Clarke®

5.5KVA GENERATOR

MODEL NO: PG6500DVES

PART NO: 8857810

OPERATION & MAINTENANCE INSTRUCTIONS

CE

LS0616

INTRODUCTION

Thank you for purchasing this CLARKE 5.5KVA 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

1. ***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.
5. ***Never*** overfill the tank, fill to the level specified (See "Checking the fuel level" on page 11.).
6. ***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

1. ***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

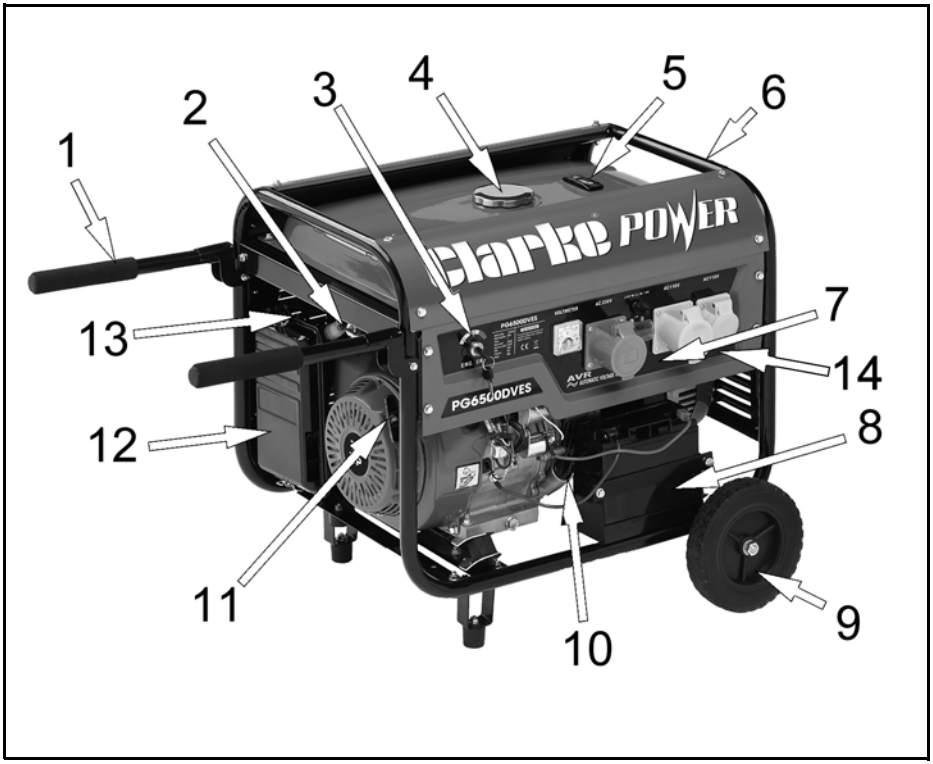
1. ***Always*** ensure the applied load does not exceed the generator rating. Overloading the generator is dangerous and could cause serious damage.
2. ***Always*** disconnect the generator when carrying out any maintenance.
3. ***Always*** ensure the generator reaches operating speed before connecting 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.
6. ***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

	Caution - The user should be aware of a general hazard		Poisonous fumes - Do not use the generator in an enclosed space.
	Dangerous voltage		Read Instruction manual before use
	Flammable		Corrosive material
	Hot Surface - Do not touch		Explosive risk

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

GENERATOR OVERVIEW



NO	DESCRIPTION	NO	DESCRIPTION
1	Handles	8	Battery
2	Fuel Supply Valve	9	Wheel
3	Ignition Switch	10	Dipstick
4	Fuel Tank Cap	11	Starting Handle
5	Fuel Level Gauge	12	Air Filter
6	Frame	13	Choke Lever
7	Control Panel	14	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.

1 x 5kW Petrol Generator	2 x Handle c/w fixings
1 x Axle c/w nuts & washers	1 x Spark Plug Box Spanner
2 x Wheel	1 x Tommy Bar
2 x Axle Brackets c/w fixings	1 x Pair of Ignition keys
2 x Foot Assembly c/w fixings	

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.

