

## **3KVA DUAL VOLTAGE GENERATOR**

MODEL NO: PG3800ADV

PART NO: 8857854

# OPERATION & MAINTENANCE INSTRUCTIONS



LS1016

#### INTRODUCTION

Thank you for purchasing this CLARKE 3KVA Dual Voltage Generator.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

#### **GUARANTEE**

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

#### **ENVIRONMENTAL RECYCLING POLICY**



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

#### **GENERAL SAFETY RULES**



WARNING: EXHAUST FUMES CAN BE EXTREMELY DANGEROUS IF INHALED

#### **WORK AREA**

- · Always use in a well ventilated area.
- Always position the exhaust outlet away from people.
- Never use indoors or in a confined space.
- Read these safety instructions before using the equipment.
- · Keep children away from the generator.

#### POSITIONING THE GENERATOR

- Always leave a least a 1m gap between the generator and any surrounding building or structures.
- 2. **Always** ensure the generator is on a solid, flat surface.
- 3. **Always** ensure the surrounding area is free from any material that could burn or be damaged by heat.
- 4. **Never** move or tilt the generator whilst it is switched on.

#### FIRE PREVENTION

- 1. **Always** switch the engine OFF when refuelling.
- 2. **Always** refuel away from any source of heat.
- 3. **Always** refuel in a well ventilated area.
- 4. Only use standard unleaded petrol.
- Never overfill the tank, fill to the level specified (See "Checking the fuel level" on page 11.).
- Never smoke whilst refuelling and avoid smoking or using a naked flame near the generator.
- 7. **Never** start the engine if there is spilled fuel. Any spillage must be wiped clean and the generator allowed to dry before attempting to start the engine.

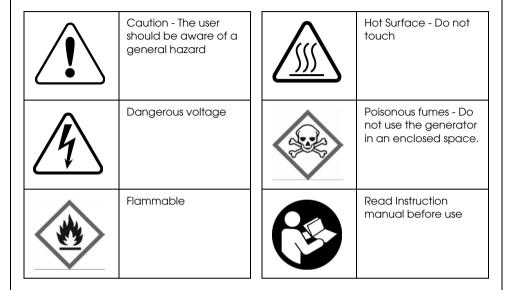
#### PREVENTION OF ELECTRIC SHOCK

- Never use the generator in wet conditions unless it is well protected/ covered. Under these conditions, adequate ventilation MUST be provided.
- 2. **Never** operate the generator with wet hands.
- 3. **Never** use water or any other liquids to clean the generator.

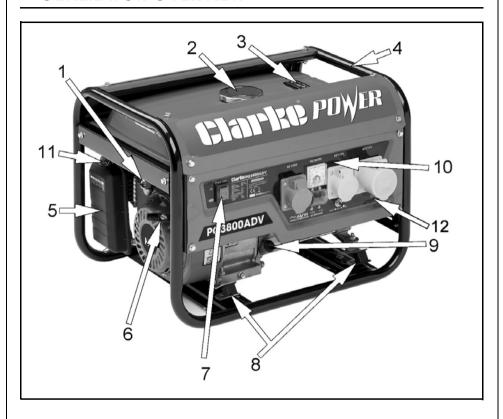
#### ADDITIONAL SAFETY RULES FOR GENERATORS

- Always ensure the applied load does not exceed the generator rating.
   Overloading the generator is dangerous and could cause serious damage.
- 2. **Always** disconnect the generator when carrying out any maintenance.
- Always ensure the generator reaches operating speed before connecting a load.
- 4. **Never** allow the generator to run out of fuel when a load is connected.
- 5. **Never** transport the generator with fuel in the tank.
- Do Not connect to a commercial or residential power supply; e.g. ring main.
- 7. **Never** allow the generator air vents to become blocked.

