

# Clarifire®

# POWER



## GENERATOR

MODEL NO: FG4050ES / FG5100ES

PART NO: 8857715, 8857720

## OPERATION & MAINTENANCE INSTRUCTIONS



LS0914

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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 RECYCLING POLICY

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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



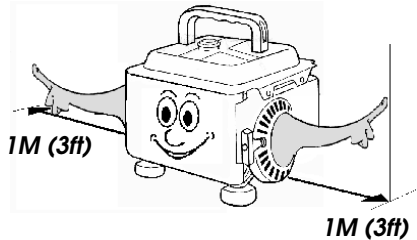
**WARNING: EXHAUST FUMES CAN BE EXTREMELY DANGEROUS IF INHALED**

## 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**

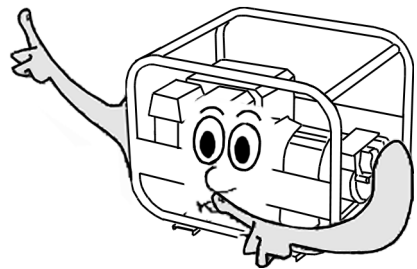
## POSITIONING THE GENERATOR

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

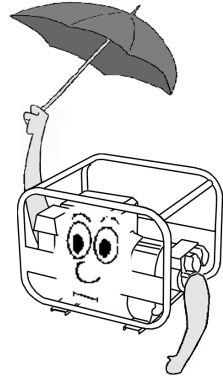
1. **Always** switch the engine OFF when refuelling.
2. **Always** refuel away from any source of heat.
3. **Always** refuel in a well ventilated area.
4. **Never** overfill the tank, fill to the level specified (See "Checking the fuel level" on page 12.).
5. **Never** smoke whilst refuelling and avoid smoking or using a naked flame near the generator.



6. **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.

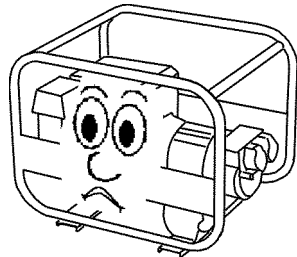
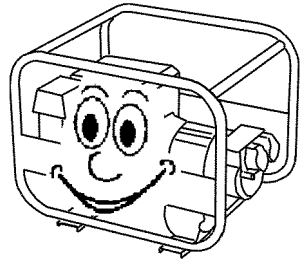
## PREVENTION OF ELECTRIC SHOCK

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

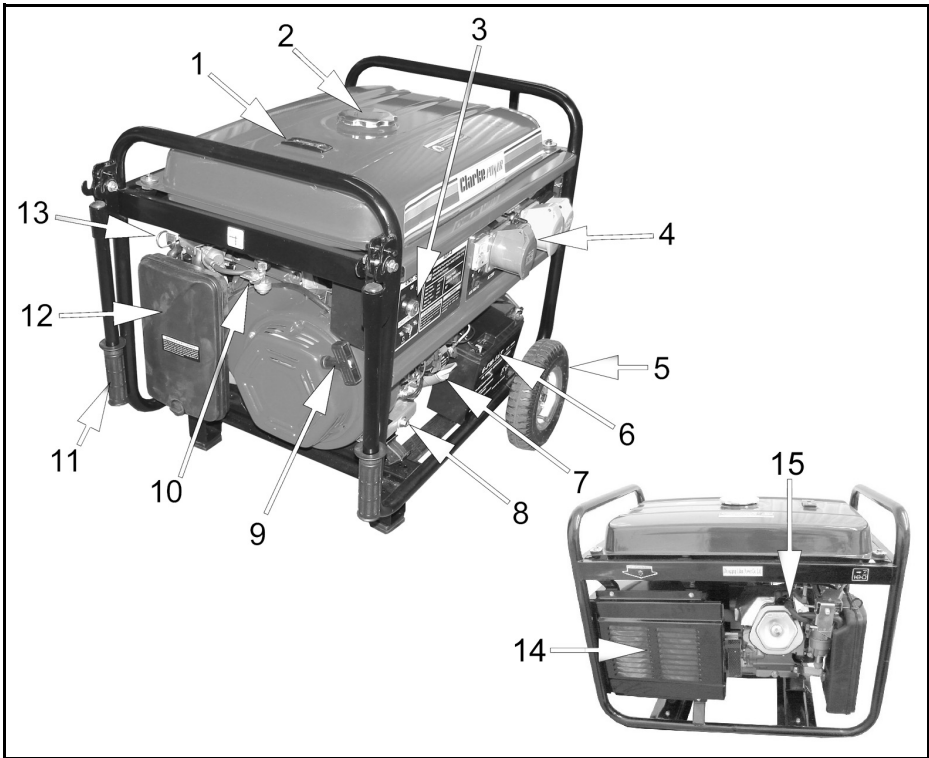
1. **Always** ensure the applied load does not exceed the generator rating. Overloading the generator is dangerous and could cause serious damage.
2. **Always** disconnect the generator when carrying out any maintenance.
3. **Always** ensure the generator reaches operating speed before connecting a load.
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; eg ring main.
7. **Never** allow the generator air vents to become blocked.



# SAFETY SYMBOLS

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

# GENERATOR OVERVIEW



| NO | DESCRIPTION      | NO | DESCRIPTION       |
|----|------------------|----|-------------------|
| 1  | Fuel level gauge | 9  | Starting handle   |
| 2  | Fuel tank cap    | 10 | Fuel supply valve |
| 3  | Ignition panel   | 11 | Handle            |
| 4  | Control panel    | 12 | Air Filter        |
| 5  | Wheel            | 13 | Choke lever       |
| 6  | Battery          | 14 | Muffler           |
| 7  | Dipstick         | 15 | Spark plug        |
| 8  | Drain plug       | 16 |                   |

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## UNPACKING AND ASSEMBLY

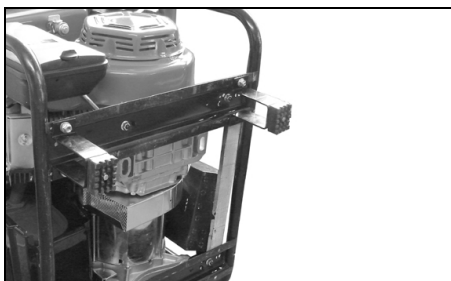
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Unpack your generator and check to ensure the following items are present. Should there be any deficiency or damage caused during transit contact your Clarke dealer immediately.

