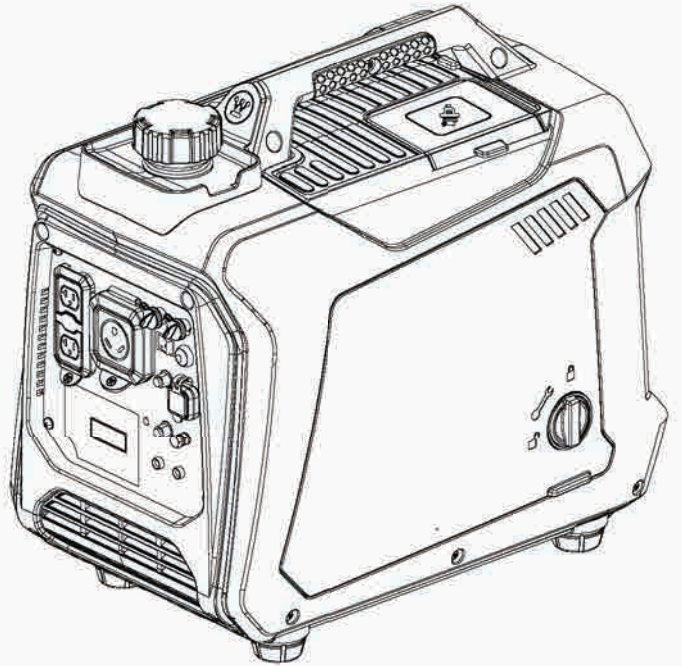




User Manual

iGen2800c

Digital Inverter Generator



DO NOT RETURN THIS PRODUCT TO THE STORE

If you have questions or need assistance, please call customer service at 855-944-3571.

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INTRODUCTION



WARNING

Operating, servicing, and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, and wear gloves or wash your hands frequently when servicing this equipment. For more information go to www.P65warnings.ca.gov.

DISCLAIMERS

All information, illustrations, and specifications in this manual were in effect at the time of publishing. The illustrations used in this manual are intended as representative reference views only. We reserve the right to make any specification or design change without notice.

ALL RIGHTS RESERVED

All rights reserved. No reproduction allowed in any form without written permission from Westinghouse Outdoor Power Equipment.



DANGER

Read this manual before using or performing maintenance on this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death.

UPDATES

The latest User Manual for Westinghouse products can be found under our support tab at wpowereq.com/pages/manuals

Or scan the following QR code with a smartphone camera to be directed to the link.



PRODUCT REGISTRATION

For trouble-free warranty coverage, it is important to register the Westinghouse product.

Register by:

- Completing and mailing the product registration card included in the carton.
- Registering the product online at: wpowereq.com/pages/warranty-registration
- Scanning the following QR code with a smartphone camera to be directed to the mobile registration link.

For Your Records

Date of Purchase: _____

Model Number: _____

Serial Number: _____

Place of Purchase: _____



- Sending the following product information to:

Westinghouse Outdoor Power

Warranty registration
777 Manor Park Drive
Columbus, OH 43228

IMPORTANT: Keep the purchase receipt for trouble-free warranty coverage.

INTRODUCTION

SPECIFICATIONS

AC Voltage	120 V
Power (Running).....	2200 W
Power (Peak)	2800 W
AC Current	18.3 A
DC Voltage	12 V
DC Current	2x2.1A
Frequency	60 Hz
Phase	Single
RPM.....	5000
Power Factor	1.0
Insulation Class.....	F
Maximum Ambient Temperature	104°F (40°C)
Fuel Type.....	Unleaded gasoline (87–93 Octane)
Do not use E15 or E85 fuel in this product.	
Fuel Capacity	1.1 gallons (4.2 liters)
Oil Capacity	0.37 quarts (0.35 liters)
Oil Type	SAE 10W-30
Spark Plug	Torch A7RTC
Spark Plug Gap	0.024 - 0.032 in. (0.60 - 0.80 mm)
Valve Intake Clearance	0.0031 – 0.0047 in. (0.08 – 0.12 mm)
Valve Exhaust Clearance	0.0051 – 0.0067 in. (0.13 – 0.17 mm)
AC Grounding System.....	Neutral floating

NOTICE This product is designed and rated for continuous operation at ambient temperatures between 23°F (–5°C) and 104°F (40°C). If needed, this product can be operated in extremely hot or extremely cold temperatures for short periods. If the product is exposed to extreme temperatures during storage, it should be brought back within the optimal temperature range before operation. This product must always be operated outdoors in a well-ventilated area and far away from doors, windows, and other vents.

Maximum wattage and current are subject to and limited by such factors as fuel BTU content, ambient temperature, altitude, engine conditions, etc. Maximum power decreases about 3.5% for each 1,000 feet above sea level, and will also decrease about 1% for each 10°F (6°C) above 60°F (16°C) ambient temperature.

NOTICE The effect of altitude on horsepower will be greater if no carburetor modification is made. A decrease in engine horsepower will decrease the power output of the generator. Contact our service team to order altitude kits.

NOTICE Thank you for choosing Westinghouse! PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON. If you have a question or experience a problem with your Westinghouse purchase, call us at 1-855-944-3571 to speak with an agent.

**SAVE THIS MANUAL
FOR FUTURE REFERENCE.**

HAVE QUESTIONS?
Email us at service@wpowereq.com
or call 1-855-944-3571

SAFETY

SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION, and NOTICE are used throughout this manual to highlight important information. Be sure that the meanings of this safety information is known to all who operate, perform maintenance on, or are near the generator.



This safety alert symbol appears with most safety statements. It means attention, become alert, safety is involved! Please read and abide by the message that follows the safety alerts 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 can cause damage to the generator, personal property, and/or the environment, or cause the equipment to operate improperly.

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

SAFETY SYMBOLS

Follow all safety information contained in this user manual as well as the information on the product labeling.

SYMBOL	DESCRIPTION
	Safety Alert Symbol
	Fire Hazard
	Electrical Shock Hazard
	Burn Hazard. Do not touch hot surfaces.
	Asphyxiation Hazard
	Do Not Operate in Wet Conditions
	Read Manufacturer's Instructions
	Maintain Safe Distance
	Ground. Consult with electrician to determine grounding requirements before operation.
	Carbon Monoxide

SAFETY

IMPORTANT SAFETY INSTRUCTIONS

⚠ DANGER

Generator exhaust contains high levels of carbon monoxide (CO), an invisible, odorless, and extremely poisonous gas. If you smell exhaust fumes, you are breathing carbon monoxide. But, even if you do not smell exhaust fumes you may be inhaling CO.

ONLY operate generators outside, in a well-ventilated area. NEVER operate generators indoors, doing so CAN KILL YOU IN MINUTES.

- **Correct Use** – ONLY use generators outside and downwind, far away from windows, doors and vents. ALWAYS direct exhaust away from occupied spaces. ALWAYS install battery-powered carbon monoxide detectors or plug-in carbon monoxide detectors with battery back-up in living areas. See Figure 1.

- **Incorrect Use** – NEVER use a generator in a home, garage, basement, attic, crawl space or any other fully or partially enclosed area. Areas such as these can allow dangerous levels of carbon monoxide to accumulate. An open door or a running fan WILL NOT provide adequate ventilation. See Figure 2.

If feeling dizzy, weak, or sick while using the generator, move to fresh air IMMEDIATELY. Contact a doctor. This may be carbon monoxide poisoning.

⚠ DANGER

Fire and electrocution hazard. **DO NOT** connect to a building's electrical system unless the generator and a transfer switch have been properly installed and the electrical output has been verified by a qualified electrician. The connection must isolate the generator power from utility power and must comply with all applicable laws and electrical codes. Failure to properly isolate the generator power could cause property damage and create a dangerous backfeed of electricity which could kill or seriously injure utility workers.

⚠ DANGER

Electrocution hazard. **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 circuit.

⚠ WARNING

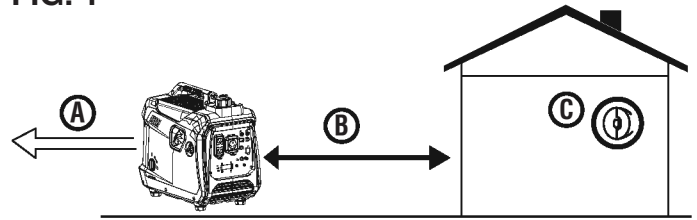
Become familiar with all the instructions, safety warnings, illustrations, and specifications provided with this product. Failure to follow the manufacturer's instructions may result in electric shock, fire, and/or carbon monoxide poisoning that can lead to death or serious injury.

NOTICE

Install battery-powered carbon monoxide detectors or plug-in carbon monoxide detectors with battery back-up in living areas.

- This product should ONLY be used outdoors.

FIG. 1

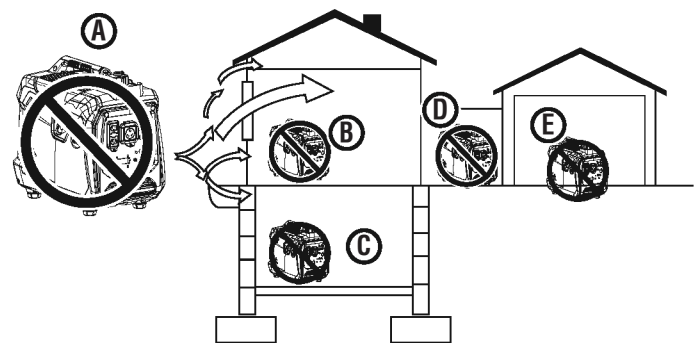


A - Exhaust (CO)

B - Only use OUTSIDE and FAR AWAY from windows, doors, and vents

C - CO detectors in living areas

FIG. 2



A - Exhaust (CO)

B - Living Area

C - Basement Crawlspace

D - Entryway/Porch/Mudroom

E - Garage

- NEVER use a generator in a home, garage, basement, attic, crawl space or any other fully or partially enclosed area. Areas such as these can allow dangerous levels of carbon monoxide to accumulate. Carbon monoxide (CO), an invisible, odorless, and extremely poisonous gas CAN KILL YOU IN MINUTES.
- Only use OUTSIDE and far away from windows, doors, and vents as recommended by the US Department of Health and Human Services Centers for Disease Control and Prevention. Specific homes and/or wind conditions may require additional distance.
- The National Electrical Code requires the use of a transfer switch or other suitable transfer equipment whenever a portable generator is connected to a building's electrical system. Transfer switches isolate generator power from utility power and prevent backfeeding of electric power into the utility system.

NOTE: A transfer switch must be installed by a qualified electrician in accordance with applicable electrical codes. Some jurisdictions may require the installation to be inspected by local authorities. Keep all relevant installation, inspection, and maintenance information.

- Never use the generator to power medical support equipment.
- Never expose the generator to rain, snow, water spray, or standing water while in use. Store and operate the unit in a dry or covered (but not enclosed) location.
- Do not let children or untrained individuals operate the generator.
- Keep children, bystanders, and pets a minimum of 10 ft. away from a running generator.

