

# Digital Inverter Generator Instruction Manual

## iGen2600



# Westinghouse

INNOVATION YOU CAN BE SURE OF





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# CONGRATULATIONS ON PURCHASING A WESTINGHOUSE DIGITAL INVERTER GENERATOR

Thank you for purchasing a Westinghouse portable generator. It is a high-quality power product that will provide many years of safe and reliable service if properly operated and maintained.

## DANGER



This manual contains important instructions for operating the generator. For your safety and that of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions could cause you or others to be seriously hurt or killed. This manual should be considered a permanent part of the generator and should remain with it if resold.

### For Your Records:

Date of Purchase: \_\_\_\_\_ Generator Model Number: \_\_\_\_\_

Purchased From: \_\_\_\_\_ Generator Serial Number: \_\_\_\_\_

Purchase Receipt: Please retain your tax invoice or purchase receipt to ensure warranty coverage.

### DISCLAIMERS:

All instructions, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations or specifications to explain or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Your generator may differ slightly from the models pictured, including optional accessories.

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# SAFETY

## SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Be certain that the meanings of these alerts are known to all who work on or near the equipment.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol.

### DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

### WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### NOTICE

Indicates a situation which, if not avoided, could cause damage to the generator, personal property or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the generator to function in the manner intended.

## SAFETY SYMBOL DEFINITIONS

Symbol	Description
	Safety Alert Symbol
	Asphyxiation Hazard
	Burn Hazard
	Burst / Pressure Hazard
	Don't Leave Tools Around
	Electrical Shock Hazard
	Explosion Hazard
	Fire Hazard
	Lifting Hazard
	Pinch-Point Hazard
	Read Manufacturer's Instructions
	Wear Personal Protective Equipment (PPE)
	Read Safety Messages Before Proceeding

## GENERAL SAFETY RULES

### DANGER



Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical system.



Never operate the generator in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the generator outside and away from windows, doors and vents.

### WARNING



Voltage produced by the generator could result in death or serious injury.

- Never operate the generator in rain or a floodplain unless proper precautions are taken to avoid being subject to rain or flood.
- Never use worn or damaged extension cords.
- Always have a licensed electrician connect the generator to any fixed electrical installation.
- Never touch an operating generator if the generator is wet or if you have wet hands.
- Never operate the generator in highly conductive areas such as around metal decking or steel works.
- Always use earthed extension cords. Always use three-wire or double-insulated power tools.
- Never touch live terminals or bare wires while the generator is operating.
- Keep animals and children away from the generator at all times.

### WARNING



Petrol fuel liquid and vapours are extremely flammable and explosive under certain conditions.



- Always refuel the generator outdoors, in a well-ventilated area.
- Never remove the fuel cap while the engine is running.
- Never refuel the generator while the engine is running. Always turn engine off and allow the generator to cool before refuelling.
- Only fill fuel tank with unleaded petrol.
- Keep away from sparks, open flames or other forms of ignition such as matches, cigarettes, CB radios and mobile phones when refuelling.
- Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of fuel and result in spilled fuel coming in contact with hot surfaces. Spilled fuel can ignite. If fuel is spilled on the generator, wipe it up immediately and dispose of rags properly. Allow area of spilled fuel to dry before operating the generator.
- Wear eye protection while refuelling.
- Never use fuel as a cleaning agent.
- Store any fuel containers in a well-ventilated area, away from any combustibles or source of ignition.
- Check for fuel leaks after refuelling. Never operate the engine if a fuel leak is discovered.
- Equip the operating area with a Class ABE or BE portable fire extinguisher.



# SAFETY

## ⚠️ WARNING



Never operate the generator if: powered items overheat; electrical output drops; there are sparks, flames or smoke coming from the generator; or if the receptacles are damaged.



Never attempt to connect more than one generator or other electrical energy source (e.g. mains power supply, solar power system, battery and inverter power system, etc.) concurrently to the same electrical device, extension cord or fixed electrical installation.



Never use the generator to power medical support equipment.



Always remove any tools or other service equipment used during maintenance before operating the generator.

## ⚠️ WARNING



Do not operate in a hazardous location, e.g. where there may be a risk of explosion of petrol fumes, leaking gas or explosive dusts.



Do not operate in a confined area where exhaust gases, smoke or fumes could reach dangerous concentrations.



Do not refuel while engine is running.

## ⚠️ WARNING



You must take reasonable care for the health and safety both of yourself and any others who may be affected by your actions. You must understand and follow all of the safety rules and working instructions described herein. You must also use your own good judgement and common sense.

## NOTICE

Never modify the generator.

Never operate the generator if it vibrates at high levels, if the engine speed changes greatly or if the engine misfires often.

Always disconnect electric tools or appliances from the generator before starting.

**SAFETY LABELS**

The safety labels have specific positions and must be replaced if they are unreadable, damaged or missing.

<b>⚠ DANGER</b>		<b>⚠ WARNING</b>	
	The electrical output of this generator is potentially lethal. It should not be connected to a fixed electrical installation except by an appropriately licensed person.		Read Instruction Manual
	Engine exhaust contains poisonous carbon monoxide. Do not operate the generator in a confined space. Use it only outside and far away from windows, doors and vents.		Unleaded Petrol Only
	Do not operate the generator in a hazardous location where flammable or explosive liquids, gases or dusts may be present.	 <b>Westinghouse</b> Westinghouse Outdoor Power Equipment 777 Manor Park Drive Columbus 43228 Ohio USA <a href="http://www.westinghouse.net.au">www.westinghouse.net.au</a>  <i>Made in Vietnam</i>	
	Petrol is highly flammable. Keep it away from sparks, flames and other sources of ignition. Do not refuel the generator while engine is running.		



2

1



Figure 1 - Safety Labels

# UNPACKING

## UNPACKING THE GENERATOR

### ⚠ WARNING



Always have assistance when lifting the generator. The generator is heavy; lifting it could cause bodily harm.



Avoid cutting on or near staples to prevent personal injury.

1. Carefully cut the packing tape on top of the carton.
2. Fold back top flaps to reveal the upper packing tray.
3. Remove and save the instruction manual, oil bottle, oil funnel and spark plug socket wrench.
4. Remove and discard the upper packing tray.
5. Unfold the top of the plastic bag enclosing the generator.
6. Lift the generator out of the plastic bag and carton.
7. Recycle or dispose of the packaging materials properly.

## ACCESSORIES

Check the accessories against those shown in Figure 2. If any parts are missing, please contact your local Westinghouse dealer.

A – Bottle of SAE 10W-30 Engine Oil (350 ml for iGen2600).

B – Spark Plug Socket Wrench

C – Double-Ended Screwdriver

D – Oil Funnel

E – Instruction Manual



Figure 2 - Accessories

## MAIN GENERATOR COMPONENTS



- 1 - Carry Handle
- 2 - Fuel Cap and Vent
- 3 - Control Panel
- 4 - Engine, Fuel and Choke Control Switch
- 5 - Recoil Starter Handle
- 6 - Exhaust Pipe
- 7 - Muffler Access Cover
- 8 - Oil Access Cover
- 9 - Engine Access Cover Lock
- 10 - Engine Access Cover