- The generator
- Spark plug box spanner
- Tommy bar
- Wheel kit

### FITTING THE WHEEL KIT

1. Lay the generator on it's 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.

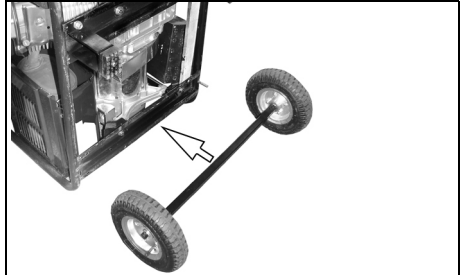
**NOTE:** Make sure that the valve on each wheel is on the outside.



3. Secure the wheel to the axle using a split pin.

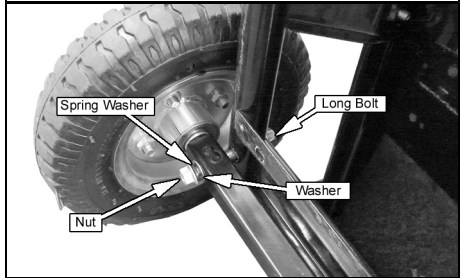


4. Place the axle against the frame on the generator as shown.



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.



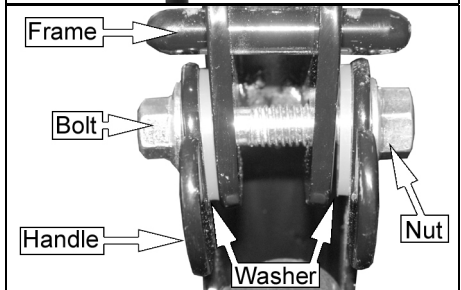
## FITTING THE HANDLES

1. Place the handle into position as shown.



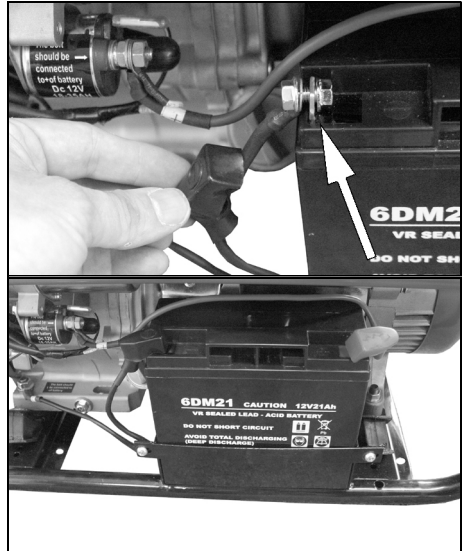
2. Secure the handle using the nut and bolt supplied

- Making sure that the 2 plastic washers are inserted between the handle and frame as shown.



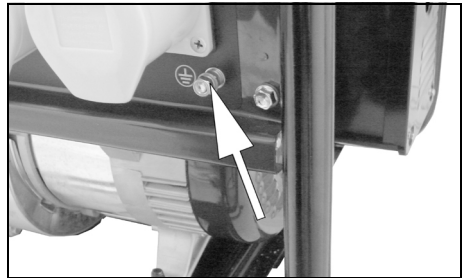
## CONNECTING THE BATTERY

- 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

Always connect the generator to an earth point. The earth terminal is shown on the right.



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## BEFORE USING THE GENERATOR

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IMPORTANT: Generators should ALWAYS be earthed.

Attach a suitable earth lead to a good earth - 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 and connectors are intact and there is no leakage.

**NOTE:** Always use a funnel to fill the fuel tank so as to avoid accidental spillage of fuel. If fuel is spilled it must be removed from the unit before attempting to start the engine.



**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.**

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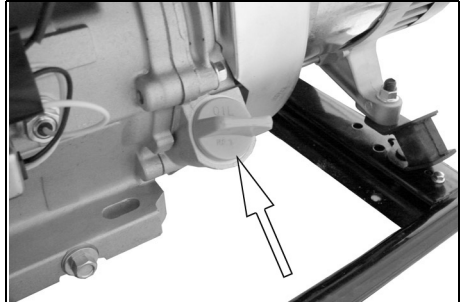
## CHECKING THE ENGINE OIL LEVEL



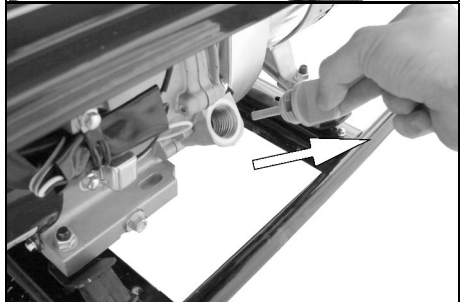
**WARNING: TO CARRY OUT THIS CHECK, PLACE THE GENERATOR ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.**

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

1. Turn the oil filler cap anti-clockwise and remove from the oil tank, wipe the dipstick with a clean cloth.



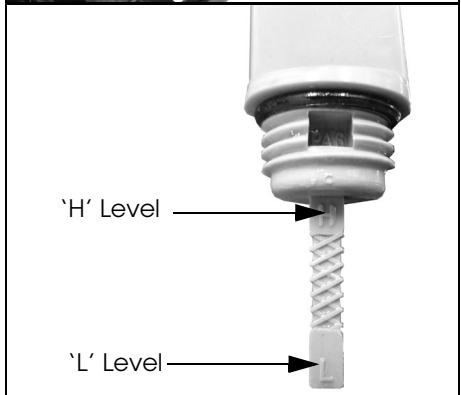
2. Insert the dipstick back into the oil filler tube and then remove it again. Do not screw in the oil filler cap/dipstick when doing this.