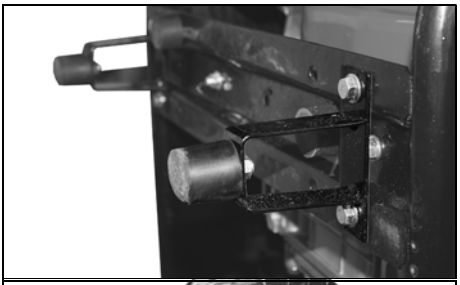
NOTE: Always use a funnel to fill the fuel tank to avoid accidental spillage of fuel. If fuel is spilled it must be cleaned up before use.

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 10, FAILURE TO MAINTAIN THE CORRECT OIL LEVEL MAY SERIOUSLY DAMAGE THE ENGINE.

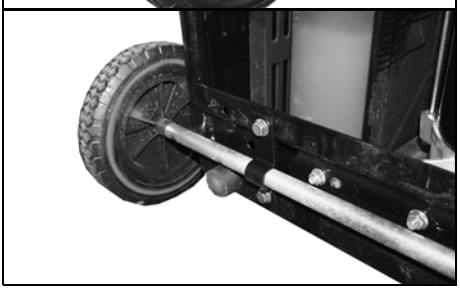
FITTING THE WHEELS/FEET

1. Lay the generator on its front and attach the 2 feet to the frame using 4 x short bolts, 4 x washers, 4 x spring washers and 4 x nuts.
2. Slide both wheels on to the axle.



3. Secure the wheel to the axle using the nut provided.

4. Place the axle against the frame on the generator as shown.
5. Fix the axle to the frame using 2 x long bolts, 2 x washers, 2 x spring washers and 2 x nuts.
6. Carefully place the generator onto its wheels/feet.

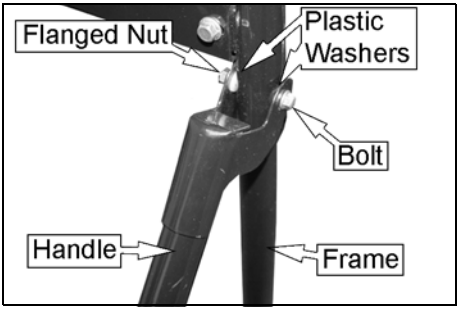


FITTING THE HANDLES

1. Place the handle into position as shown.

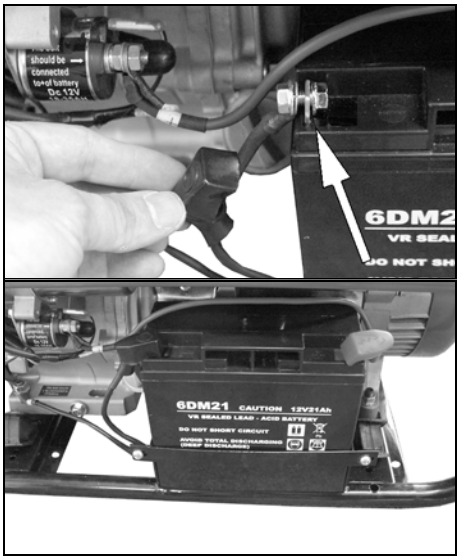
   NOTE: The generator has not been shown in the image for clarity

2. Secure the handle using the flanged nut and bolt supplied
   - Making sure that the 2 plastic washers are inserted between the handle and frame as shown.



CONNECTING THE BATTERY

- Connect the negative wire to the negative terminal on the battery as shown on the right.
- Connect the positive wire to the positive terminal on the battery.
- Ensure both terminals are covered by the plastic covers as shown.

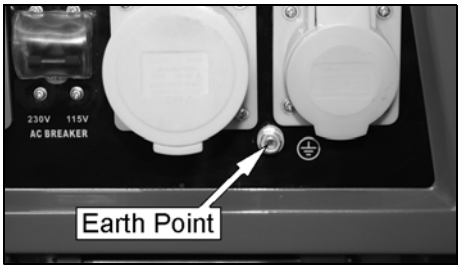


EARTH POINT

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

1. 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.