SAFETY

- Maintain Safe Distance. While operating and storing, keep at least five feet of clearance on all sides of the generator, including overhead. Turn the unit off and allow it to cool a minimum of 30 minutes before storage. Heat created by the muffler and exhaust gases could be hot enough to cause serious burns and/or ignite combustible objects.
- Do not operate the unit in areas where combustible or hazardous materials are stored including gasoline and natural gas filling stations.
- Do not operate the generator while barefoot, with wet hands or feet, while standing in water or in wet conditions.
- Do not use this unit when tired or under the influence of drugs, alcohol, or medication.
- Burn Hazard. Do not touch hot surfaces.
- Do not contact the muffler or engine. They are very HOT and will cause severe burns. Do not put body parts or any flammable or combustible materials in the direct path of the exhaust.
- Keep hands, fingers, feet, and other body parts away from all moving parts of the generator.
- Do not connect worn or damaged electrical cords to the generator. NEVER touch frayed or exposed wires.
- Do not operate the generator on an incline. The unit should always be placed on a flat stable surface.
- Inspect the physical condition of the product prior to each use. Look for loose bolts, fluid leaks, and other signs of wear. Replace all damaged items. For replacement parts or assistance, contact the customer service team.
- For optimal performance, use the generator in temperatures between 23°F (–5°C) and 104°F (40°C) with a maximum relative humidity of 90%.
- Before starting the generator, inspect all fluids (oil and gasoline).
- Do not remove the oil dipstick or fuel cap when the generator is running.
- Securely tighten the oil dipstick after adding oil and the fuel cap after adding gasoline.
- Avoid skin contact with engine oil or gasoline. Wear protective clothing and equipment. Wash all exposed skin with soap and water. Prolonged skin contact with gasoline or engine oil may cause severe skin irritation and other adverse reactions.
- Generators vibrate and bounce during normal operation. Inspect the generator and all of the cords connected to it for any damage that may have resulted from the vibration. Replace or repair damaged items as needed. Do not use the generator or any items that show signs of damage.
- All electrical tools and appliances operated from this generator must be properly grounded by use of a third wire or be double-insulated.
- Before transporting the generator, disconnect the spark plug boot, drain the fuel tank and properly restrain the unit.
- Fuel or oil may leak from the generator during transport. Place a towel, plastic sheet, or absorbent pad beneath the unit to protect the transportation vehicle.

- To prolong the life of this product, follow the instructions in the *Maintenance* section of this manual.
- Replace damaged or worn items with recommended or equivalent replacement parts. Using an incorrect or incompatible part might create a hazard that could result in serious personal injury.
- Always remove any tools or other service equipment used during maintenance away from the generator before operating.

GROUNDING

See Figure 3.



WARNING

Shock hazard. Failure to properly ground the generator can result in electric shock.

NOTICE

Only use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.

The generator neutral is floating. The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle. The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin. Electrical devices that require a grounded receptacle pin connection may not function properly.

If this generator will be used only with cord and plug equipment connected to the receptacles mounted on the generator, National Electric Code does not require that the unit be grounded. However, other methods of using the generator may require grounding to reduce the risk of shock or electrocution.

Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

SAFETY PRECAUTIONS FOR GASOLINE AND GASOLINE VAPOR



DANGER

Fire and explosion hazard. Gasoline is highly explosive and flammable and can cause severe burns or death.



WARNING

Fire and Burn Hazard. NEVER loosen or remove the fuel cap while the generator is running. Turn the unit off and allow it to cool for at least five minutes before adding gasoline. Loosen the fuel cap slowly.



WARNING

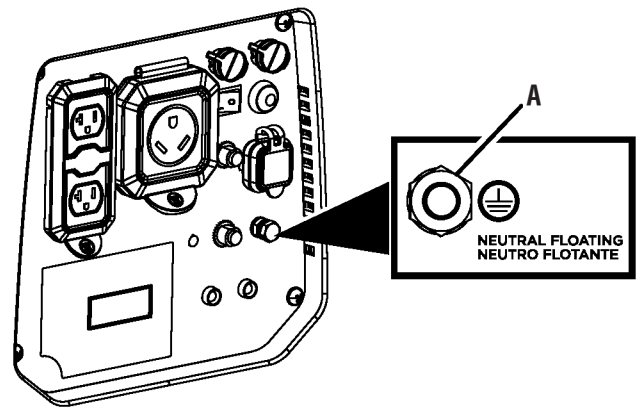
In case of a gasoline fire, do not attempt to extinguish the flame unless the engine/fuel control switch is in the OFF  position. Introducing an extinguisher to a generator with an open fuel switch could create an explosion hazard.

- Fire Hazard. Gasoline is highly flammable. Handle with care.
- Never use gasoline as a cleaning agent.
- Gasoline is a skin irritant and needs to be cleaned up immediately if it comes in contact with the skin.

SAFETY

- Do not store gasoline near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.
- Keep gasoline away from sparks, open flames, pilot lights, heat, and other sources of ignition.
- Store any containers containing gasoline in a well-ventilated area, away from any combustibles or source of ignition.
- ALWAYS store gasoline in a container approved for gasoline. Unapproved containers can break or deteriorate allowing gasoline or gasoline vapors to escape which can create a serious hazard.
- Gasoline has a distinctive odor, this will help detect potential leaks quickly.
- Gas vapors can cause a fire if ignited.
- Do not smoke when handling fuel, adding fuel to the generator, or emptying the gas tank.
- Wear eye protection while refueling.
- Before adding fuel to the generator, turn the unit off and allow it to cool a minimum of five minutes. If necessary, move the unit to level ground.
- Do not remove the fuel tank cap when the generator is running.
- Loosen the fuel cap slowly to safely release pressure, keep gasoline from escaping around the cap, and to avoid the heat from the muffler igniting fuel vapors.
- NEVER fill the gasoline tank beyond the maximum fill ring on the fuel screen. Keeping gasoline levels at or below the fill ring will allow for fuel expansion. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces.
- Spilled fuel can ignite. Wipe up spills immediately and allow area to dry before operating the generator. NEVER attempt to burn off spilled fuel.
- Securely tighten the fuel cap after adding gasoline.
- Do not cover the fuel cap while the generator is in operation. Covering the cap may cause the engine to fail or damage the product.
- Drain fuel before storing the unit. Store the unit and the fuel separately in well-ventilated areas away from sparks, open flames, pilot lights, heat, and other sources of ignition.
- Turn the unit off and allow it to cool a minimum of 30 minutes before draining fuel.

FIG. 3



A - Ground Terminal

SAFETY

IMPORTANT INFORMATION FOR THE CO SENSOR

The CO Sensor monitors for the accumulation of poisonous carbon monoxide gas around the generator when the engine is running. If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

The CO Sensor will also detect the accumulation of carbon monoxide from other fuel burning sources used in the area of operation. For example, if the exhaust of fuel burning tools is pointed at a CO Sensor-equipped generator, a shut-off may be initiated due to rising CO levels. This is not an error. Hazardous carbon monoxide has been detected. Move and redirect any additional fuel burning sources to dissipate carbon monoxide away from personnel and occupied buildings.

NOTE: Remote start-equipped generators must be restarted with the START/STOP button on the control panel after an automatic shut-down occurs.

Generators are intended to be used outdoors, far from occupied buildings and the exhaust pointed away from personnel and buildings. If misused and operated in a location that results in the accumulation of CO, like in a partially enclosed area, the CO Sensor shuts off the engine and the RED indicator light will flash notifying the user that there are unsafe levels of carbon monoxide.

If the generator shuts off and the RED indicator light flashes, leave the area immediately. Wait for the carbon monoxide to dissipate and the RED indicator light to turn off before returning to the affected area. Once it is safe to return, read the Action Label for further steps to take. The CO Sensor **DOES NOT** replace carbon monoxide alarms. Install battery-powered carbon monoxide alarm(s) in the home.

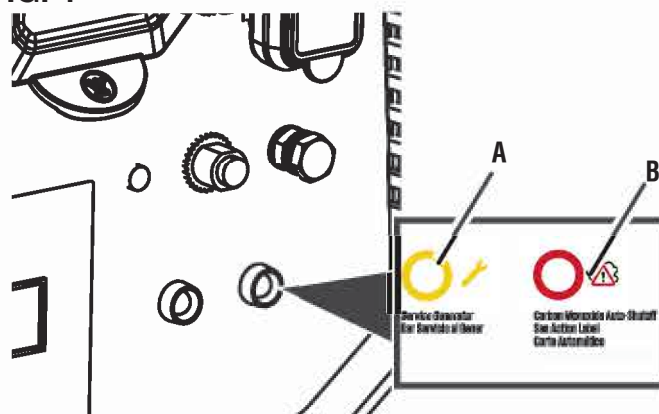
⚠ WARNING Automatic shutoff accompanied with a flashing RED light in the CO Sensor portion of the control panel is an indication that the generator was improperly located which allowed carbon monoxide to accumulate to unsafe levels. If feeling sick, dizzy, weak, or carbon monoxide detectors in the home indicate an alarm, get to fresh air immediately. Call emergency services. This may be carbon monoxide poisoning.

UNDERSTANDING THE CO SENSOR INDICATOR LIGHTS

See Figure 4.

COLOR	DESCRIPTION
RED  	Unsafe levels of carbon monoxide accumulated around the generator. After shut-off, the RED indicator light in the CO Sensor area of the control panel will flash to provide notification that the generator was shut-off due to carbon monoxide levels rising above a safe threshold. The RED light will flash for at least five minutes after a CO shut-off. When it is safe to do so, move the generator to an open, outdoor area far away from occupied spaces with exhaust pointed away. Once relocated to a safe area and the red light is off, the generator can be restarted. Introduce fresh air and ventilate the area where the generator had shut down.
YELLOW  	A CO sensor system fault occurred. When a system fault occurs, the generator is automatically shut down and the YELLOW indicator light in the CO auto-shutoff area of the control panel will flash to provide notification that a fault has occurred. The YELLOW light will flash for at least five minutes after a fault. The generator can be restarted but may continue to shutoff. A CO sensor fault can only be diagnosed and repaired by an authorized Westinghouse service center.

FIG. 4



A - Service Generator LED
B - Automatic Shutoff LED

ELECTRICAL

GENERATOR CAPACITY

NOTICE Do not overload the capacity. Exceeding the wattage/ampere capacity can damage the generator and/or electrical devices connected to it.

Review the **Specifications** for this generator and record the running (continuous) and peak (starting) watts. In general the higher the wattage, the more devices can be powered at the same time. The total power requirements of all connected devices must be considered. Power requirements are often listed on a data label or nameplate.

To determine power requirements:

1. Choose the devices to power simultaneously.
2. Record and total the running (continuous) watts of each device. The generator must continuously produce this amount of wattage to keep the devices running.
3. Record the peak (starting) watts for each device. This is the momentary surge of power required to start electric motors in some tools and appliances.
4. Select the device with the highest peak (starting) wattage. Add the peak (starting) watts for that device to the total running (continuous) watts for all the connected devices to determine the total peak wattage requirement for the generator.

NOTE: Total peak wattage requirement assumes intermittent starting of devices. Adjust estimate if devices reach peak wattage at the same time.

MANAGING GENERATOR POWER

To extend the service life of the generator, use caution when adding electrical loads. Disconnect all loads before starting the generator. The safest way to manage generator power is to add loads sequentially by doing the following:

1. Remove all loads and start the generator as described later in this manual.
2. Connect and start the largest device or appliance. Power requirements are often listed on a data label or nameplate.
3. Allow the generator output to stabilize. Once stable, the engine should run smoothly and the device should function properly.
4. Connect and start the next largest device or appliance.
5. Allow the generator output to stabilize.
6. Repeat this process for each additional load.

