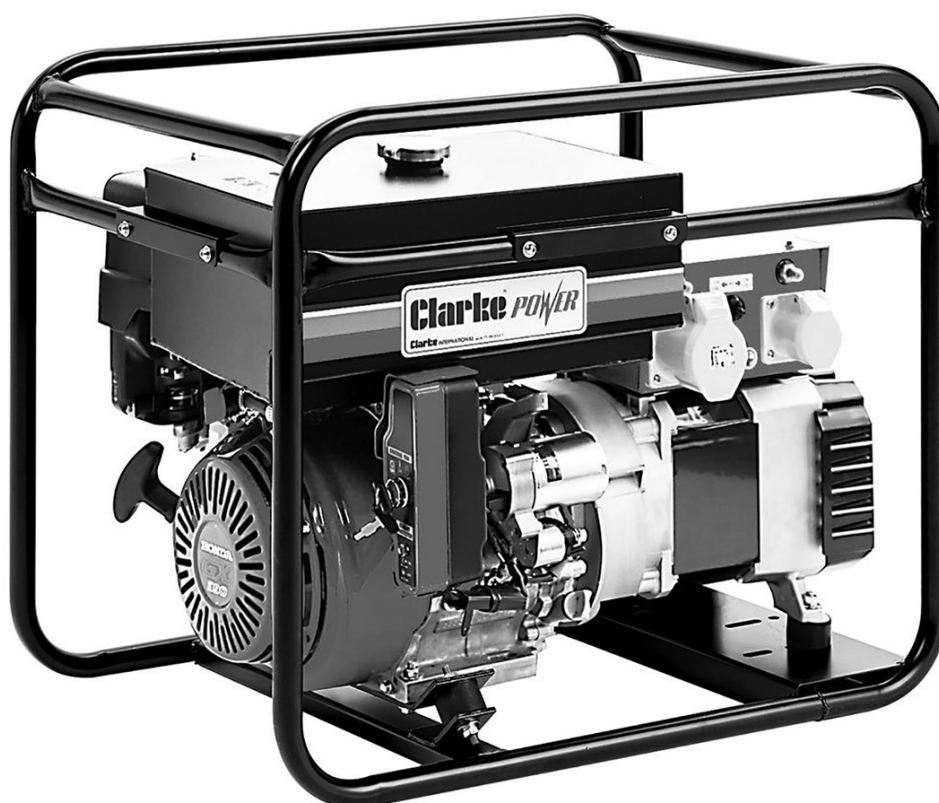


# Clarke®

## POWER



## GENERATOR

MODEL NO: CP6550NESLR

PART NO: 8857685

## OPERATION & MAINTENANCE INSTRUCTIONS

UK  
CA | CE



ORIGINAL INSTRUCTIONS

GC01/25-REV 1

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## INTRODUCTION

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Thank you for purchasing this CLARKE 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.

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## GUARANTEE

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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.

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## ENVIRONMENTAL PROTECTION

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Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted and taken to a recycling centre for disposal in a manner compatible with the environment.

By purchasing this product, the customer is taking on the obligation to deal with its safe disposal in accordance with the Waste Electrical and Electronic Equipment (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. If disposing of this product or any damaged components, do not dispose of with general waste. This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling of metal products.

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# GENERAL SAFETY RULES

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**WARNING: EXHAUST FUMES CAN BE EXTREMELY DANGEROUS IF INHALED**

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## WORK AREA

1. **ALWAYS** use in a well ventilated area.
2. **ALWAYS** position the exhaust outlet away from people.
3. Read these safety instructions before using the equipment.
4. Keep children and animals away from the generator.

## FIRE PREVENTION

1. **ALWAYS** switch the engine OFF when re-fuelling.
2. **ALWAYS** refuel in a well ventilated area.
3. **NEVER** overfill the tank, only fill to the level specified.
4. **NEVER** smoke whilst re-fuelling and avoid smoking or using a naked flame near the generator.
5. **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.
4. Make sure you ground (earth) the generator.

## POSITIONING THE GENERATOR FOR USE

1. **ALWAYS** leave at least a 1 metre gap between the generator and any surrounding building or structure or the engine may overheat.
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.
5. **NEVER** cover or enclose the generator whilst it is in use.
6. Be aware of the weight of the generator, do not attempt to lift or move the generator without the assistance of another person.

## **EXHAUST GAS PRECAUTIONS**

### **WARNING!: EXHAUST FUMES CAN BE FATAL**

1. **ALWAYS** ensure that there is adequate ventilation when using the generator.
2. **ALWAYS** position the generator so that the exhaust is pointing away from people or animals.
3. **NEVER** use the generator indoors or in a enclosed area. (i.e. in warehouse, tunnel, well or a hold).