Figure 3 - iGen2600 Main Generator Components



# FEATURES

## CONTROL PANEL FEATURES

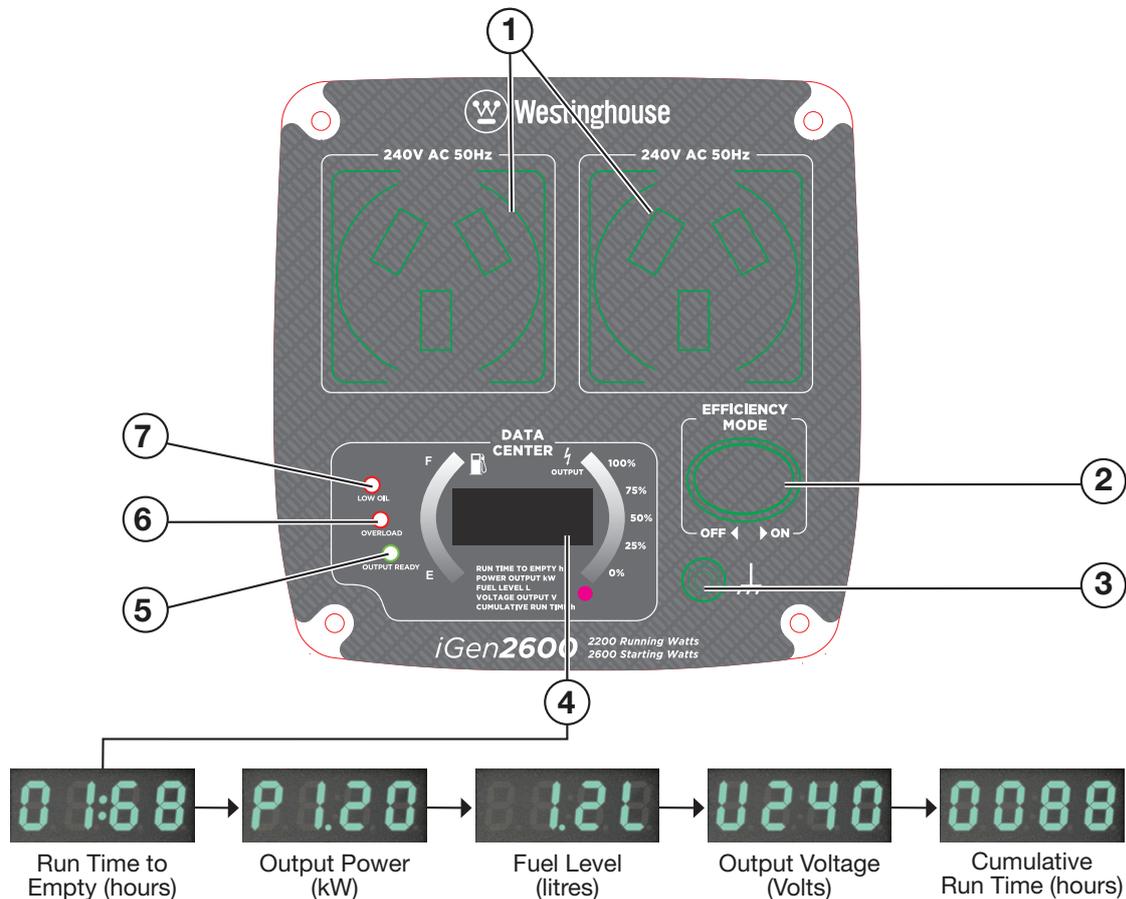


Figure 4 - iGen2600 Control Panel Features

- 1. 240-Volt AC, 15-Amp Outlets:** Each outlet is capable of delivering the generator's peak output of 2,600 Watts.
- 2. ECO Throttle Switch:** Move the switch to the ON position when powering small resistive loads such as a computer or electric light; the engine speed will automatically be kept to a minimum, thereby reducing fuel consumption and noise. Select the OFF position when powering large inductive loads such as an air conditioner or electric pump; the engine speed will be kept higher for maximum electrical starting power.
- 3. Frame Terminal:** The frame terminal can be used by a licensed electrician to earth the generator if necessary.
- 4. Data Center:** The alphanumeric LED display usually shows the run time to empty based on the current output power and fuel level. This parameter is displayed automatically upon start-up. Press the button on the lower right-hand side of the data center fascia to cycle the display through the output power, fuel level, output voltage and cumulative run time values, as required, before returning to the run time to empty value. The curved LED graphic displays to the left and right of the alphanumeric display show the fuel level and output power, respectively.
- 5. Output Indicator:** The green status light will illuminate whenever the engine is running and there's AC output available from the generator.

6. **Overload Alarm:** The red warning light will illuminate if the generator's AC output is overloaded or short-circuited. A brief small overload may be tolerated, but the connected load should be reduced. An extended large overload or short circuit will trip the overload protection feature and disconnect the generator's AC output even though the engine is still running. Stop the engine and then re-start it to restore AC output.
7. **Low Oil Alarm:** The red warning light will illuminate and the engine will automatically shut down if the oil level becomes too low. Add oil to the correct level before re-starting the engine.

# OPERATION

## BEFORE STARTING THE GENERATOR

**Location Selection** – Before starting the generator, avoid exhaust and location hazards by verifying that:

- You have selected a location to operate the generator that is outdoors and well ventilated.
- You have selected a location with a level and solid surface on which to place the generator.
- You have selected a location that is at least 1.8 m away from any building, other equipment or combustible material.
- If the generator is located close to a building, it is not located near any windows, doors or vents.

**⚠ DANGER**

Using a generator indoors **can kill you** in minutes. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.



**Never** use inside a home or garage, **even if** doors and windows are open.

Only use **outside** and far away from windows, doors and vents.

**⚡** The output of this generating set is potentially **lethal**. The set should not be connected to a fixed electrical installation except by an appropriately licensed person.

**⚠ WARNING**



**Always operate the generator on a level surface. Placing the generator on a non-level surface can cause the generator to tip over, causing fuel and oil to spill. Spilt fuel can ignite if it comes into contact with an ignition source such as a very hot surface.**

**NOTICE**

Only operate the generator on a solid, level surface. Operating the generator on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the generator that could:

- Block cooling vents
- Block air intake system

**NOTICE**

Ensure that the generator is always kept horizontal during handling, operation, storage and transport. Flipping the generator over onto its side, end or top will damage it.

**Weather** – Never operate or store your generator outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the generator.

**Dry Surface** – Always operate or store the generator on a dry surface free of any moisture.

**No Connected Loads** – Make sure the generator has no connected loads before starting it. To ensure there are no connected loads, either unplug any electrical cords or devices from the 240-Volt AC receptacles on the control panel or check that they are switched off.

**Extensions Cords** – Locate the generator in a convenient place, avoiding long extension cords and possible damage to them by pedestrians or vehicles.

**NOTICE**

Starting the generator with loads already connected to it could result in damage to any device being powered by the generator during the brief start-up period.

**Earthing the Generator** – The generator’s equipotential bonding system including the frame terminal on the control panel should not be connected to the general mass of earth through a separate earth electrode. For more information, refer to AS/NZS 3010:2017 Electrical Installations – Generating Sets or consult a licensed electrician.

**⚠ WARNING**



**Be sure the generator is properly installed to reduce the possibility of electric shock. Any connection to an electrical installation such as in a building, for example, must be carried out by a licensed electrician.**

## CHECKING OR ADDING ENGINE OIL AND FUEL

**⚠ DANGER**



**Filling the fuel tank with fuel while the generator is running can cause fuel to spill and come in contact with hot surfaces that can ignite the fuel.**

Before starting the generator, always check the engine oil and fuel levels.

After starting the generator, it is not safe to add fuel to the fuel tank or engine oil to the engine while the engine is running or immediately after stopping while the engine and muffler are still hot.

## Checking and Adding Engine Oil

### ⚠ WARNING



Internal pressure can build up in the engine crankcase while the engine is running. Removing the oil fill plug while the engine is hot can cause hot oil to spray out of the crankcase and cause severe skin burns. Allow engine oil to cool for several minutes before removing the oil fill plug.

The generator as shipped does not contain oil in the engine. You must add engine oil before starting the generator for the first time. See Checking Engine Oil and Adding Engine Oil for instructions on checking engine oil level and the procedure for adding engine oil.

### NOTICE

The generator does not contain engine oil as shipped. Attempting to start the engine before adding engine oil can permanently damage internal engine components.

## Checking and Adding Fuel

### ⚠ WARNING



Never refuel the generator while the engine is running.



Always turn the engine off and allow the generator to cool before refuelling.

With the generator switched off and stationary on a horizontal surface, check the fuel level in the tank visually by removing the fuel cap. It is good practice to always fill the fuel tank before operating the generator.

**Required Fuel** – Use only unleaded petrol with an octane rating not less than 91 and ethanol content not greater than 10%. Where possible it is preferable to use regular unleaded petrol without ethanol.

**Filling the Fuel Tank** – Follow the steps below to fill the fuel tank:

1. Stop the generator, if running.
2. Allow the generator to cool down until the muffler access cover is cool to the touch.
3. Move the generator to a flat surface.
4. Clean area around the fuel cap.
5. Turn the fuel cap vent clockwise to the ON position.

6. Remove the fuel cap by unscrewing it anti-clockwise.
7. Slowly add fuel into the fuel tank. Be careful not to overfill the tank. The fuel level should NOT be higher than the red ring inside the fuel strainer (see Figure 5).
8. Replace the fuel cap by screwing it on clockwise and turn the fuel cap vent anti-clockwise to the OFF position.

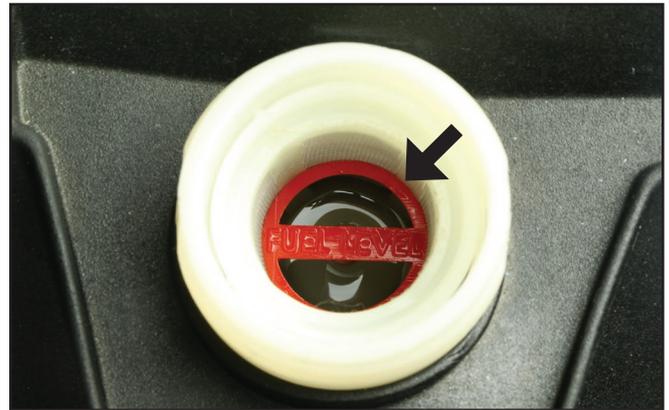


Figure 5 – Maximum Fuel Fill Level

### ⚠ CAUTION



Avoid prolonged skin contact with fuel. Avoid prolonged inhalation of fuel vapours.

### NOTICE

Do not overfill the fuel tank. Spilt fuel may damage some plastic parts.

## STARTING THE GENERATOR

Before attempting to start the generator, verify the following:

- The engine is filled with engine oil (see Checking Engine Oil).
- The generator is situated in a proper location (see Location Selection).
- The generator is on a dry surface (see Weather and Dry Surface).
- All loads are disconnected from the generator or switched off (see No Connected Loads).



# OPERATION

## **⚠ DANGER**



Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical system.



Never operate the generator in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the generator outside and away from windows, doors and vents.

## **NOTICE**

The generator is equipped with a low oil shutdown switch. If the oil level becomes too low, the engine will shut down automatically and cannot be re-started until the oil is filled to the proper level.

Be sure the engine has the proper oil level before using. Failure to verify that the engine has the proper oil level could result in severe engine damage or shorten the engine life.