EXTENSION CORDS

WARNING Asphyxiation hazard. Extension cords running directly into the home increase the risk of carbon monoxide poisoning through any openings. If an extension cord running directly into the home is used to power indoor items, there is a risk of carbon monoxide poisoning to people inside the home. Always use battery-powered carbon monoxide detector (s) that meet current UL 2034 safety standards when running the generator. Regularly inspect the detector (s) battery.

WARNING Asphyxiation hazard. When operating the generator with extension cords, be sure the generator is located in an open, outdoor area far away from occupied spaces with exhaust pointed away.

WARNING Fire and electrocution hazard. Never use worn or damaged extension cords. Damaged or overloaded extension cords could overheat, arc, and burn resulting in death or serious injury.

Before connecting an AC appliance or power cord to the generator:

- Use grounded 3-prong extension cords, tools, and appliances, or double-insulated tools and appliances.
- Be sure the tool or appliance is in good working order. Faulty appliances or power cords can create a potential for electric shock.
- Be sure the electrical rating of the tool or appliance does not exceed the rated power of the generator or the receptacle being used.

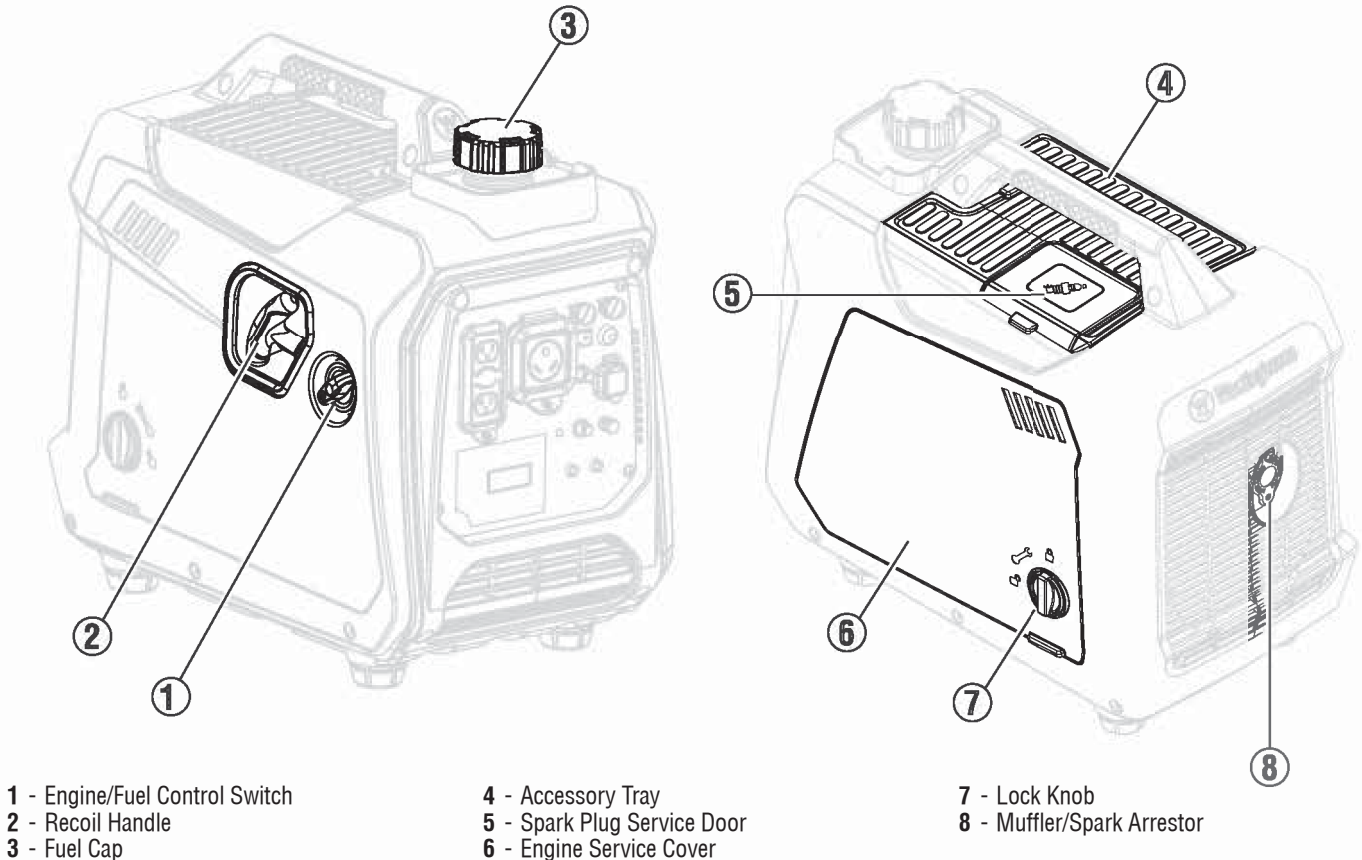
NOTICE Do not exceed the capacity. Overloading the wattage and/or ampere capacity could damage connected devices and critical generator components.

EXTENSION CORD SIZING

Be sure the extension cord can carry the required load. Cables that are too small may cause a voltage drop that can cause the cord to overheat or cause property damage. Refer to the cord manufacturer's guidelines for the appropriate size and length.

COMPONENTS

FIG. 5



UNDERSTANDING THE GENERATOR

See Figures 5 - 6.

To reduce the risk of injury and product failure, read and understand the information in this user manual as well as the information on the product labeling.

120 VOLT AC RECEPTACLES

This unit has a 120V, 30 amp RV receptacle and duplex 120V, 20A receptacles capable of powering a variety of appliances, tools, and equipment.

ACCESSORY TRAY

The accessory tray is for storing cell phones, tablets, and other devices while they charge. **DO NOT stand near the generator while devices are charging. Always maintain a safe distance while the generator is in use.**

CO SENSOR INDICATOR LIGHTS

The CO Sensor monitors for the accumulation of poisonous carbon monoxide gas. If increasing levels of CO gas are detected, the CO Sensor automatically shuts down the engine.

ENGINE/FUEL CONTROL SWITCH

Rotate the engine/fuel control switch to set the choke and start or stop the flow of fuel.

ENGINE SERVICE PANEL

Turn the lock knob to unlock and remove cover to service the oil, spark plug, and air filter.

FUEL TANK

The generator has a fuel tank with a capacity of 1.11 gallons.

GROUND TERMINAL

The ground terminal is used to externally ground the generator.

LED DATA CENTER

Displays remaining run time (F), power output in kW (P), fuel level in liters (L), voltage output (V), and lifetime hours.

LOW OIL LED

Indicates low oil level. When the oil level in the crankcase falls below the safe operating limit, the low oil level indicator will illuminate and the generator will automatically shut off the engine.

MUFFLER AND SPARK ARRESTOR

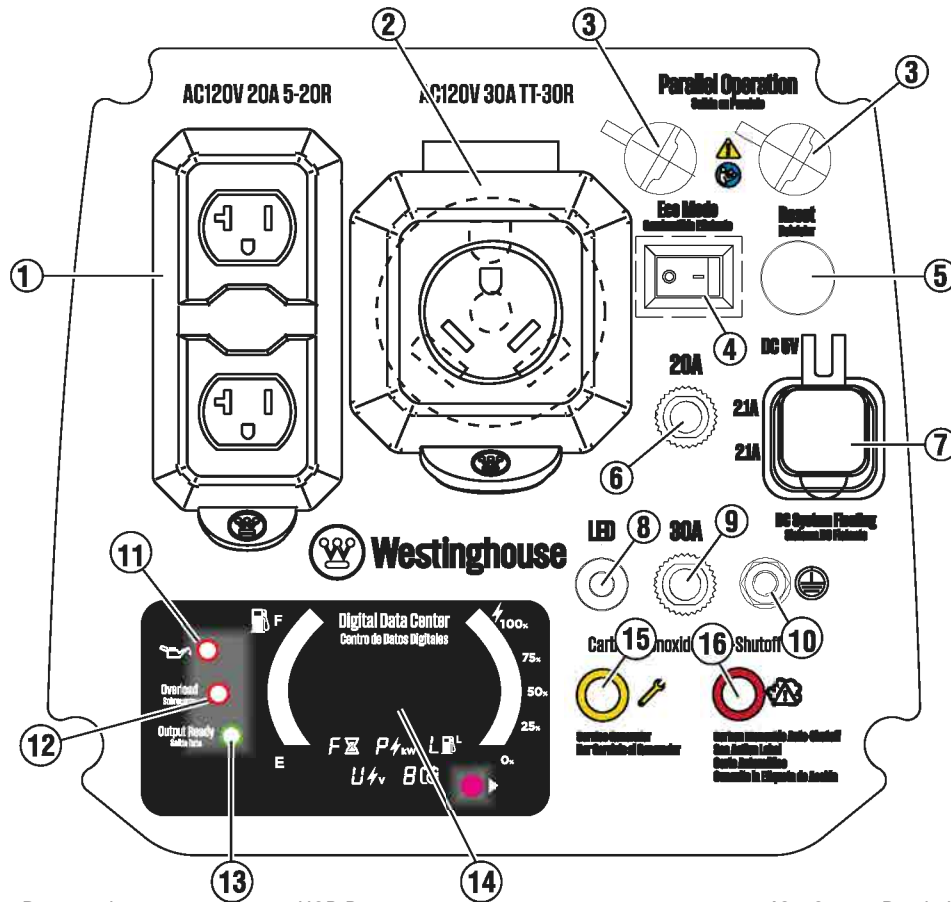
The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.

NOTICE

The spark arrestor is a safety device that prevents sparks from exiting the muffler and creating a fire hazard. In certain locations a spark arrestor may be required by law. It is the responsibility of the operator to know and follow all local laws and regulations related to fire prevention requirements.

COMPONENTS

FIG. 6



- 1 - 120 Volt AC 20 Amp Receptacles
- 2 - 120 Volt AC 30 Amp Receptacle
- 3 - Parallel Operation Outlets
- 4 - ECO Mode Switch
- 5 - Reset Button
- 6 - 20 Amp Circuit Breaker

- 7 - USB Ports
- 8 - Panel Lights On/Off Button
- 9 - 30 Amp Circuit Breaker
- 10 - Ground Terminal
- 11 - Low Oil LED
- 12 - Overload LED

- 13 - Output Ready LED
- 14 - Data Center
- 15 - Service Generator LED
- 16 - Automatic Shutoff LED

OIL DIPSTICK

Unscrew the oil dipstick to inspect oil levels and add oil when needed.

OUTPUT READY LED

Illuminates when the generator is operating normally. Indicates the generator is producing electrical power at the receptacles.

OVERLOAD LED

Indicates that the generator is overloaded.

OVERLOAD RESET

The generator will automatically switch OFF all AC output to protect the generator if overloaded or if there is a short circuit in a connected appliance.

PANEL LIGHTS ON/OFF BUTTON

Depress this button to turn the lights on both sides of the panel on and off.

PARALLEL OPERATION OUTLETS

A parallel cord (not included) can be used to connect a compatible Westinghouse inverter generator for additional power output.

RECOIL HANDLE

Use the recoil handle (and the engine/fuel control switch) to start the generator.

SPARK PLUG SERVICE DOOR

Lift the spark plug service door to access the spark plug.

USB PORTS

Two-port 5V/2.1A USB outlet. Accepts Type A USB plugs.