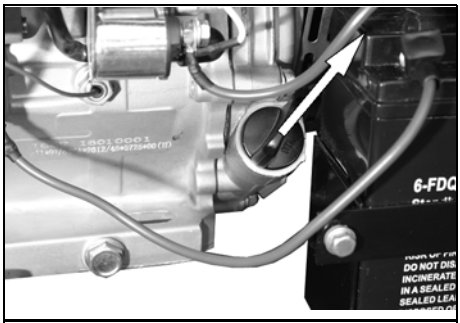


CHECKING THE ENGINE OIL LEVEL

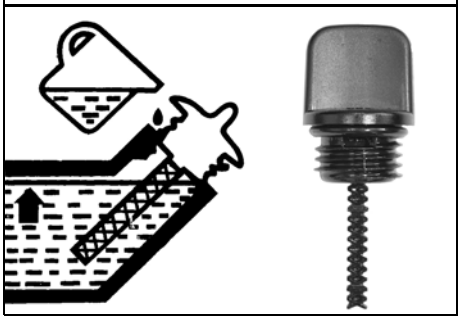
WARNING: TO CARRY OUT THIS CHECK, PLACE THE GENERATOR ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.

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.
2. Wipe the dipstick with a clean cloth.
3. 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.



4. 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 21).
   - We recommend the use of SAE15W40 oil in this generator. available from your Clarke dealer.



5. Replace the oil filler cap.

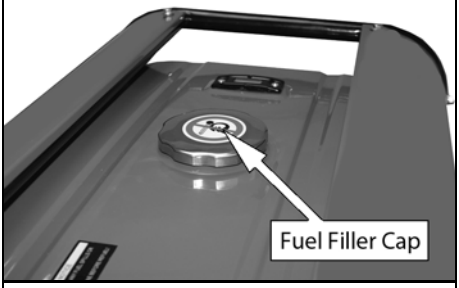
CHECKING THE FUEL LEVEL

RECOMMENDED FUEL

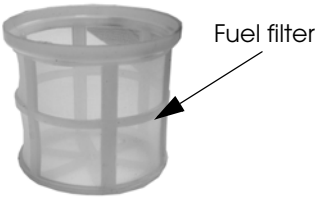
Only use standard unleaded petrol.

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.



3. Just inside the fuel tank is a fuel filter which catches any contaminants as you refuel.
4. Slowly add fuel to the fuel tank (maximum 25L) 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.

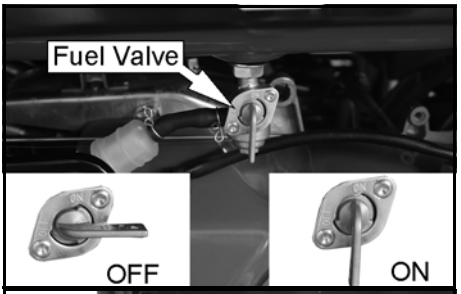
NOTE: Do not overfill the fuel tank.

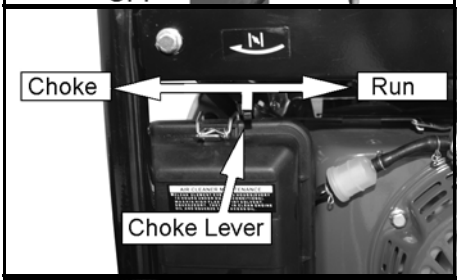
5. Replace the fuel filler cap securely.

USING YOUR GENERATOR

STARTING THE ENGINE

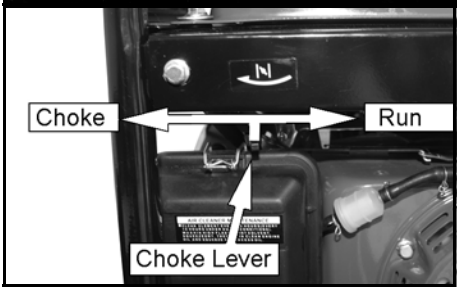
1. Remove all connections from the AC sockets.
2. Set the fuel valve to the ON position as shown.
3.
4. Move the choke lever to the 'Choke' position.





5. Insert the key into the ignition.
6. Turn and hold the key in the START position.
7. Once the engine starts to run turn the key back to the RUN position.

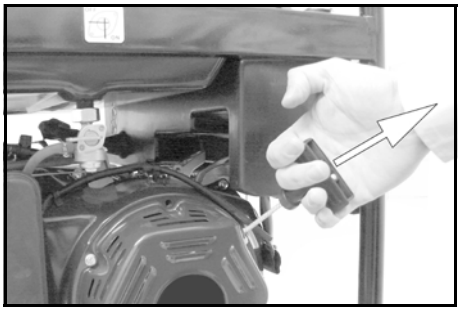
8. Once the engine has warmed up, set the choke lever to the Run position.