Disconnect or switch off all loads from the generator before starting. Failure to verify all loads are disconnected prior to starting the generator could result in damage to the connected electrical devices.

The primary touch points that the user needs to interact with when starting the generator are identified with yellow coloured markings.

1. Turn the fuel cap vent to the ON position (see Figure 6).



Figure 6 – Fuel Cap Vent in the ON Position

2. Turn the engine, fuel and choke control switch anti-clockwise to the CHOKE position if starting a cold engine (see Figure 7). To re-start a warm engine, turn the knob to the ON position.



Figure 7 – Engine, Fuel and Choke Control Switch in the CHOKE Position

3. Whilst holding the generator down with one hand, firmly grasp the recoil starter handle with your other hand and pull it slowly until you feel increased resistance. At this point, pull it briskly up and away from the generator (see Figure 8). Do not allow the starter handle to snap back against the engine, but instead return it gently to prevent starter damage. Do not allow the starter cord to rub against other parts of the generator.



Figure 8 – Recoil Starter Handle Operation

4. As the engine starts running and warms up, turn the engine, fuel and choke control switch clockwise to the ON position.
5. Connect electrical cords or devices into the 240-Volt AC outlets, as required.

## ECO THROTTLE CONTROL

The generator is equipped with ECO Throttle Control to minimise fuel consumption. In ECO mode, the generator senses the electrical load demand and adjusts the engine speed and power output to match it; if there is no electrical load connected, the engine speed drops down to idle. ECO mode should only be used once the generator has reached normal operating temperature after running for at least five minutes. When starting large inductive loads such as an air conditioner or pump, ECO mode should be switched off so that the engine speed will be kept higher for maximum electrical starting power availability.

To activate ECO mode, move the ECO throttle switch to the ON position (see Figure 9).



Figure 9 – ECO Throttle Switch in the ON Position

To deactivate ECO mode, move the ECO throttle switch to the OFF position.

## OVERLOAD RESET

An electrical overload or short circuit will trip the overload protection system by disconnecting the generator's AC output even though the engine is still running. If this occurs, the overload alarm light will be illuminated red and the output indicator light will be off. The AC output can be restored as follows:

1. Turn off or unplug any electrical devices or cords from the 240-Volt AC receptacles on the control panel.
2. Stop and re-start the generator.
3. Check that the intended electrical running and starting loads do not exceed the generator's capacity or have a licensed electrician rectify any fault causing a short circuit in the load.
4. Reconnect any electrical devices or cords to the receptacles on the control panel and then turn on the electrical loads as required.

## STOPPING THE GENERATOR

### Normal Operation

During normal operation, use the following steps to stop the generator:

1. Turn off or unplug any electrical cords or devices from the 240-Volt AC receptacles on the control panel.
2. Allow the generator to run unloaded for at least one minute to cool and stabilise the engine and alternator temperatures.
3. Turn the engine, fuel and choke control switch clockwise to the OFF position.
4. Turn the fuel cap vent anti-clockwise to the OFF position.

### During an Emergency

If there is an emergency and the generator must be stopped quickly, follow the procedure in Step 3 above with haste.

## APPLICATION AND DUTY CYCLE

All models within the iGen range of Westinghouse generators are portable, air-cooled, petrol-engine driven, self-contained units designed for independent supply of electrical power. They are ideal as a backup power supply in the event of mains power failure or as a remote area power supply for use when camping, caravanning or working out in the field.

For most common applications, users can connect a Westinghouse generator to power electrical devices by detachable plug and socket-outlet connection as described in this manual.

Westinghouse generators can also be connected to a fixed electrical installation such as in a house or business premises, for example, by a licensed electrician.

## AMBIENT CONDITIONS

The generator is designed to operate within the following range of ambient conditions:

- Temperature: -5 to +40°C
- Altitude: Up to 1,000 m

Where possible, the generator should be operated in the shade to prevent additional heat load due to solar radiation.

The engine's power output will decrease by approximately 3.5% for each 300 m increase in altitude above sea level. This is normal for spark-

# OPERATION

ignition engines and is attributable to the decrease in atmospheric pressure (and thus the available air for combustion) as altitude increases.

## CONNECTING ELECTRICAL LOADS

The generator can be used to power 240-Volt AC, 50 Hz, single phase electrical devices. Maintain normal safety precautions with appliances and accessories as for use when connected to the mains power supply.

### 240-Volt AC Loads

240-Volt AC devices can be connected either directly or via electrical extension cords into the 240-Volt AC outlet(s) on the generator's control panel. Lift up the spring-loaded weather resistant cover on each outlet for access to connect the electrical device or cord.

240-Volt AC devices may be fitted with either a three-pin 15 Ampere (typically abbreviated "15 Amp" or "15 A") plug or a three-pin 10 Ampere ("10 Amp" or "10 A") plug as shown in Figure 10. Certain double-insulated devices may be fitted with a two-pin 10 A plug that doesn't have an earth pin (which is the longer, vertical pin).

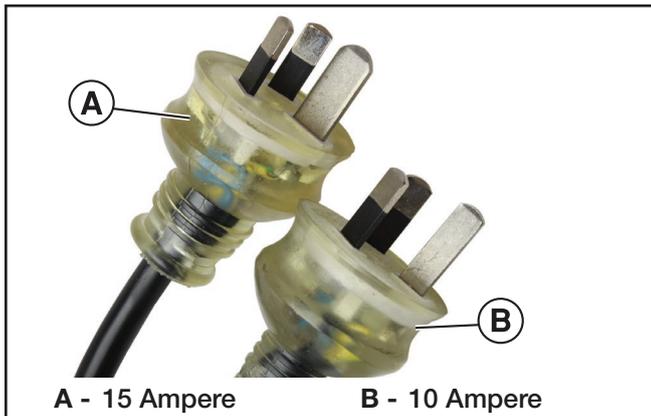


Figure 10 – 240-Volt AC Three-Pin Plugs

### NOTICE

DO NOT connect any 240-Volt AC device that is fitted with a three-pin 20 A plug. This can overload the generator.

See 240-Volt AC Extension Cords for detailed instructions concerning their selection and use.

### Power Output and Demand

There are two limits to the amount of electric power that the generator can usefully provide: (a) its total 240-Volt AC electric power generating capacity or power output and (b) the electric current or power output capacity of each individual 240-Volt AC outlet.

The generator's total power output measured in Watts is listed in the Specifications. Two 240-Volt AC power outputs are specified for the generator, namely the running power and the starting power.

### NOTICE

DO NOT overload the generator's 240-Volt AC circuit beyond its rated capacity. This can result in damage to the generator or to the connected devices.

The generator should not be run completely unloaded for extended periods otherwise the engine may be damaged. It is recommended that the generator should always be operated with at least one-third of its rated 240-Volt AC power output.

240-Volt AC devices have two different electric power demands that must be taken into consideration, namely the running power and the starting power. Both are measured in Watts (typically abbreviated as "W").

The steady state continuous load is the running power demand and this is often marked on the device near its model number or serial number. Sometimes the device might only be marked with its voltage (i.e. 240 Volt or 240 V) and current draw (e.g. 6 Ampere or 6 Amp or 6 A), in which case the running power demand in Watts can be obtained by multiplying the voltage times the current, e.g.  $240\text{ V} \times 6\text{ A} = 1,440\text{ W}$ .

Simple resistive 240-Volt AC devices such as incandescent bulbs, toasters, heaters, etc. have no extra power demand when starting, and so their starting power demands are the same as their running power demands.

More complex 240-Volt AC devices containing inductive or capacitive elements such as electric motors have a momentary extra power demand when starting, which can be up to seven times the running power demand or more. Manufacturers of such devices rarely publish this starting power demand and so it's often necessary to estimate it.

A rule of thumb for devices fitted with an electric motor is to apply a starting power multiplier of 1.2 for small hand-held or portable devices and a value of 3.5 for larger stationary devices. For example, a 900 W angle grinder can be assumed to have a starting power demand of at least  $1.2 \times 900\text{ W}$ , which equals 1,080 W. Similarly, a 1,650 W air compressor can be assumed to have a starting power demand of at least  $3.5 \times 1,650\text{ W}$ , which equals 5,775 W.

To prevent overloading of the generator's 240-Volt AC system:

1. Add up the running power demand of all the 240-Volt AC devices that will be connected to the generator at one time. This total must not be greater than the generator's specified running power output.
2. Add up the running power demand again, but for the largest motor-driven device use the value of its starting power demand instead of its running power demand. This total must not be greater than the generator's specified starting power output.
3. The total running power demand of all the devices that will be connected to any one of the generator's outlets must not exceed the generator's specified running power output or 3,600 W, whichever is the lesser.

The above guidelines serve as approximations only of determining the running and starting power demands of 240-Volt AC devices. If in doubt, always err on the conservative side to avoid overloading the generator. In the absence of any power demand information whatsoever, one can assume that any device fitted with a standard domestic 10 A plug has a maximum running power demand of 2,400 W (i.e.  $240\text{ V} \times 10\text{ A} = 2,400\text{ W}$ ). Similarly, a device fitted with a heavy duty 15 A plug can be assumed to have a maximum running power demand of 3,600 W (i.e.  $240\text{ V} \times 15\text{ A} = 3,600\text{ W}$ ). And then apply the appropriate multiplying factor for starting power demand if the device has an electric motor.

