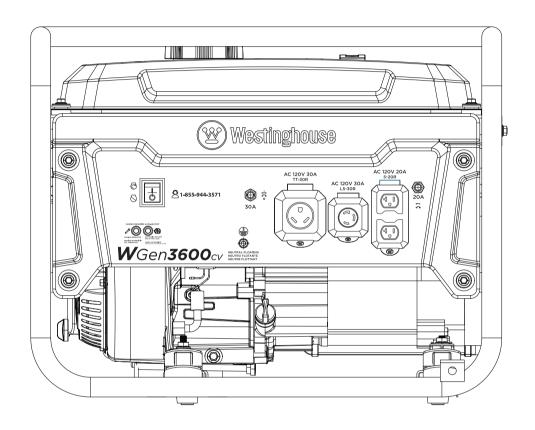


## **USER MANUAL**



# WGen3600cv

## **Portable Generator**

Gasoline: 3600 Running Watts | 4650 Peak Watts

#### DO NOT RETURN THIS PRODUCT TO THE STORE

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

## INTRODUCTION

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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.

#### **ALL RIGHTS RESERVED**

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#### **A 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.

#### SAVE THESE INSTRUCTIONS

#### **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.

#### **UPDATES**

The latest User Manual for your Westinghouse generator can be found under our support tab. https://westinghouseoutdoorpower.com/pages/manuals

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



## INTRODUCTION

#### **SPECIFICATIONS**

Running Watts: Peak Watts: Rated Power@1.0 Power	3600 4650 3.6 kW	
Peak Watts: Rated Power@1.0 Power	4650	
Rated Power@1.0 Power		
	3.6 kW	
Factor:		
Peak Power:	4.650 kVA	
Rated Voltage:	120V	
Rated frequency:	60 Hz @ 3600 RPM	
Phase:	Single phase	
Total Harmonic Distortion:	≤ 23%	
Engine Displacement:	212 cc	
Starting Type:	Recoil	
Fuel Capacity:	4.0 Gallons (15 Liters)	
Fuel Type:	Unleaded gasoline 87–93 octane*	
Oil Capacity:	0.63 Quart (0.6 Liter)	
Oil Type:	SAE 10W-30	
Spark Plug:	91708 (F7TC)	
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:	Floating neutral	
Voltage Regulator:	AVR	
Alternator Type:	Brushed	
Maximum Ambient Temperature:	104°F (40°C)	
Certifications:	• EPA • CARB	

<sup>\*</sup>Ethanol content of 10% or less. **DO NOT** use E15 or E85.

#### **NOTICE**

This product is designed and rated for continuous operation at ambient temperatures up to 104°F (40°C). If needed, this product can be operated at temperatures ranging from 5°F (15°C)–122°F (50°C) for short periods. If the product is exposed to temperatures outside of this range during storage, it should be brought back within this 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.

#### PRODUCT REGISTRATION

For trouble-free warranty coverage, it is important to register your Westinghouse generator.

You can register by:

- Completing and mailing the product registration card included in the carton.
- Registering your product online at: <a href="https://westinghouseoutdoorpower.com/pages/">https://westinghouseoutdoorpower.com/pages/</a> warranty-registration
- Scan the following QR code with your smartphone camera to be directed to the mobile registration link.



• Sending the following product information to:

Westinghouse Outdoor Power Warranty registration 777 Manor Park Drive Columbus, OH 43228

#### For Your Records

Date of Purchase:	
Model Number:	
Serial Number:	
Place of Purchase:	

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

### SAFETY

#### **SAFETY**

#### SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION, and NOTICE are used throughout this manual to highlight important information. Make 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, be alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

#### **A DANGER**

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

#### **AWARNING**

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

#### **A 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**

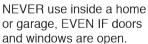
Follow all safety information contained in this manual and on the generator.

Symbol	Description
$\triangle$	Safety Alert Symbol
	Electrocution Hazard
	Asphyxiation Hazard
	Burn Hazard. <b>DO NOT</b> touch hot surfaces.
Â	Electrical Shock Hazard
	Fire Hazard
<b>4</b> ™ <b>•</b>	Maintain Safe Distance
\(\hat{\sigma}\)	Lifting Hazard
(%)	Read Manufacturer's Instructions
	DO NOT Operate in Wet Conditions
	Ground. Consult with electrician to determine grounding requirements before operation.

### A DANGER

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.





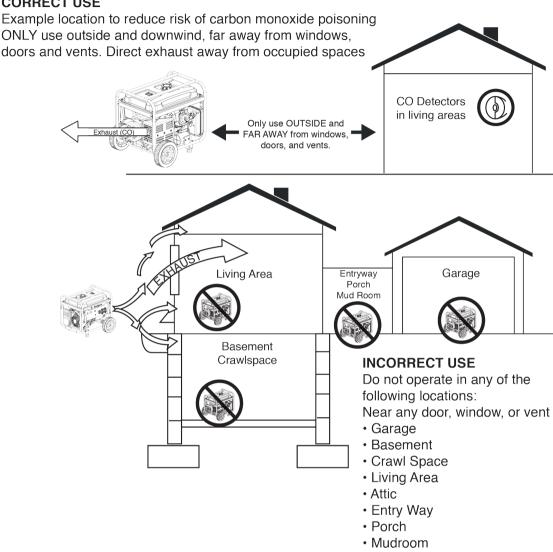




Only use OUTSIDE and far away from windows, doors, and vents.

#### SAFETY INSTRUCTIONS





#### **NOTICE**

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

#### **A DANGER**

Fire and electrocution hazard. DO NOT connect to a building's electrical system unless the generator and 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.

#### **A 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.

## **SAFETY**

#### **GENERAL SAFETY PRECAUTIONS**

- NEVER use the generator to power medical support equipment.
- **DO NOT** operate the generator when you are tired or under the influence of drugs, alcohol, or medication.
- DO NOT use generator with electrical cords which are worn, frayed, bare, or otherwise damaged.
- All electrical tools and appliances operated from this generator must be properly grounded by use of a third wire or be double-insulated.
- When this generator is used to supply a building wiring system the generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with NFPA 70, National Electrical Code.
- If you begin to feel sick, dizzy, or weak while using the generator, move to fresh air IMMEDIATELY. See a doctor, as you can have carbon monoxide poisoning.
- 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. Your specific home and/or wind conditions may require additional distance.
- While operating and storing, keep at least five feet of clearance on all sides of the generator, including overhead. Allow the generator 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 touch 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.
- ALWAYS remove any tools or other service equipment used during maintenance away from the generator before operating.
- Avoid skin contact with engine oil or gasoline. Wear protective clothing and equipment. Wash all exposed skin with soap and water.
- A transfer switch must be installed by a licensed electrician approved by the authority having jurisdiction.
   The installation must comply with all applicable laws and electrical codes.