### **SAFETY SYMBOLS**



## **GENERATOR OVERVIEW**



NO	DESCRIPTION	NO	DESCRIPTION
1	Fuel Supply Valve	7	Engine Switch
2	Fuel Tank Cap	8	Anti-vibration Mounts
3	Fuel Level Gauge	9	Oil Dipstick
4	Frame	10	Control Panel
5	Air Filter	11	Choke Lever
6	Starting Handle (recoil/pull start)	12	Earth Point

#### **UNPACKING AND ASSEMBLY**

Unpack your generator and check to ensure the following items are present. Should there be any deficiency or damage caused during transit contact your CLARKE dealer immediately.

The Generator	Spark plug box spanner
Tommy bar	

#### BEFORE USING THE GENERATOR

Attach a suitable earth lead to a good earthing point - water pipe, ground spike etc., whenever you use this generator.

Before using your generator check that:

- The generator is in good condition and free from any damage.
- The generator is clean and free from fuel or oil spillage.
- The generator is correctly located for use (See page 3).
- The fuel system is intact and there is no leakage.

**NOTE:** Always use a funnel to fill the fuel tank to avoid accidental spillage of fuel. If fuel is spilled it must be cleaned up before use...



WARNING: ENSURE THERE IS ADEQUATE FUEL IN THE TANK WHEN USING THE GENERATOR. RUNNING OUT OF FUEL OR STOPPING THE ENGINE SUDDENLY WITH A LOAD CONNECTED COULD CAUSE SERIOUS DAMAGE.



WARNING: ALWAYS CHECK THE OIL LEVEL BEFORE STARTING SEE PAGE 8, FAILURE TO MAINTAIN THE CORRECT OIL LEVEL MAY SERIOUSLY DAMAGE THE ENGINE.

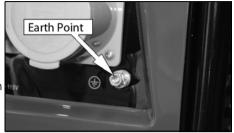
#### **EARTH POINT**



## WARNING: FAILURE TO PROPERLY GROUND THE GENERATOR CAN RESULT IN ELECTROCUTION

 Ground the generator by connecting a suitable grounding wire to the earth point.

NOTE: Connect the other end of the grounding wire to a copper or brass grounding rod that is driven into the earth.



#### CHECKING THE ENGINE OIL LEVEL



WARNING: TO CARRY OUT THIS CHECK, PLACE THE GENERATOR ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.

WARNING: TAKE CARE NOT TO TOUCH ANY HOT PARTS OF THE GENERATOR WHEN CHECKING THE OIL LEVEL.

- 1. Turn the dipstick anti-clockwise and remove from the oil fill tube.
- Wipe the dipstick with a clean cloth.
- Insert the dipstick back into the oil fill tube and then remove it again.
   Do not screw in the oil filler cap/ dipstick when doing this.
- If the oil level is at or below the 'L' mark on the dipstick, add oil to the crankcase.
  - Fill until the oil reaches the threads in the oil fill tube.
  - Oil capacity (See page 19).
  - We recommend the use of SAE15W40 oil in this generator. available from your CLARKE dealer.
- 5. Replace the oil filler cap.





#### CHECKING THE FUEL LEVEL

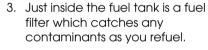
#### RECOMMENDED FUEL

#### Only use standard unleaded petrol.

1. Check the fuel level on the fuel gauge.

The fuel gauge will show as red when you have fuel in the tank turning white as the fuel level decreases.

2. To add fuel, open the fuel filler cap.



 Slowly add fuel to the fuel tank (maximum 15L) watching the fuel level gauge as you do so.





WARNING: ALWAYS REFUEL IN A WELL VENTILATED AREA AWAY FROM ANY HEAT SOURCES.

WARNING: ALLOW THE UNIT TO COOL DOWN BEFORE REFUELLING.

WARNING: DO NOT LEAVE FUEL WITHIN THE REACH OF CHILDREN.