## 240-VOLT AC EXTENSION CORDS

Wherever possible, it is recommended to connect 240-Volt AC devices directly to the generator's 240-Volt AC outlet(s). This ensures that the device is supplied with the best quality electricity.

In those instances where it's not practicable or safe to directly plug an electrical device into the generator, the use of an electrical extension cord is necessary.

1. Use only the shortest possible extension cord for the task. Voltage drop increases proportionately with the length of an extension cord and may result in damage to the powered device.
2. Use only a single extension cord and not multiple cords joined together. This will minimise voltage drop and prevent any hazard or inconvenience arising from the joint(s) becoming disconnected.
3. Use only extra heavy duty 15 A extension cords made from 3-core cable of at least  $1.5\text{ mm}^2$  conductor size and fitted with 15 A plugs and sockets (see Figure 10). A 15 A plug cannot be

inserted into a standard domestic 10 A socket.

4. Extension cords with conductor size of  $1.5\text{ mm}^2$  or  $2.5\text{ mm}^2$  should not exceed 25 m or 40 m in length, respectively, for general use in accordance with AS/NZS 3199:2007.

### NOTICE

DO NOT use extension cords with only 2-pin (active and neutral) plugs and sockets. These extension cords lack the earth connection that is provided by a 3-pin plug and socket joined with a 3-core cable; the vertical pin is the earth connection.

5. DO NOT use extension cords with any visible signs of damage to the plug, socket or cable.
6. DO NOT use extension cords that are rolled up or knotted as they may overheat.
7. Check the continuity of the extension cord's earthing core periodically from pin to socket for assured electrical safety.

## 12 VOLT BATTERY CHARGING

The generator can be used to charge an external 12 Volt battery by using a mains-powered 12 Volt battery charger connected to one of the generator's 240-Volt AC outlets.

### DANGER



Wet cell batteries produce explosive hydrogen gas while charging. If ignited, the hydrogen gas mixture can explode the battery and cause serious injury or blindness. Only charge a battery in a well-ventilated area away from any sources of ignition such as sparks, open flames, matches, cigarettes, CB radios and mobile phones.



The electrolyte fluid inside a battery contains highly corrosive sulphuric acid, which upon contact with the skin or eyes can cause severe burns or blindness. Always wear protective glasses and clothing – including gloves – when working on a battery. Any electrolyte spill should be thoroughly flushed clean with water.

# OPERATION

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## Battery Charging by a Mains-Powered Charger

This method is recommended. Using a proper mains-powered 12 Volt battery charger will ensure that the battery is optimally charged and without risk of damage due to overcharging.

**Tools required** – 240-Volt AC powered 12 V DC battery charger.

1. Prepare the battery for charging if it is a user-maintainable type by removing the vent caps and adding demineralised or distilled water until the electrolyte level is just above the internal battery plates. This may not be possible with a maintenance-free battery.
2. Connect the battery charger's positive (+) alligator clip or terminal clamp (red) to the positive (+) terminal on the battery.
3. Connect the battery charger's negative (-) alligator clip or terminal clamp (black) to the negative (-) terminal on the battery.
4. Start the generator.
5. Make any necessary pre-charging adjustments or settings on the battery charger in accordance with its operating instructions.
6. Insert the battery charger's power supply plug into one of the generator's 240-Volt AC outlet sockets and then switch the battery charger ON. The battery is now charging. Keep the battery as far away as possible from the generator due to the explosive gas hazard.
7. Monitor the battery; stop charging if the battery gets hot to the touch and the electrolyte boils violently.
8. Monitor the battery charger in accordance with its operating instructions and switch it off when indicated to do so.
9. Switch the battery charger OFF and unplug its power supply cord from the generator.
10. Stop the generator unless it's being used to power some other 240-Volt AC device(s).
11. Disconnect the battery charger's negative (-) alligator clip or terminal clamp (black) from the negative (-) terminal on the battery.
12. Disconnect the battery charger's positive (+) alligator clip or terminal clamp (red) from the positive (+) terminal on the battery.
13. Re-fit the battery's vent caps, if applicable. The battery is now charged and ready for use.

## TRANSPORTING THE GENERATOR

The generator should be stopped and both the fuel control switch and fuel cap vent should be turned to the OFF position before transporting the generator. Keep the unit level during transport to minimise the possibility of fuel leakage or, if practicable, drain out the fuel prior to transport as described in Draining the Fuel.

If the generator has been operating, allow the unit to cool down before loading it onto the transport vehicle.

Use only the generator's fixed handle for lifting the unit or attaching any load restraints such as ropes or tie-down straps. Do not attempt to lift or secure the generator by holding onto any of its other components.

# MAINTENANCE

## MAINTENANCE PRECAUTIONS

### ⚠ WARNING



Avoid accidentally starting the generator during maintenance by removing the spark plug boot from the spark plug.



Allow hot components to cool to the touch prior to performing any maintenance procedure.



Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug while the engine is hot can cause hot oil to spray out of the crankcase and cause severe skin burns. Allow engine oil to cool for several minutes before removing the oil fill plug.



Always perform maintenance in a well-ventilated area. Fuel and fuel vapours are extremely flammable and can ignite under certain conditions.

### ⚠ CAUTION



Avoid skin contact with engine oil or fuel. Prolonged skin contact with engine oil or fuel can be harmful. Frequent and prolonged contact with engine oil may cause skin cancer. Take protective measures and wear protective clothing and equipment. Wash all exposed skin with soap and water.

## MAINTENANCE SCHEDULE

### ⚠ WARNING



Failure to perform periodic maintenance or not following maintenance procedures can cause the generator to malfunction and could result in death or serious injury.

### NOTICE

Periodic maintenance intervals vary depending on generator operating conditions. Operating the generator under severe conditions, such as sustained high-load, high-temperature, or unusually wet or dusty environments, will require more frequent periodic maintenance. The intervals listed in the maintenance schedule should be treated only as a general minimum guideline. Use only genuine Westinghouse spare parts or others as specified herein. Non-genuine spare parts may be of inferior quality and cause damage to the generator.

Following the maintenance schedule is essential to keep the generator in good operating condition. Table 1 provides a summary of routine inspection procedures and simple maintenance tasks that can be performed by someone with mechanical proficiency using commonly available hand tools. Alternatively, an authorised Westinghouse service dealer can carry out this work for a fee.

Table 1: Basic Maintenance Schedule - Owner Performed

Maintenance Item	Before Every Use	After First 20 Hours or First Month *	After 50 Hours or Every 3 Months *	After 100 Hours or Every 6 Months *	After 250 Hours or Every Year *
Engine Oil	Check / Add	Change	–	Change	–
Air Filter	Check / Clean	–	Clean ^	–	–
Spark Plug	–	–	–	Check / Clean	Replace
Fuel Strainer	–	–	–	Clean	–
Spark Arrester	–	–	–	Clean	–
Exterior Surfaces	Check / Clean	–	–	–	–

\* Whichever occurs first. ^ Service more frequently if operating in dusty conditions.

# MAINTENANCE

Table 2 lists the more complicated maintenance tasks that are best performed by a qualified mechanic using specialised tools. It is recommended to engage an authorised Westinghouse service dealer to carry out this work.

**Table 2: Advanced Maintenance Schedule - Authorised Westinghouse Service Dealer Performed**

Maintenance Item	After 250 Hours or Every Year *	After 500 Hours or Every 2 Years *
Valve Clearance	Check / Adjust	-
Combustion Chamber	-	Clean

\* Whichever occurs first.

## ENGINE OIL MAINTENANCE

### Engine Oil Specification

Use premium quality 4-stroke engine oil with an API Service Classification of at least SF. A SAE multigrade viscosity of 10W-30 is suitable for use in ambient temperatures of up to 40°C. For temperatures above 40°C, a multigrade viscosity of 15W-40 is recommended.

NEVER use 2-stroke engine oil either directly in the engine or mixed with the fuel.

Mineral based, semi-synthetic or fully synthetic oils may be used, but different types of oils should not be mixed together. The engine oil supplied originally with the generator is a mineral type with SAE 10W-30 viscosity.

### Checking Engine Oil

#### NOTICE

Always maintain proper engine oil level. Failure to maintain proper engine oil level can damage the engine. Always use the specified engine oil. Failure to use the specified engine oil can damage the engine.

**Tools required** - None.

Engine oil level should be checked before every use.

1. Always operate or maintain the generator on a flat surface.
2. Stop engine if running.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalise).
4. Turn the engine access cover lock anti-clockwise to the unlocked position (see Figure 11).
5. Grip and pull away on the engine access cover lock to open and remove the engine access cover (see Figure 12).
6. Pull up on the oil access cover to remove it (see Figure 13).