#### **FUEL SAFETY**

- Store fuel in a container approved for gasoline.
- DO NOT smoke when filling the generator with gasoline.
- DO NOT allow the generator's gas tank to overflow when filling.
- Shut down the engine and allow it to cool for two minutes before adding gasoline or oil to the generator.
- NEVER remove the fuel cap when the generator is running. Shut off the engine and allow the unit to cool

- at least two minutes. Remove the fuel cap slowly to release pressure, keep fuel from escaping around the cap, and to avoid the heat from the muffler igniting fuel vapors. Tighten the fuel cap securely after refueling.
- · Wipe spilled fuel from the unit.
- · NEVER attempt to burn off spilled fuel.
- NEVER overfill the fuel tank. Leave room for fuel to expand. 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. If fuel is spilled on the generator, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the generator.
- · Wear eye protection while refueling.
- · NEVER use gasoline as a cleaning agent.
- Store any containers containing gasoline in a wellventilated area, away from any combustibles or source of ignition.

#### **GASOLINE AND GASOLINE VAPOR (GAS)**

#### **A DANGER**

Fire and explosion hazard. Gasoline and LPG/propane are highly explosive and flammable and can cause severe burns or death.

- In case of a gas fire, DO NOT attempt to extinguish the flame if the fuel tank valve is in the ON position. Introducing an extinguisher to a generator with an open fuel valve could create an explosion hazard.
- Gas has a distinctive odor, this will help detect potential leaks quickly.
- Gas vapors can cause a fire if ignited.
- Gasoline is a skin irritant and needs to be cleaned up immediately if it comes in contact with the skin.

#### When starting the generator:

- Make sure that the fuel cap, air filter, spark plug, fuel lines, and exhaust system are properly in place.
- If you spill any gasoline on the tank, allow it to fully evaporate before operating.
- Make sure the generator is on a flat surface before operating.

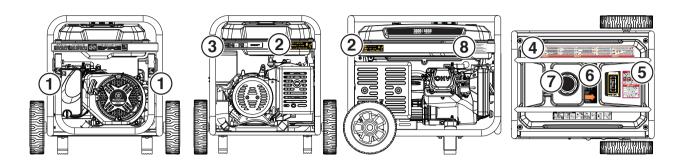
#### When transporting or servicing the generator:

Disconnect the spark boot to prevent accidental starting.

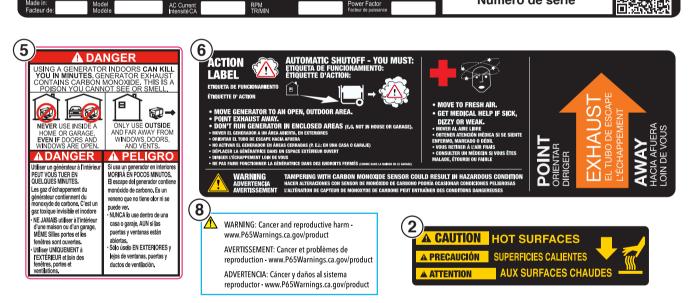
#### When storing the generator:

- Store away from sparks, open flames, pilot lights, heat, and other sources of ignition.
- DO NOT store gas near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

#### **SAFETY LABELS AND DECALS**











## SAFETY

#### 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, notifies the user with a RED indicator light, and directs the user to read the Action Label for steps to take. The CO Sensor **DOES NOT** replace carbon monoxide alarms. Install battery-powered carbon monoxide alarm(s) in your home.

#### **A 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. If you start to feel sick, dizzy, weak, or carbon monoxide detectors in your home indicate an alarm, get to fresh air immediately. Call emergency services. You may have carbon monoxide poisoning.

#### **ACTION LABEL**

#### CONTROL PANEL CO AUTO-SHUTOFF

**CARBON MONOXIDE AUTO-SHUTOFF** 







SERVICE GENERATOR REALICE UN SERVICIO DEL GENERADOR AUTOMATIC SHUTOFF SEE MANUAL CORTE AUTOMÁTICO LEER EL MANUAL

#### CO SENSOR INDICATOR LIGHTS

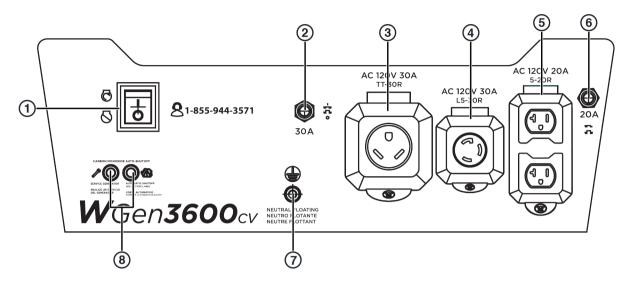
#### Color Description Carbon monoxide accumulated around the generator. After shut-off, the RED indicator light in the CO Sensor area of the control panel will flash to provide notification that the generator was shutoff due to an accumulating CO hazard. The RED light will flash for at least five minutes after a CO shut-off. **RED** Move the generator to an open, outdoor area far away from occupied spaces with exhaust pointed away. Once relocated to a safe area, the generator can be restarted. Introduce fresh air and ventilate the area where the generator had shut down. A CO sensor system fault occured. 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 the a **YELLOW** fault has occurred. The YELLOW light will flash for at least five minutes after a fault. The generator can be re-started. but may continue to shutoff. A CO sensor fault can only be diagnosed and repaired by an authorized Westinghouse service center.