## **ADDITIONAL SAFETY RULES FOR GENERATORS**

1. **ALWAYS** make sure 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** allow the generator to reach 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. **NEVER** connect the generator to a commercial or residential power supply; e.g. ring main.
7. **NEVER** allow the generator air vents to become blocked.
8. **NEVER** alter or tamper with the internal wiring of the generator.
9. **NEVER** touch any part of the engine, alternator or exhaust when the generator is in use as these get hot and could cause burns.
10. **NEVER** allow anyone, not fully familiar with generator sets to use this equipment.
11. This generator set is NOT suitable for use with electronic equipment such as televisions, hi-fi's or computers etc.
12. Connect only those appliances that are in good working order.

**NOTE:** Most portable electric tools are Class II (double insulated) appliances. Always check BEFORE connecting. Equipment that does not meet this standard (i.e. tools with metal casing) require a three conductor cable with an earth conductor.

13. **DO NOT** Alter the engine settings, the voltage and frequency of the generator output is directly linked to the engine speed. These settings are factory set. Should they need re-calibration - consult your CLARKE dealer.

14. Connect only those appliances whose voltage (according to their data plate) corresponds to that produced by the generator.

**IMPORTANT!: This generator uses a floating chassis (refer to technical information sheet).**








Floating earth generators **DO NOT** require earthing.

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## SAFETY SYMBOLS

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The following safety symbols are shown on the product or it's packaging. Please read all of the safety and operating instructions carefully before using this product.

	Read instruction manual before use.		Hot surface - Do not touch
	Dangerous voltage		Poisonous fumes - Do not use the generator in an enclosed space.
	Flammable		Caution - The user should be aware of a general hazard.
	This product produces high noise levels during operation. Ear protection is advised.		

# UNPACKING AND ASSEMBLY

Unpack your generator and check all are present. Should there be any missing or damaged during transit contact your CLARKE dealer.

## BEFORE USING THE GENERATOR

Before using your generator check that the generator is:

- In good condition and free from any damage.
- Is clean and free from fuel or oil spillage or leaks.
- Is correctly located for use.

**NOTE:** To avoid accidental spillage of fuel, always use a funnel to fill the fuel tank. If fuel is spilled it must be wiped up from the unit before attempting to start the engine.

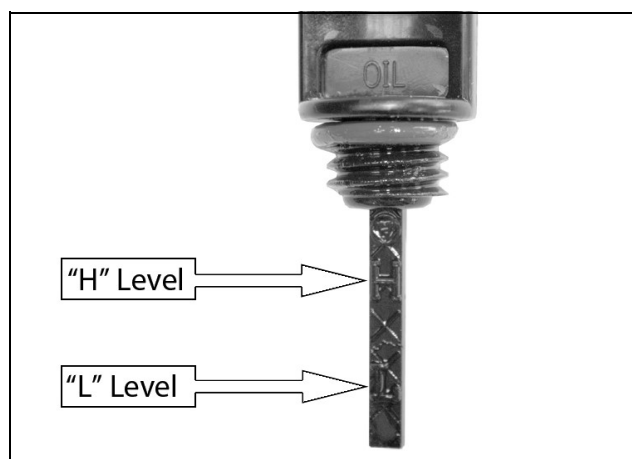
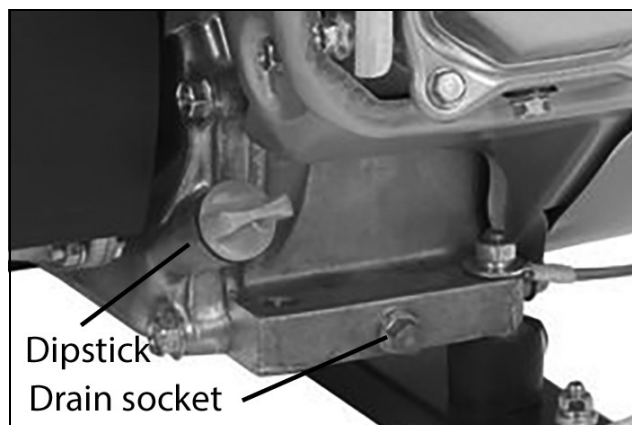
## CHECK THE ENGINE OIL LEVEL



**WARNING: YOUR GENERATOR MAY NOT BE SUPPLIED WITH OIL - ALWAYS ENSURE THERE IS SUFFICIENT OIL BEFORE USE.**

**CAUTION: ONLY CARRY OUT THIS CHECK WITH THE ENGINE OFF.**

1. Stand the generator on a level surface and check the oil level as follows.
2. Turn the oil filler cap/dipstick anti-clockwise to remove from the oil reservoir and wipe with a clean cloth.
3. Insert the dipstick back into the oil filler tube and then remove it again.
4. If the oil is below the Min. level on the dipstick, top up the oil reservoir with fresh oil.
  - **DO NOT** fill above the max level mark.
  - We recommend the use of SAE10W/30 oil in this generator. (CLARKE part number 3050845)



- **DO NOT** tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.

