                       |                     |
| FUEL FILTER          | CLEAN  |              |                     |                                      | X                     |                     |
| FUEL LINE            | CHECK  |              |                     | Every 2 years (replace if necessary) |                       |                     |

### NOTES

1. If the generator is being used in a dusty or dirty environment, more regular maintenance will be required, especially of the Air filter.
2. Only authorised personnel should perform maintenance on the generator. This is to keep the warranty in effect and the generator working optimally.
3. Keep a log of the operating hours to ensure regular maintenance as per the schedule.

## 8. MAINTENANCE (CONT...)

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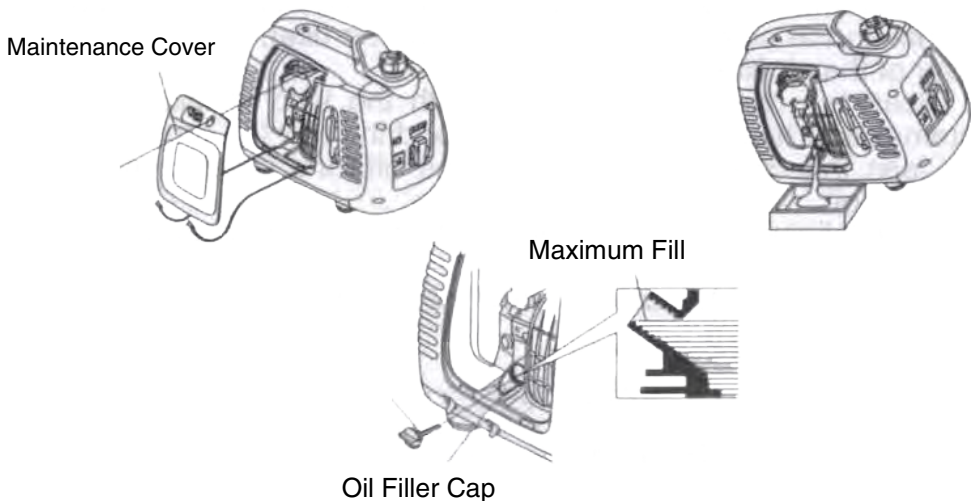
### CHANGING THE OIL

Discharge the oil from the generator when the engine is still warm. This will allow the oil to flow freely and quickly. Be careful to not come into contact with the hot liquid and drain it into an appropriate container to be disposed of correctly.

Keep the fuel tank vent in the closed position when draining the oil.

**OIL CAPACITY:** 0.25 litres

1. Remove the large maintenance cover.
2. Unscrew the oil filler cap.
3. Discharge the dirty oil into a suitable disposable container.
4. Fill with the recommended oil.
5. Replace the maintenance cover.

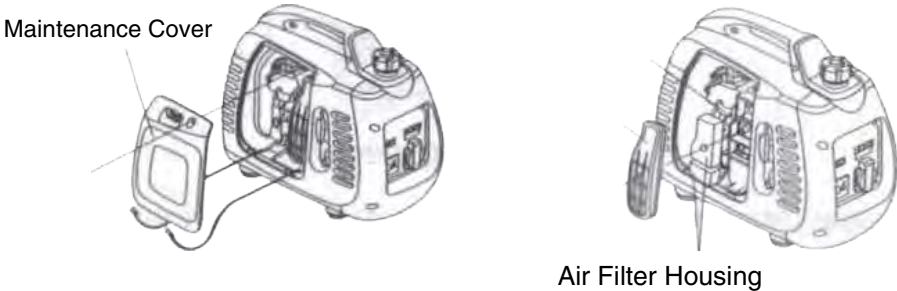


## 8. MAINTENANCE (CONT...)

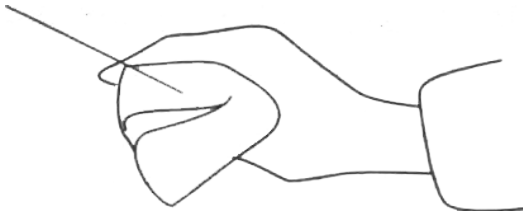
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### AIR FILTER MAINTENANCE

1. Remove the large maintenance cover.
2. Remove the screw on the air filter housing.
3. Clean the core of the air filter using a solvent with a high combustion temperature. Do not use petrol to clean.
4. Replace the air filter into the generator
5. Replace the air filter housing.
6. Replace the large maintenance cover.



