

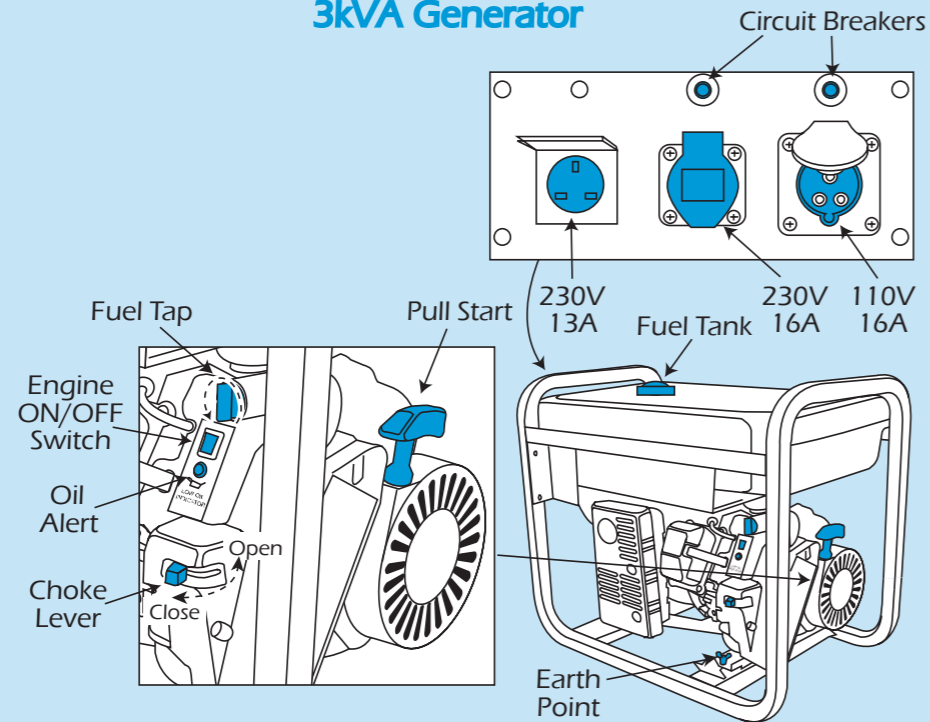
2.2 - 3.0 4.0kVA Petrol Generators

Petrol - driven, general purpose
generators.



Code 41103/41105/41106

3kVA Generator



If necessary, have a qualified electrician **disconnect** the **earthing lead** from the generator's earth terminal. Finally, **disconnect all power cables** and give the **unit a final clean** up ready for **return to Thermaright**.

Power Limits

Never overload the generator. To calculate the running load, add up the power ratings of everything to be connected to it in kilowatts **1kW (kilowatt) = 1000 W (Watts)**. Depending on the equipment being powered this should be between half and two-thirds the generator's kVA rating but, if in doubt, ask Thermaright for advice.

EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong tool for the job. Contact Thermaright for advice.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Regularly check the fuel level and top up as necessary with unleaded petrol.

Regularly check the oil level - when the engine is cold and on level ground. Withdraw the dipstick, wipe it clean, then replace it, remove it a second time and

verify that the oil level is between the min and max lines, **top up as necessary**. Suitable oils are available on sale or return from Thermaright.

Keep the engine upright at all times. If it should be tipped over, mop up oil and fuel spillage's and contact Thermaright.

Oil Alert

All Thermaright Generators switch OFF automatically if the engine oil level falls below a safe level a warning light will flicker if you try to restart. If this happens, simply leave the engine to cool and top up the oil level before attempting to restart.

When not in use, **store the equipment somewhere clean, dry and safe** from thieves.

FINISHING OFF

Switch OFF and disconnect any equipment being powered by the generator.

To switch the generator OFF, move the engines ON/OFF switch into the OFF position and wait for the engine to stop, then close the fuel tap.

... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so.

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: info@thermaright.co.uk

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GENERAL SAFETY

For advice on the safety and suitability of this equipment contact Thermaright.



There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.


The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.



This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.


This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from Thermaright.

  Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 This equipment generates potentially harmful noise levels. To comply with Health and Safety at Work regulations, ear defenders must be worn by everyone in the vicinity.

  Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 This equipment is heavy (41kg to 55kg dry depending on model), never attempt to lift it on your own, always get help.

Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at Thermaright.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty. Always switch the engine off and wait for moving parts to come to rest before making adjustments to it.

Exhaust Danger

NEVER operate petrol engines indoors or in a confined space.

The exhaust contains gases that can Kill.

Fuel Safety

NEVER refuel while the engine is hot or running. Never smoke or allow naked lights into the area while refuelling.

Never inhale fuel vapour.

ALWAYS mop up spillages as quickly as possible, and change your clothes if you get fuel on yourself.

ALWAYS store fuel in a purpose-made sealed container, in a cool, safe place well away from the work area.

Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them.

Keep flammable materials well away from engine and exhaust.

Make sure that everyone is warned of what you are doing.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to Thermaright

COSHH information sheets are available from Thermaright

ELECTRICAL SAFETY

Keep the generator and other electrical equipment dry at all times, providing it with adequate shelter from the weather. Operating in wet or very damp conditions can be dangerous.

If powering equipment that requires an earth, connect the generator's earth point to a suitable earthing point. Always turn OFF all electrical switches before making or breaking connections or servicing equipment powered by the generator.

Never start or stop the generator 'on load'. Always switch OFF and unplug all equipment powered by it.

Always turn OFF the generator's engine when not in use and before servicing the engine itself.