ASSEMBLY

REMOVING CARTON CONTENTS

⚠ WARNING This product **does not** require assembly. Do not attempt to operate this product if it is not completely assembled. Using an improperly assembled product can be hazardous and could result in serious personal injury.

- Remove and inspect the carton contents. Confirm that all the items in the **INCLUDED LIST** are present and undamaged.
- Recycle or dispose of the packaging materials properly.

Included List	
Item	Quantity
Generator	1
Engine Oil (SAE 10W-30)	1
Funnel	1
Spark Plug Socket Wrench	1

If any parts are missing, contact our service team at service@wpowereq.com or call 1-855-944-3571.

⚠ WARNING Do not alter or modify this product unless instructed to so in this manual or by the manufacturer. Do not use attachments or accessories that are not recommended for use with this product. Making unauthorized modifications and using incompatible accessories can damage the unit and may void the warranty.

OVERVIEW

This portable generator can provide power to a wide range of items including household appliances, job-site tools, camping equipment, tailgating essentials, and much more.

NOTICE Do not attempt to crank or start engine before it has been properly serviced with recommended oil. Failure to add engine oil before starting will result in serious engine damage that is not covered under warranty.

OPERATION

⚠ DANGER Generator exhaust contains high levels of carbon monoxide (CO), an invisible, odorless, and extremely poisonous gas. If you smell exhaust fumes, you are breathing carbon monoxide. But, even if you do not smell exhaust fumes you may be inhaling CO.

ONLY operate generators outside, in a well-ventilated area. NEVER operate generators indoors, doing so CAN KILL YOU IN MINUTES.

- **Correct Use** – ONLY use generators outside and downwind, far away from windows, doors and vents. ALWAYS direct exhaust away from occupied spaces. ALWAYS install battery-powered carbon monoxide detectors or plug-in carbon monoxide detectors with battery back-up in living areas. *See Figure 1.*
- **Incorrect Use** – NEVER use a generator in a home, garage, basement, attic, crawl space or any other fully or partially enclosed area. Areas such as these can allow dangerous levels of carbon monoxide to accumulate. An open door or a running fan WILL NOT provide adequate ventilation. *See Figure 2.*

If feeling dizzy, weak, or sick while using the generator, move to fresh air IMMEDIATELY. Contact a doctor. This may be carbon monoxide poisoning.

⚠ WARNING Do not alter or modify this product unless instructed to so in this manual or by the manufacturer. Do not use attachments or accessories that are not recommended for use with this product. Making unauthorized modifications and using incompatible accessories can damage the unit and may void the warranty.

⚠ WARNING Avoid skin contact with engine oil or gasoline. Wear protective clothing and equipment. Wash all exposed skin with soap and water. Prolonged skin contact with gasoline or engine oil may cause severe skin irritation and other adverse reactions.

NOTICE In certain circumstances, the National Electric Code may require the generator to be grounded to an approved earth. Consult with a qualified electrician to determine grounding requirements before operation.

NOTICE Inspect the physical condition of the product prior to each use. Look for loose bolts, fluid leaks, and other signs of wear. Replace all damaged items.

OPERATION

KNOW HOW TO SAFELY LOCATE AND OPERATE THE GENERATOR

⚠ DANGER Asphyxiation hazard. Place the generator in a well-ventilated area. DO NOT place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning the generator.

⚠ WARNING Electrocutation hazard. 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 circuit. Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or with wet hands, could result in electrocution.

⚠ WARNING Fire hazard. 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 or the air intake system. Allow the generator to cool for 30 minutes before transport or storage.

- Read and understand all safety information before starting the generator.
- NEVER use a generator in a home, garage, basement, attic, crawl space or any other fully or partially enclosed area. Areas such as these can allow dangerous levels of carbon monoxide to accumulate. Carbon monoxide (CO), an invisible, odorless, and extremely poisonous gas CAN KILL YOU IN MINUTES.
- DO NOT operate the generator in the back of a SUV, camper, trailer, truck bed (regular, flat, or otherwise), under stairs, next to walls or buildings, or in any other location that will not allow for adequate cooling of the generator and/or the muffler. Operating the generator in enclosed or partially enclosed areas will allow dangerous levels of CO to accumulate.
- DO NOT contain generators during operation.
- Only use OUTSIDE and far away from windows, doors, and vents as recommended by the US Department of Health and Human Services Centers for Disease Control and Prevention. Specific homes and/or wind conditions may require additional distance.
- Do not operate the generator on an incline. The unit should always be placed on a flat stable surface.
- The generator should be on a flat, level surface at all times (even while not in operation).
- The generator must have at least 5 ft. (1.5 m) of clearance from all combustible material.

KNOW THE REGULATIONS FOR THE USE OF PORTABLE GENERATORS

Consider where and how the generator will be used, and become familiar with any local, state, or federal ordinances concerning the intended use. It may be necessary to contact a qualified electrician or local governing agency for a full list of requirements.

ADDING OIL/INSPECTING OIL LEVEL

See Figures 7 - 8.

NOTICE Do not attempt to crank or start engine before it has been properly serviced with recommended oil. Failure to add engine oil before starting will result in serious engine damage that is not covered under warranty.

NOTICE Use of 2-stroke/cycle oil or other unapproved oil types can cause severe engine damage that is not covered under warranty.

The included, recommended oil type for typical use is 10W-30 engine oil. If running the generator in extreme temperatures, refer to the following chart.

Recommended Engine Oil Type								
°F	-20	0	20	40	60	80	100	120
°C	-28.9	-17.8	-6.7	4.4	15.6	26.7	37.8	48.9
Ambient Temperature								

NOTE: Inspect the engine oil level before each use or every 8 hours of operation.

1. Turn the generator off and allow the engine to cool for at least five minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. See Figure 7. Turn the lock knob to the unlocked position (3).
4. Remove the engine service cover (1).
5. Clean the area around the oil dipstick.

For initial oil fill:

1. Slowly unscrew and remove the oil dipstick.
2. Using the funnel, slowly pour the supplied engine oil into the oil fill hole. Stop frequently to be sure not to overfill.

NOTE: The generator was functionally tested in the factory and may contain minimum residual oil. Additional oil is required to operate the unit. **Do not** overfill.

3. Replace and tighten the oil dipstick.
4. Install the engine service cover and turn the lock knob to the locked position to secure.

To inspect oil level:

1. Slowly unscrew and remove the oil dipstick.

OPERATION

2. Clean the dipstick and seat it inside the oil fill hole. Do not thread the dipstick.
3. Remove the dipstick and confirm that the oil level is within safe operating range.
4. If the oil level is low, add recommended engine oil incrementally and inspect until the level is within the safe operating range.
5. Replace the oil dipstick and hand-tighten.
6. See Figure 7. Install the engine service cover and turn the lock knob to the locked position to secure (3).

GASOLINE REQUIREMENTS

NOTICE Do not use E15 or E85 fuel in this product. Engine or equipment damage caused by stale fuel or the use of unapproved fuels (such as E15 or E85 ethanol blends) is not covered by warranty. Only use unleaded gasoline containing up to 10% ethanol.

- ALWAYS use CLEAN, FRESH, unleaded gasoline (87–93 octane) in this unit. NEVER use OLD, STALE, or CONTAMINATED gasoline.
- Up to 10% ethanol (gasohol) is acceptable (where available; non-ethanol fuel is recommended).
- DO NOT use E85 or E15. Use of E15 or E85 fuel can damage the engine and void the warranty. Only use unleaded gasoline with up to 10% ethanol (87-93 octane).
- DO NOT use a gas oil mix.
- DO NOT modify the engine to run on alternate fuels.



USING FUEL STABILIZER

Adding a fuel stabilizer (not included) extends the usable life of fuel and helps prevent deposits from forming that can clog the fuel system. Follow the manufacturer's instructions for use.

Always mix the correct amount of fuel stabilizer to gasoline in an approved gasoline container before fueling the generator. Run the generator for five minutes to allow the stabilizer to treat the entire fuel system.

FIG. 7

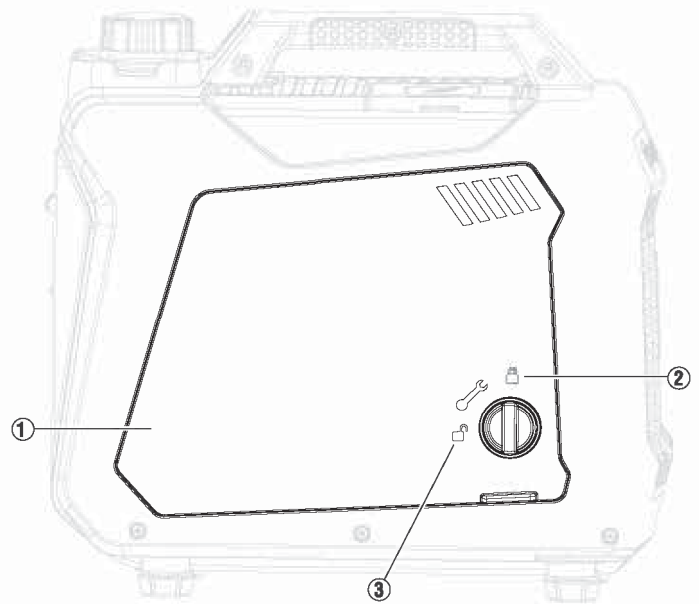
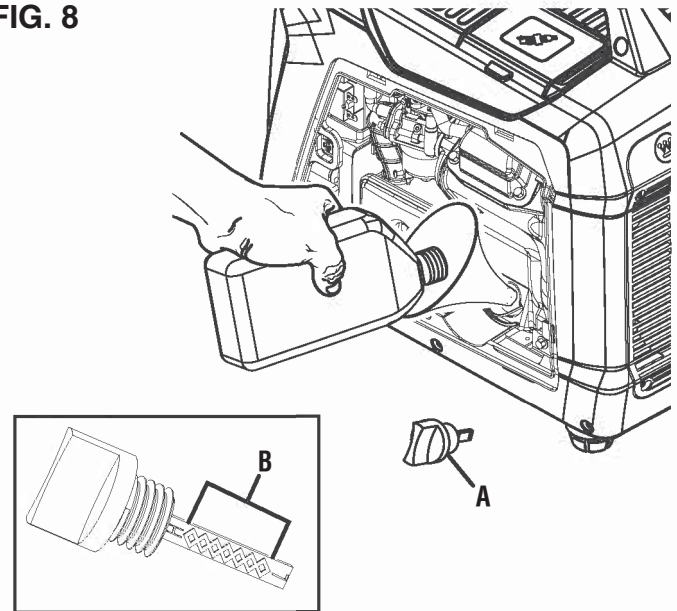


FIG. 8



A - Oil Dipstick
B - Safe Operating Range

OPERATION

ADDING GASOLINE

See Figures 9 - 10.

⚠ DANGER Fire and explosion hazard. Never remove the fuel cap or refuel the generator while the engine is running. Do not smoke or create sparks while fueling. Always turn the engine off and allow the generator to cool for at least five minutes before refueling.

⚠ DANGER Fire and explosion hazard. Do not overfill fuel tank. Fill only to the red maximum fill ring on the fuel screen. Overfilling may cause fuel to spill onto engine causing a fire or explosion hazard.

⚠ WARNING Never use a gasoline container, gasoline tank, or any other fuel item that is broken, cut, torn or damaged.

NOTICE Only fill the tank from an approved gasoline container. Be sure the gasoline container is internally clean and in good condition to prevent fuel system contamination.