Air Filter Core



## 8. MAINTENANCE (CONT...)

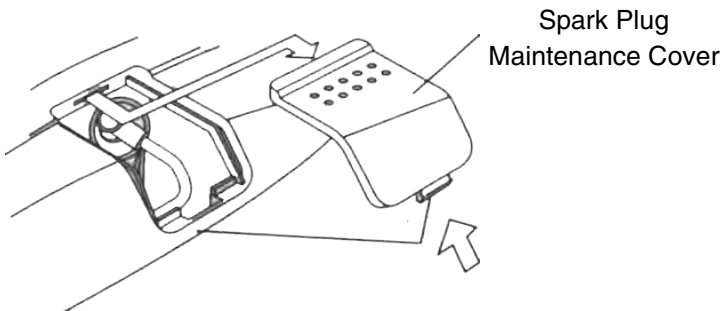
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### SPARK PLUG MAINTENANCE

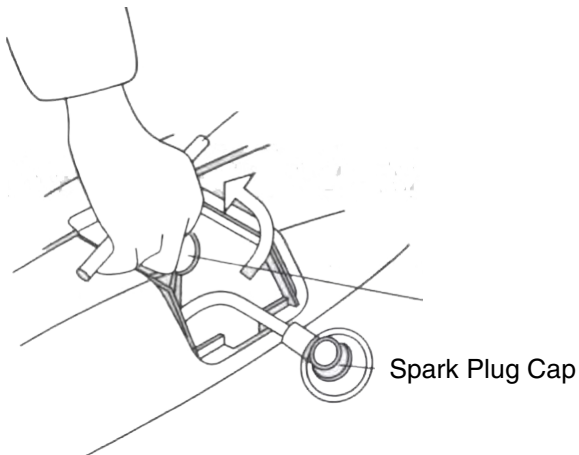
#### RECOMMENDED SPARK PLUG: A7RC

To ensure continued operation of the generator you should ensure that the spark plug is in good condition and there is no accumulation of deposits on it.

1. Dismantle the small maintenance cover on the top of the generator.



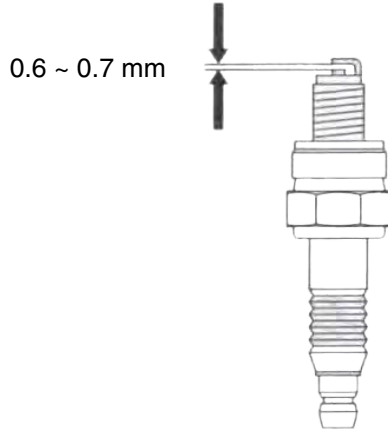
2. Remove the cap covering the spark plug.
3. Remove any dirt surrounding the base of the spark plug.
4. Remove the spark plug with a spanner.



## 8. MAINTENANCE (CONT...)

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5. Check the spark plug with a naked eye. If there is excessive build-up of deposits, dispose of the spark plug and replace with a new one.
6. Measure the clearance of the spark plug. It should be between 0.6mm and 0.7mm.



7. Screw the new spark plug into place by hand being careful not to cross thread the threads. Once finger tight, use the spanner to tighten.
8. Replace the spark plug cap.
9. Replace the small maintenance cover.



- The spark plug must be firmly tightened in place. Failure to tighten sufficiently can cause excessive heat which can damage the generator.

## 9. TRANSPORT AND STORAGE

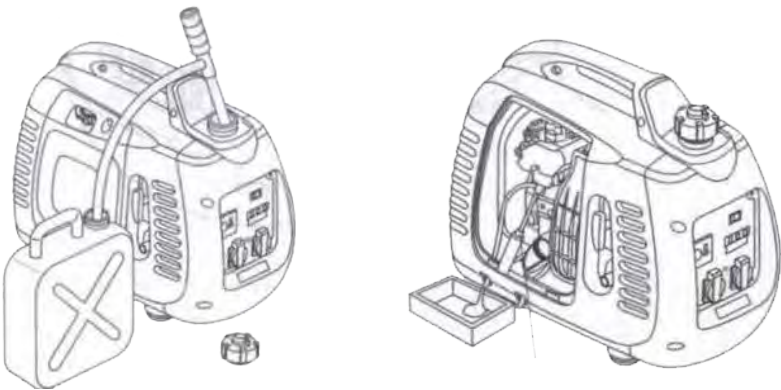
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When storing or transporting the generator ensure it is in an upright and level position to avoid spillage of fuel and oil. Ensure that fuel cap is securely closed and the vent is in the closed position. In addition ensure that the oil filler cap is securely tightened and the generator has not be over filled with oil.

|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>WARNING</b> | <ul style="list-style-type: none"><li>- If fuel or oil leaks from the generator ensure you clean the generator and surrounding area before operating the generator.</li><li>- Do not run the generator in a moving vehicle.</li><li>- When transporting or storing the generator ensure that it is in a cool dry place. Do not leave in direct sunlight.</li><li>- Remove fuel if you plan to drive off road or on uneven roads.</li></ul> |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### LONG TERM STORAGE