## **COMPONENTS**

#### COMPONENTS

#### **CONTROL PANEL COMPONENTS**

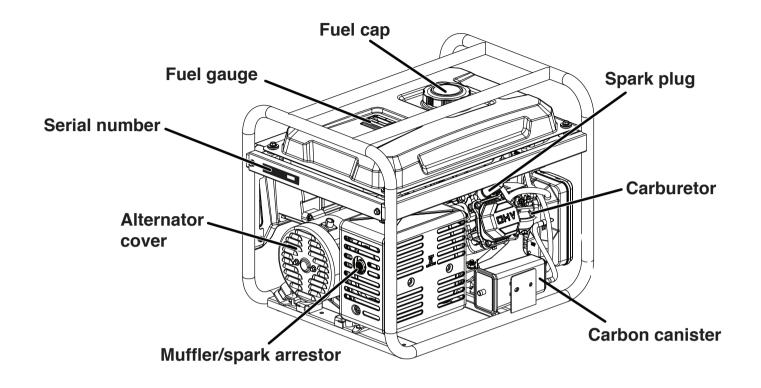


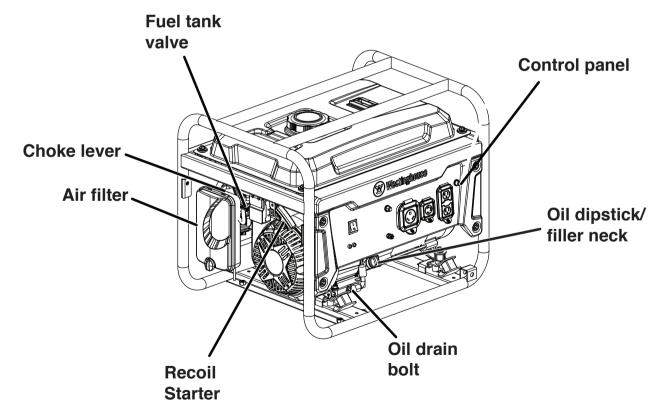
- **1. Run/Stop Switch:** Push to Run position to start or Stop position to shut the generator off.
- 2. 30 Amp AC Circuit Breaker: Circuit breaker limits the current that can be delivered through the NEMA L5-30R and TT-30R receptacles to 30 Amps.
- 3. 120 Volt AC, 30 Amp NEMA TT-30R Receptacle: Receptacle can supply a maximum of 30 Amps.
- 120 Volt AC, 30 Amp NEMA L5-30R Twist-Lock Receptacle: Receptacle can supply a maximum of 30 Amps.
- 120 Volt AC, 20 Amp Duplex NEMA 5-20R Receptacles: Receptacles can supply a maximum of 20 Amps.

- 20 Amp AC Circuit Breaker: Circuit breaker limits the current that can be delivered through the NEMA 5-20R receptacles to 20 Amps.
- **7. Ground Terminal:** The ground terminal is used to externally ground the generator.
- 8. 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.

## **COMPONENTS**

#### **GENERATOR COMPONENTS**





#### **ASSEMBLY**

#### **CARTON CONTENTS**

#### **A CAUTION**

Weight hazard. **ALWAYS** have assistance when lifting the generator.

- 1. Carefully open the carton.
- 2. Remove and save the carton contents.
- 3. Remove and discard the packing tray.
- 4. Unfold the top of the plastic bag enclosing the generator.
- **5.** Carefully cut the vertical corners of the carton to access the generator.
- 6. Recycle or dispose of the packaging materials properly.

#### **CARTON CONTENTS**

- User manual
- · Quick Start Guide
- · Bottle of SAE 10W-30 Oil
- · Spark plug socket wrench
- Oil Funnel

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

#### INITIAL OIL FILL

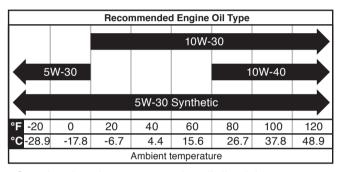
#### **NOTICE**

THIS GENERATOR HAS BEEN SHIPPED WITHOUT OIL. 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.

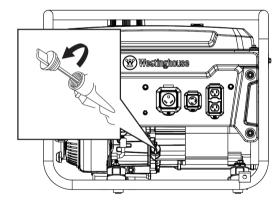
#### **NOTICE**

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.



1. On a level surface, remove the oil dipstick.



2. Using the supplied funnel and oil, add oil into oil filler neck.

**Note:** As residual oil from the factory may remain in the engine, add the oil incrementally near the end of the bottle to prevent overfilling the engine. See Engine Oil Level Check in the Maintenance section.

3. Replace the oil dipstick and hand-tighten.

## **ASSEMBLY**

#### **FUEL**

#### **AWARNING**

Fire and explosion hazard. **NEVER** use a gasoline container, gasoline tank, propane connector hose, propane tanks, or any other fuel item that is broken, cut, torn or damaged.

#### **A DANGER**

Fire and explosion hazard. **DO NOT** overfill fuel tank. Fill only to the red fill ring located in the in-tank fuel screen filter. Overfilling may cause fuel to spill onto engine causing a fire or explosion hazard.

#### **A DANGER**

Fire and explosion hazard. **NEVER** refuel the generator while the engine is running. **ALWAYS** turn the engine off and allow the generator to cool for two minutes before refueling.

#### **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.

#### **FUEL REQUIREMENTS**

- CLEAN, FRESH, unleaded gasoline, 87-93 octane.
- Up to 10% ethanol (gasohol) is acceptable (where available; non-ethanol fuel is recommended).
- DO NOT use E85 or E15.
- · DO NOT use a gas oil mix.
- DO NOT modify the engine to run on alternate fuels.
- · DO NOT fuel indoors.
- DO NOT create a spark or flame while fueling.

#### **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.

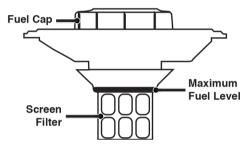
#### **FILLING THE FUEL TANK**

- **1.** Turn the generator OFF and allow to cool for a minimum of two minutes before fueling.
- 2. Place the generator on level ground in a well-ventilated area
- 3. Clean area around fuel cap and remove the cap slowly.

#### **NOTICE**

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

**4.** Slowly add the recommended fuel. **DO NOT** overfill. Fill only to the red maximum fill ring on the fuel screen filter visible in the filler neck.



5. Install the fuel cap.

#### **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.

#### **OPERATION**

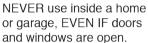
#### **GENERATOR LOCATION**

Read and understand all safety information before starting the generator.

#### A DANGER

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.









Only use OUTSIDE and far away from windows, doors, and vents

**NEVER** operate the generator inside any building, including garages, basements, crawlspaces, sheds, enclosure, or compartment, including the generator compartment of a recreational vehicle.

#### **A 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. Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution

#### **AWARNING**

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.

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.

**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. **DO NOT** contain generators during operation.

#### **A 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.

#### **GROUNDING**

#### **AWARNING**

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.

#### HIGH ALTITUDE OPERATION

Engine power is reduced the higher you operate above sea level. Output will be reduced approximately 3.5% for every 1000 feet of increased altitude from sea level.