BACKUP STARTING PROCEDURE

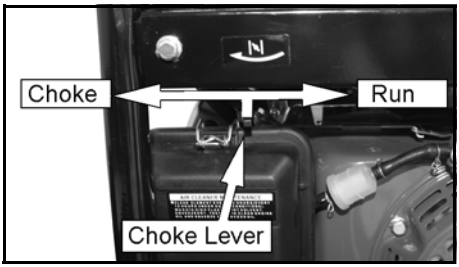
If for any reason the engine will not start using the above procedure, you can start your generator manually by carrying out the following.

1. Follow steps 1-4 in the previous section.
2. Set the ignition key to the ON position.
3. Hold the generator steady and pull the starting handle lightly until you start to feel resistance. Then pull sharply to start the engine.
   - 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.

4. Once the engine has warmed up, move the choke lever to the "run" position.



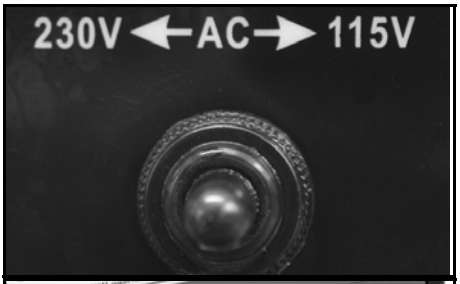
CONNECTING ELECTRICAL DEVICES

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

1. Connect the appliance to the generator starting with the device that draws the most current.
2. 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

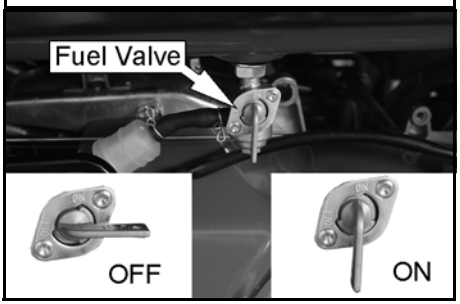
To stop the generator in an emergency simply set the engine switch to 'OFF'.

NOTE: Turn off any electric devices.

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

3. Turn the ignition key to the OFF position.

4. Turn the fuel valve to "OFF".

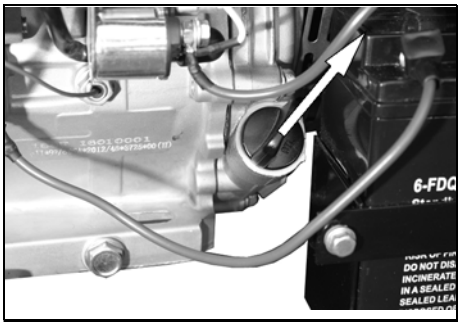


MAINTENANCE

CHANGING THE ENGINE OIL

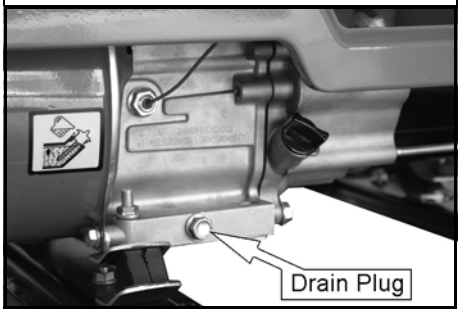
CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS HARMFUL, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

1. Unscrew and remove the oil filler cap/dipstick.
2. Place an oil collection tray under the drain plug.



3. Place an oil collection tray under the drain plug.
4. 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.



5. Replace the drain plug.
6. Fill the crankcase with engine oil.
   - Fill until the oil reaches the threads in the oil fill tube.
   - Oil capacity (See page 21.).
   - We recommend the use of SAE15W40 oil in this generator, available from your Clarke dealer.
7. Replace the oil filler cap/dipstick.