3. If the oil is below the 'L' level on the dipstick, fill the oil reservoir to the 'H' level on the dipstick.

- Oil capacity (See "Specifications" on page 22.)
- We recommend the use of SAE30 oil in this generator.

4. Replace the oil filler cap.



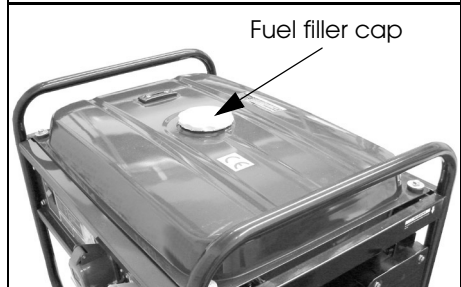
## CHECKING THE FUEL LEVEL

1. Check the fuel level on the fuel gauge.

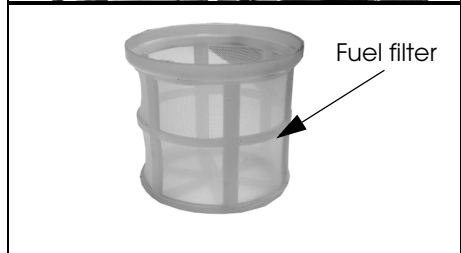
The fuel gauge will show as red when you have fuel in the tank turning white as the fuel level decreases.



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



3. Just inside the fuel tank is a fuel tank filter, check this filter periodically and remove any contaminants which may have accumulated.
4. Slowly add fuel to the fuel tank (maximum 25L) watching the fuel level gauge as you do so.



## RECOMMENDED FUEL

We recommend the use of standard unleaded petrol.



**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.**

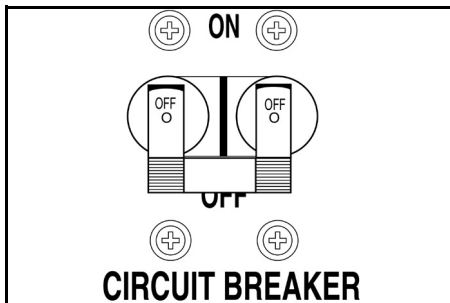
**NOTE:** Do not overfill the fuel tank.

5. Replace the fuel filler cap securely.

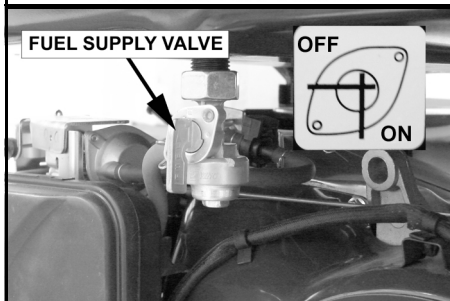
# USING YOUR GENERATOR

## STARTING THE ENGINE

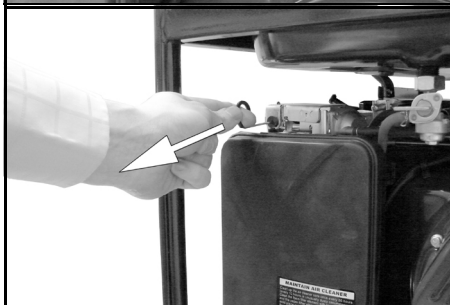
1. Remove all connections from the AC sockets.
2. Set the AC circuit breaker to the off position.



3. Turn on the fuel supply valve.



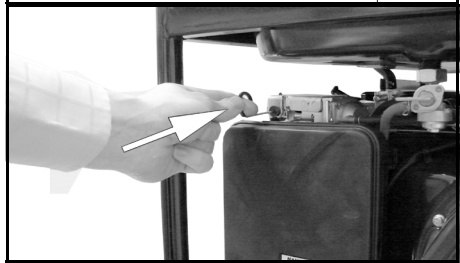
4. If you are starting the generator 'cold' set the choke lever to the ON position. If the generator is warm skip this step.



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 ON position.



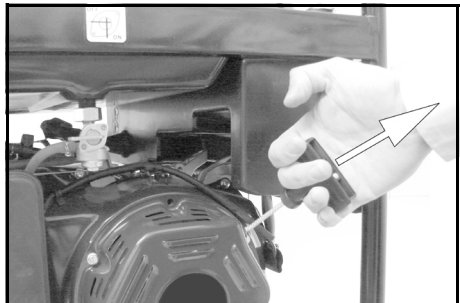
8. Once the engine has warmed up, set the choke lever to the OFF position pushed in).



### 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. Set the ignition key to the ON position.
2. Pull the starting handle lightly until you start to feel resistance and then pull up sharply to start the generator.
3. 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 WHIPS BACK.**

## CONNECTING ELECTRICAL DEVICES

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

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

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

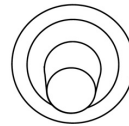
1. Connect the appliance to the generator starting with the device that draws the most current.



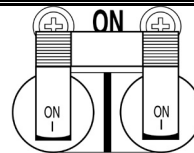
2. Select the voltage that you require using the voltage selector switch.