High altitude adjustment is required for operation at altitudes over 2,000 ft. (762 m). Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions.

#### 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# 518059

#### **BREAK-IN PERIOD**

For proper break-in, **DO NOT** exceed 50% of the rated running watts (1800 watts) during the first five hours of operation.

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

#### **BEFORE STARTING THE GENERATOR**

Verify that:

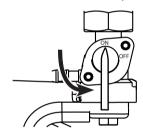
- The generator is placed in a safe, appropriate location.
- · The generator is on a dry, flat, and level surface.
- · The engine is filled with oil.
- · All loads are disconnected.

#### **A DANGER**

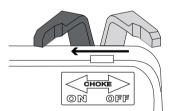
Fire and explosion hazard. **DO NOT** move or tip the generator during operation.

#### STARTING THE ENGINE

- 1. Verify that fuel is in the gas tank.
- 2. Turn the fuel tank valve to the ON position.



**Note:** If cold starting, move the choke lever to the ON position.



- 3. Push the Run/Stop switch to the Run position.
- **4.** Firmly grasp and pull the recoil handle slowly until you feel increased resistance, then pull rapidly.
- **5.** After starting, allow the engine to run for several seconds then move the Choke lever to the fully OFF position.

#### STOPPING THE ENGINE

1. Turn off and unplug all connected electrical loads.

**IMPORTANT: NEVER** start or stop the generator with electrical devices connected.

- 2. Let the generator run with no load for several minutes to stabilize internal temperatures of the engine.
- 3. Push the Battery switch to the OFF position.

**Note:** Alternately, if the generator is used infrequently, turn the fuel tank valve to the OFF position to limit the residual fuel remaining in the carburetor float bowl. The engine will stop when fuel in the carburetor and fuel line is exhausted.

**4.** If operating on propane, turn the propane tank valve to the fully closed position.

#### FREQUENCY OF USE

If the generator will be used on an infrequent or intermittent basis (more than one month before next use), refer to the Storage section of this manual for information regarding fuel deterioration.

#### **AC CIRCUIT BREAKERS**

The circuit breakers will automatically switch OFF if there is a short circuit or a significant overload of the generator at each receptacle.

If an AC circuit breaker switches OFF automatically, check that the appliance is working correctly and it does not exceed the rated load capacity of the circuit before resetting the AC circuit breaker ON.



#### **GENERATOR CAPACITY**

#### NOTICE

**DO NOT** overload the generator's capacity. Exceeding the generator's wattage/amperage capacity can damage the generator and/or electrical devices connected to it.

Make sure the generator can supply enough continuous (running) and surge (starting) watts for the items you will power at the same time.

The total power requirements (Volts x Amps = Watts) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model or serial number.

To determine power requirements:

1. Select the items you will power at the same time.

- Total the continuous (running) watts of these items. This is the amount of power the generator must produce to keep the items running. See the wattage reference chart.
- 3. Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Because not all motors start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from step 2.

#### Example:

Tool or Appliance	Running Watts*	Starting Watts*
RV Air Conditioner (11,000 BTU)	1010	1600
TV (Tube Type)	300	0
RV Refrigerator	180	600
Radio	200	0
Light (75 Watts)	300	0
Coffee Maker	600	0
Totals	2590	1600

Total Running Watts	2590
Highest Starting Watts	+ 1600
Total Starting Watts Needed	4190

<sup>\*</sup>Wattages listed are approximate. Verify actual wattage.

#### POWER MANAGEMENT

To prolong the life of the generator and attached devices, use care when adding electrical loads to the generator. There should be nothing connected to the generator outlets before starting the engine. The correct and safe way to manage generator power is to sequentially add loads as follows:

- **1.** With nothing connected to the generator, start the engine as described in this manual.
- **2.** Plug in and turn on the first load, preferably the largest load you have.
- **3.** Permit the generator output to stabilize (engine runs smoothly and attached device operates properly).
- 4. Plug in and turn on the next load.
- 5. Again, permit the generator to stabilize.
- 6. Repeat steps 4 and 5 for each additional load.

#### **Wattage Reference**

Tool or Appliance	Estimated Running Watts*	Estimated Starting Watts*
Incandescent Lights (4 Quantity x 75 Watts)	300	0
TV (Tube Type)	300	0
Sump Pump (1/3 hp)	800	1300
Refrigerator or Freezer	700	2200
Well Pump (1/3 hp)	1000	2000
Furnace (1/2 hp)	800	2350
Radio	200	0
Drill (3/8", 4 amps)	440	600
Circular Saw (Heavy Duty, 7-1/4")	1400	2300
Miter Saw (10")	1800	1800
Table Saw (10")	2000	2000

<sup>\*</sup>Wattages listed are approximate. Verify actual wattage.

#### **EXTENSION CORDS**

#### **A 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 your 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 check the detector (s) battery.

#### **A WARNING**

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

#### **A 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.
- Make sure the tool or appliance is in good working order. Faulty appliances or power cords can create a potential for electric shock.
- Make sure the electrical rating of the tool or appliance does not exceed the rated power of the generator or the receptacle being used.

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#### **EXTENSION CORD SIZING**

Only use grounded 3-prong extension cords marked for outdoor use that are rated for the electrical load.

Total	Minimum Gauge, Outdoor Rated	
Amperage	Up to 50 FT (15 M)	Up to 100 FT (30 M)
Up to 10A	12	8
Up to 15A	10	8
Up to 20A	10	6
Up to 30A	8	6
Up to 35A	6	6

#### TRANSPORTING

#### **A** CAUTION

Weight hazard. **ALWAYS** have assistance when lifting the generator.

- Allow the generator to cool a minimum of 30 minutes before transporting.
- If operating on propane, turn the propane tank valve to the fully closed position.
- Replace all protective covers on the generator control panel.
- Only use the generator's fixed frame 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.
- The generator wheels (if equipped) are only intended for hand transport. The wheels are not suitable for towing the generator either on or off-road.
- Use the extendable handle for one-person, hand transport. Only use the handle while the generator is OFF, stationary, and resting on a horizontal surface. Do not use the handle to lift the generator entirely off the ground, tow it, or up-end it.

#### **A** 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**

#### **AWARNING**

Accidental start-up. Disconnect the spark plug boot from the spark plug when performing maintenance on the generator.