**Figure 11 - Engine Access Cover Lock in the Unlocked Position**



**Figure 12 - Removing the Engine Access Cover**



**Figure 13 - Removing the Oil Access Cover**

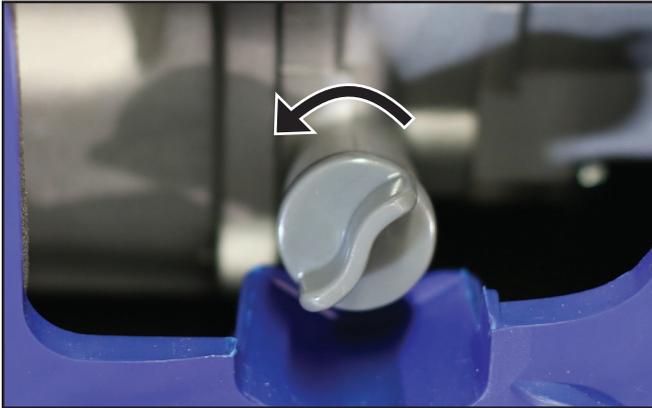


Figure 14 - Removing the Oil Fill Plug

7. Remove the oil fill plug by unscrewing it anti-clockwise (see Figure 14).
8. Check oil level:
  - Acceptable Oil Level – Oil surface is at the bottom lip of the oil fill plug opening (see Figure 15).
  - Low Oil Level – Oil surface is below the bottom lip of the oil fill plug opening. Add oil as required. See Adding Engine Oil.
  - Too High Oil Level - Oil flows out when the oil fill plug is removed. Allow the excess oil to drain out into a waste oil container.
9. Reinstall the oil fill plug, oil access cover and engine access cover.



Figure 15 – Checking Oil Level

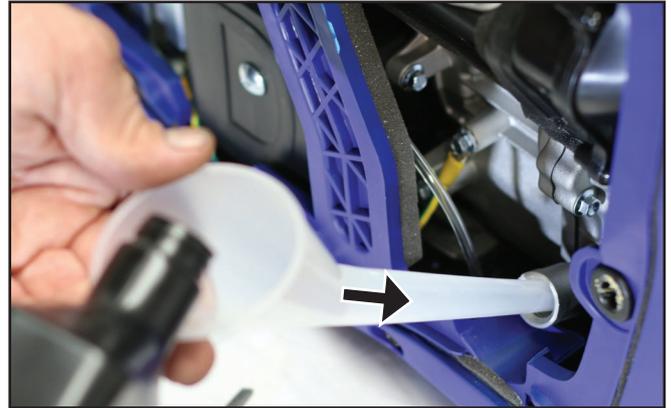


Figure 16 – Adding Engine Oil

## Adding Engine Oil

**Tools required** - None.

1. Always operate or maintain the generator on a flat surface.
2. Stop the engine, if running.
3. Let engine cool down for several minutes allowing crankcase pressure to equalise.
4. Remove the engine access cover and oil access cover (see Figures 11, 12 and 13).
5. Thoroughly clean around the oil fill plug.
6. Remove the oil fill plug.
7. Select proper engine oil as described in Engine Oil Specification.
8. Using the supplied oil funnel, slowly add engine oil to the engine as shown in Figure 16. Check the oil level periodically to avoid overfilling.
9. Continue to add oil until the oil is at the correct level. See Checking Engine Oil. A simple visual guide is to observe the oil level relative to the bottom lip of the oil filler neck in the engine into which the oil fill plug is screwed. If the oil reaches the bottom lip, then it's at the high level. If the oil is above the bottom lip and flows out of the hole, then it's too full and the excess must be drained out.
10. Reinstall the oil fill plug, oil access cover and engine access cover

## Changing Engine Oil

**Tools required** - Oil drain pan or oil extractor vacuum pump.

1. Stop the engine, if running.
2. Let engine cool down for several minutes allowing crankcase pressure to equalise.
3. Remove the engine access cover and oil access cover (see Figures 11, 12 and 13).



# MAINTENANCE

4. Place oil pan or other suitable container under the oil fill plug.
5. With a damp rag, thoroughly clean around the oil fill plug.
6. Remove the oil fill plug. Once removed, place the oil fill plug on a clean surface.
7. Tilt the generator over to drain oil into a waste oil pan or container (see Figure 17).



Figure 17 – Draining the Engine Oil

8. Allow oil to drain completely.
9. Fill crankcase with new oil following the steps outlined in Adding Engine Oil.
10. Reinstall the oil fill plug, oil access cover and engine access cover.

An alternate and superior method for draining is to use an oil extractor vacuum pump to remove the used oil via the oil fill plug hole.

## NOTICE

Never dispose of used engine oil by dumping the oil into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the government agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

## AIR FILTER MAINTENANCE

### WARNING



Never use fuel or other flammable solvents to clean the air filter. Use only household detergent and warm water or alternatively a non-flammable solvent.

## NOTICE

Do not operate the generator without an air filter element or with a damaged air filter element. This will allow dirt to enter the engine and cause accelerated wear.

## Cleaning the Air Filter

**Tools required** - #2 Phillips head screwdriver.

The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if generator is operated in a dusty environment).

1. Turn off the generator and let it cool for several minutes if it's been running.
2. Move the generator to a flat, level surface.
3. Remove the engine access cover (see Figures 11 and 12).
4. Remove the air filter cover by undoing the central fixing screw (see Figure 18) to release the cover. Clean the air filter cover with a rag and place it aside.



Figure 18 - Removing the Air Filter Cover

5. Remove the foam air filter element while taking care to note its shape and orientation (see Figure 19). The air filter element must be re-installed later in the same position.



Figure 19 – Removing the Air Filter Element

6. Wash the air filter element in a solution of household detergent and warm water or alternatively in non-flammable solvent. Slowly squeeze the foam in the liquid for a thorough cleaning action. Then remove the foam and squeeze out the liquid.

## NOTICE

NEVER twist or tear the air filter element during cleaning or drying. Apply only a slow and firm squeezing action.

7. Rinse the air filter element by immersing it in fresh water and applying a slow squeezing action.

## NOTICE

Never dispose of the used cleaning solution or solvent by dumping it into a sewer, on the ground, into groundwater or into a waterway. Always be environmentally responsible. Follow the guidelines of the governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

8. Dry the air filter element by repeatedly applying a slow firm squeezing action.
9. Coat the air filter element in clean engine oil and then thoroughly squeeze out the excess liquid.
10. Reinstall the air filter element inside the air filter housing while taking care to ensure that the element is correctly positioned.
11. Reinstall the air filter cover and engine access cover.

## FUEL STRAINER MAINTENANCE

Check and clean the fuel strainer after every 100 hours of use or 6 months. It is recommended that this maintenance task also be performed each time when filling with fuel from any source other than directly from a service station bowser.

1. Stop the generator, if running.
2. Allow the generator to cool down until the muffler access cover is cool to the touch.
3. Remove the generator to a flat surface.
4. Clean area around the fuel cap.
5. Turn the fuel cap vent to the ON position, if equipped.
6. Remove the fuel cap and set it aside on a clean surface.

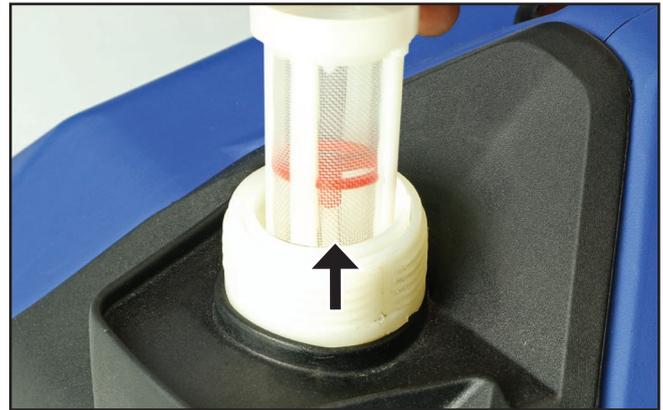


Figure 20 – Removing the Fuel Strainer

7. Remove the fuel strainer by hand from inside the filler hole on top of the fuel tank (see Figure 20) taking care not to tear or otherwise damage the fine mesh screen. Keep the fuel strainer vertical so that any trapped liquid or solids do not spill onto the generator.
8. Pour the contents of the fuel strainer into a suitable waste receptacle. Low pressure compressed air can be used if necessary for blowing onto the outside of the strainer mesh to remove any trapped fine grit.

## NOTICE

Never dispose of fuel or fuel contaminants by dumping either of them into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the government agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

9. Reinstall the fuel strainer by hand inside the filler hole on top of the fuel tank (see Figure 21). Make sure it is fully inserted into the opening.
10. Reinstall the fuel cap.

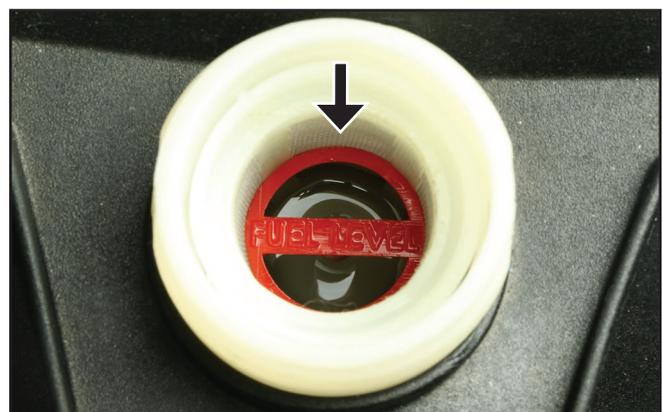


Figure 21 – Reinstalling the Fuel Strainer



# MAINTENANCE

## SPARK PLUG MAINTENANCE

**Tools required** – Spark plug socket wrench, spark plug gap tool or feeler gauge, and wire brush.

The spark plug should be checked and cleaned after every 100 hours of use or 6 months and then replaced after 250 hours of use or every year.