### VOLTAGE SELECTOR

230V ← → 115V



3. Set the circuit breaker to 'ON'.



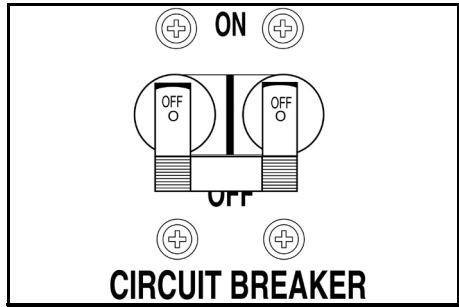
OFF



### CIRCUIT BREAKER

## SHUTTING DOWN THE GENERATOR

1. Disconnect all appliances connected to the generator.
2. Set the circuit breaker to 'OFF'.

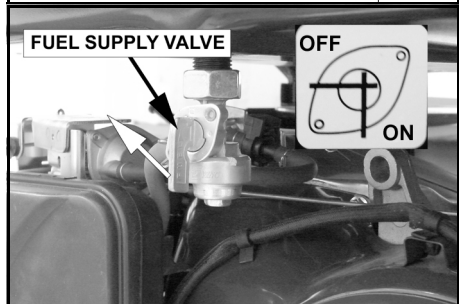


3. Turn the ignition key to the OFF position.



4. Set the fuel supply valve to OFF.

**NOTE:** To stop the generator in an emergency simply turn the ignition key to the off position.



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# MAINTENANCE

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## CHANGING THE ENGINE OIL

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

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

4. Replace the drain plug and its ring seal.
5. Fill the crankcase with engine oil to the 'H' mark on the dipstick. See page 11.
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 trash or down drains and sinks. Place it in a leak proof container and take it to your local waste disposal site.

## CHANGING THE SPARK PLUGS



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

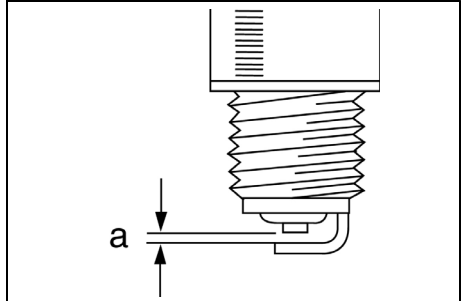
1. Remove the spark plug cap from the spark plug.



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



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

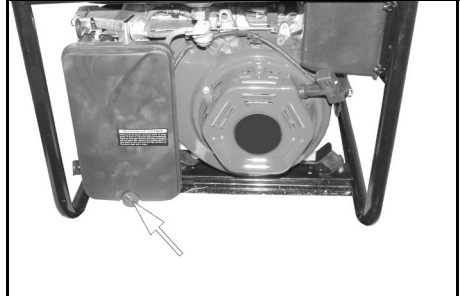


## CHECKING THE AIR FILTER



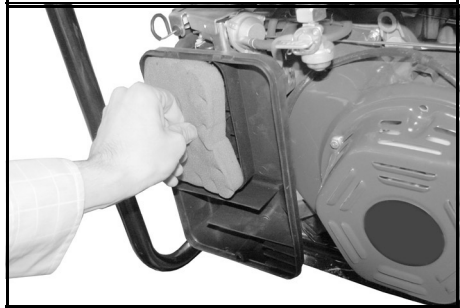
**CAUTION: DO NOT USE THE GENERATOR WITHOUT THE AIR FILTER FITTED, THIS CAN DAMAGE THE GENERATOR.**

1. Unlock and remove the air filter cover.



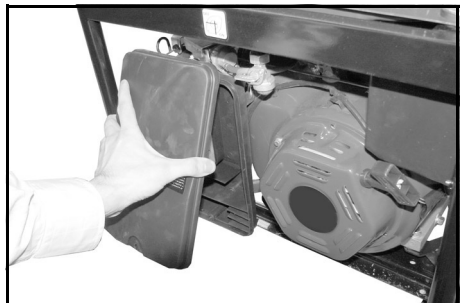
2. Remove the air filter element.
3. Make sure that the air filter is clean and not damaged.

- If the air filter is damaged contact Clarke spare parts department for a replacement.
- If the filter is dirty, wash the filter in a solution of warm water and mild detergent and 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.



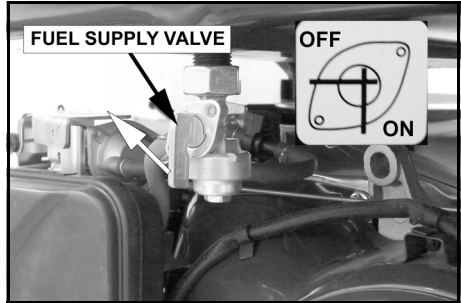
**WARNING: DO NOT USE INFLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.**

4. Replace the filter back into 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.



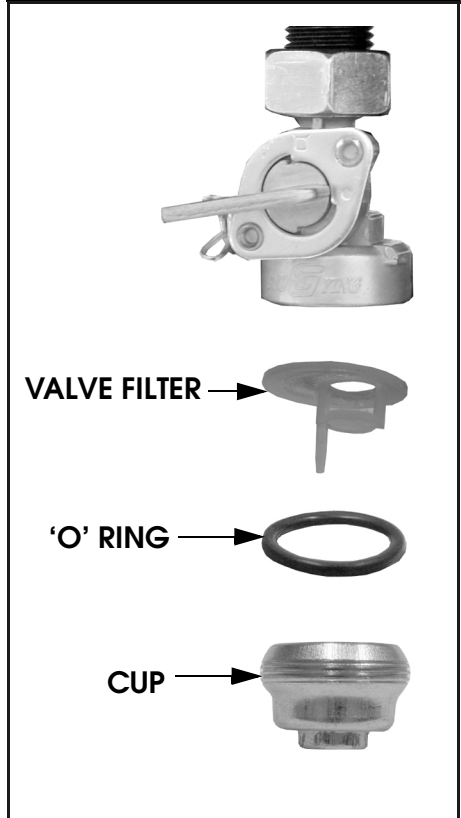
2. Unscrew and remove the cup, then remove the valve filter and 'O' ring.

3. Wash these parts in a non-inflammable solvent. Make sure that the valve filter is not damaged.

4. 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.