#### **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**

Check engine oil

#### **After First 25 Hours or First Month**

Change engine oil

#### After 50 Hours or Every 6 Months

Change engine oil<sup>1</sup> Clean air filter<sup>2</sup>

#### After 100 Hours or Every 6 Months

Inspect/clean spark arrestor Inspect/clean spark plug Fuel valve maintenance Inspect/adjust valve clearance<sup>3</sup>

#### After 300 Hours or Every Year

Replace spark plug Replace air filter

- Change oil every month when operating under heavy load or in high temperatures.
- <sup>2</sup> Clean more often under dirty or dusty conditions. Replace air filter if it cannot be adequately cleaned.
- Recommend service to be performed by authorized Westinghouse service dealer.

#### MAINTENANCE REPLACEMENT PARTS

Description	Part Number
Air filter	5206
Oil drain plug crush washer	94007
Spark arrestor	6789
Spark plug	97108 (F7TC)

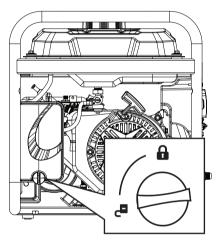
#### **AIR FILTER MAINTENANCE**

#### **▲ WARNING**

Fire hazard. **NEVER** use gasoline or other flammable solvents to clean the air filter. Use only household detergent soap to clean the air filter.

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

- **1.** Place the generator on a level surface and allow the engine to cool for several minutes.
- **2.** Turn the knob on the air cleaner cover to the unlocked position then remove the air filter cover.



**Note:** The foam air filter element is oil soaked. Use an appropriate cleaning container.

#### **NOTICE**

Avoid skin contact with engine oil. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

Remove the foam air filter and wash it by submerging the element in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

#### **NOTICE**

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

4. Rinse the air filter element 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.

- **5.** Dip the foam 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.
- **6.** Reinstall the air filter and air filter cover. Turn the knob to lock the air cleaner cover in place.

#### **ENGINE OIL LEVEL CHECK**

#### **A CAUTION**

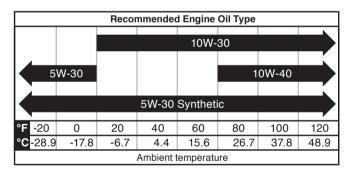
Avoid skin contact with engine oil. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

#### **NOTICE**

**ALWAYS** use the specified engine oil. Failure to use the specified engine oil can cause accelerated wear and/or shorten the life of the engine.

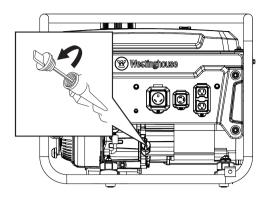
When using the generator under dirty, dusty conditions or in extremely hot weather, change the oil more frequently.

Ambient air temperature will affect engine oil performance. Change the type of engine oil used based on weather conditions.

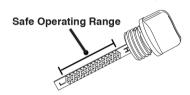


Check the engine oil level before each use or every 8 hours of operation.

- **1.** Place the generator on a level surface and allow the engine to cool for several minutes.
- **2.** With a damp rag, clean around the oil dipstick, then remove the oil dipstick.



3. Wipe the dipstick clean, then insert it into the oil filler neck without screwing it in. Remove the dipstick and verify that the oil level is within safe operating range.

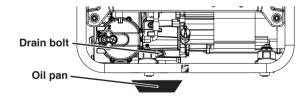


- 4. If low, add recommended engine oil incrementally and recheck until the level is between the L and H marks on the dipstick. DO NOT overfill. If over the H mark on the dipstick, drain the oil to reduce the oil level to the full mark.
- 5. Replace the oil dipstick and hand-tighten.

#### **ENGINE OIL CHANGE**

When using the generator under dirty, dusty conditions or in extremely hot weather, change the oil more frequently. Change the oil while the engine is still warm from operation.

- **1.** Place the generator on a level surface and allow the engine to cool for several minutes.
- **2.** With a damp rag, clean around the oil dipstick. Remove the dipstick and wipe clean.
- **3.** Place an oil pan (or suitable container) under the oil drain bolt.
- **4.** Using a 10mm wrench, remove the oil drain bolt and allow the oil the to drain.



5. Install the oil drain bolt and tighten securely.

**Note:** A new oil drain plug crush washer is recommended at each oil change.

**6.** Slowly pour oil into the oil filler neck until oil the level is between the L and H marks on the dipstick. Stop

frequently to check the oil level. DO NOT overfill.

#### Maximum oil capacity: 0.63 Quart (0.6 Liter)

7. Install the oil dipstick and hand-tighten.

#### **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.

#### SPARK PLUG MAINTENANCE

Inspect and clean the spark plug after every 100 hours of use or six months. Replace the spark plug after 300 hours of use or every year.

#### **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.

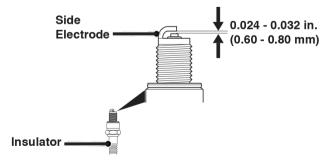
- **1.** Place the generator on a level surface and allow the engine to cool.
- **2.** Remove the spark plug boot by firmly pulling the spark boot directly away from the engine.
- 3. Clean the area around the spark plug.
- Remove the spark plug with the included spark plug socket wrench.

#### **NOTICE**

**NEVER** apply any side load or move the spark plug laterally when removing the spark plug.

- 5. Inspect the spark plug. Replace if electrodes are pitted, burned, or the insulator is cracked. Only use a recommended replacement plug.
- **6.** 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)

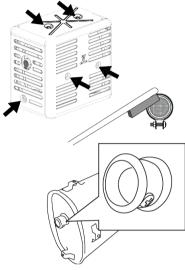


- 7. Carefully install the spark plug finger tight, then tighten as additional 3/8 to 1/2 turn with the spark plug wrench.
- 8. Attach the spark plug boot.

#### SPARK ARRESTOR SERVICE

Allow the muffler to cool completely before servicing the spark arrestor. Check and clean the spark arrestor after every 100 hours of use or six months. Failure to clean the spark arrestor will result in degraded engine performance.

- 1. Place the generator on a level surface.
- Remove the cover screws, muffler cover, and spark arrestor.



- 3. Carefully remove the carbon deposits from the spark arrestor screen with a wire brush. The spark arrestor must be free of breaks and tears. Replace the spark arrestor if damaged.
- 4. Reinstall the spark arrestor and muffler cover.

#### **STORAGE**

Proper storage preparation is required for trouble-free operation and generator longevity.

#### **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	No service required.
2 to 6 months	Fill with fresh gasoline and add gasoline stabilizer. Drain the carburetor float bowl.
6 months or longer	Drain the fuel tank and carburetor float bowl.