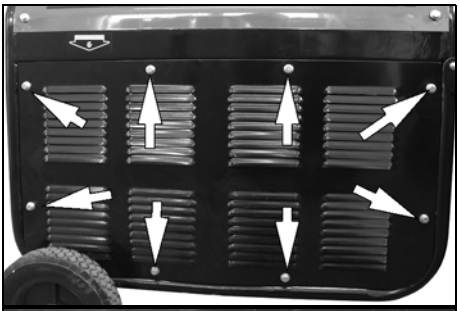
ENVIRONMENTAL PROTECTION

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 or sinks. Place it in a leak proof container and take it to your local waste disposal site.

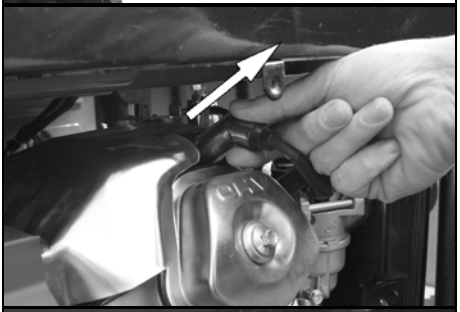
CHANGING THE SPARK PLUG

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

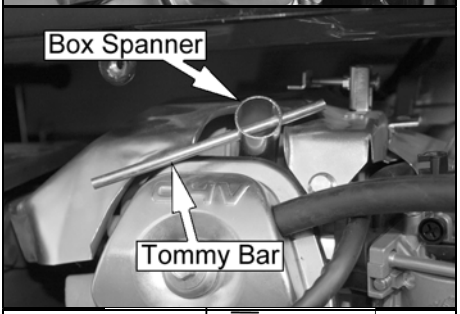
1. Remove the Side Panel bolts and remove the side panel



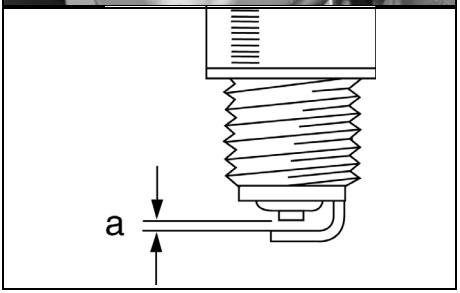
2. Remove the spark plug cap from the spark plug.



3. Use the spark plug spanner supplied to remove the spark plug.
4. Remove any carbon that has accumulated around the electrode.



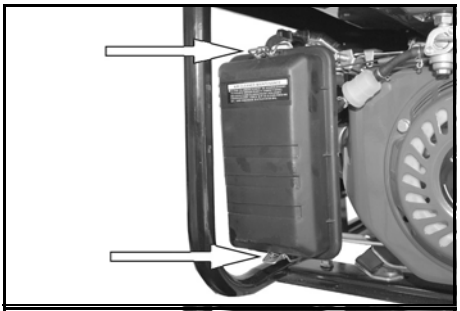
5. Check the spark plug gap (a), it should be between 0.7 and 0.8 mm, adjust if necessary.
6. Check the overall condition of the spark plug for erosion or pitting and replace if necessary.
7. Reinstall the spark plug and replace the spark plug cap.



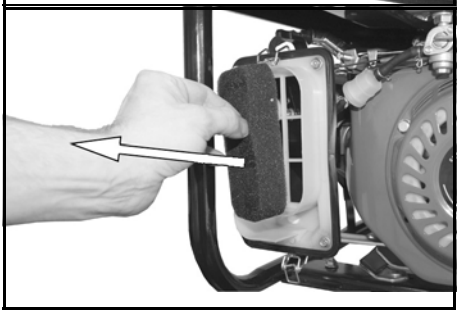
CHECKING THE AIR FILTER

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

1. 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.

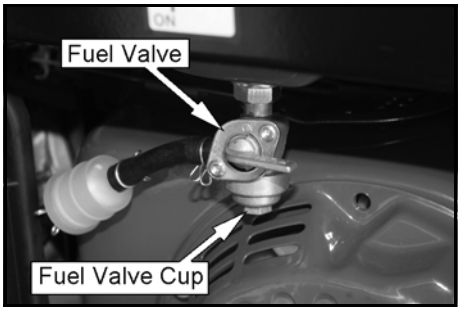


WARNING: DO NOT USE INFLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.