1. Turn the generator off and allow the engine to cool for at least five minutes.
2. Place the generator on a level surface in a well-ventilated area.
DO NOT fuel indoors.
3. See Figure 9. Clean area around fuel cap and remove the cap (1) slowly.
4. Slowly add the recommended fuel. Do not overfill.

NOTE: See Figure 10. The gasoline level should NOT be higher than the red maximum fill ring (2) on the fuel screen (3).

5. Install the fuel cap. Tighten securely.
6. Clean up any spilled fuel.
7. Move at least 30 ft. away from refueling area before restarting the engine.

NOTICE Fuel can damage paint and plastic. Use caution when filling the fuel tank. Damage caused by spilled fuel is not covered under warranty.

NOTICE Clean the fuel screen filter of debris before and after each fueling. Remove the fuel screen filter by slightly compressing it while removing it from the fuel tank.

HIGH ALTITUDE OPERATION

Engine power is reduced the higher the generator is operated above sea level. Output will be reduced approximately 3.5% for every 1,000 feet of increased altitude from sea level.

High altitude adjustment is required for operation at altitudes over 5,000 ft. (1524 m). Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions.

FIG. 9

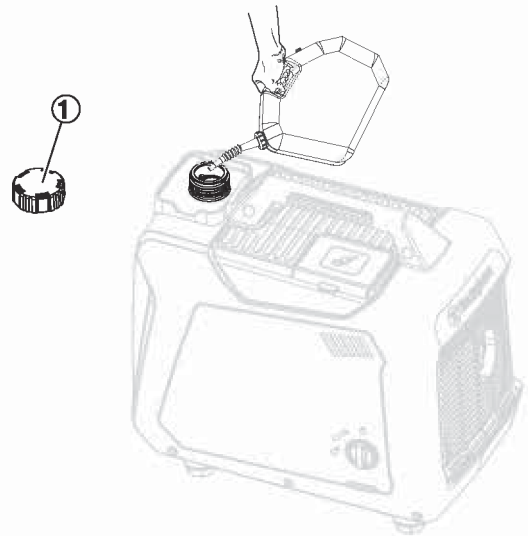
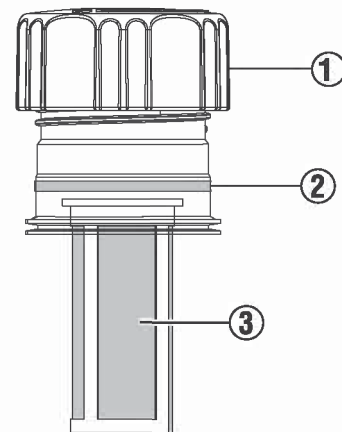


FIG. 10



OPERATION

NOTICE

DO NOT operate the generator at altitudes below 2,000 ft. (762 m) with the high altitude kit installed. Engine damage may occur.

High Altitude
Carburetor Kit

Part# 518921-1

DATA CENTER

See Figure 11.

Push the mode button (6) to cycle through the data display modes.

(1) **Voltage:** Displays current voltage output.

(2) **Frequency (Hz):** Displays power output frequency in Hertz.

(3) **Lifetime Hours:** Displays the lifetime run hours.

(4) **Fuel Level:** Indicates how much gasoline remains in the fuel tank.

(5) **Run Time/Maintenance:** Displays current run time. Resets to zero when shut down. Maintenance reminder displayed when required.

Maintenance Codes:

P25 - Change engine oil

P50 - Clean air filter, Change engine oil

P100 - Change engine oil, clean air filter, replace fuel filter

BREAK-IN PERIOD

For proper break-in, do not exceed 50% of the rated running watts during the first five hours of operation. Operating the generator at reduced loads allows engine components to seat properly and decreases the potential of long-term performance issues.

Use supplied oil until first recommend oil change. Do not use full synthetic oil during break in period. Full synthetic oil may prevent proper breaking and seating of the piston rings.

Vary the load occasionally to allow stator windings to heat and cool and help seat the piston rings.

BEFORE STARTING THE GENERATOR

Confirm that:

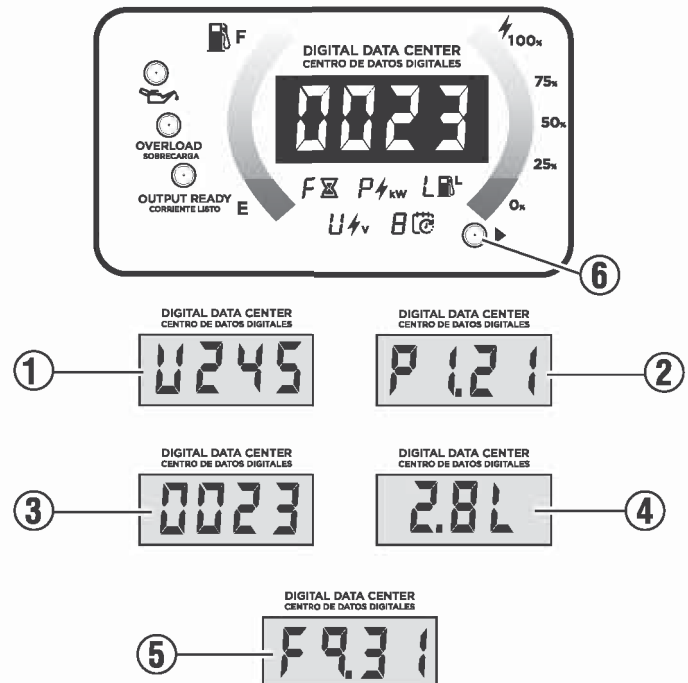
- The generator is placed in a safe, appropriate location.
- The generator is on a dry, flat, and level surface.
- Oil and fuel levels are within safe operating range.
- All loads are disconnected from the control panel receptacles.
- The ECO mode switch is in the OFF position.



DANGER

Fire and explosion hazard. DO NOT move or tip the generator during operation.

FIG. 11



OPERATION

STARTING THE GENERATOR

See Figures 12 - 13.

1. Place the generator in a safe, appropriate location.
2. Unplug all loads.
3. Be sure the ECO mode switch is in the OFF position.
4. Inspect oil and fuel levels. If needed, add fuel or oil as described earlier.
5. For cold starting, turn the engine/fuel control switch to the **CHOKE**  position.

NOTE: If restarting the generator, turn engine/fuel control switch to the **RUN**  position.

6. Firmly grasp and pull the recoil handle slowly until there is increased resistance. At this point, pull the recoil handle rapidly away from the generator until the engine starts.

NOTE: Gently return the recoil handle into place after starting the unit. Do not let it snap back against the unit. During initial starting, additional pulls may be required to prime the fuel pump.

7. After the engine starts turn the engine/fuel control switch to the **RUN**  position.

8. When the OUTPUT READY LED illuminates, connect loads to the control panel receptacles.

9. **NOTE:** Confirm that all devices are turned off before connecting them to the generator.

NOTE: Be sure that the wattage requirements for all connected devices are in line with the capability of the generator.

10. Connect and start the largest device or appliance.
11. Allow the generator output to stabilize. Once stable, the engine should run smoothly, and the device should function properly.
12. Connect and start the next largest device or appliance.
13. Allow the generator output to stabilize.
14. Repeat this process for each additional load.

STOPPING THE GENERATOR

See Figures 12 - 13.

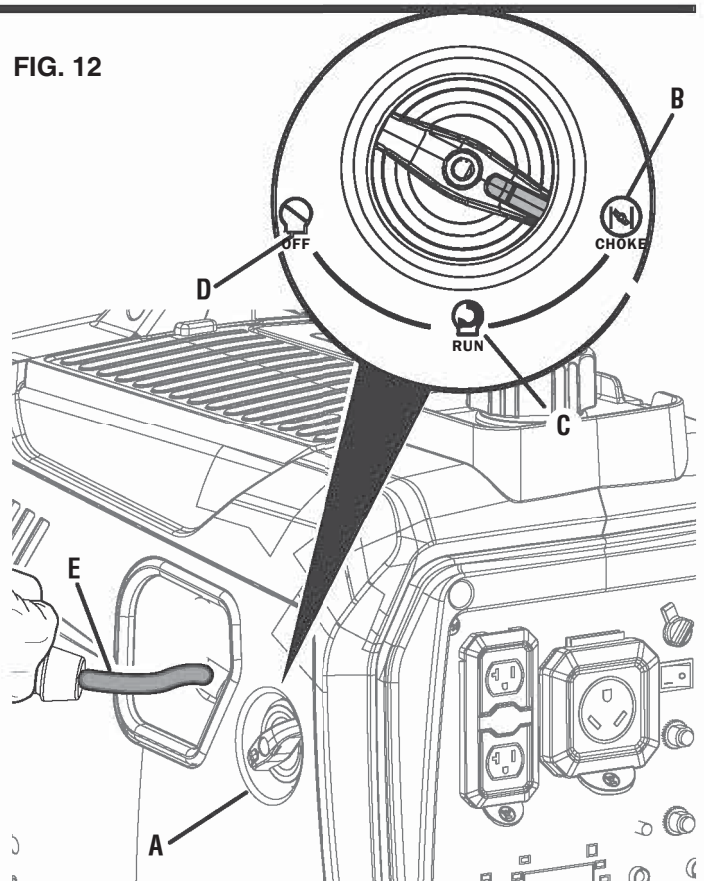
1. Remove any connected loads from the control panel receptacles.
2. Allow the generator to run at “no load” to reduce and stabilize engine and alternator temperatures.

3. Turn the engine/fuel control switch to the **OFF**  position

To stop the unit quickly in an emergency:

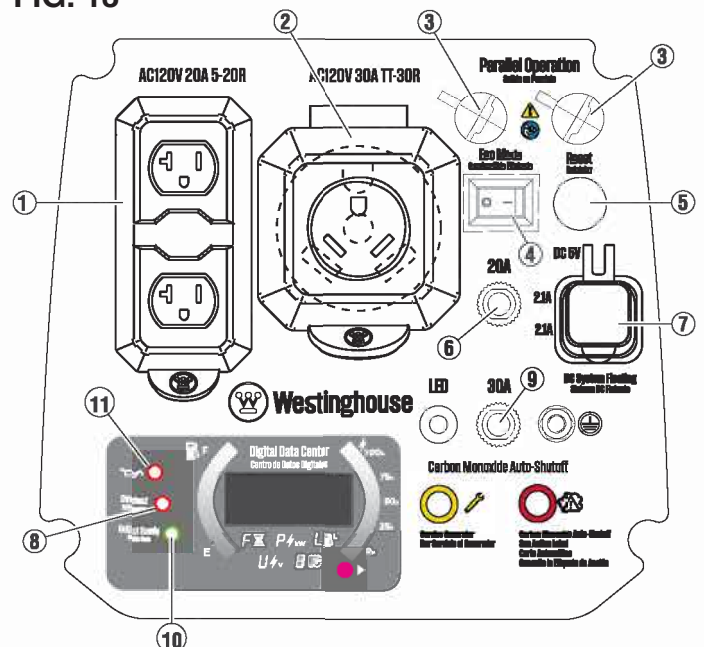
- Turn the engine/fuel control switch to the **OFF**  position

FIG. 12



- A - Engine/fuel control switch
- B - Choke
- C - Run
- D - Off
- E - Pull recoil handle

FIG. 13



- 1 - 120 Volt AC 20 Amp Receptacles
- 2 - 120 Volt AC 30 Amp Receptacle
- 3 - Parallel Operation Outlets
- 4 - ECO Mode Switch
- 5 - Reset Button
- 6 - 20 Amp Circuit Breaker
- 7 - USB Ports
- 8 - Overload LED
- 9 - 30 Amp Circuit Breaker
- 10 - Output Ready LED
- 11 - Low Oil LED

OPERATION

LOW OIL INDICATOR

See Figure 14.