#### SHORT TERM STORAGE

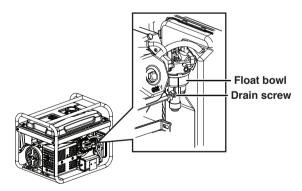
- Allow the generator to cool a minimum of 30 minutes before storage.
- If operating on propane, turn the propane tank valve to the fully closed position and disconnect the LPG/ propane hose from the generator and propane tank.
- Replace all protective covers on the generator control panel.
- Wipe the generator with a moist cloth. Clean any debris from the muffler cooling vents.
- Store the generator in a well-ventilated, dry location away from sparks, open flames, pilot lights, heat, and other sources of ignition such as areas with a sparkproducing electric motor or where power tools are operated.
- DO NOT store the generator, gasoline, or propane tanks near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.
- With the engine and exhaust system cool and all surfaces dry, cover the generator to keep out dust. DO NOT use a plastic sheet as a dust cover. Non-porous materials trap moisture and promote rust and corrosion.

#### **LONG TERM STORAGE**

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.

#### DRAINING THE FLOAT BOWL

- 1. Turn the fuel tank valve to the OFF position.
- 2. Locate the drain screw on the bottom of the carburetor float bowl.



- **3.** Place an appropriate gasoline container under the drain screw to catch the drained fuel.
- **4.** Loosen the float bowl drain screw and allow the fuel to drain. Tighten the float bowl drain screw.

#### **DRAINING THE FUEL TANK**

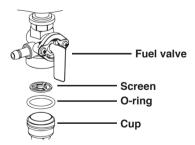
If storing the generator for longer than six months, drain the fuel tank to prevent fuel separation, deterioration, and deposits in the fuel system.

- Unscrew the fuel tank cap. Remove the fuel screen filter by slightly compressing it while removing it from the tank.
- 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.
- 3. Reinstall the fuel screen filter and the fuel tank cap.
- **4.** Start the generator and allow it to run until the generator engine stops.
- **5.** Push the Run/Stop switch to the Stop position.
- 6. Remove the spark plug.
- 7. Put a teaspoon of engine oil into the cylinder and pull the recoil handle until resistance is felt. At this position the piston is coming up on its compression stroke and both valves are closed. Storing the engine in this position will help prevent internal corrosion. Return the recoil handle gently.
- **8.** Reinstall the spark plug. Leave the spark plug boot disconnected to prevent accidental starting.

#### **FUEL VALVE MAINTENANCE**

The fuel valve is equipped with a fuel sediment cup, screen, and o-ring. The fuel valve does not require servicing if the unit is properly maintained with fresh, clean fuel. If fuel-related troubleshooting is required, perform fuel valve maintenance.

- 1. Allow the generator to cool completely.
- 2. Turn the fuel valve to the OFF position.
- **3.** Remove the sediment cup from the fuel valve. Remove the o-ring and screen.



- **4.** Wash the sediment cup, o-ring, and screen in a nonflammable solvent. Dry thoroughly.
- **5.** Place the screen and o-ring into the fuel valve. Install the sediment cup and tighten securely.
- **6.** Turn the fuel valve to the ON position and check for leaks. Replace the fuel valve if there is any leakage.

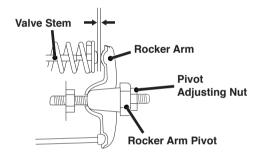
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#### **VALVE CLEARANCE**

#### **NOTICE**

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

- 1. Remove the rocker arm cover and carefully remove the gasket. If the gasket is torn or damaged, it must be replaced.
- **2.** Remove the spark plug so the engine can be rotated more easily.
- 3. Rotate the engine to top dead center (TDC) by pulling the recoil handle slowly. Looking through the spark plug hole, the piston should be at the top (both valves are closed).
- **4.** Both the rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine  $360^{\circ}$ .
- **5.** Insert a feeler gauge between the rocker arm and the valve stem to measure valve clearance.



	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 N•m	8-12 N•m

- **6.** If an adjustment is necessary, hold the rocker arm pivot and loosen the pivot adjusting nut.
- 7. Turn the rocker arm pivot to obtain the specified clearance. Hold the rocker arm pivot and re-tighten the pivot adjusting nut to the specified torque.

#### Torque: 106 inch-pound (12 N·m)

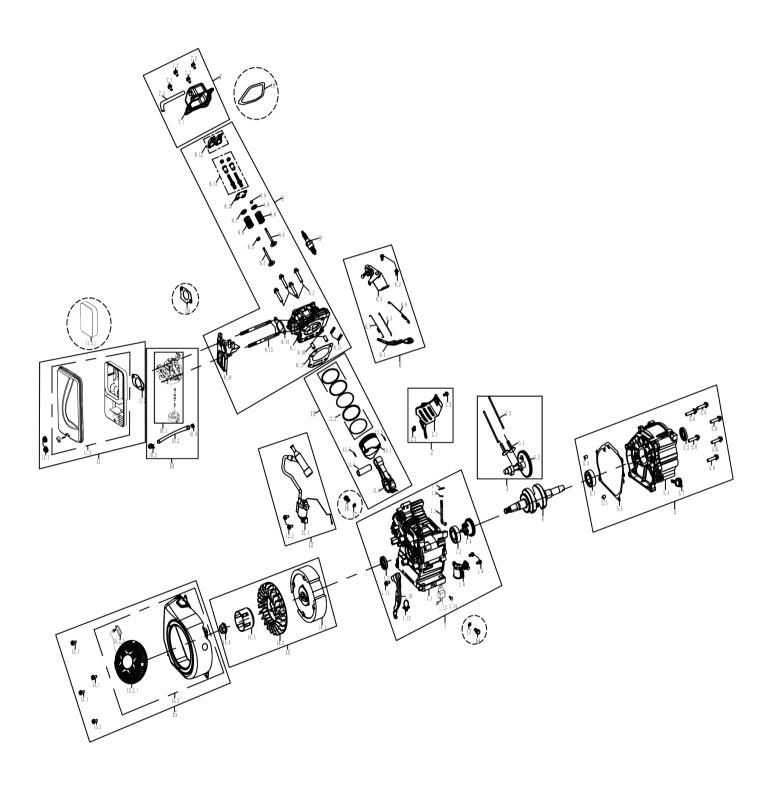
- 8. Perform this procedure for the other valve.
- 9. Install the gasket, rocker arm cover, and spark plug.