5. Replace the 'O' ring and valve filter and tighten the cup as far as possible.



# TROUBLESHOOTING

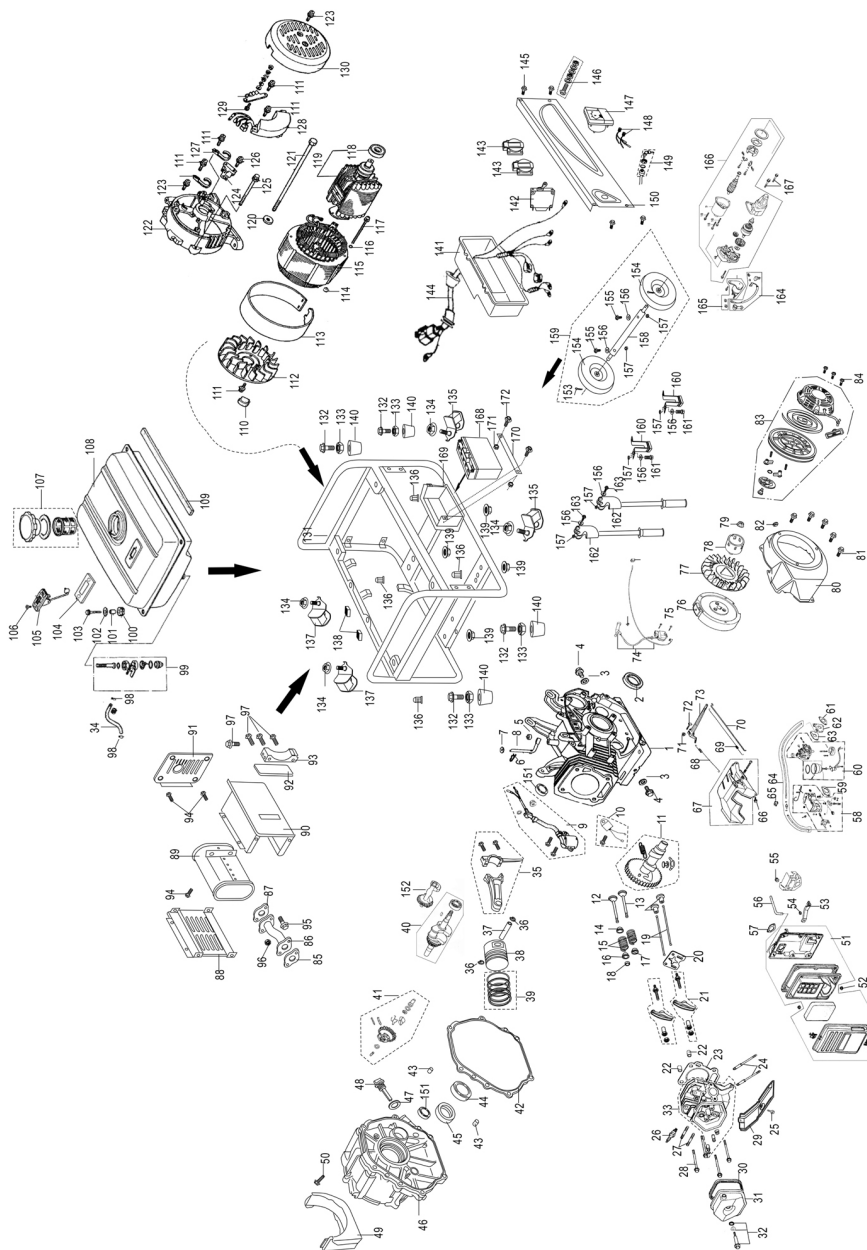
| PROBLEM                                     | CAUSE  | SOLUTION   |
|---|--|--|
| The generator fails to start                | Ignition switch is off                       | Set the ignition switch to 'on'                            |
|   | Not enough oil in the generator              | Add more oil, See page 11                                  |
|   | No fuel                                      | Add more fuel, See page 12                                 |
|   | Spark plugs not working correctly            | Change the spark plugs, See page 18                        |
| 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 19                          |
|   | The fuel filter is dirty                     | Clean the fuel filter, See page 20                         |

If this does not solve your problem, please contact the Clarke service department. See page 27

# SPECIFICATIONS

|            |   | <b>FG4050ES</b>                     | <b>FG5100ES</b> |
|------------|---|-------------------------------------|-----------------|
| Engine     | Engine Model                                | 182FD                               | 188FD           |
|            | Type  | Petrol                              |                 |
|            | Displacement (cm <sup>3</sup> )             | 337                                 | 389             |
|            | Max. power output (hp/rpm)                  | 11/3600                             | 13/3600         |
|            | Ignition type                               | Non contact transistorised Ignition |                 |
|            | Start system                                | Electric with recoil backup         |                 |
|            | Fuel tank capacity (L)                      | 25                                  | 25              |
|            | Fuel consumption (L/hr.)                    | 2.45                                | 2.7             |
|            | Maximum run time (h)                        | 10                                  | 9               |
|            | Engine oil capacity (L)                     | 1.1                                 | 1.1             |
|            | Guaranteed sound power (L <sub>WA</sub> dB) | 97                                  | 97              |
| Generator  | Rated Frequency (Hz)                        | 50                                  | 50              |
|            | Output Voltage (V)                          | 115v / 230v                         | 115v / 230v     |
|            | Rated Power (kVA)                           | 4                                   | 5               |
|            | Max. Power (kVA)                            | 4.5                                 | 5.5             |
| Dimensions | Length (mm)                                 | 680                                 | 680             |
|            | Width (mm)                                  | 540                                 | 540             |
|            | Height (mm)                                 | 510                                 | 510             |
|            | Unpacked Weight (kg)                        | 84.5                                | 82              |