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

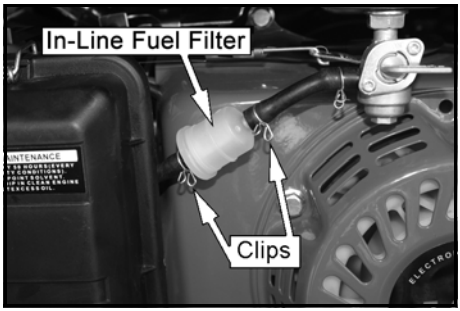
DRAINING THE FUEL TANK

1. Set the fuel supply valve to OFF.
2. Unscrew and remove the fuel valve cup, then remove the 'O' ring.
3. 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.
4. Replace the 'O' ring and fuel valve cup.



REPLACING THE IN-LINE FUEL FILTER

1. Set the fuel supply valve to OFF.
2. Remove the clip at each end of the in-line fuel filter.
3. Remove the hoses from the in-line fuel filter.
4. Replace the in-line fuel filter.
   - Take note of the flow direction on the in-line fuel filter as you replace it.
5. Reconnect the hoses and replace the clips.



TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The generator fails to start	Ignition switch is off	Set the ignition switch to 'on'
	Not enough oil in the generator	Add more oil, See page 10
	No fuel	Add more fuel, See page 11
	Spark plug not working correctly	Change the spark plug, See page 17
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 difficult to start	The air filter is dirty	Clean the air filter, See page 18
	The fuel filter is blocked	Clean the fuel filter, See page 19

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

OPTIONAL ACCESSORIES

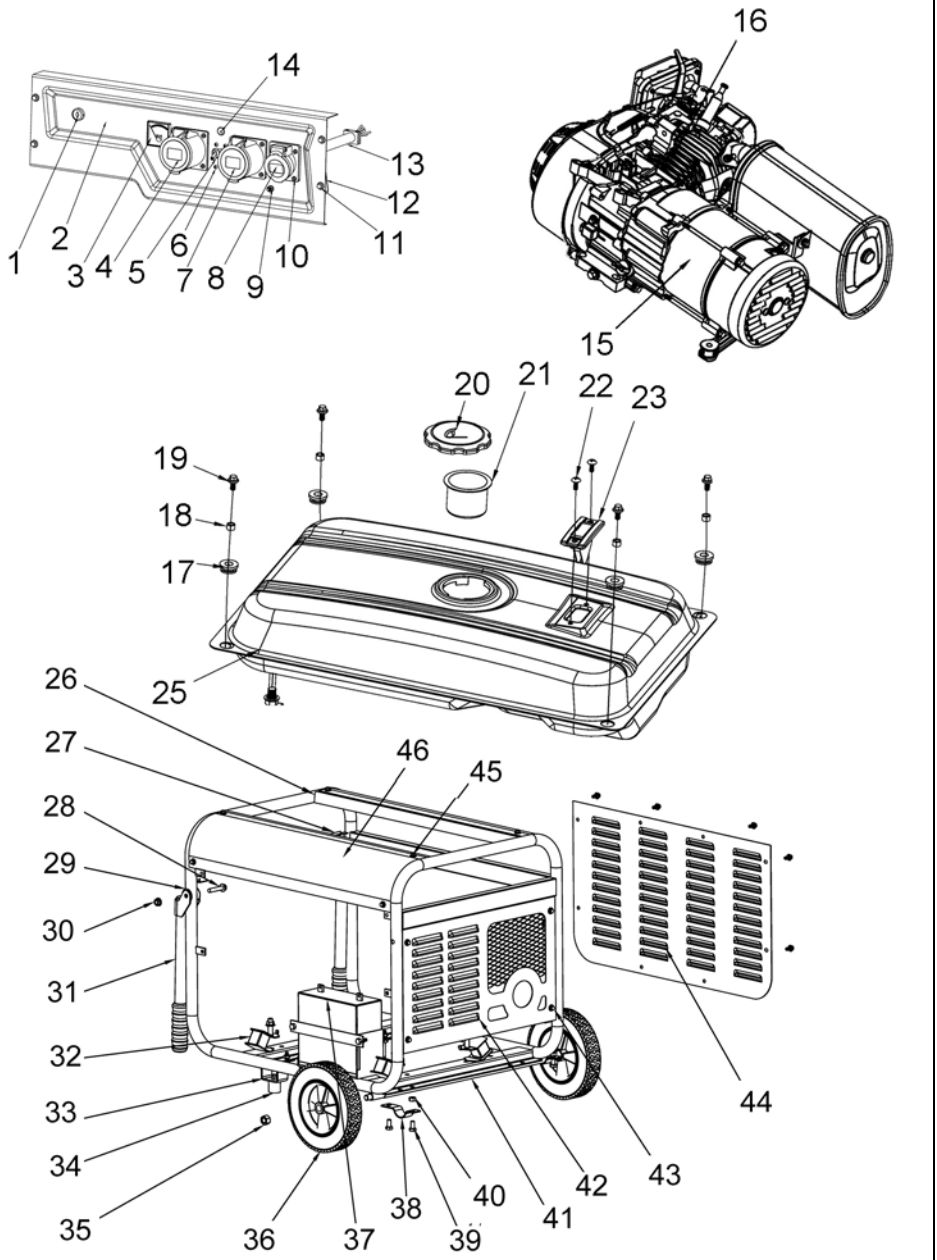
A wide range of optional accessories are available from your Clarke dealer including:

Generator Plugs	C14EC 110v Extension Cable
	
110V/16A. Part Number 6160715 110V/32A. Part Number 6160720 230V/16A. Part Number 6160725	14 Metre 110v Extension Cable - Complete with 16A BS EN60309 plug and trailing socket. Part No. 3220825

SPECIFICATIONS

		PG6500DVES
Engine	Engine Model	PT188F
	Fuel Type	Petrol
	Displacement (cm^3)	389
	Max. power output (HP/rpm)	13/3600
	Start system	Hand Recoil / Electric Start
	Fuel tank capacity (L)	25
	Fuel consumption (L/hr.)	3
	Maximum run time (h) @75% Load	8
	Engine oil grade	SAE 15W40
	Engine oil capacity (L)	1.1
	Guaranteed sound power (L_{WA} dB)	97
Generator	Rated Frequency (Hz)	50
	AC Output Voltage (V)	230V AC ~1P-50Hz 115V AC -1P-50Hz
	Rated Power (W)	5500
Dimensions	Length (mm)	727
	Width (mm)	630
	Height (mm)	647
	Unpacked Weight (kg)	88.75

EXPLODED DIAGRAM



PARTS LIST

No	Description
01	Switch
02	Panel
03	Voltmeter
04	230V/32A Socket
05	AC Breaker
06	Screw M3x8
07	115V/32A Socket
08	115V/16A Socket
09	Earth Bolt
10	Bolt M4x12
11	Bolt M6x12
12	Panel Back Cover
13	Wiring Loom
14	Voltage Switch
15	Generator
16	Engine
17	Rubber Gasket
18	Washer
19	Bolt M6x25
20	Fuel Filler Cap
21	Fuel Filter
22	Screw M5x12
23	Fuel Gauge

No	Description
24	Fuel Valve
25	Fuel Tank
26	Frame
27	Cross Beam
28	Bolt M6x40
29	Gasket 6
30	Flange Nut M6
31	Handle
32	Anti Vibration Foot
33	Supporting feet
34	Rubber Feet
35	Flange Nut M12
36	Plastic Wheels
37	Battery
38	Shaft Fixed Bracket
39	Flange Bolt M8x16
40	Flange Nut M8
41	Long Shaft
42	Back Guard Plate
43	Flange Bolt M6x12
44	Side Guard Plate
45	Flange Bolt M6x35
46	Curved Plate

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

Product Description:	PG6500DVES, Generator, Petrol Powered.
Model number(s):	PG6500DVES
Serial / batch Number:	8857820
Date of Issue:	09/06/2016
(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:	5.0 kW
Measured Sound Power Level:	95dB
Guaranteed Sound Power Level:	97dB

DECLARATION OF CONFORMITY

CE

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DECLARATION OF CONFORMITY

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).*
97/68/EC	*Emission of Gaseous Particulates, (amended by 2012/46/EC).*

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

14-06-2016 PG6500DVES 15-0698 DOC (rv1)

Page 2 of 2

ADDITIONAL PRODUCTS IN THE CLARKE RANGE

① & ② Inverter Generators

These top quality low noise, portable generators are highly efficient, have 4 stroke engines and feature: ◆ Inverter technology for clean, stable power. ◆ Eco throttle for greater fuel efficiency and low noise ◆ Low oil and overload shutdown.