## **TROUBLESHOOTING**

#### **TROUBLESHOOTING**

PROBLEM	POSSIBLE CAUSE	CORRECTION
	Out of fuel.	Refuel.
	Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Dirty air filter.	Clean the air filter.
	Low engine oil level stopped generator.	Check engine oil level. Add engine oil if low.
Engine will not start	Spark plug wet with fuel (flooded engine).	Wait five minutes. Turn Run/Stop 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, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Choke partially open or closed.	Fully open or close the choke.
	CO sensor removed or modified.	Return to original configuration.
	CO sensor activated or system fault occurred.	Relocate generator / Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Out of fuel.	Refuel.
	Incorrect engine oil level.	Check engine oil level.
Engine starts, then shuts down	Dirty air filter.	Clean the air filter.
Engine starte, then ende down	Contaminated fuel.	Drain the fuel tank. Refuel with fresh gasoline.
	Defective low oil level switch.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Air filter restricted.	Clean or replace air filter.
Engine lacks power	Bad fuel, generator stored without treating or draining gasoline, or refueled with bad gasoline.	Drain the fuel tank. Refuel with fresh gasoline.
	Fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	Dirty air filter.	Clean the air filter.
Engine runs rough or bogs when load applied	Generator overloaded.	Unplug some devices.
	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.
	AC circuit breaker/s tripped.	Check AC loads and reset circuit breaker/s.
No power at AC receptacles	Faulty power tool or appliance.	Replace or repair tool or appliance. Stop and restart the engine.
	Faulty generator.	Contact Westinghouse customer service toll-free at 1 (855) 944-3571.

# **EXPLODED VIEWS AND PARTS LISTS ENGINE EXPLODED VIEW**



#### **ENGINE PARTS LIST**

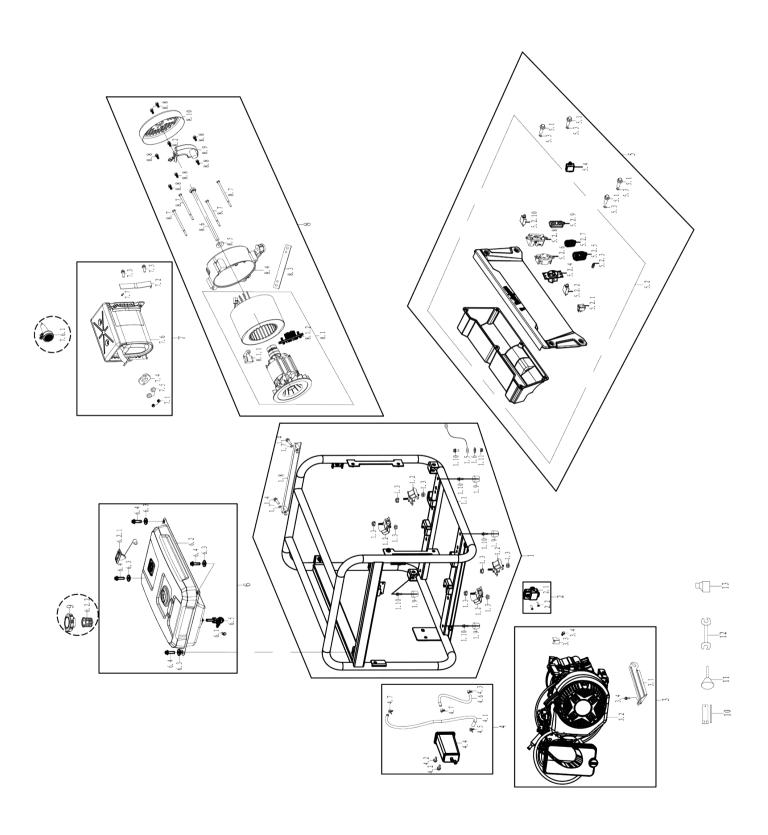
NO.	PART#	DESCRIPTION
1	50120046	CRANKCASE KIT ASSEMBLY
1.1	240214	CRANKCASE
1.2	93009	BEARING
1.3	93507	CRANKCASE OIL SEAL
1.4	244302	CENTRIFUGAL GOVERNOR GEAR ASSEMBLY
1.5	243901	RACKING BAR
1.6	96804	SWINGING ROD GASKET
1.7	243902	RETAINING CLIP
1.8	245102	OIL SENSOR ASSEMBLY
1.9	91329	BOLT M6X16
1.10	245702	WINDSHIELD WELDING KIT ASSEMBLY
1.11	91330	BOLT M6X20
1.12	240801	Q-SHAPE CABLE CLIP
1.13	245104	OIL PROTECTOR
1.14	91325	BOLT M6X12
2	50130013	SHROUD KIT ASSEMBLY
2.1	240501	WIND-LEAD-COVER
2.2	91325	BOLT M6X12
3	50150004	CAMSHAFT KIT ASSEMBLY
3.1	246102	VALVE LIFTER
3.2	242003	CAMSHAFT ASSEMBLY
3.3	241901	PUSH ROD
4	248001	CRANKSHAFT
5	50200033	CRANKCASE COVER kit ASSEMBLY
5.1	93009	BEARING
5.2	93507	CRANKCASE OIL SEAL
5.3	240904	CRANKCASE LOCATING PIN
5.4	240113	CRANKCASE COVER
5.5	96041	CRANKCASE SEAL WASHER
5.6	91347	BOLT M8X30
5.7	245601-295	DIPSTICK ASSEMBLY
6	50060024	SPEED GOVERNOR KIT ASSEMBLY
6.1	244001	SPEED REGULATING ARM
6.2	91325	BOLT M6X12
6.3	242701	THROTTLE LEVER
6.4	244201	SPRING C
6.5	244405	SPEED CONTROLLER
6.6	244101	SPRING B
7	50010028	CYLINDER HEAD COVER KIT ASSEMBLY
7.1	241107	CYLINDER HEAD COVER
7.2	91325	BOLT M6X12
7.3	95604	BLAST PIPE
8	50020059	CYLINDER HEAD KIT ASSEMBLY
8.1	241014	CYLINDER HEAD
-	01250	BOLT M8X60
8.2	91359	DOLI MOXOO