# EXPLODED DIAGRAM & PARTS LIST



# EXPLODED DIAGRAM & PARTS LIST

| NO | DESCRIPTION                    | PART NO     |             | NO | DESCRIPTION                 | PART NO     |             |
|----|--------------------------------|-------------|-------------|----|-----------------------------|-------------|-------------|
|    |                                | FG4050ES    | FG5100ES    |    |                             | FG4050ES    | FG5100ES    |
| 1  | Crankcase                      | RKFG4010001 | RKFG5100001 | 25 | Bolt M6x12                  | RKFG4010025 | RKFG5100025 |
| 2  | Oil seal, crankshaft           | RKFG4010002 | RKFG5100002 | 26 | Spark plug F6RTCUC          | RKFG4010026 | RKFG5100026 |
| 3  | Washer                         | RKFG4010003 | RKFG5100003 | 27 | Stud M8x35                  | RKFG4010027 | RKFG5100027 |
| 4  | Drain plug                     | RKFG4010004 | RKFG5100004 | 28 | Flange bolt                 | RKFG4010028 | RKFG5100028 |
| 5  | Oil seal, regulating sway bar  | RKFG4010005 | RKFG5100005 | 29 | Lead wind cover             | RKFG4010029 | RKFG5100029 |
| 6  | Split pin                      | RKFG4010006 | RKFG5100006 | 30 | Gasket, cylinder head cover | RKFG4010030 | RKFG5100030 |
| 7  | Washer                         | RKFG4010007 | RKFG5100007 | 31 | Cylinder head cover Assy    | RKFG4010031 | RKFG5100031 |
| 8  | Regulating sway bar            | RKFG4010008 | RKFG5100008 | 32 | Bolt                        | RKFG4010032 | RKFG5100032 |
| 9  | Oil sensor                     | RKFG4010009 | RKFG5100009 | 33 | Cylinder head Assy          | RKFG4010033 | RKFG5100033 |
| 10 | Diode                          | RKFG4010010 | RKFG5100010 | 34 | Outlet pipe 9x4.5x160       | RKFG4010034 | RKFG5100034 |
| 11 | Camshaft Assy                  | RKFG4010011 | RKFG5100011 | 35 | Connecting rod Assy         | RKFG4010035 | RKFG5100035 |
| 12 | Exhaust valve                  | RKFG4010012 | RKFG5100012 | 36 | Piston pin circlip          | RKFG4010036 | RKFG5100036 |
| 13 | Intake valve                   | RKFG4010013 | RKFG5100013 | 37 | Piston pin                  | RKFG4010037 | RKFG5100037 |
| 14 | Spring retainer, exhaust valve | RKFG4010014 | RKFG5100014 | 38 | Piston                      | RKFG4010038 | RKFG5100038 |
| 15 | Valve spring                   | RKFG4010015 | RKFG5100015 | 39 | Piston ring assy            | RKFG4010039 | RKFG5100039 |
| 16 | Spring seat, exhaust valve     | RKFG4010016 | RKFG5100016 | 40 | Crankshaft sets             | RKFG4010040 | RKFG5100040 |
| 17 | Spring seat, intake valve      | RKFG4010017 | RKFG5100017 | 41 | Driven gear set, regulator  | RKFG4010041 | RKFG5100041 |
| 18 | Cap, exhaust valve             | RKFG4010018 | RKFG5100018 | 42 | Gasket, crankcase           | RKFG4010042 | RKFG5100042 |
| 19 | Pusher                         | RKFG4010019 | RKFG5100019 | 43 | Set pin                     | RKFG4010043 | RKFG5100043 |
| 20 | Pusher guide                   | RKFG4010020 | RKFG5100020 | 44 | Bearing 6207                | RKFG4010044 | RKFG5100044 |
| 21 | Valve rocker Assy              | RKFG4010021 | RKFG5100021 | 45 | Oil seal, crankshaft        | RKFG4010045 | RKFG5100045 |
| 22 | Set pin                        | RKFG4010022 | RKFG5100022 | 46 | Crankcase cover             | RKFG4010046 | RKFG5100046 |
| 23 | Gasket, cylinder head          | RKFG4010023 | RKFG5100023 | 47 | Dipstick                    | RKFG4010047 | RKFG5100047 |
| 24 | Stud M6xM8x106                 | RKFG4010024 | RKFG5100024 | 48 | Seal                        | RKFG4010048 | RKFG5100048 |