The LOW OIL LED on the control panel will illuminate when the unit is low or out of oil. The generator will not start when the indicator is lit. To resume normal operation, add engine oil as described earlier in this section. **Do not attempt to crank or start engine before it has been properly serviced with recommended oil.**

ECO MODE

See Figure 13.

NOTICE Always start the generator with the ECO mode switch in the OFF position. Allow the engine speed to stabilize and the OUTPUT READY LED to illuminate before putting the ECO mode switch in the ON position.

NOTICE Do not use ECO mode when in parallel operation with another Westinghouse inverter generator.

ECO mode minimizes fuel consumption and noise by adjusting the engine RPM to the minimum required for the current load.

Turn ECO mode ON when powering small appliances with continuous loads such as a computer or electric light.

Turn ECO mode OFF when powering large surge loads such as an air conditioner or electric pump.

To turn on ECO mode, confirm that the OUTPUT READY LED is illuminated, then push the switch to the ON position. If no load is present, the generator RPM will drop to idle speed. The generator will detect loads as they are applied and increase engine RPM.

To run the generator at maximum power and RPM, push the ECO mode switch to the OFF position.

OVERLOAD RESET

See Figure 13.

Do not overload the generator. If the generator is approaching or has reached an overload condition, the OVERLOAD LED on the control panel will illuminate.

If the generator is close to overloading, the OVERLOAD LED will blink. Turn off and remove one or more connected devices to decrease the load and resume normal operation. If the load is not reduced, the unit will reach an overload condition. To extend the service life of the generator, avoid running the unit near capacity.

If the generator is overloaded or if there is a short circuit in a connected device, the OVERLOAD LED will turn solid, and the unit will automatically disconnect from the load. The engine will continue to run, but there will not be any electrical output.

To restore electrical output after an overload:

1. Remove any connected loads from the control panel receptacles.
2. Push the RESET button on the control panel until the OVERLOAD LED goes OFF and the OUTPUT READY LED is illuminated.
3. Reset the circuit breaker(s) if activated.
4. Confirm that the intended running and surge loads do not exceed the capacity.

5. Reconnect electrical loads sequentially, allowing the generator to stabilize after each load is connected.

CIRCUIT BREAKERS

See Figure 13.

The 20 amp circuit breaker protects devices and equipment connected to the 120V, 20 amp receptacles from electrical overload. The 30 amp circuit breaker protects devices and equipment connected to the 120V, 30 amp receptacles. If a circuit breaker activates, turn off the connected device, remove it from the port or outlet, and press the circuit breaker to reset.

USB PORTS

See Figure 13.

Use the USB ports and USB cables (not included) to charge USB-compatible devices such as phones, tablets, and speakers (up to 2.1 Amps).

NOTE: The USB ports are designed for charging only and do not have data transfer or communication capabilities.

PARALLEL OPERATION

See Figure 13.

Parallel operation provides the ability to link another compatible Westinghouse inverter generator for combined running and peak power output.

⚠ DANGER **Fire and electrocution hazard.** Never connect or disconnect the parallel cable leads when a generator is running. Failure to follow this rule may lead to serious personal injury or death.

⚠ WARNING Correct connection of the cables is very important when the generators are used with a transfer switch to supply power to a building. To avoid serious personal injury or damage to electrical devices, including the generators, do not try to power an electrical system in a building without using an approved transfer switch.

NOTICE Connecting to a generator that is not compatible can cause a low voltage output that may damage tools and appliances powered by the generator.

Only use a 120 V Westinghouse parallel cable kit for parallel operation. Third party parallel cables may not have the capacity to carry or maintain the increased voltage. For the Westinghouse 120 V parallel cable kit, P/N 504114, please visit parts.wpowereq.com.

NOTE: Be sure both units have been shut down and there are no devices connected to the outlet receptacles.

NOTICE Arrange the generators in a “V” shape to allow the heat from the exhaust to safely escape. The exhaust heat from one unit may discolor or melt the plastic case of the other unit if positioned too closely together.

OPERATION

To install the parallel cable:

1. Insert the cable end into one of the parallel ports on the first unit. Insert the other end of the same cable into the corresponding port on the second unit.
2. Repeat steps with the other cable.

NOTE: It is important to connect both ends of the cable to the same ports on both generators. Be sure the same cable ends are connected to the same port on each generator before starting the generators.

Start one generator at a time. Wait for the first unit to run at a stable idle before starting the second unit. Connect one device at a time and allow the unit to stabilize before connecting the next device.

To remove the parallel cable:

1. Remove all devices from the receptacles.
2. Shut down both of the connected generators.
3. Remove the parallel cable ends from the generator ports.

TRANSPORTING

- Turn off the generator.
- Allow the generator to cool a minimum of 30 minutes before transporting.
- Replace all protective covers on the generator control panel.
- Only use the fixed handle to lift the unit or attach 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.

- Keep the unit level during transport to minimize the possibility of fuel leakage or, if possible, drain the fuel or run the engine until the fuel tank is empty before transport.



CAUTION

Fire hazard. DO NOT up-end the generator or place it on its side. Fuel or oil can leak and damage to the generator may occur.

MAINTENANCE



WARNING

Accidental start-up. Disconnect the spark plug boot (*see figure 16*) from the spark plug when performing maintenance on the generator.



WARNING

Replace damaged or worn items with recommended or equivalent replacement parts. Using an incorrect or incompatible part might create a hazard that could result in serious personal injury.



WARNING

Allow hot components to cool for 30 minutes before performing any maintenance procedure.



WARNING

Avoid skin contact with engine oil or gasoline. Wear protective clothing and equipment. Wash all exposed skin with soap and water. Prolonged skin contact with gasoline or engine oil may cause severe skin irritation and other adverse reactions.

NOTICE

Inspect the physical condition of the product prior to each use. Look for loose bolts, fluid leaks, and other signs of wear. Replace all damaged items. For replacement parts or assistance, contact our customer service team.

To prolong the life of this product, follow the maintenance instructions in this section. Contact customer service before servicing any recall or warranty parts.

CLEANING THE GENERATOR

Do not store or operate the generator in dirty, dusty, or corrosive environments. Do not allow foreign materials and debris to clog the vents on the unit.

NEVER clean the generator with a garden hose. Water can damage the fuel system and electrical components. If the unit needs to be cleaned, use a soft brush and damp cloth to clean the exterior and use low pressure air (no greater than 25 psi) to clean the vents.

Never use gasoline as a cleaning agent.

MAINTENANCE

CLEANING/REPLACING THE AIR FILTER

Keep air filter clean. A dirty air filter can cause poor performance and decrease the service life of the product. **NEVER operate the generator without an air filter in place.**

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Turn the lock knob to the unlocked position.
3. Remove the engine service cover.
4. See Figure 14. Remove the screw (3) and air filter cover (1).
5. Remove the air filter (2) from the air cleaner housing and place it in a suitable cleaning container. **Replace the air filter if damaged.**

NOTE: The air filter may be covered in oil. Use an appropriate container.

6. Wash the air filter by submerging the filter in a solution of household detergent soap and warm water. Slowly squeeze the filter to thoroughly clean.

NOTICE DO NOT twist or tear the air filter during cleaning or drying. Only apply slow but firm squeezing action.

7. Rinse the air filter by submerging it in fresh water and applying a slow squeezing action. Allow the filter to dry thoroughly.

NOTICE Do not pollute. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

8. Dip the air filter in clean engine oil then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the filter.
9. Install the air filter in the air cleaner housing and reinstall the air filter cover.
10. Install the engine service cover and turn the lock knob to the locked position to secure.

CHANGING THE ENGINE OIL

For optimal performance, change the engine oil according to the figures specified in the **maintenance schedule** or the engine manual (if applicable). When using the generator under extreme, dirty, dusty conditions or in extremely hot weather, change the oil more frequently.

NOTE: Change the oil while the engine is warm but not hot. Warm engine oil drains more quickly and thoroughly than cool lubricant. Contact with hot lubricant will cause serious burns.

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. Turn the lock knob to the unlocked position.
4. Remove the engine service cover.
5. Clean the area around the oil dipstick.
6. See Figure 15. Slowly unscrew and remove the oil dipstick (1).
7. Place an oil pan (2) under the oil fill/drain hole.
8. Tilt the generator (3) to drain the oil.

FIG. 14

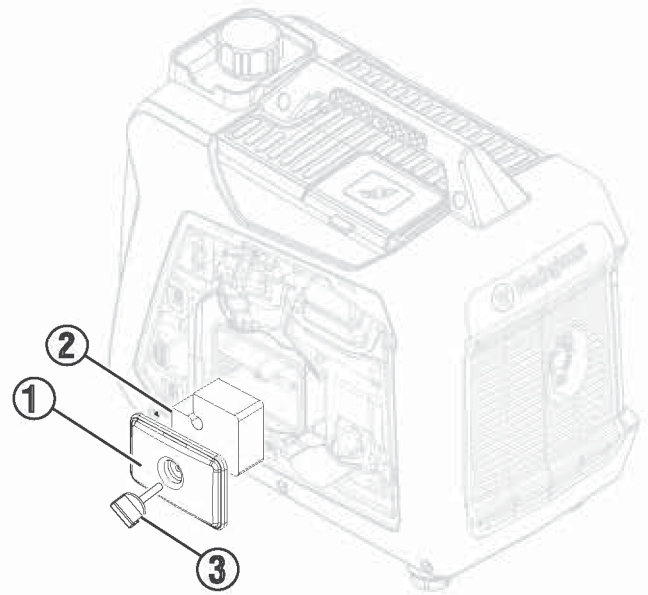
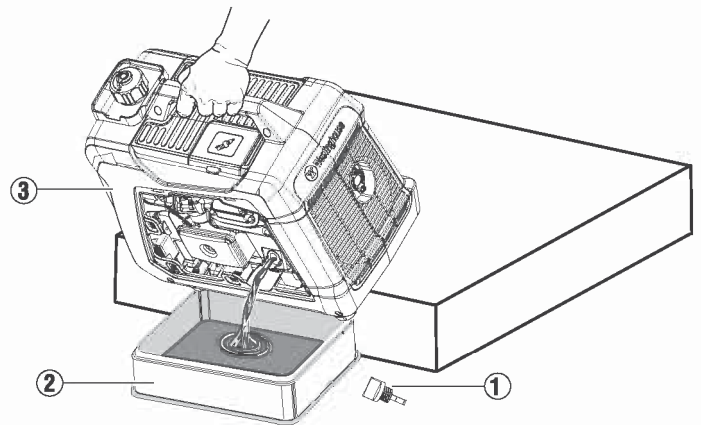


FIG. 15



9. After the oil has drained completely, place the generator in an upright position.
10. Refill the oil.
11. Replace the oil dipstick and hand-tighten.
12. Clean up any spilled oil.
13. Install the engine service cover and turn the lock knob to the locked position to secure.

MAINTENANCE

CLEANING/REPLACING THE SPARK PLUG

See Figure 16.