**NOTE**: Do not overfill the fuel tank.

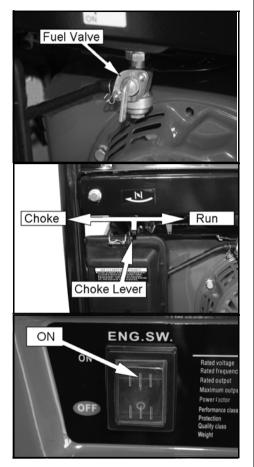
5. Replace the fuel filler cap securely.

### **USING YOUR GENERATOR**

#### STARTING THE ENGINE

- Remove all connections from the AC sockets.
- 2. Set the fuel valve to the ON position as shown.
- 3. Move the choke lever to the 'Choke' position.

4. Set the engine switch to 'ON'.



 Hold the generator steady and pull the starting handle lightly until you start to feel resistance.
 Then pull sharply to start the engine.

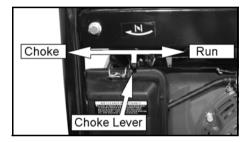
**NOTE:** You may have to do this more than once.





WARNING: ONCE THE GENERATOR HAS STARTED, RELEASE THE STARTING HANDLE SLOWLY TO AVOID INJURY/DAMAGE AS IT RECOILS.

- Once the engine has warmed up, move the choke lever to the "run" position.
  - The generator is now ready to use.



#### CONNECTING ELECTRICAL DEVICES

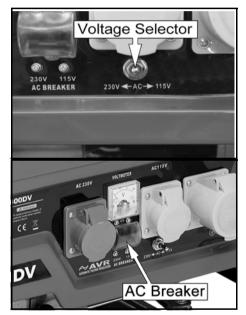
The generator can supply both 230V AC and 115V AC.

The sockets are laid out in the following order: (from left to right):

1 x 16amp 230v (Blue), 1 x 16amp 115v (Small Yellow) and 1 x 32amp 115v (Large Yellow).

- Connect the appliance to the generator starting with the device that draws the most current.
- Select the voltage that you require using the voltage selector switch.





#### **AC BREAKER**

The AC Breaker will activate if the generator is overloaded. If the AC Breaker activates.

- 1. Remove any connected devices from the generator.
- 2. Wait for a few minutes.
- 3. Set the AC breaker to the ON (up) position.

4. Reconnect the devices to the generator, making sure you do not exceed the maximum capacity of the generator.



CAUTION: MAKE SURE THAT THE APPLIANCE BEING CONNECTED IS IN GOOD WORKING ORDER, IF IT BEGINS TO ACT ABNORMALLY OR STOPS SUDDENLY, DISCONNECT IT FROM THE GENERATOR

CAUTION: MAKE SURE THE APPLIANCE DOES NOT EXCEED THE MAXIMUM RATED LOAD FOR THE GENERATOR.

CAUTION: ANY DEVICE WHICH CONTAINS AN INDUCTIVE LOAD E.G. DEVICES THAT CONTAIN A MOTOR MAY REQUIRE MORE CURRENT ON STARTUP.

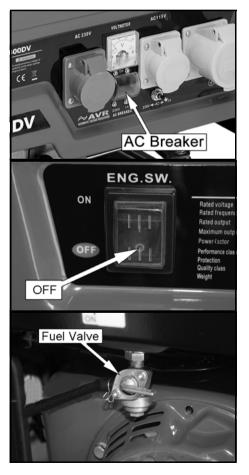
#### SHUTTING DOWN THE GENERATOR

To stop the generator in an emergency simply set the engine switch to 'OFF'.

- 1. Turn off and disconnect any electric devices.
- 2. Make sure that the AC breaker is set to the off (down) position.

Set the engine switch to the "0" (OFF) position.

4. Turn the fuel valve knob to "OFF".



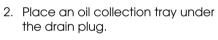
#### **MAINTENANCE**

#### CHANGING THE ENGINE OIL



CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

 Unscrew and remove the oil filler cap/dipstick.