5. Replace and tighten the oil filler cap.

## ADDING/CHECKING THE FUEL LEVEL



**WARNING: MAKE SURE THERE IS 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.**

1. To check the fuel level, open the fuel filler cap.
2. Slowly add fuel to the fuel tank (maximum 15 litres)
  - **DO NOT** overfill the fuel tank.
3. Replace the fuel filler cap securely.

### RECOMMENDED FUEL

Your generator has been designed to use regular unleaded petrol with a octane number of 86 or higher. The user should confirm that current E10 fuels are suitable.



**WARNING: FUEL IS HIGHLY FLAMMABLE AND POISONOUS.**

**WARNING: SEE "GENERAL SAFETY RULES" ON PAGE 3 AND READ THEM CAREFULLY BEFORE REFUELING.**

**WARNING: DO NOT FILL ABOVE THE TOP OF THE FUEL FILTER OR IT MAY OVERFLOW WHEN THE FUEL HEATS UP AND EXPANDS.**

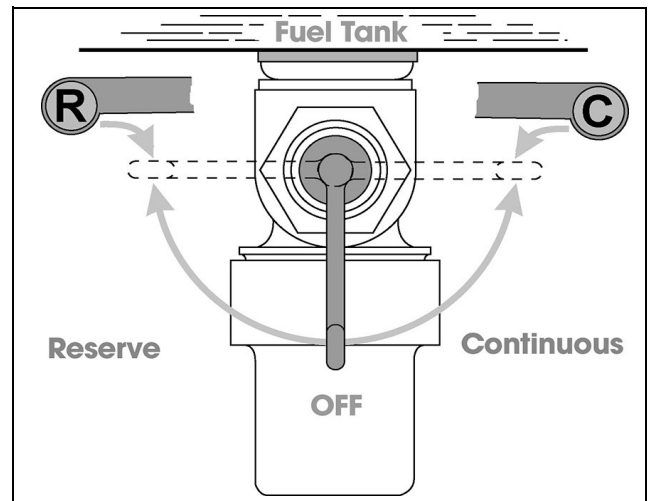
**WARNING: WIPE UP ANY SPILLED FUEL IMMEDIATELY.**

**WARNING: AFTER REFUELING, MAKE SURE THE FUEL FILLER CAP IS TIGHTENED SECURELY.**

4. Replace the fuel filler cap securely.

**NOTE:** Long range 'LR' models are fitted with a three position fuel tap as illustrated in fig.1. These positions are ON/OFF/RESERVE.

- Ensure the tap is set in the required position.
- The fuel hose connectors are intact and there is no leakage.





## PREPARATION FOR USE

This electric start machine is supplied with a 19AH dry charged battery, and a battery acid pack. The battery must be prepared as follows:

Check to ensure the battery is in good condition, with no damage caused during transit. Should there be any apparent damage, please consult your CLARKE dealer immediately.

1. Disconnect and remove the battery from the frame.
2. Remove the vent plugs and fill to 12mm above the top of the separators.
3. Allow the battery pack to soak for 30 mins, then check the levels and top up as necessary.
4. Replace the vent plugs.

Your battery is now ready for use, however we recommend that you put it on charge, at a rate of 2.5 Amps ONLY, for 4 hours. Should you do this, remember to re-check the battery levels when completed, and top up if necessary with distilled water (to BS4974).

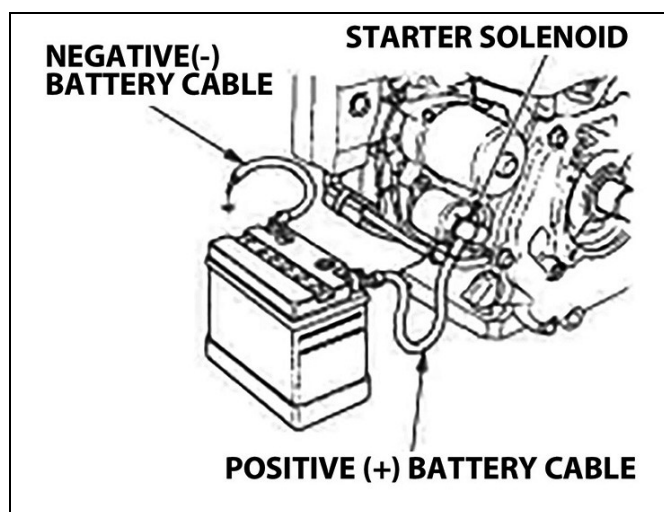
**NOTE:** You may charge at a lower rate than that specified, but a longer charge time will be necessary to achieve the same ampere hour input.