NOTICE **ALWAYS** use the Westinghouse OEM or compatible non-resistor-type spark plug. Use of resistor-type spark plug can result in rough idling, misfire, or may prevent the engine from starting.

Be sure the spark is clean and properly gapped. To clean or replace the spark plug:

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. Lift the spark plug service door to gain access to the spark plug area.
4. Remove the spark plug boot by firmly pulling the spark boot directly away from the engine.
5. Clean the area around the spark plug.
6. Remove the spark plug with the included spark plug socket wrench.

NOTICE Never apply any side load or move the spark plug laterally when removing the spark plug.

7. Inspect the spark plug. Replace if electrodes are pitted, burned, or the insulator is cracked. Only use a recommended replacement plug.
8. Measure the spark plug electrode gap with a wire-type feeler gauge. If necessary, correct the gap by carefully bending the side electrode.

Spark plug gap: 0.024 - 0.032 in. (0.60 - 0.80 mm)

9. Carefully install the spark plug finger tight, then tighten as additional 3/8 to 1/2 turn with the spark plug wrench.
10. Install the spark plug boot and close the spark plug service door.

CLEANING THE SPARK ARRESTOR

Inspect and clean the spark arrestor according to the figures specified in the **maintenance schedule**. Failure to clean the spark arrestor will result in degraded engine performance.

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. See Figure 17. Remove the two screws (3) securing the spark arrestor bracket (4).
4. Remove the bracket, screen (2), and spark arrestor (1) from the generator.
5. Gently clean the screen and spark arrestor using a wire brush.
6. Install the spark arrestor, screen, and bracket. Tighten screws securely.

FIG. 16

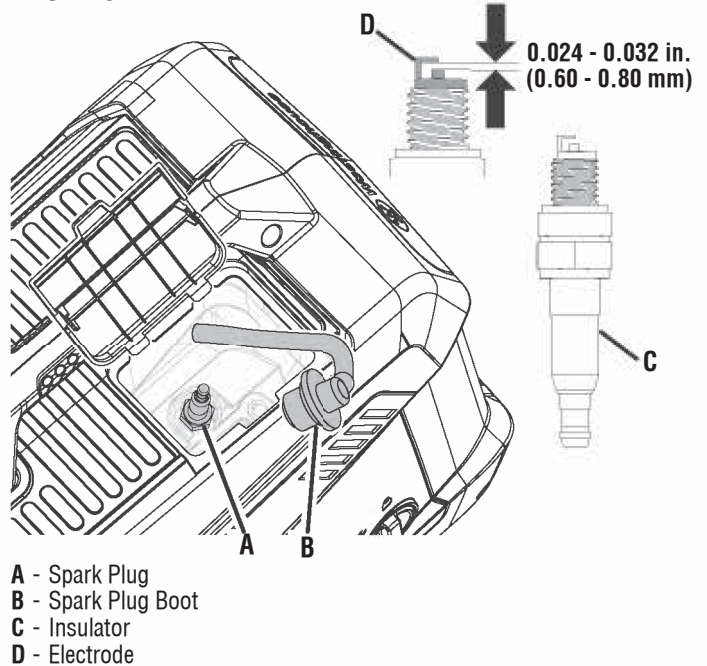
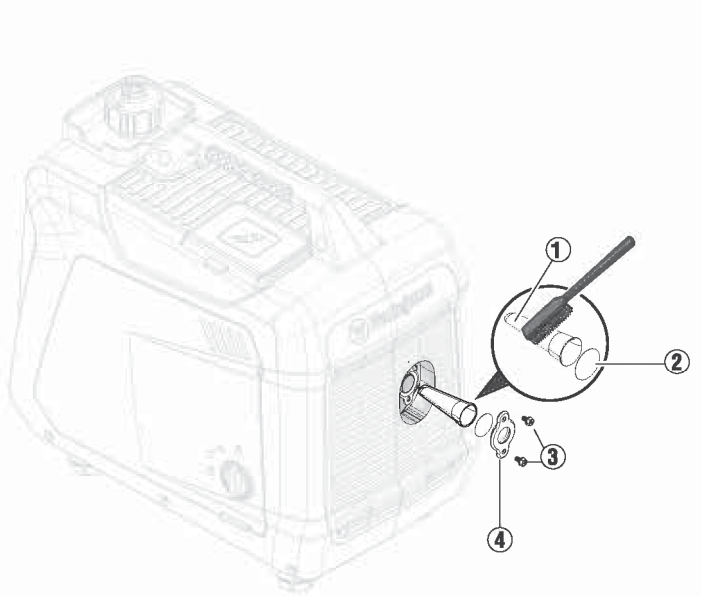


FIG. 17



MAINTENANCE

DRAINING THE FUEL TANK AND CARBURETOR FLOAT BOWL

See Figures 18 - 20.

WARNING **ALWAYS** store gasoline in a container approved for gasoline. Unapproved containers can break or deteriorate allowing gasoline or gasoline vapors to escape which can create a serious hazard.

Even properly stabilized fuel can leave residue and cause corrosion if left long term. If storing the generator for two to six months, drain the float bowl to prevent gum and varnish buildup in the carburetor. If storing the generator for longer than six months, drain the fuel tank to prevent fuel separation, deterioration, and deposits in the fuel system.

To drain the float bowl:

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. See Figure 19. Turn the engine/fuel control switch to the **OFF** position (1).
4. Remove the engine service cover.
5. Locate the drain hose extending from the bottom of the carburetor float bowl.
6. Place the bottom end of the hose outside the generator into an approved gasoline container to catch the drained fuel.
7. Loosen the float bowl drain screw and allow the fuel to drain. Tighten the float bowl drain screw.
8. Route the drain hose between the air cleaner housing and the engine service cover. Install the engine service cover.

To drain the fuel tank:

NOTICE To prevent damage to the unit, drain the engine oil before emptying the fuel tank. See **Changing the engine oil** for details.

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. See Figure 19. Turn the engine/fuel control switch to the **OFF** position (1).
4. Clean area around fuel cap and remove the cap slowly.
5. Remove the fuel screen filter by slightly compressing it while removing it from the tank.
6. Using a commercially available gasoline hand pump (not included), siphon the gasoline from the fuel tank into an approved gasoline container. **DO NOT** use an electric pump.

NOTE: The fuel tank can also be drained using the carburetor drain screw and drain hose. Keep the engine/fuel control switch in the **OFF** position to allow fuel to flow from the tank through the carburetor.

FIG. 18

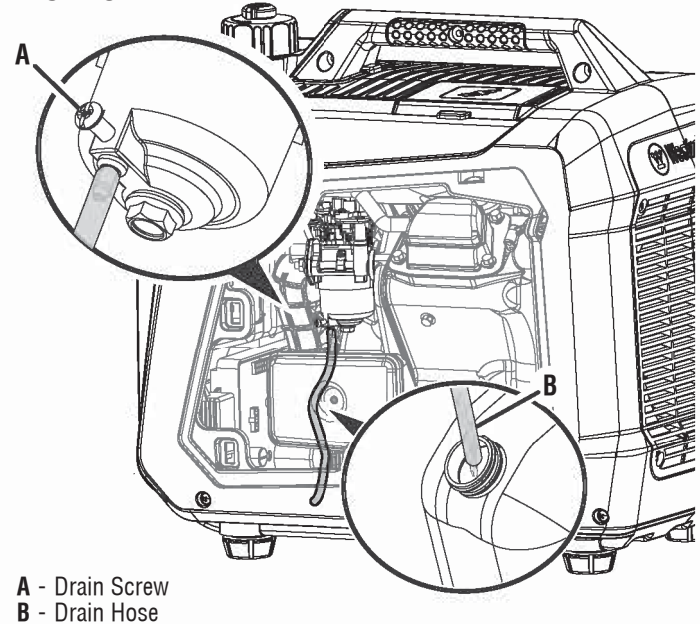


FIG. 19

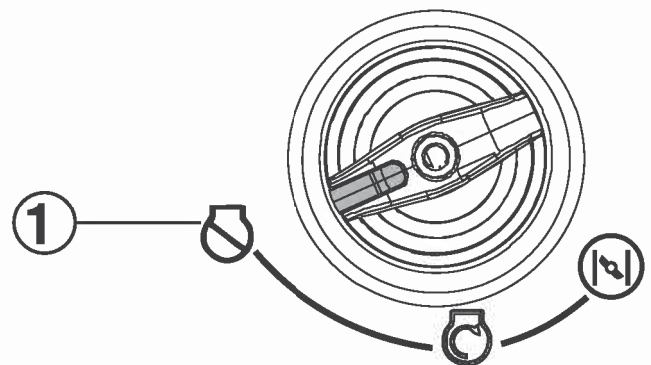
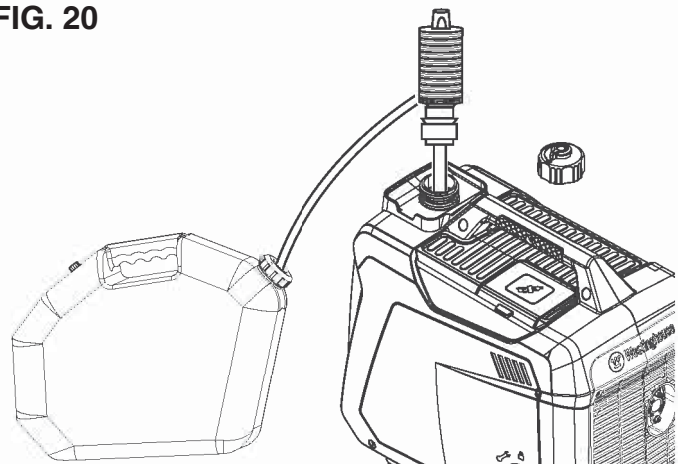


FIG. 20



MAINTENANCE

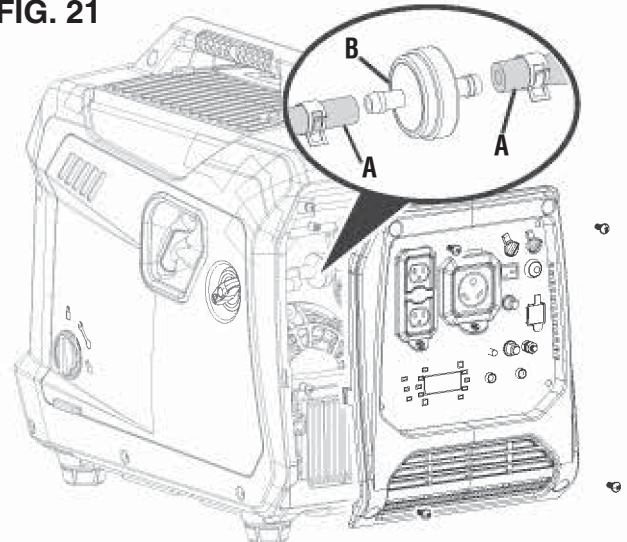
REPLACING THE FUEL FILTER

See Figure 21.

To reduce the risk of engine failure, replace the fuel filter according to the figures specified in the **maintenance schedule**.

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Drain the fuel tank.
3. Remove the screws securing the control panel.
4. Remove the control panel.
5. Locate the fuel filter and note the orientation.
6. Using pliers, squeeze the fuel line clips and slide the fuel lines away from the filter.
7. Install the fuel lines onto the new filter. Confirm that the fuel filter is oriented correctly.
8. Replace the control and tighten screws securely.