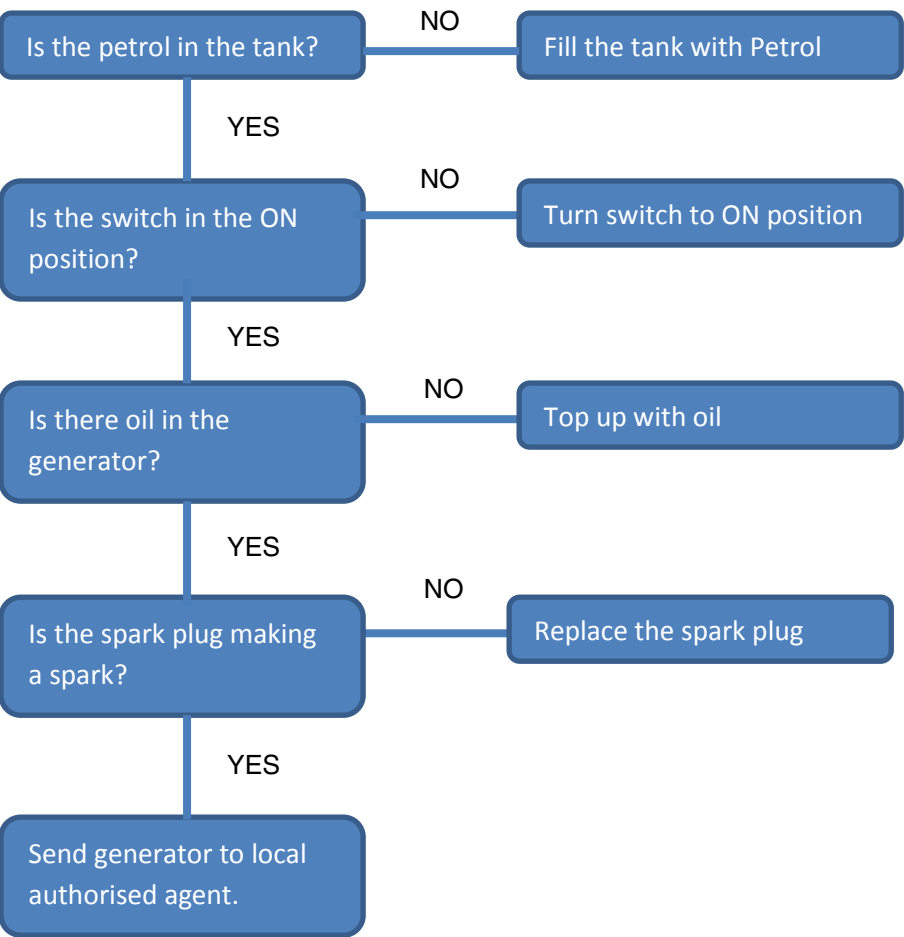
1. ONLY store in a cool dry place.
2. Drain all petrol (gasoline) from the generator, including the fuel in the carburettor.



# 10. TROUBLESHOOTING

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## GENERATOR NOT STARTING



## 11. TECHNICAL SPECIFICATIONS

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### MODEL: BP2S

| DIMENSIONS               |                            |
|--------------------------|----------------------------|
| LENGTH:                  | 555 mm                     |
| WIDTH:                   | 305 mm                     |
| HEIGHT:                  | 160 mm                     |
| NET WEIGHT:              | 26.5 kgs                   |
| ENGINE                   |                            |
| MODEL:                   | 160F                       |
| ENGINE TYPE:             | 4 Stroke / Single Cylinder |
| COMPRESSION:             | 8.8:1                      |
| RPM:                     | 4300 RPM (Smart Throttled) |
| COOLING:                 | Air Cooled                 |
| IGNITION:                | Recoil Start               |
| TANK SIZE:               | 3.5 l                      |
| SPARK PLUG:              | A7RC                       |
| NOISE LEVEL:             | 64 dB @ 7m                 |
| DISPLACEMENT:            | 113 cc                     |
| ALTERNATOR               |                            |
| FREQUENCY:               | 50 Hz                      |
| VOLTAGE:                 | 230 V (Single Phase)       |
| CURRENT:                 | 7.4 A                      |
| PRIME OUTPUT:            | 1700 Watts                 |
| STANDBY OUTPUT:          | 2000 Watts                 |
| DC OUTPUT:               | 12V 6A                     |
| INVERTER:                | Yes                        |
| NOISE LEVEL (NO LOAD):   | 59 dB @ 7m                 |
| NOISE LEVEL (FULL LOAD): | 64 dB @ 7m                 |

All ratings are approximate and are subject to change without prior notice.