NO.	PART#	DESCRIPTION
8.4	245904	EXHAUST VALVE
8.5	241806	INTAKE VALVE SPRING LOWER SEAT
8.6	246001	VALVE SPRING
8.7	241801	INTAKE VALVE SPRING SEAT
8.8	241802	EXHAUST VALVE SPRING SEAT
8.9	241804	TOP CAP
8.10	242202	VALVE RETAINER ASSEMBLY
8.11	91818	ROCKING ARM WITH TIGHT BOLT ASSEMBLY
8.12	242101	ROCKING ARM
8.13	91022	AIR INLET STUD STUD BOLT
8.14	96047	INTAKE GASKET
8.15	91007	AIR EXHAUST STUD STUD BOLT
8.16	240905	CYLINDER HEAD LOCATING PIN
8.17	96058	CYLINDER HEAD GASKET
8.18	242301	CARBURETOR CONNECTION BLOCK
9	97108	SPARK PULG
10	50040105	CARBURETOR KIT ASSEMBLY
10.1	242819-295	CARBURETOR ASSEMBLY
10.2	95407L	FUEL HOSE
10.3	94403	FUEL HOSE CLIP
10.4	94401	FUEL HOSE RUBBER SLEEVE
11	50030054	AIR FILTER ASSEMBLY
11.1	90016	NUT M6
11.2	94229	STEEL WASHER
11.3	242923	AIR FILTER ASSEMBLY
11.3.1	5206	FILTER ELEMENT
12	50100018	IGNITOR KIT ASSEMBLY
12.1	97514	IGNITOR
12.2	91331	BOLT M6X25
13	50050013	PISTON & PISTON RING KIT ASSEMBLY
13.1	241208	PISTON
13.2	241606	PISTON RING ASSEMBLY
13.3	241503	CONNECTING ROD ASSEMBLY
13.4	245503	PISTON PIN
13.5	241301	PISTON PIN RING
14	50180007	FLYWHEEL KIT ASSEMBLY
14.1	240401	FLYWHEEL
14.2	244601	IMPELLER
14.3	244502	STARTER PULLY
14.4	90003	FLYWHEEL NUT
15	50090054	RECOIL STARTER KIT ASSEMBLY
15.1	91325	BOLT M6X12
15.2	247415-221B	STARTER ASSEMBLY
15.2.1	5962-221	START PULLER
15.2.2	5943	PULL
16	91816	OIL DRAIN BOLT

#### **ENGINE PARTS LIST CONTINUED**

NO.	PART#	DESCRIPTION
17	94007	OIL DRAIN BOLT WASHER
18	96045	CYLINDER HEAD COVER SEAL WASHER
19	96051	CARBURATOR WASHER

#### **GENERATOR EXPLODED VIEW**



#### **GENERATOR PARTS LIST**

NO.	PART #	DESCRIPTION
1	60070040	FRAME KIT ASSEMBLY
1.1	774073-116	FRAME
1.2	531317	SHOCK ABSORBER
1.3	90018	NUT M8
1.4	91327	BOLT M6X12
1.5	544307	FRAME WIRE
1.6	94002	TOOTH WAHER ?6
1.7	96120	PAPER WASHER
1.8	530312-116	ACTIVITY DISTANCE TUBE
1.9	531112	RACK SHOCK CUSHION
1.10	91325	BOLT M6X12
1.11	90016	NUT M6
2	60450006	CO MODULE KIT ASSEMBLY
2.1	599063	CO MODULE
2.2	92270	CROSS SLOTTED HEAD SCREW M4*16
3	60590012	ENGINE KIT ASSEMBLY DHLG457
3.1	540201	AIR FILTER BRACKET
3.2	1.14821E+12	ENGINEASSEMBLY DH212
3.3	549201	DUST BOARD
3.4	91325	BOLT M6X12
4	60570004	CARBON CANNISTER KIT ASSEMBLY
4.1	95121	CARBON CANISTER AND FUEL TANK CONNECTING PIPE
4.2	91327	BOLT M6X12
4.3	94408	FUEL HOSE CLIP ?10
4.4	543301L	CARBON CANISTER ASSEMBLY
4.5	94411	FUEL HOSE CLIP ?11×0.8
4.6	95122	CARBON CANISTER AND AIR FILTER CONNECTING PIPE
4.7	94402	FUEL HOSE CLIP ?8.5
5	60040059	CONTROL PANEL KIT ASSEMBLY
5.1	91327	BOLT M6X12
5.2	714388	CONTROL PANEL ASSEMBLY
5.2.1	6501	IGNITION SWITCH
5.2.2	6441-30	THERMAL PROTECTOR
5.2.3	6386	GROUND TERMINAL ASSEMBLY
5.2.4	6015	RV SOKET
5.2.5	6849	WATERPROOF CAP
5.2.6	6383	L5-30R RECEPTACLE
5.2.7	6847	WATERPROOF CAP
5.2.8	6454	5-20R SOCKET
5.2.9	6845	WATERPROOF CAP
5.2.10	6441-20	THERMAL PROTECTOR
5.2.11	96120	PAPER WASHER
5.2.12	599065	CO FLAMEOUT ACTUATOR
6	60010045	FUEL TANK KIT ASSEMBLY
6.1	94403	FUEL HOSE CLIP ?7.5
6.2	700249L-116	FUEL TANK

NO.	PART #	DESCRIPTION
6.2.1	6516	FUEL GAUGE
6.2.2	518801	FUEL TANK FILTER
6.3	96801	FUEL TANK GASKET
6.4	91307	BOLT M6X25
6.5	518202	FUEL SWITCH
7	60030032	EXHAUST MUFFLER KIT ASSEMBLY
7.1	90011	NUT M8
7.2	520302	MUFFLER MOUNTING BRACKET
7.3	91343	BOLT M8X16
7.4	96055	MUFFLER CONNECTING PIPE GASKET
7.5	94206	SPRING WASHER ?8
7.6	705321	MUFFLER
7.6.1	6789	SPARK ARRESTER
7.7	91325	BOLT M6X12
8	60580019	ALTERNATOR KIT ASSEMBLY
8.1	753416	ALTERNATOR ASSEMBLY
8.1.1	599020	CARBON BRUSH
8.1.2	6079	TERMINAL ASSEMBLY
8.2	91323	BOLT M5X16
8.3	532305-052	TAIL BRACKET FIXING PLATE
8.4	532103	ALTERNATOR TAIL BRACKET
8.5	96812	GASKET ?8.5×?24*3
8.6	91709	BOLT M8*1*220
8.7	91610	BOLT M6×165
8.8	91322	BOLT M5X12
8.9	534101	AVR
8.10	533105-221	ALTERNATOR TAIL COVER
9	519215	FUEL CAP
10	99010	SPARK PLUG SLEEVE
11	500942	FUNNEL
12	99025	WRENCH
13	99547	OIL BOTTLE ASSEMBLY
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## **SCHEMATICS**

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