**NOTE:** Before connecting to the generator, ensure the outside of the battery is completely dry.

### CONNECT THE BATTERY AS FOLLOWS:

1. Ensure the battery is firmly secured in its compartment within the frame.
2. Connect the battery terminals to the battery posts, ensuring you connect the **POSITIVE** connection **FIRST**. (When disconnecting **ALWAYS** disconnect the positive terminal last).

**NOTE:** Smear the connections and terminals with petroleum jelly.



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## EXTENSION CABLES

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All extension cables, from the generator set to the appliance, must be carefully selected, fitted and maintained. Cables in accordance with IEC 245-4 should be used.

Cables should be inspected regularly, and should be replaced, not repaired in the event of a defect.

The length and cross section of conductors should be selected according to the job to be done. The table below is an indication of the sizes that should be used.

Conductor (mm <sup>2</sup> )	Max Length (m)	Current (Amps)	Single Phase (kW)
1.5	25	10	2.3
2.5	40	16	3.7
4.0	60	28	6.5

Ensure the cable is fully unwound when in use to avoid overheating, and the placing of extra load on the generator.

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## OPERATION

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***IMPORTANT: Ensure all precautions are taken, referring to this and the Honda engine manual before proceeding.***

Start the engine as follows (referring to engine manual) and allow to run for a few minutes at full speed in order for it to warm up.

1. Move the fuel valve lever to the ON position
2. To start a cold engine, move the choke lever to the On position.
3. Pull the recoil starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.

**NOTE: DO NOT** allow the starter grip to snap back against the engine at high speed causing damage.

4. To re-start a warm engine, leave the choke lever in the Off position.
5. To use the electric starter, turn the key to the start position until the engine starts.

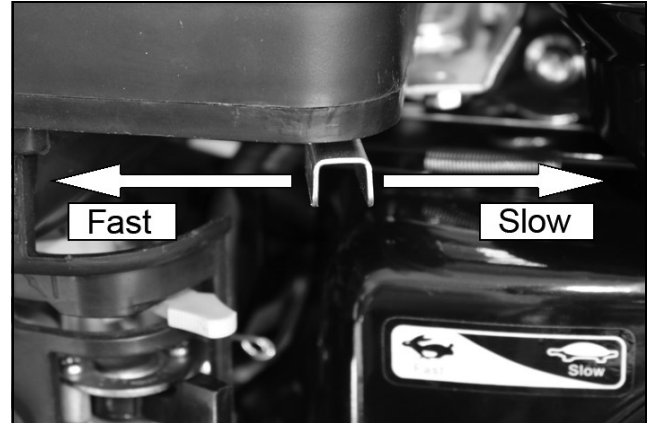


6. If the engine fails to start within 5 seconds, release the key and wait at least 10 seconds before operating the starter again. When the engine starts, release the key.

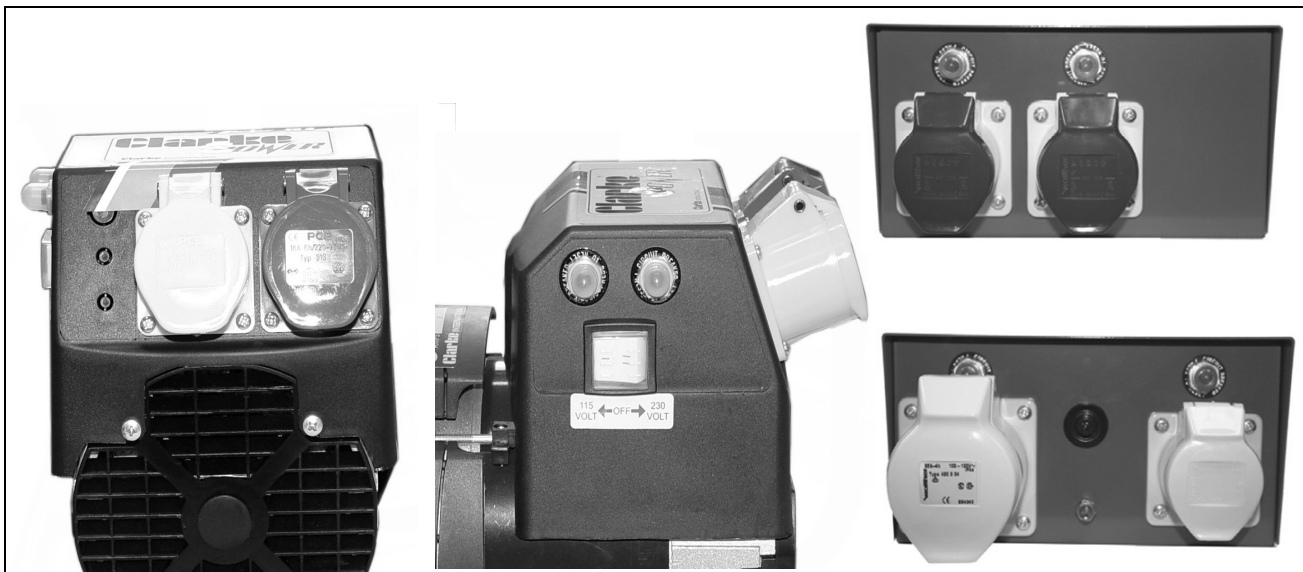
**NOTE:** Using the starter for more than 5 seconds can overheat and damage the starter motor.