1. Stop the generator and let it cool for several minutes if it's been running.
2. Move the generator to a flat, level surface.
3. Unlock and remove the engine access cover (see Figures 11 and 12).
4. Remove the spark plug boot by firmly pulling it up and away from the engine (see Figure 22).



Figure 22 – Removing the Spark Plug Boot

### NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug. Applying a side load or moving the spark plug laterally may crack and damage the spark plug insulator.

5. Clean area around the spark plug.
6. Use a spark plug socket wrench to remove the spark plug from the cylinder head by unscrewing it anti-clockwise (see Figure 23).



Figure 23 – Removing the Spark Plug

7. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get into the combustion chamber.
8. Inspect the spark plug for:
  - Cracked or chipped insulator; replace the spark plug.
  - Excessive wear of the electrodes; replace the spark plug.
  - Excessive carbon or oil fouling of the electrodes; clean the electrodes with a wire brush or replace the spark plug.
  - Spark plug gap of 0.7 mm or 0.028 inch (see Figure 24); after cleaning with a wire brush, check using a spark plug gap tool or feeler gauge and adjust by carefully bending the ground electrode. Always check the gap of a new spark plug before installing it.

When replacing the spark plug, use only the specified part as listed in Table 3.

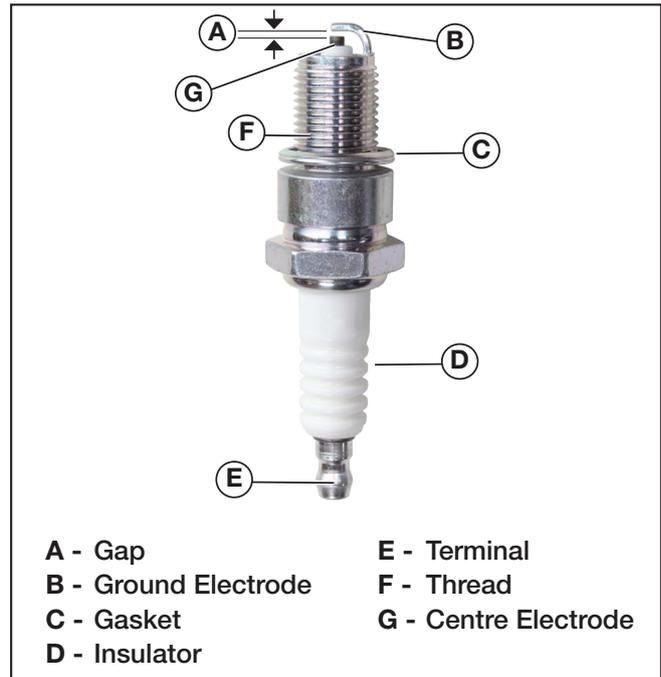


Figure 24 – Spark Plug

Table 3: Replacement Spark Plug for iGen2600

Spark Plug Make and Model			
Torch	Bosch	Denso	NGK
E6RTC	WR7BC+	W20FPR-U	BPR6HS

### NOTICE

Use only the recommended spark plug (Torch brand) or equivalent. The use of a non-recommended spark plug can damage the engine.

9. Install the spark plug by following the steps outlined below:
  - a - Carefully insert the spark plug back into the cylinder head. Hand screw the spark plug clockwise until it bottoms out (seats).
  - b - Use a spark plug socket wrench to finish tightening the spark plug. If reinstalling a used spark plug, tighten approximately 1/8 to 1/4 of a turn after the spark plug seats. If installing a new spark plug, tighten approximately 1/4 to 1/2 of a turn after the spark plug seats. The tightening torque should not exceed 17 Nm (13 lb-ft).
  - c - Reinstall the spark plug boot, making sure the boot fully engages onto the spark plug's terminal.
10. Reinstall the engine access cover.

## SPARK ARRESTER MAINTENANCE

**Tools required** – #2 Phillips head screwdriver and wire brush.

Check and clean the spark arrester after every 100 hours of use or 6 months.

1. Stop the generator and let it cool for several minutes if it's been running.
2. Move the generator to a flat, level surface.
3. Remove the muffler access cover by undoing the four screws affixing it to the generator casing (see Figure 25). Clean the cover and especially its vent holes with a rag or brush and then place it aside.



Figure 25 – Removing the Muffler Access Cover

4. Loosen the spark arrester band clamp and slide it off the spark arrester collar (see Figure 26).
5. Loosen the locking screw and pull the spark arrester collar and screen off the muffler exhaust pipe (see Figure 27).



Figure 26 – Removing the Spark Arrester Band Clamp

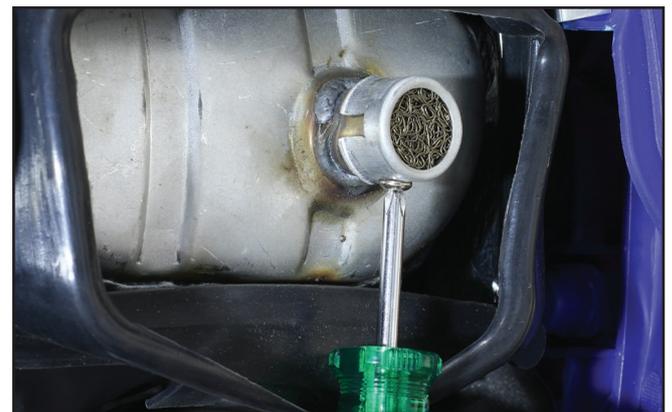


Figure 27 - Removing the Spark Arrester Collar and Screen

6. Use a wire brush to remove any exhaust deposits that may have collected on the spark arrester screen.
7. If the spark arrester screen shows signs of wear such as rips, tears or large openings, it should be replaced.
8. Reinstall the spark arrester components in the following order:
  - a - Insert the spark arrester screen into its collar and then slide this assembly onto the muffler exhaust pipe. Take care to align one of the slots in the collar with the locking screw. Push the collar on firmly to ensure that the screen is well seated and tighten the locking screw.
  - b - Place the spark arrester band clamp over the collar with the gap in the band clamp aligned with the collar locking screw. Then tighten the adjusting screw on the band clamp.
9. Reinstall the muffler access cover.

# MAINTENANCE

## CLEANING THE GENERATOR

The generator should be kept clean and dry at all times to ensure its reliable and safe operation. This must be checked each time before using the generator.

Use a damp cloth which has been soaked in a mixture of household detergent and warm water and then wrung out to remove excess liquid. Wipe the exterior surfaces of the generator clean and then repeat with a damp cloth which has been rinsed in clean water and wrung out. Finish by wiping off all moisture with a dry cloth. Do not use abrasive or solvent cleaners.

A soft, non-metallic bristle brush or a vacuum cleaner may be used to loosen and remove any built-up dirt, mud or other debris. Low pressure compressed air may also be used to blow off any dirt or dust.

Make sure all of the ventilation grilles are clean of any dirt or other debris otherwise the generator may overheat and be damaged.

### NOTICE

NEVER use a water hose or pressure washer to clean the generator. Water may enter the fuel or electric systems and damage the generator. The risk of electric shock is also possible.

## DRAINING THE FUEL

Occasionally it may be necessary to drain all of the fuel out of the generator. For example, to remove contaminated or stale fuel or to prepare the generator for transport or storage.

**Tools required** – #2 Phillips head screwdriver, fuel siphon hand pump and fuel storage container.

1. Turn the fuel cap vent to the ON position.
2. Remove the fuel cap.
3. Clean the fuel strainer (see Fuel Strainer Maintenance), but do not reinstall it.
4. Pour or siphon the contents of the fuel tank into a fuel storage container (see Figure 28).



Figure 28 – Emptying the Fuel Tank

5. Remove the engine access cover (see Figures 11 and 12).
6. Locate the fuel drain hose connected to the bottom of the carburettor float bowl. Take note of the hose's stowed position routed downwards and exiting through the bottom of the generator base. Then gently pull the loose end of the hose up and out of the generator casing.
7. Position the fuel storage container to collect the remaining fuel discharged from the drain hose.
8. Turn the engine, fuel and choke control switch to the ON position.
9. Use the screwdriver to loosen the fuel drain screw by turning it anti-clockwise and then carefully drain the fuel out (see Figure 29). Take care to wipe up any spills immediately.
10. When all of the fuel has been drained out, tighten the fuel drain screw. Move the storage container and any fuel soaked rags away from the generator. It is preferable to consume the fuel in another engine-powered device straight away or dispose of it properly rather than storing it for a long time with fuel stabiliser for later re-use.

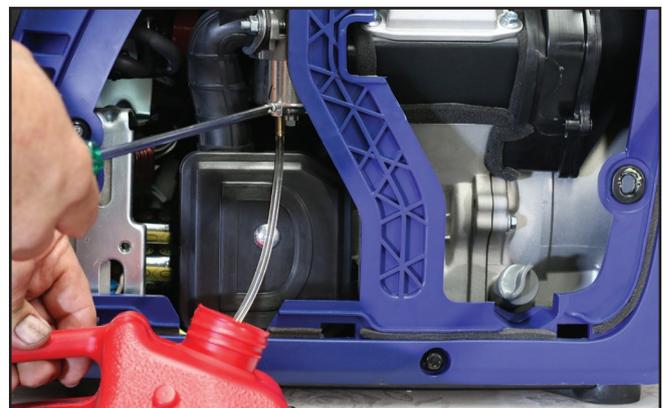


Figure 29 – Draining the Carburettor

## NOTICE

Never dispose of fuel or fuel contaminants by dumping either of them into a sewer, on the ground, or into groundwater or waterways. Always be environmentally responsible. Follow the guidelines of the governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

11. Turn the engine, fuel and choke control switch to the OFF position.
12. Re-stow the fuel drain hose back to its original position routed downwards and exiting through the bottom of the generator base. Take care to ensure that the hose is correctly routed and not touching any potentially hot components.
13. Reinstall the engine access cover.
14. Reinstall the fuel strainer.
15. Reinstall the fuel cap.
16. Turn the fuel cap vent to the OFF position.