IG1000 & IG2200 Recommended by ukcampsite.co.uk the online destination for caravanners and campers

① IG1000 1kW Inverter Generator

Lightweight with low noise output ideal for camping, caravanning, boats, markets etc. and can also be used on sensitive equipment such as computers and laptops.

BEST SELLER

◆ Eco Throttle system to keep fuel consumption and noise to a minimum ◆ 12v battery charging facility (12v DC@ 5amps) ◆ Includes standard 13amp, 230v socket ◆ 1000W max, 900W continuous output
◆ Low oil shutdown
◆ Overload shutdown
◆ Weight 15kg
◆ Dimensions 460x250x420mm
Part No. 8877050

VIDEO ON-LINE

Quiet Running (Only 64 dB(A) at 1/4 Load at 7 Metres)

① IG1000

① & ②

① - ② Include Standard 13amp, 230v Socket

4 Stroke Engine
Not To Be Confused With Noisier Oil Burning 2 Stroke Units

② IG2200 2.2kW Inverter Generator

With a maximum output of 2.2kW and continuous output of 2.0kW this generator is suitable for trade and leisure use. It is ideal for powering computers & sensitive equipment. This model includes:

◆ Two 13amp, 230v sockets.
◆ 12v battery charging facility (12v DC @ 8.3amps)
◆ Dimensions: 542x288x486mm
Part No. 8877055

VIDEO ON-LINE

Quiet Running (Only 60.5 dB(A) at 1/4 Load at 7 Metres)

② IG2200

Items ① & ② - Inverter Technology Produces Pure, Stable Power - Essential For Computers & Sensitive Equipment

③ Petrol Generator - G720

◆ A portable, compact and lightweight generator. Ideal for caravanning, camping, boating & emergency home use ◆ Air cooled 2 stroke engine ◆ 720w maximum power output /650w continuous output ◆ 5.8 running hours @ 3/4 load
◆ 4.2 litres Fuel tank capacity
◆ 12V battery charging facility (12V DC @ 5.3amps)
◆ 230V AC (13amp) socket
◆ Anti-vibration rubber feet, carry handle & recoil starter
◆ Weight 17kg
◆ Dims (LWH): 380x312x362mm
Part No. 8857800

Quiet Running (Only 65 dB(A) at 1/4 Load at 7 Metres)

③ G720

④ Petrol Generator - G1200

◆ Ideal for camping, caravanning, boating, markets, emergency home use etc ◆ Air cooled 4 stroke petrol engine ◆ 1100w maximum power output /1000w continuous output ◆ Running time of up to 5.5 hours @ 3/4 load ◆ 4 litres Fuel tank capacity ◆ 12V battery charging facility (12V DC @ 8.3amps)
◆ Standard 230V (13amp) 3 pin socket
◆ Easy recoil start
◆ Overload circuit breaker
◆ Fuel level indicator
◆ Low oil level cut-out
◆ Anti-vibration /anti-slip feet
◆ Compact design with carry handle
◆ Weight 25kg ◆ Dims (LWH): 443x338x332mm
Part No. 8010110

④ 4 Stroke Engine
Not To Be Confused With Noisier Oil Burning 2 Stroke Units

④ G1200

Model No.	Max Output Watts	Continuous Output Watts	Voltage AC	Output DC	13A 230v Sockets	Fuel Tank Capacity Litres	Running Time On Full Tank @ 3/4 Load	dB(A) (1/4 Load)	Weight kg	Part No.
① IG1000	1000	900	230v	12v-5A	1	2.7	6 hours	64	15	8877050
② IG2200	2200	2000	230v	12v-8.3A	2	7	7 hours	60.5	26.6	8877055
③ G720	720	650	230v	12v-5.3A	1	4.2	5.8 hours	65	17	8857800
④ G1200	1100	1000	230v	12v-8.3A	1	4	5.5 hours	68	25	8010110

Quiet Running (Only 68 dB(A) at 1/4 Load at 7 Metres)

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accesories.

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Prime duty or emergency standby for business, home and leisure.

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Clarke® INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com