7. Set the engine speed by moving the throttle lever away from the MIN position

**IMPORTANT:** Ensure no appliances are connected to the generator when starting the engine.



8. Check the condition of the appliance, including the supply cable and the extension cable if used, and ensure it is switched OFF. Ensure also that the operating voltage is the same as the output from the generator.
9. For generators with dual output, ensure the voltage selector switch is set to deliver the appropriate output - 115V or 230V, see fig's below..



10. With the engine running smoothly connect the appliance to the appropriate receptacle: BLUE - 230V, YELLOW - 115V.

**NOTE:** If the AC circuit is overloaded the circuit protection switch will trip. To reset the circuit, first disconnect the appliance, and rectify the cause of the overload. Wait a short period and then press the reset button on the panel.

### BE AWARE!

Some appliances draw more current on start-up than their normal running current, i.e. electric motors, and compressors. If in any doubt as to whether an appliance is compatible or not, please consult your CLARKE dealer.

Additionally, please refer to the specifications sheet attached, to ensure the machine is used under the correct operating conditions.

## SHUTTING DOWN THE GENERATOR

***IMPORTANT: Never switch off the engine whilst an electrical appliance is connected.***

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

Move the throttle lever to the MIN position.

1. Set the engine switch to the "0" (OFF) position.
2. Turn the fuel valve knob to "OFF" (pointing left).
3. Disconnect any electric devices.

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## MAINTENANCE

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### ENGINE OIL (AFTER FIRST 20 HOURS OF USE)

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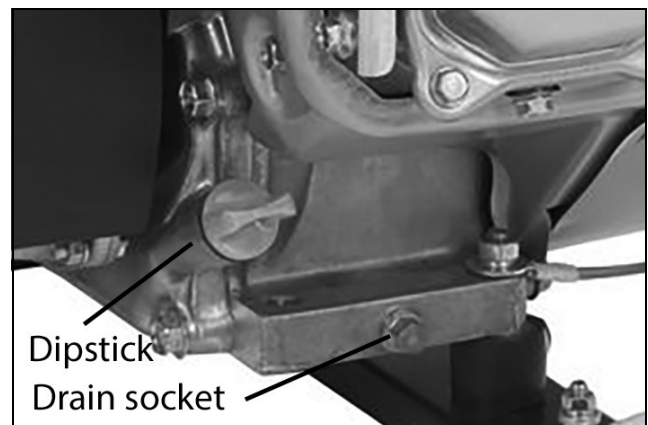


CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

1. Turn the oil filler cap anti-clockwise and remove from the oil reservoir.
2. Remove the drain plug and tilt the generator to allow the oil to drain out of the oil reservoir into a suitable container.

**NOTE:** You may need assistance with this step as the generator is heavy.

3. Fill the oil reservoir with fresh oil.
  - **DO NOT** fill above the max level mark.
  - We recommend the use of SAE10W/30 oil in this generator. (CLARKE part number 3050845)
4. Replace the oil filler cap.



## ENVIRONMENTAL PROTECTION

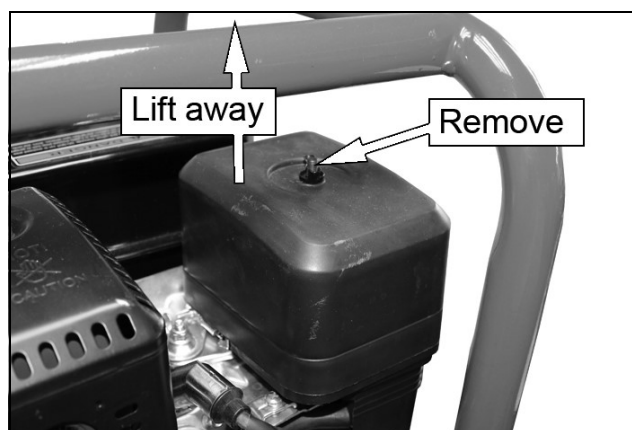
One of the most damaging sources of pollution is oil. DO NOT throw away used engine oil in with your domestic waste or down drains and sinks. Place it in a leak proof container and dispose of it according to local regulations.