- Unscrew the drain plug and allow the used engine oil to drain from the crankcase into the oil collection tray.
  - **NOTE:** Drain the engine oil when the engine is warm, this will ensure the oil flows out faster.
- 4. Replace the drain plug.
- 5. Fill the crankcase with engine oil.
  - Fill until the oil reaches the threads in the oil fill tube.
  - Oil capacity (See page 19.).
  - We recommend the use of SAE15W40 oil in this generator, available from your CLARKE dealer.
- 6. Replace the oil filler cap/dipstick.

#### **ENVIRONMENTAL PROTECTION**

One of the most damaging sources of pollution is oil, Do not throw away used engine oil in with your domestic rubbish or pour it down drains and sinks. Place it in a leak proof container and take it to your local waste disposal site.



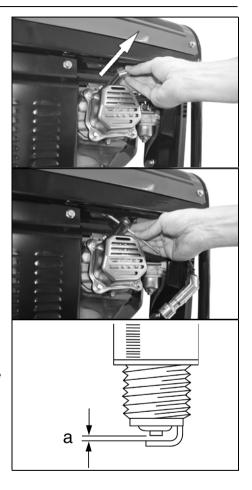
#### CHANGING THE SPARK PLUG



CAUTION: ALLOW THE ENGINE TO COOL BEFORE REMOVING THE SPARK PLUG.

1. Remove the spark plug cap from the spark plug.

- Use the spark plug spanner supplied to remove the spark plug.
- Remove any carbon that has accumulated around the electrode.
- 4. Check the spark plug gap (a), it should be between 0.7 and 0.8 mm, adjust if necessary.
- Check the overall condition of the spark plug for erosion or pitting and replace if necessary.
- 6. Reinstall the spark plug and replace the spark plug cap.



#### CHECKING THE AIR FILTER



CAUTION: DO NOT USE THE GENERATOR WITHOUT THE AIR FILTER FITTED, THIS CAN DAMAGE THE GENERATOR.

Unclip and remove the air filter cover.

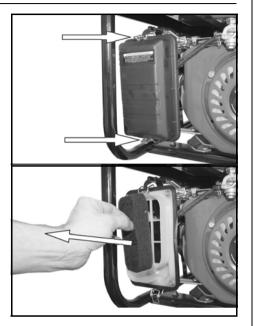
- 2. Remove the air filter element.
- 3. Make sure that the air filter is clean and not damaged.
  - If the air filter is damaged contact CLARKE spare parts department for a replacement.
  - If the filter is dirty, wash in a solution of warm water and mild detergent and rinse thoroughly. Leave the filter to

dry completely, once it is dry immerse in clean engine oil and squeeze to remove excess oil.



WARNING: DO NOT USE INFLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.

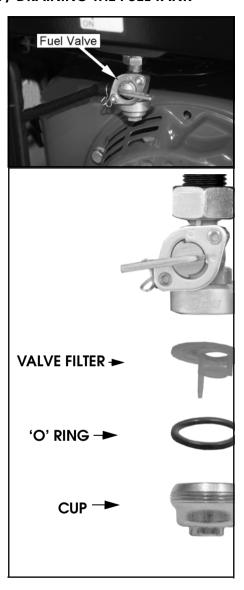
4. Replace the filter to its original position and replace the air filter cover.



#### CLEANING THE FUEL VALVE FILTER / DRAINING THE FUEL TANK

1. Set the fuel supply valve to OFF.

- Unscrew and remove the cup, then remove the valve filter and 'O' ring.
- Wash these parts in a noninflammable solvent. Make sure that the valve filter is not damaged.
- Place an approved petrol storage container under the fuel valve and set the fuel supply valve to 'ON'.
  - The fuel in the tank will drain into the container.
- Replace the 'O' ring and valve filter and tighten the cup as far as possible.