# EXPLODED DIAGRAM & PARTS LIST

| NO | DESCRIPTION                  | PART NO     |             | NO  | DESCRIPTION          | PART NO     |             |
|----|------------------------------|-------------|-------------|-----|----------------------|-------------|-------------|
|    |                              | FG4050ES    | FG5100ES    |     |                      | FG4050ES    | FG5100ES    |
| 49 | Guard, crankcase cover       | RKFG4010049 | RKFG5100049 | 73  | Regulating arm       | RKFG4010073 | RKFG5100073 |
| 50 | Bolt M5x12                   | RKFG4010050 | RKFG5100050 | 74  | Ignition coil unit   | RKFG4010074 | RKFG5100074 |
| 51 | Air cleaner Assy             | RKFG4010051 | RKFG5100051 | 75  | Bolt M6x30           | RKFG4010075 | RKFG5100075 |
| 52 | Nut M5                       | RKFG4010052 | RKFG5100052 | 76  | Flywheel             | RKFG4010076 | RKFG5100076 |
| 53 | Air cleaner stay             | RKFG4010053 | RKFG5100053 | 77  | Flywheel fan         | RKFG4010077 | RKFG5100077 |
| 54 | Nut M6                       | RKFG4010054 | RKFG5100054 | 78  | Starting flange      | RKFG4010078 | RKFG5100078 |
| 55 | Boot, vent pipe              | RKFG4010055 | RKFG5100055 | 79  | Nut M16x1.25         | RKFG4010079 | RKFG5100079 |
| 56 | Air duck                     | RKFG4010056 | RKFG5100056 | 80  | Fan hood assy        | RKFG4010080 | RKFG5100080 |
| 57 | Gasket, air cleaner          | RKFG4010057 | RKFG5100057 | 81  | Bolt M6x12           | RKFG4010081 | RKFG5100081 |
| 58 | Manual choke Assy            | RKFG4010058 | RKFG5100058 | 82  | Grommet              | RKFG4010082 | RKFG5100082 |
| 59 | Gasket, air cleaner          | RKFG4010059 | RKFG5100059 | 83  | Recoil starter       | RKFG4010083 | RKFG5100083 |
| 60 | Carburetor Assy              | RKFG4010060 | RKFG5100060 | 84  | Bolt M6x8            | RKFG4010084 | RKFG5100084 |
| 61 | Gasket, inlet                | RKFG4010061 | RKFG5100061 | 85  | Gasket, outlet       | RKFG4010085 | RKFG5100085 |
| 62 | Connecting block, carburetor | RKFG4010062 | RKFG5100062 | 86  | Exhaust pipe         | RKFG4010086 | RKFG5100086 |
| 63 | Gasket, carburetor           | RKFG4010063 | RKFG5100063 | 87  | Gasket, exhaust pipe | RKFG4010087 | RKFG5100087 |
| 64 | Check valve Assy             | RKFG4010064 | RKFG5100064 | 88  | Outer hood           | RKFG4010088 | RKFG5100088 |
| 65 | Clamp, check valve           | RKFG4010065 | RKFG5100065 | 89  | Muffler              | RKFG4010089 | RKFG5100089 |
| 66 | Bolt M6x12                   | RKFG4010066 | RKFG5100066 | 90  | Inner hood           | RKFG4010090 | RKFG5100090 |
| 67 | Supporting plate set         | RKFG4010067 | RKFG5100067 | 91  | Side hood            | RKFG4010091 | RKFG5100091 |
| 68 | Back spring                  | RKFG4010068 | RKFG5100068 | 92  | Gasket, inner hood   | RKFG4010092 | RKFG5100092 |
| 69 | Fine regulating spring       | RKFG4010069 | RKFG5100069 | 93  | Muffler stay         | RKFG4010093 | RKFG5100093 |
| 70 | Pulling rod                  | RKFG4010070 | RKFG5100070 | 94  | Flange bolt M6x12    | RKFG4010094 | RKFG5100094 |
| 71 | Nut M6                       | RKFG4010071 | RKFG5100071 | 95  | Flange bolt M8x25    | RKFG4010095 | RKFG5100095 |
| 72 | Lock bolt                    | RKFG4010072 | RKFG5100072 | 96  | Nut M8               | RKFG4010096 | RKFG5100096 |
|    |                              |             |             | 97  | Flange bolt M8x16    | RKFG4010097 | RKFG5100097 |
|    |                              |             |             | 98  | Tube clip            | RKFG4010098 | RKFG5100098 |
|    |                              |             |             | 99  | Fuel cock            | RKFG4010099 | RKFG5100099 |
|    |                              |             |             | 100 | Cushion              | RKFG4010100 | RKFG5100100 |

# EXPLODED DIAGRAM & PARTS LIST

| NO  | DESCRIPTION              | PART NO     |             | NO  | DESCRIPTION            | PART NO     |             |
|-----|--------------------------|-------------|-------------|-----|------------------------|-------------|-------------|
|     |                          | FG4050ES    | FG5100ES    |     |                        | FG4050ES    | FG5100ES    |
| 101 | Fitting brush, fuel tank | RKFG4010101 | RKFG5100101 | 128 | Voltage regulator      | RKFG4010128 | RKFG5100128 |
| 102 | Washer                   | RKFG4010102 | RKFG5100102 | 129 | Bolt M5x20             | RKFG4010129 | RKFG5100129 |
| 103 | Flange bolt M6x22        | RKFG4010103 | RKFG5100103 | 130 | Generator end cover    | RKFG4010130 | RKFG5100130 |
| 104 | Gasket, fuel sensor      | RKFG4010104 | RKFG5100104 | 131 | Frame comp.            | RKFG4010131 | RKFG5100131 |
| 105 | Fuel sensor              | RKFG4010105 | RKFG5100105 | 132 | Rubber pad, frame      | RKFG4010132 | RKFG5100132 |
| 106 | Screw M5x10              | RKFG4010106 | RKFG5100106 | 133 | Bolt M6x12             | RKFG4010133 | RKFG5100133 |
| 107 | Fuel filler cap          | RKFG4010107 | RKFG5100107 | 134 | Nut M6                 | RKFG4010134 | RKFG5100134 |
| 108 | Fuel tank                | RKFG4010108 | RKFG5100108 | 135 | Bottom rubber A        | RKFG4010135 | RKFG5100135 |
| 109 | Stripe, fuel tank        | RKFG4010109 | RKFG5100109 | 136 | Nut M6                 | RKFG4010136 | RKFG5100136 |
| 110 | Plug, sump               | RKFG4010110 | RKFG5100110 | 137 | Bottom rubber B        | RKFG4010137 | RKFG5100137 |
| 111 | Screw M5x14              | RKFG4010111 | RKFG5100111 | 138 | Rubber pad, frame      | RKFG4010138 | RKFG5100138 |
| 112 | Generator fan            | RKFG4010112 | RKFG5100112 | 139 | Nut M8                 | RKFG4010139 | RKFG5100139 |
| 113 | Stator cover             | RKFG4010113 | RKFG5100113 | 140 | Cushion, frame         | RKFG4010140 | RKFG5100140 |
| 114 | Nut M5                   | RKFG4010114 | RKFG5100114 | 141 | Control panel case     | RKFG4010141 | RKFG5100141 |
| 115 | Stator Assy              | RKFG4010115 | RKFG5100115 | 142 | Circuit protector      | RKFG4010142 | RKFG5100142 |
| 116 | Spring washer 5mm        | RKFG4010116 | RKFG5100116 | 143 | Consent                | RKFG4010143 | RKFG5100143 |
| 117 | Bolt M5x213              | RKFG4010117 | RKFG5100117 | 144 | Main wire harness Assy | RKFG4010144 | RKFG5100144 |
| 118 | Bearing 6204-2ZN         | RKFG4010118 | RKFG5100118 | 145 | Bolt M6x12             | RKFG4010145 | RKFG5100145 |
| 119 | Rotor Assy               | RKFG4010119 | RKFG5100119 | 146 | Earth terminal set     | RKFG4010146 | RKFG5100146 |
| 120 | Plain washer             | RKFG4010120 | RKFG5100120 | 147 | Voltmeter              | RKFG4010147 | RKFG5100147 |
| 121 | Bolt M10x265             | RKFG4010121 | RKFG5100121 | 148 | DC terminal            | RKFG4010148 | RKFG5100148 |
| 122 | Generator stay           | RKFG4010122 | RKFG5100122 | 149 | Ignition switch        | RKFG4010149 | RKFG5100149 |
| 123 | Screw M5x12              | RKFG4010123 | RKFG5100123 | 150 | Control panel          | RKFG4010150 | RKFG5100150 |
| 124 | Brush Assy               | RKFG4010124 | RKFG5100124 | 151 | Bearing 6202           | RKFG4010151 | RKFG5100151 |
| 125 | Bolt M6x175              | RKFG4010125 | RKFG5100125 | 152 | Balancing shaft        | RKFG4010152 | RKFG5100152 |
| 126 | Screw M5x18              | RKFG4010126 | RKFG5100126 | 153 | Split pin              | RKFG4010153 | RKFG5100153 |
| 127 | Clip A                   | RKFG4010127 | RKFG5100127 |     |                        |             |             |