## AIR FILTER (EVERY 50 HOURS OF USE)



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

1. Remove the air filter cover, unscrewing the securing nut.
2. Remove the air filter panel and the air filter element.
3. If the air filter is damaged contact the CLARKE spare parts department for a replacement.
  - If the filter is dirty, wash it in a solution of warm water and mild detergent and then rinse thoroughly.
  - Leave the filter to dry completely, once it is dry immerse the filter in clean engine oil and squeeze the filter to remove excess oil.
4. Replace the filter into its original position and replace and secure the air filter cover.



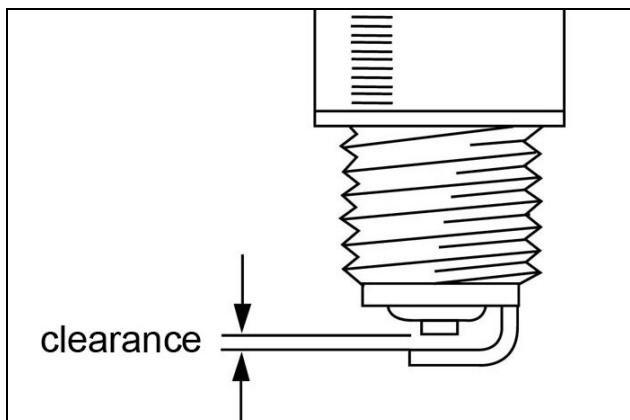
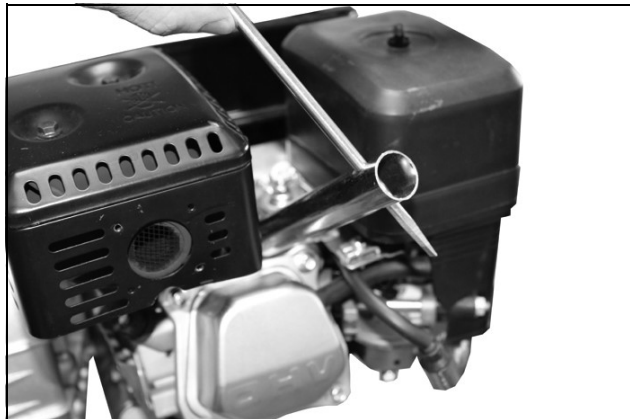
## SPARK PLUG (EVERY 50 HOURS OF USE)



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

1. Remove the spark plug cap from the spark plug.
2. Fit the spark plug box spanner over the spark plug as shown and use the lever to turn it.
3. When the spark plug has been removed, check for discoloration and use a wire brush to remove any carbon build up.
4. Check the spark plug gap with a feeler gauge which should be between 0.6 and 0.7 mm.
  - Adjust if necessary.
5. Check the overall condition of the spark plug and replace if damaged.

**NOTE:** Spark plugs are available from CLARKE Spare Parts department 020 8988 7400.



6. Reinstall the spark plug and replace the spark plug cap.

## FUEL TANK FILTER (EVERY 100 HOURS OF USE)

Just inside the fuel tank is a fuel filter, check this filter periodically and remove any contaminants which may have accumulated.

1. Remove the fuel tank cap.
2. Lift out the filter inside.
3. Clean the filter with solvent. If the filter is damaged, contact CLARKE Spare Parts department for a replacement.
4. Replace the filter and fuel tank cap.