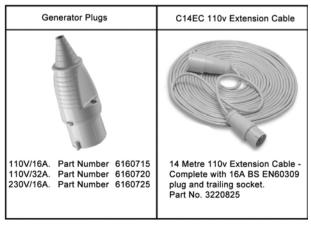
### **TROUBLESHOOTING**

PROBLEM	CAUSE	SOLUTION
The generator fails	Ignition switch is off	Set the ignition switch to 'on'
to start	Not enough oil in the generator	Add more oil, See page 8
	No fuel	Add more fuel, See page 9
	Spark plug not working correctly	Change the spark plug, See page 15
The generator fails to generate electricity	The device you are trying to power is faulty	Make sure the device you want to power is working properly
	The AC breaker is switched off	Switch the AC breaker on
The generator is	The air filter is dirty	Clean the air filter, See page 16
difficult to start	The fuel filter is blocked	Clean the fuel filter, See page 17

If this does not solve your problem, please contact the CLARKE service department.

#### **OPTIONAL ACCESSORIES**

A wide range of optional accessories are available from your CLARKE dealer including:



## **SPECIFICATIONS**

		PG3800ADV
Engine	Engine Model	PT170F1
	Fuel Type	Petrol
	Displacement (cm³)	212 cc
	Max. power output (hp/rpm)	5.6 @ 3000 rpm
	Start system	Hand recoil
	Fuel tank capacity (L)	15
	Fuel consumption (L/hr.)	1.9
	Maximum run time (h) @75% Load	8.2
	Engine oil capacity (L)	0.61
	Guaranteed sound power (LwA dB)	96
Generator	Rated Frequency (Hz)	50
	AC Output Voltages (V)	230V (16A), 115V (16A), 115V (32A)
	Rated Power (W)	2700
Dimensions	Length (mm)	600
	Width (mm)	480
	Height (mm)	445
	Unpacked Weight (kg)	43.75

## **EXPLODED DIAGRAM** 18-

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

## **PARTS LIST**

No	Description	No	Description
1	Switch	20	Bolt M6x25
2	Panel	21	Fuel Filler Cap
3	230V/16A Socket	22	Fuel Filter
4	Circuit Breaker	23	Screw M5x12
5	Screw M3x8	24	Fuel Gauge
6	115V/16A Socket	25	Fuel Valve
7	Voltage Selector	26	Frame
8	115V/32A Socket	27	Cross Beam
9	Bolt M4x12	28	Anti Vibration Foot (LH)
10	Bolt Móx12	29	Flange Nut M8
11	Earth Bolt	30	Rubber Feet
12	Panel Back Cover	31	Anti Vibration Foot (RH)
13	Wiring Loom	32	Back Guard Plate
14	Voltmeter	33	Flange Bolt M6x12
15	Engine	34	Side Guard Plate
16	Generator	35	Flange Bolt M6x12
17	Fuel Tank	36	Flange Bolt M6x35
18	Rubber Gasket	37	Upper Guard Plate
19	Washer		

### **DECLARATION OF CONFORMITY**





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This is an important document and should be retained.

Product Description: PG3800ADV, Generator, Petrol Powered.

 Model number(s):
 PG3800ADV

 Serial / batch Number:
 8857854

 Date of Issue:
 12/09/2019

(Noise Conformity)

Notified Body: TUV SUD Industria Service GmbH

80686 München Westendstraße 199

Germany

Technical Documentation Holder: Alan Pond

Clarke International 2a Shrubland Road London E10 7RB

UK

Conformity Assessment Procedure: to 2000/14/EC Annex VI

Manufacturer: Clarke International

Noise Related Value: 2.7 kW
Measured Sound Power Level: 94dB
Guaranteed Sound Power Level: 96dB

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#### **DECLARATION OF CONFORMITY**





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This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2006/42/EC Machinery Directive.

2014/30/EC Electromagnetic Compatibility Directive.

2000/14/EC Noise Emissions Directive, (amended by 2005/88/EC).

2016/1628 (EU) Emission of Gaseous Particulates Regulation, (with amendments).

The following standards have been applied to the product(s):

EN 55012:2007+A1:2009, EN 61000-6-1:2007, EN 12601:2010.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2015

Signed:

J.A. Clarke Director

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PARTS & SERVICE: 0208 988 7400

E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

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