FIG. 21



A - Fuel Line
B - Fuel Filter

INSPECTING/ADJUSTING THE VALVE CLEARANCE

NOTICE

Inspecting and adjusting valve clearance must be done when the engine is cold.

1. Turn the generator off and allow the engine to cool for 30 minutes.
2. Place the generator on a level surface in a well-ventilated area.
3. See Figure 22. Remove the rocker arm cover (1) and carefully remove the gasket (3). If the gasket is torn or damaged, it must be replaced.
4. Remove the spark plug so the engine can be rotated more easily.
5. Pull the recoil handle to rotate the engine to top dead center (TDC). Looking through the spark plug hole; the piston should be at the top (both valves are closed).
6. Both rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine 360°.
7. See Figure 23. Insert a feeler gauge between the rocker arm (4) and the valve stem (5) to measure valve clearance.

FIG. 22

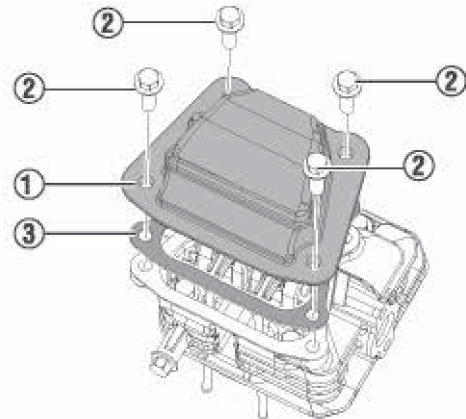
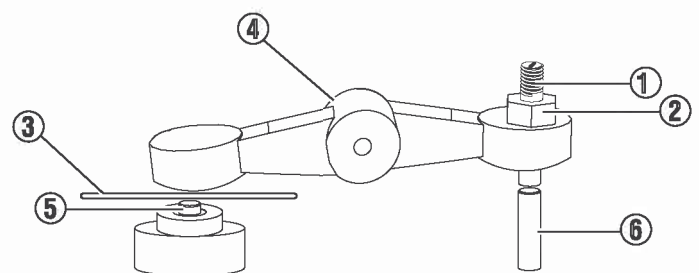


FIG. 23



	Intake Valve	Exhaust Valve
Valve Clearance	0.0031 – 0.0047 in (0.08 – 0.12 mm)	0.0051 – 0.0067 in (0.13 – 0.17 mm)
Torque	8-12 Nm	8-12 Nm

8. If an adjustment is necessary, loosen the jam nut (2).
9. Slide the appropriate feeler gauge between the rocker arm and the valve stem.
10. Tighten the adjustment screw onto the push rod (6) to obtain the specified clearance.
11. Hold the adjustment screw (1) in place and tighten the nut (2).

Torque: 106 inch-pound (12 Nm)

12. Inspect valve clearance.
13. If no further adjustments are needed, perform this procedure on the other valve.
14. When finished, install the gasket, rocker arm cover, and spark plug.

MAINTENANCE

STORAGE

Turn the unit off and allow it to cool a minimum of 30 minutes before storage. Keep the unit upright. Do not store the generator on its side. Drain fuel before storing the unit. Store the unit and the fuel separately in well-ventilated areas away from sparks, open flames, pilot lights, heat, and other sources of ignition.

NOTICE

Gasoline stored for as little as 30 days can deteriorate, causing gum, varnish, and corrosive buildup in fuel lines, fuel passages, and the engine. This corrosive buildup restricts the flow of fuel, which can prevent the engine from starting after a prolonged storage period. The use of fuel stabilizer significantly increases the storage life of gasoline. Full-time use of fuel stabilizer is recommended. Follow the manufacturer's instructions for use.

STORAGE TIME	RECOMMENDED PROCEDURE
Less than 1 month	Clean the exterior of the generator and remove any debris from the muffler cooling vents.
2 to 6 months	Clean the exterior of the generator and remove any debris from the muffler cooling vents. Drain the carburetor float bowl. (Store gasoline in an approved gasoline container or dispose of it according to state and local ordinances.)
6 months or longer	Clean the exterior of the generator and remove any debris from the muffler cooling vents. Drain the carburetor float bowl and the fuel tank. (Store gasoline in an approved gasoline container or dispose of it according to state and local ordinances.) Put a tablespoon of engine oil into the spark plug cylinder. Gently pull the recoil handle to slowly turn the engine and distribute the lubricant. Reinstall the spark plug Change the engine oil.

MAINTENANCE SCHEDULE

Regular maintenance will improve performance and extend the service life of the generator. Follow the hourly or calendar intervals, whichever occurs first. More frequent service is required when operating in adverse conditions as noted below.

	Before Each Use	After First 25 Hours or First Month	After 50 Hours or Every Six Months	Every 100 Hours or Every Six Months	Every 300 Hours or Every Year
Inspect Engine Oil	X		X		
Change Engine Oil ¹		X		X	
Clean Air Filter ²			X		
Inspect/Clean Spark Arrestor				X	
Inspect/Clean Spark Plug				X	
Inspect/Adjust Valve Clearance ³				X	
Replace Spark Plug					X
Replace Air Filter					X
Replace Fuel Filter				X	

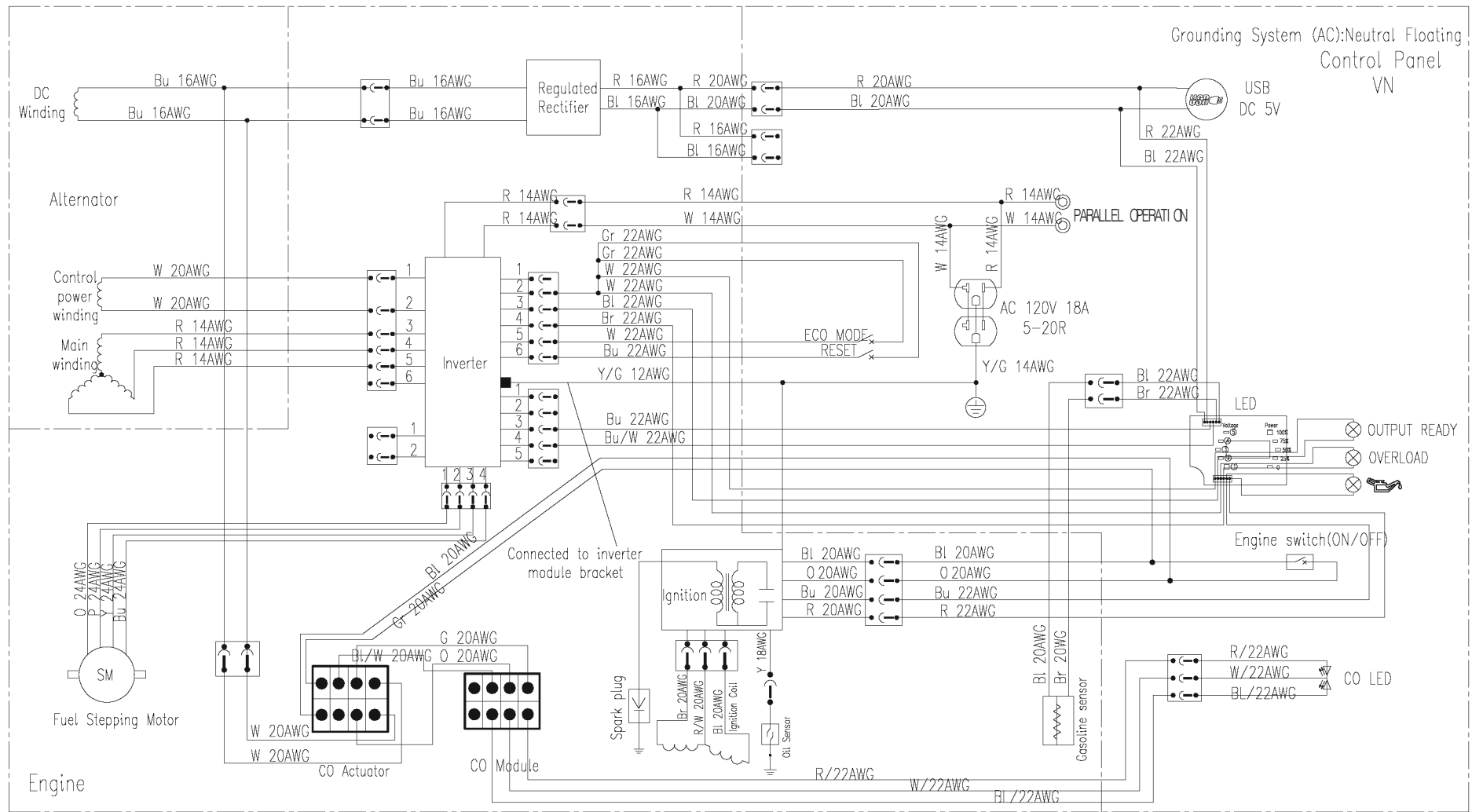
¹ Change oil every month when operating under heavy load or in high temperatures.

² Clean more often under dirty or dusty conditions. Replace air filter if it cannot be adequately cleaned.

³ Recommend service to be performed by authorized Westinghouse service dealer.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Engine starts, then shuts down	Fuel level is low or depleted.	Refuel.
	Incorrect engine oil level.	Inspect engine oil level.
	Dirty air filter.	Clean the air filter.
	Contaminated gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Defective low oil level switch.	Contact customer service at 1 (855) 944-3571.
Engine lacks power	Air filter restricted.	Clean or replace air filter.
	Stale gasoline, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Fuel system malfunction, ignition malfunction, or valves stuck.	Contact customer service at 1 (855) 944-3571.
Engine will not start	Out of fuel.	Refuel.
	Stale gasoline, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the gasoline tank. Refuel with fresh gasoline.
	Dirty air filter.	Clean the air filter.
	Low engine oil level stopped generator.	If LOW OIL LED illuminated, turn engine/fuel control switch to the OFF  position. Add engine oil.
	Spark plug wet with fuel (flooded engine).	Wait five minutes. Turn engine/fuel control switch to the OFF  position. Pull recoil handle rapidly several times. If the generator does not start, remove spark plug and dry.
	Spark plug faulty, fouled, or improperly gapped.	Gap or replace the spark plug. Reinstall.
	Fuel system malfunction, ignition malfunction, or valves stuck.	Contact customer service at 1 (855) 944-3571.
	CO sensor removed or modified.	Return to original configuration.
	CO sensor activated or system fault occurred.	Relocate generator / Contact customer service at 1 (855) 944-3571.
Engine runs rough or bogs when load applied	Dirty air filter.	Clean the air filter.
	Generator overloaded.	Unplug some devices.
	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Fuel system malfunction, ignition malfunction, or valves stuck.	Contact customer service at 1 (855) 944-3571.
No power at AC receptacles	OUTPUT READY LED is OFF and OVERLOAD LED is ON.	Inspect AC load. Stop and restart engine.
		Inspect the air inlet. Stop and restart the engine.
	AC circuit breaker/s tripped.	Inspect AC loads and reset circuit breaker/s.
	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Faulty generator.	Contact customer service at 1 (855) 944-3571.



Bl	Black	Br	Brown	Y/G	Yellow green
R	Red	R/W	Red/white	O	Orange
Bu	Blue	Gr	Gray		
W	White	Bu/W	Blue white		
Y	Yellow	Bl/W	Black/white		



www.WestinghouseOutdoorPower.com
Service Hotline (855) 944-3571
777 Manor Park Drive, Columbus, OH 43228

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