## LONG-TERM STORAGE

### WARNING



Never store a generator with fuel in the tank indoors or in a poorly ventilated area where the fumes can come into contact with an ignition source such as: a pilot light of a stove, water heater, clothes dryer or any other gas appliance; or a spark from an electric appliance.

## NOTICE

Fuel stored for as little as 30 days can go bad, causing gum, varnish and corrosive build-up in fuel lines, fuel passages and the engine. This corrosive build-up restricts the flow of fuel, preventing an engine from starting after a prolonged period of storage.

The most commonly experienced faults with portable generators are directly attributable to stale fuel. Such faults are not covered by the generator's warranty.

The generator should be run at least once per month for 30 minutes under no less than one-third load. If this is not possible, the generator should be prepared for long-term storage as described hereunder.

Proper care should be taken to prepare the generator for any long-term storage. This will protect the generator's function and appearance, and will make it easier to start when next required.

## Storage Procedure for 1 – 3 Months

1. Clean the generator as outlined in Cleaning the Generator.
2. Add a proprietary fuel stabiliser to the fuel tank and then add fresh fuel up to the tank's maximum capacity (see Checking and Adding Fuel). Follow the manufacturer's recommendation for correct amount of stabiliser to add.
3. Start the generator and run it for 10 minutes to ensure that treated fuel is distributed throughout the engine's fuel system.
4. Stop the generator (see Stopping the Generator).
5. Turn the engine, fuel and choke control switch to the OFF position if not already done in Step 4.
6. Turn the fuel cap vent to the OFF position.
7. Allow the unit to cool down and then move it to a clean, dry place for storage.

## Storage Procedure for Greater than 3 Months

1. Clean the generator as outlined in Cleaning the Generator.
2. Drain the fuel (see Draining the Fuel).
3. Start the generator, if possible, and run the engine without load until it stops when the last remnants of fuel have been used. (See Starting the Generator and Stopping the Generator).
4. Change the engine oil (see Changing Engine Oil).
5. Remove the spark plug (see Spark Plug Maintenance) and pour a tablespoon of clean engine oil into the spark plug opening. While placing a clean rag over the spark plug opening, slowly pull the recoil starter handle to rotate the engine several times. This will distribute the oil and protect the cylinder wall from corrosion during storage.
6. Reinstall the spark plug (see Spark Plug Maintenance).
7. Slowly pull the recoil starter handle until resistance is felt, at which point the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to prevent internal corrosion.
8. Move the unit to a clean, dry place for storage.

## Removal from Storage

Follow the normal procedures for pre-operation checks and starting (see Before Starting the Generator).

Use only fresh fuel to re-fill the tank, if necessary,



# MAINTENANCE

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rather than re-using any old fuel.

If oil was inserted into the cylinder prior to storage, the exhaust may smoke for a short while after starting the generator; this is normal and will cease within a minute or so of running time.

## DISMANTLING AND DISPOSAL

There is no requirement for the generator to be dismantled during normal operation other than for major repair / overhaul or prior to final disposal at the end of its service life.

Dismantling should only be carried out by a mechanically proficient person with access to proper tools or alternatively by your authorised Westinghouse service dealer for a fee.

Before dismantling:

1. Stop the generator (see Stopping the Generator).
2. Drain the engine oil (see Changing Engine Oil).
3. Drain the fuel (see Draining the Fuel).

### NOTICE

Do not pollute the environment by improper or illegal disposal of the waste fluids. Dispose of these hazardous items only at an authorised waste collection / recycling facility.

Do not pollute the environment by improper or illegal disposal of the generator either as a whole or in parts. Take the unwanted unit or components to your local recycling centre instead. The generator is made almost entirely of metals that can be recycled.

# TROUBLESHOOTING

## WARNING



Before attempting to service or troubleshoot the generator, the owner or service technician must first read and understand this instruction manual and comply with all safety instructions. Failure to follow all instructions may result in conditions leading to voiding of the product warranty, serious personal injury, property damage or even death.

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine will not start or starts and runs rough.	1. Low oil level.	1. Check oil level and add oil if necessary.
	2. Generator is out of fuel.	2. Check fuel level and add fuel if necessary.
	3. Fuel is stale or contaminated with water or other foreign substance.	3. Drain fuel and refill with fresh fuel.
	4. Electrical load connected to generator.	4. Unplug or switch off any electrical cords or devices from the 240-Volt AC receptacles.
	5. Fuel cap vent is in the OFF position.	5. Move fuel cap vent to the ON position.
	6. Engine, fuel and choke control switch is in the OFF position.	6. Move engine, fuel and choke control switch to the ON or CHOKE position.
	7. Engine is not choked (if cold).	7. Move engine, fuel and choke control switch to the CHOKE position.
	8. Engine is over choked (if hot).	8. Move engine, fuel and choke control switch to the ON position.
	9. Spark plug boot is not properly connected onto spark plug terminal.	9. Push spark plug boot firmly onto spark plug.
	10. Spark plug is dirty or faulty.	10. Clean or replace spark plug.
	11. Air filter is dirty or blocked.	11. Check air filter element and clean if necessary.
	12. Spark arrester is dirty or blocked.	12. Check spark arrester and clean if necessary.
	13. If above possible causes are checked and eliminated, generator may be faulty.	13. Take generator to an authorised Westinghouse service dealer.



# TROUBLESHOOTING

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine is running, but no 240-Volt AC output is available.	1. If output indicator light is green, 240-Volt AC output should be available.	1. Check connected electrical cord(s) or appliance(s) as described below.
	2. Connected electrical cord or appliance plug is not properly inserted into 240-Volt AC outlet socket.	2. Check connected electrical cord or appliance plug is fully inserted into 240-Volt AC outlet socket.
	3. Connected electrical cord or appliance is faulty.	3. Connect known functioning appliance directly into generator's 240-Volt AC outlet socket to verify electrical output.
	4. If output indicator light is not illuminated, there is no 240-Volt AC output available. In such case: <ul style="list-style-type: none"> <li>If overload alarm light is not illuminated, generator may be faulty.</li> <li>If overload alarm light is red, there is an overload or short circuit in the connected 240-Volt AC load.</li> </ul>	4. <ul style="list-style-type: none"> <li>Disconnect all electrical cords and devices from generator. Stop and re-start engine with ECO throttle switch in the OFF position. If unresolved, take generator to an authorised Westinghouse service dealer.</li> <li>Disconnect all electrical cords and devices from generator. Stop and re-start engine with ECO throttle switch in the OFF position. Reconnect and test run 240-Volt AC loads individually; any single cord or device that trips overload alarm is either faulty or too great a load for the generator. Any faulty device must not be used further until checked and approved by a licensed electrician. Check running and starting power demands of total connected electrical load versus generator's rating.</li> </ul>
	5. If above possible causes are checked and eliminated, generator may be faulty.	5. Take generator to an authorised Westinghouse service dealer.

# TROUBLESHOOTING

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine stops during operation.	1. Generator is out of fuel.	1. Check fuel level and add fuel if necessary.
	2. Fuel is contaminated with water or other foreign substance.	2. Drain fuel and refill with fresh fuel.
	3. Fuel cap vent is in the OFF position.	3. Move fuel cap vent to the ON position.
	4. Engine, fuel and choke control switch is in the OFF position.	4. Move engine, fuel and choke control switch to the ON position.
	5. Low oil level.	5. Check oil level and add oil if necessary.
	6. Spark plug boot is not properly connected onto spark plug terminal.	6. Push spark plug boot firmly onto spark plug.
	7. Overload or short circuit in the connected 240-Volt AC load.	7. Disconnect all electrical cords and devices from generator. Re-start generator with ECO throttle switch in the OFF position and then re-connect electrical loads individually if possible. If only single load, check running and starting power demands versus generator's AC output rating.
	8. If above possible causes are checked and eliminated, generator may be faulty.	8. Take generator to an authorised Westinghouse service dealer.



# TROUBLESHOOTING

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine runs erratically or does not hold steady speed.	1. Power demand of connected 240-Volt AC load may be varying.	1. Engine speed varies when electrical load changes; this is normal operation. It is most noticeable when ECO throttle switch is in the ON position. No fault.
	2. If output indicator and overload alarm are both illuminated, there is an overload in the connected 240-Volt AC load.	2. Switch off or unplug connected 240-Volt AC device(s) to reduce electrical power demand.
	3. Engine is not warm enough.	3. Disconnect all electrical cords and appliances from generator. Allow engine to run for at least 2 minutes after the engine, fuel and choke control switch has been moved to the ON position before reconnecting electrical loads.
	4. Engine, fuel and choke control switch is in the CHOKE position and engine is already warm or hot.	4. Move engine, fuel and choke control switch to the ON position.
	5. Fuel is stale or contaminated.	5. Drain fuel and refill with fresh fuel.
	6. Air filter is dirty or blocked.	6. Check air filter element and clean if necessary.
	7. If above possible causes are checked and eliminated, generator may be faulty.	7. Take generator to an authorised Westinghouse service dealer.