## EXPLODED DIAGRAM & PARTS LIST

| NO  | DESCRIPTION                 | PART NO     |             |
|-----|-----------------------------|-------------|-------------|
|     |                             | FG4050ES    | FG5100ES    |
| 154 | Wheel kit                   | RKFG4010154 | RKFG5100154 |
| 155 | Bolt M8x60                  | RKFG4010155 | RKFG5100155 |
| 156 | Flat washer                 | RKFG4010156 | RKFG5100156 |
| 157 | Screw M8                    | RKFG4010157 | RKFG5100157 |
| 158 | Wheel axel                  | RKFG4010158 | RKFG5100158 |
| 159 | Wheel kit<br>Assy           | RKFG4010159 | RKFG5100159 |
| 160 | Underprop                   | RKFG4010160 | RKFG5100160 |
| 161 | Bolt M8x24                  | RKFG4010161 | RKFG5100161 |
| 162 | Handle bar                  | RKFG4010162 | RKFG5100162 |
| 163 | Bolt M8x40                  | RKFG4010163 | RKFG5100163 |
| 164 | Cable,<br>starting<br>motor | RKFG4010164 | RKFG5100164 |
| 165 | Relay, start-<br>up         | RKFG4010165 | RKFG5100165 |
| 166 | Starting<br>motor Assy      | RKFG4010166 | RKFG5100166 |
| 167 | Bolt M8x35                  | RKFG4010167 | RKFG5100167 |
| 168 | Battery                     | RKFG4010168 | RKFG5100168 |
| 169 | Battery<br>Bracket          | RKFG4010169 | RKFG5100169 |
| 170 | Dam Board                   | RKFG4010170 | RKFG5100170 |
| 171 | Nut                         | RKFG4010171 | RKFG5100171 |
| 172 | Bolt M6x12                  | RKFG4010172 | RKFG5100172 |

For Parts & Servicing, please contact CLARKE International, on one of the following numbers.

**PARTS & SERVICE TEL: 020 8988 7400**  
**PARTS & SERVICE FAX: 020 8558 3622**  
**or e-mail as follows:**

**PARTS: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)**  
**SERVICE: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**

# DECLARATION OF CONFORMITY (FG4050ES)



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

**Product Description:** Petrol Powered Generator  
**Model number(s):** FG4050ES  
**Serial / batch Number:** N/A  
**Date of Issue:** 26/02/2010  
*(Noise Conformity)*  
**Notified Body:** Societe Nationale De Certification ETD'  
Homologation S.A.R.L (SNCH)  
11 Rout De Sandweiler  
5230 Sandweiler  
Luxembourg

**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:** 3 kW  
**Measured Sound Power Level:** 96dB  
**Guaranteed Sound Power Level:** 97 dB

# DECLARATION OF CONFORMITY (FG4050ES)



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## 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):

- 2004/108/EC *Electromagnetic Compatibility Directive*
- 2006/42/EC *Machinery Directive.*
- 2006/95/EC *Low Voltage Equipment Directive*
- 2000/14/EC *Noise Emissions Directive (amended by 2005/88/EC).*
- 97/68/EC *Emission of Gaseous Particulates (amended by 2004/26/EC)*

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

*EN 60204-1:1997+A1, EN 12601:2001EN 55014-1:2006+A1:2009, EN 55014-2:2000, EN 55012:2002*

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: 2006

Signed:

J.A. Clarke  
Director

# DECLARATION OF CONFORMITY (FG5100ES)



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnal Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

**Product Description:** Petrol Powered Generator  
**Model number(s):** FG5100ES  
**Serial / batch Number:** N/A  
**Date of Issue:** 26/02/2010  
*(Noise Conformity)*  
**Notified Body:** Societe Nationale De Certification ETD'  
Homologation S.A.R.L (SNCH)  
11 Rout De Sandweiler  
5230 Sandweiler  
Luxembourg

**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:** 3.75 kW  
**Measured Sound Power Level:** 96dB  
**Guaranteed Sound Power Level:** 97 dB

# DECLARATION OF CONFORMITY (FG5100ES)



**Clarke**<sup>®</sup>  
INTERNATIONAL

Hemndall Street, Epping, Essex CM16 4LG

## 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):

- 2004/108/EC *Electromagnetic Compatibility Directive*
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- 2006/95/EC *Low Voltage Equipment Directive*
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