Never use a generator to power computers, and similar electronic equipment, unless you power them via a suitable surge protection device, available for hire from Thermaright.

Safety Cut Outs

All Thermaright generators have circuit breakers that cut OFF the power if the electrics become overloaded (due to a fault in the generator or the equipment being powered by it). If a circuit breaker trips, unplug everything, then reset the switch to restore the power.

GETTING STARTED

It is essential to familiarise yourself with all the controls before starting.

With the machine on firm level ground, check fuel and oil levels (see EQUIPMENT CARE).

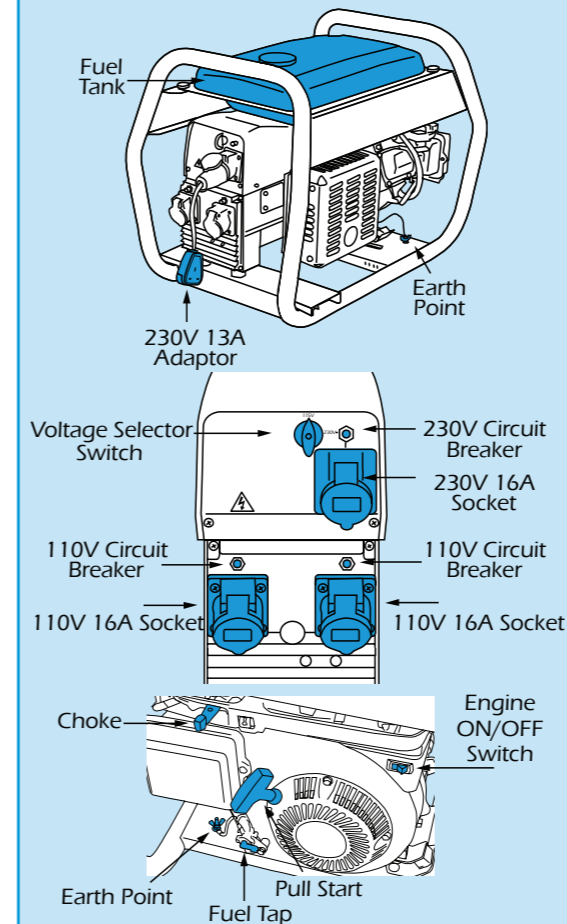
Disconnect any cables to the generator ready for starting the engine.

To start the generator, set the engines ON/OFF switch to ON, open the fuel tap and set the choke to fully closed if starting from cold, half closed if the engine is warm.

Two or three brisk pulls on the starter cord should now start the engine.

Once the engine has warmed up, fully open the choke.

4kVA Generator



Power Control

The output of most generators is controlled by an ON/OFF switch and a 110V/230V voltage selector. Other models, though, simply have an OFF setting on the voltage selector, rather than a separate ON/OFF switch.

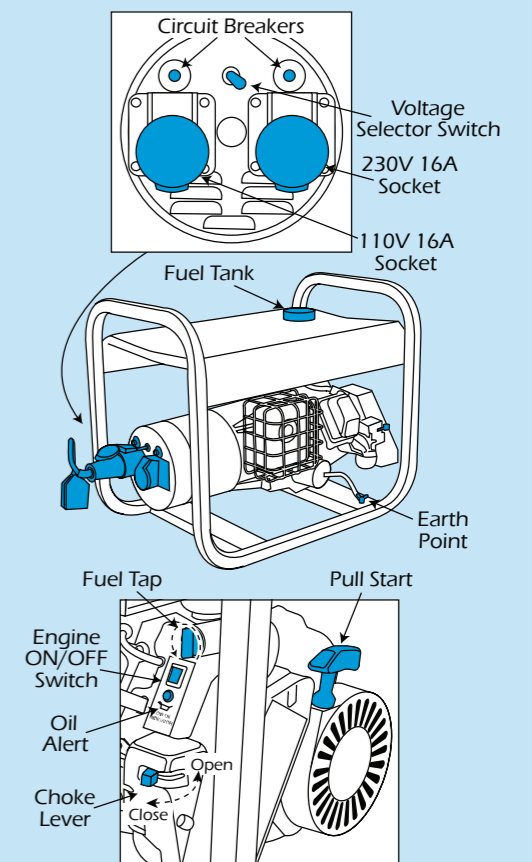
BASIC TECHNIQUES

The generator can supply either 110V or 230V, it is unable to supply both at the same time.

Connect up the equipment you want to power using suitable cables and plugs, making sure their switches are OFF.

Finally, select the voltage required by moving the voltage selector switch to either 110V or 230V.

2.2 kVA Generator



Know Your Symbols

Thermaright has created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,



Correct PPE must be worn



HAV Hand Arm Vibration



Danger Rotating blade



Danger Hot exhaust



Danger Electric shock



Caution Abrasive Wheel



Caution Finger trap

Fuel and Supply Types



Pe Petrol



Di Diesel



2t 2 - Stroke Petrol



EI Electric

Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.



Ro Read OPS Guide



Ou Outdoor Use only



HI Heavy Lifting



Cd Check Oil daily



Cf Check Fuel daily



Cw Check Water daily



Bc Battery Care



Sh Safe Height Working



Swl Refer to Data Plate



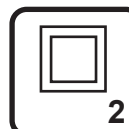
V Check Power Voltage Data Plate

Electrical Safety

Safe wiring procedures.



Ea Must be Earthed Class 1



Doi Double Insulated Class 2



Enl Earth Live Neutral Wire Coding

Return Responsibility

Charges apply to equipment returned dirty and damaged.



Cc Cleaning Charge



Rc Repair Charge