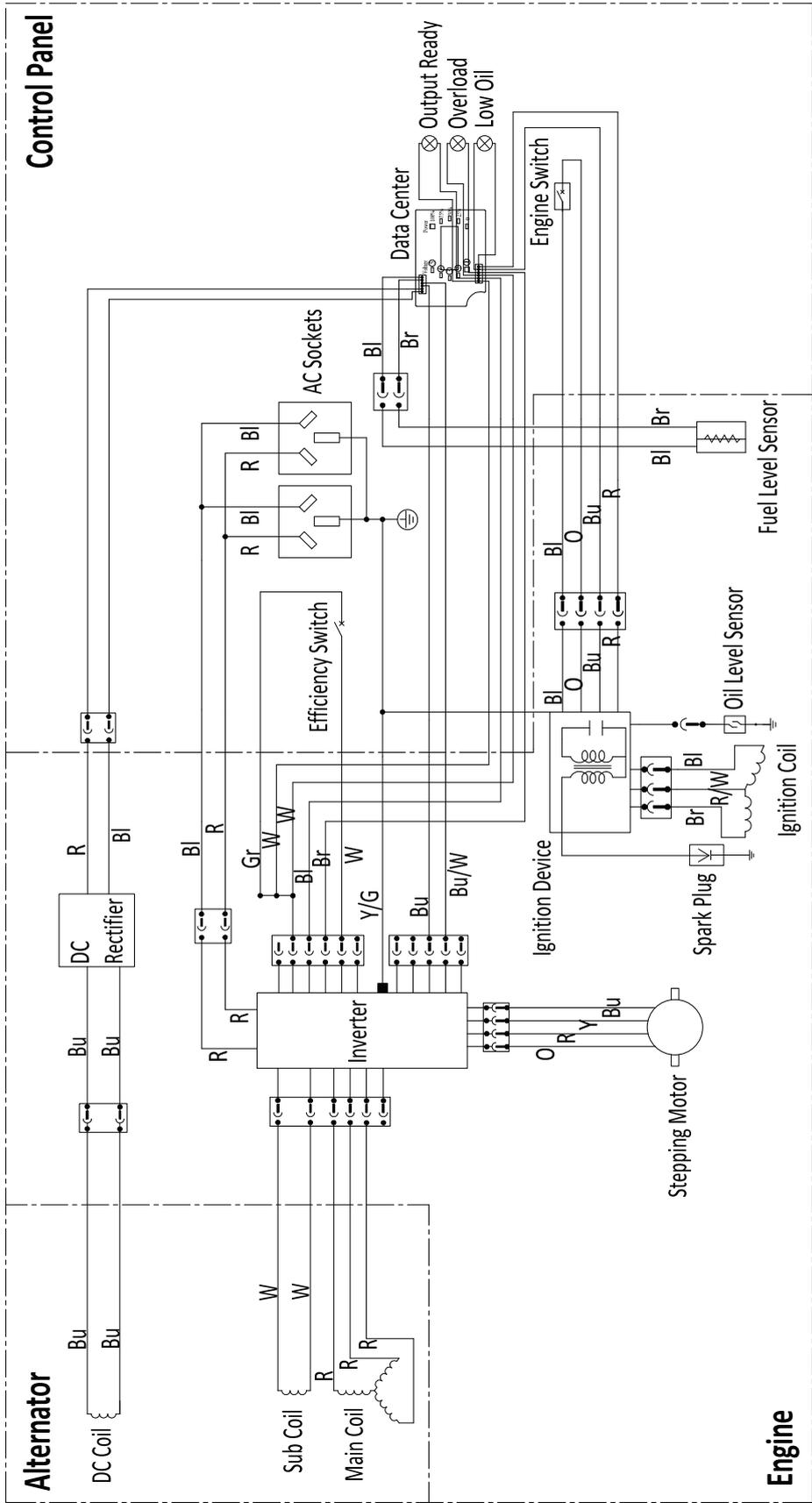
# SPECIFICATIONS

	PARAMETER	iGen2600
ENGINE	Type	1-Cylinder, 4-Stroke, Overhead Valve, Air Cooled
	Displacement (cm <sup>3</sup> )	98
	Max. Speed (rpm)	5,000
	Oil Capacity (mL)	350
	Low Oil Shutdown	Yes
	Spark Plug	Torch E6RTC
	Fuel	Unleaded Petrol
	Fuel Tank Capacity (L)	5.0
	Fuel Gauge	Yes #
	Starting Method	Recoil
	240 V AC ELECTRICAL	Voltage (V)
Frequency (Hz)		50
No. of Phases		1
Continuous Running Power (W) *		2,200
Maximum Starting Power (W)		2,600
Continuous Running Current (A)		9.2
Voltage & Waveform Control		Digital Inverter, Pure Sine Wave Output
Receptacle(s)		2 x 15 A, IP44
Overload Protection		Electronic
Alternator		Brushless, Permanent Magnet
Output Power Meter		Yes #
DIMENSIONS & WEIGHT	Length (mm)	550
	Width (mm)	310
	Height (mm)	480
	Weight - Dry (kg)	23
	Weight - Wet (kg)	27

\* Rated output at 1.0 power factor. # Displayed on the Data Center.

# WIRING DIAGRAM

## iGen2600 WIRING DIAGRAM



Bl	Black	Br	Brown	Y/G	Yellow/Green
R	Red	R/W	Red/White	O	Orange
Bu	Blue	Gr	Grey		
W	White	Bu/W	Blue/White		
Y	Yellow	Bl/W	Black/White		

## WARRANTY AGAINST DEFECTS

### Proof of Purchase

It is recommended that you keep a copy of the original tax invoice for your records.

#### Warrantor

Name: Westinghouse Outdoor Power Equipment  
(ABN 21101370085)

Address: 21 Resource Street,  
Parkinson, 4115, Australia

Phone: 1800 453 626

Email: [info@wpowereq.com.au](mailto:info@wpowereq.com.au)

Web: [westinghouseoutdoorpower.com.au](http://westinghouseoutdoorpower.com.au)

### Warranty Conditions

Westinghouse Outdoor Power Equipment (the “Company”) warrants that its Westinghouse portable electric generators (the “Goods”) shall be free from defects in material and workmanship for a period of two years (2) years or five hundred (500) operating hours, whichever occurs first, from the date of original sale (hereinafter the “Warranty Period”) in normal domestic applications such as personal, residential household or recreational use.

A Warranty Period of one (1) year or five hundred (500) operating hours, whichever occurs first, shall apply in commercial applications such as income producing, rental or other business-related use. Goods sold to a Consumer with an Australian Business Number shall be deemed as being used in a commercial application.

The Warranty Period is continuous from the date of original sale and does not restart upon the repair or replacement of the Goods or any part thereof.

Upon return – transportation charges prepaid by the Consumer – to the Company’s or its nominated dealer’s premises within the Warranty Period, the Company shall repair or replace, at its option, any Goods which it determines to contain defective material or workmanship, and shall return said Goods to the Consumer free-on-board (FOB) at the Company’s or agent’s premises. The repair or replacement work will be scheduled and performed according to the Company’s normal work flow and availability of replacement parts.

The Company shall not be obligated, however, to repair or replace Goods which have been: repaired by others; abused; improperly installed, operated, maintained, repaired, transported or stored; not

serviced to schedule using genuine spare parts; altered or otherwise misused or damaged in any way.

The Company shall not be responsible for any diagnosis, communication, dismantling, packing, handling, freight, and reassembly or reinstallation charges.

Freight damage, pre-delivery service, normal operating adjustments, preventative maintenance service, consumable items, cosmetic damage, corrosion, erosion, normal wear and tear, performance, merchantability, and fitness for a particular purpose are not covered under this Warranty. Consumable items include batteries, filters, fuel, lubricants and spark plugs.

The Company shall not be liable for any repairs, replacements, or adjustments to the Goods or any costs of labour performed by the Consumer or others without the Company’s prior written approval.

To the extent permissible by law and notwithstanding any other clause in these Warranty Conditions, the Company excludes all liability whatsoever to the Consumer arising out of or in any way connected with a contract for any consequential or indirect losses of any kind howsoever arising and whether caused by breach of statute, breach of contract, negligence or other tort.

The Company’s liability will be limited to, in the case of products, the replacement of the products, the supply of equivalent products or the payment of the cost of replacing the products or of acquiring equivalent products or, in the case of services, the supply of the services again or the payment of the cost of having the services supplied again. The choice of remedy will be at the discretion of the Company and the Consumer acknowledges that this limitation of liability is fair and reasonable.

This Warranty is available only to the original Consumer bearing the original tax invoice from the Company or one of its authorised dealers as proof of purchase. Goods purchased from any other party such as a private seller, auction house, eBay seller, etc. are not covered by this Warranty.

Our Goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.









# Westinghouse

INNOVATION YOU CAN BE SURE OF

**Westinghouse Outdoor Power Equipment**

21 Resource Street

Parkinson QLD 4115 Australia

[www.westinghouseoutdoorpower.com.au](http://www.westinghouseoutdoorpower.com.au)

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