## STORAGE

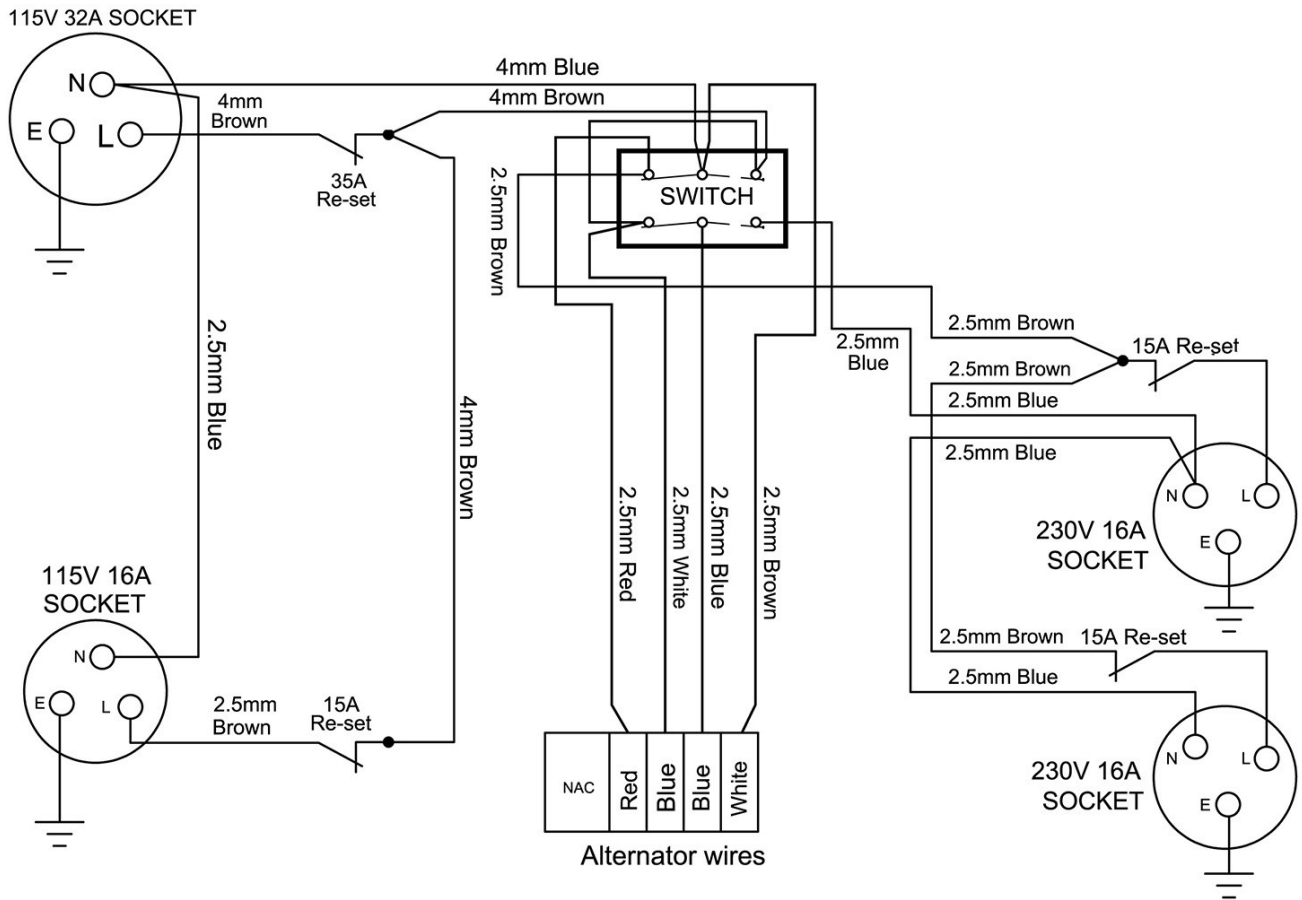
1. Always store in a damp free environment away from children.

# TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The generator fails to start	Engine switch is off	Set the engine switch to ON
	Fuel valve OFF	Move the lever to ON position.
	Choke open (Off)	Move the lever to CLOSED position unless engine is warm.
	Lack of engine oil. (with Oil Alert feature fitted)	Add more oil.
	No fuel	Add more fuel.
	Bad fuel due to long term storage with fuel in tank	Drain the fuel tank and carburetor. Refuel with fresh fuel.
	Spark plug defective, foul or wrongly gapped.	Clean, re-gap or replace the spark plug.
The generator fails to generate electricity (no AC output)	The device you are trying to power is faulty	Make sure the device you want to power is working properly.
	Selector switch in wrong position	Set the selector switch
	Tripped circuit breaker	Reset the AC safety trip
	Poor connection or defective lead	Check the connection and/or replace lead
The generator is difficult to start	The air filter is dirty	Clean the air filter.
Erratic supply	Incorrect engine rpm	Adjust the engine speed
	Internal alternator problem	Contact CLARKE servicing

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

# SCHEMATIC WIRING DIAGRAM





## SPARE PARTS

Frame	SH0211009
Alternator mount	SH0270004
Engine mount	SH0270027
Alternator NAC5500 BC-A0/T	SH0130090
IP23 Alternator cover	SH0280040
Control box D/V wired cw covers	SH0491001
Control box 5 SKT CON5	SH0090193
Mounting set C/BOX	SH0130106
Collar	SH0130063
Grommet	SH0130070
MCB GTEC 25AMP 1 pole	SH0360011
MCB GTEC 50AMP 1 pole	SH0360020
MCB Cover 2	SH0360038
Switch Merz Z101 20/25A	SH0430005
Socket 115v 16a	SH0440001
Socket 230v 16a	SH0440002
Battery Box	SH0210093
Battery Box Lid	SH0210094
Battery YB16CL-B19A/H	SH0540001
Alternator end cover	SH0130067
Diode PCB assy	SH0130073
Capacitor 22uf	SH0370015
Diode PCB assy	SH0130073
Fuel tank (steel) 15.5 L	SH0210092
Fuel tap inline	SH0480002
Fuel filter small in-line	SH0480003
Filler neck	SH0480005
Filler cap	SH0480006

## SPECIFICATION

Item	Specification
Model No	CP6550NESLR
Dimensions (L x W x H)	710 x 510 x 600 mm
Weight	87 kg
Engine type	Honda GX390
Displacement	389cc
Engine power	13HP
Fuel capacity	15.5 L
Fuel consumption	2.16 L/h
Running time (full tank)	7.2 H
Fuel type	Unleaded
Lubrication Oil Capacity/grade	1.1 L (SAE 10W30)
Spark plug type	BPR 6ES
Rated power	6.5 kVA
Voltage AC	230/115 V
AC Rated frequency	50 Hz 1ph
Earthing	Floating
Sound output	71 dB(A) @7m
Measured sound power	96.512 dB
Guaranteed sound power	97 dB

# DECLARATIONS OF CONFORMITY



## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation: The following standards have been applied to the product(s):

Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001

EN 61000-6-3:2007+A1:2011, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-6-2:2005,

The Electromagnetic Compatibility Regulations 2016

EN ISO 8528-13:2016, BS ISO 8528-1:2018, EN 60034-1:2010, EN 60204-1:2018, ISO 3744,

The Supply of Machinery (Safety) Regulations 2008

BS ISO 8528-2:2018, BS ISO 8528-3:2020, BS ISO 8528-4:2005, EN ISO 12100:2010,

The Non-Road Mobile Machinery (Type-Approval and Emission of Gaseous and Particulate Pollutants) Regulations 2018

EN IEC 63000:2018, ISO 8528-10

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

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

The UKCA mark was first applied in: 2024

**Manufacturer:** Clarke International Ltd, Hemnall Street, Epping, Essex, CM16 4LG, United Kingdom

**Notified Body:** Státní zkušebna strojů a.s. (ID Number: 1016), Třanovského 622/11, 163 04, Praha 6 - Řepy, Česká Republika

**Product Description:** Generator

**Assessment Procedure:** Annex VI of above noise legislation

**Model Number(s):** CP6550NESLR

**Measured LWA:** 96.512 dB

**Serial/Batch Number:** Refer to product/packaging label

**Guaranteed LWA:** 97 dB

**Document Holder:** Alan Pond

**Signed:**

  
J.A. Clarke  
Director

**Date of Issue:** 09/12/2024

CP6550NESLR UKCA Clarke DOC 120924

Page 1 of 1



## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation: The following standards have been applied to the product(s):

2000/14/EC Outdoor Noise Directive

EN 61000-6-3:2007+A1:2011, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-6-2:2005,

2014/30/EU Electromagnetic Compatibility Directive

EN ISO 8528-13:2016, BS ISO 8528-1:2018, EN 60034-1:2010, EN 60204-1:2018, ISO 3744,

2006/42/EC Machinery Directive

BS ISO 8528-2:2018, BS ISO 8528-3:2020, BS ISO 8528-4:2005, EN ISO 12100:2010,

2016/1628 Particulate Emission and Type-Approval for Non-Road Mobile Machinery Regulation

EN IEC 63000:2018, ISO 8528-10

2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

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

The CE mark was first applied in: 2012

**Manufacturer:** Clarke International Ltd, Fitzwilliam Hall, Fitzwilliam Place, Dublin 2, Republic of Ireland

**Notified Body:** Státní zkušebna strojů a.s. (ID Number: 1016), Třanovského 622/11, 163 04, Praha 6 - Řepy, Česká Republika

**Product Description:** Generator

**Assessment Procedure:** Annex VI of above noise legislation

**Model Number(s):** CP6550NESLR

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**Serial/Batch Number:** Refer to product/packaging label

**Guaranteed LWA:** 97 dB

**Document Holder:** Alan Pond

**Signed:**

  
J.A. Clarke  
Director

**Date of Issue:** 09/12/2024

CP6550NESLR CE Clarke DOC 120924

Page 1 of 1

# A SELECTION FROM THE VAST RANGE OF

# Clarke®

## QUALITY PRODUCTS



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

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

**POWER WASHERS**  
Hot and cold, electric and engine driven - we have what you need

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Mig, Arc, Tig and Spot. From DIY to auto/industrial.

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Drills, grinders and saws for DIY and professional use.

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Saws, sanders, lathes, mortisers and dust extraction.

**HYDRAULICS**  
Cranes, body repair kits, transmission jacks for all types of workshop use.

**WATER PUMPS**  
Submersible, electric and engine driven for DIY, agriculture and industry.

**POWERTOOLS**  
Angle grinders, cordless drill sets, saws and sanders.

**STARTERS/CHARGERS**  
All sizes for car and commercial use.



## PARTS & SERVICE:

## 0208 988 7400

**Parts Enquiries**  
[Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)

**Servicing & Technical Enquiries**  
[Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)

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

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