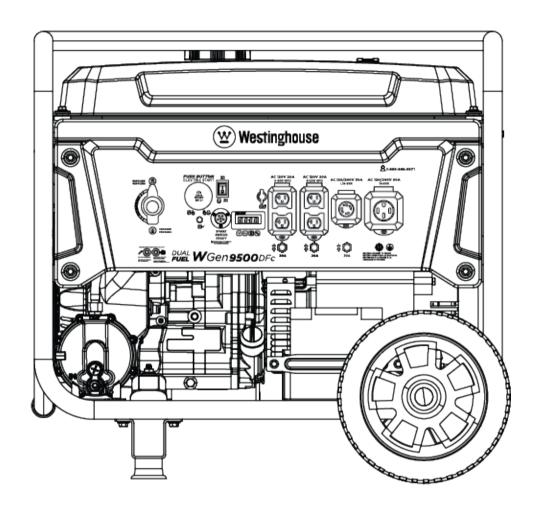


USER MANUAL



WGen**9500**DFc

Dual Fuel Portable Generator

Gasoline: 9500 Running Watts | 12500 Peak Watts Propane: 8500 Running Watts | 11200 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.

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, LLC.

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

2 I Westinghouse Outdoor Power Equipment, LLC

INTRODUCTION

SPECIFICATIONS

| Considerations | |
|---|---------------------------|
| Specifications | |
| Running Watts: | 9500 Gasoline |
| 110111111111111111111111111111111111111 | 8500 LPG |
| Peak Watts: | 12500 Gasoline |
| reak watts. | 11200 LPG |
| Rated Voltage: | 120V/240V |
| Rated Power @1.0 Power | 9.5 kVA Gasoline |
| Factor: | 8.5 kVA LPG |
| | 12.5 kW Gasoline |
| Peak Power: | 11.2 kW LPG |
| Rated frequency: | 60 Hz @ 3600 RPM |
| Phase: | Single phase |
| Total Harmonic | . 000/ |
| Distortion: | ≤ 23% |
| Engine Displacement: | 457 cc |
| Others History Towns | Recoil, Electric Start, |
| Starting Type: | Remote |
| Fuel Capacity: | 6.6 Gallons (25 Liters) |
| Fuel Torre | Unleaded gasoline |
| Fuel Type: | 87–93 octane* |
| Oil Capacity: | 1.16 US Quart (1.1 Liter) |
| Oil Type: | SAE 10W-30 |
| Spark Plug: | 97108 (F7TC) |
| Charle Diver Cana | 0.024 – 0.032 in. |
| Spark Plug Gap: | (0.60 – 0.80 mm) |
| Valve Intake | 0.0031 – 0.0047 in. |
| Clearance: | (0.08 – 0.12 mm) |
| Valve Exhaust | 0.0051 – 0.0067 in. |
| Clearance: | (0.13 – 0.17 mm) |
| AC Grounding System: | Neutral bonded to frame |
| Voltage Regulator: | AVR |
| Alternator Type: | Brushed |
| Maximum Ambient | 4040E (4000) |
| Temperature: | 104°F (40°C) |
| | • EPA |
| Certifications: | • CARB |
| | J 37 11 12 |

^{*}Ethanol content of 10% or less. DO NOT use E15 or E85.

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.



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: https://westinghouseoutdoorpower.com/pages/ 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, become 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.

A WARNING

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 |
|---|--|
| <u> </u> | Safety Alert Symbol |
| | Electrocution Hazard |
| | Asphyxiation Hazard |
| | Burn Hazard. DO NOT touch hot surfaces. |
| A | Electrical Shock Hazard |
| | Fire Hazard |
| 4FEET M | Maintain Safe Distance |
| \(\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} | Lifting Hazard |
| (B) | 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.







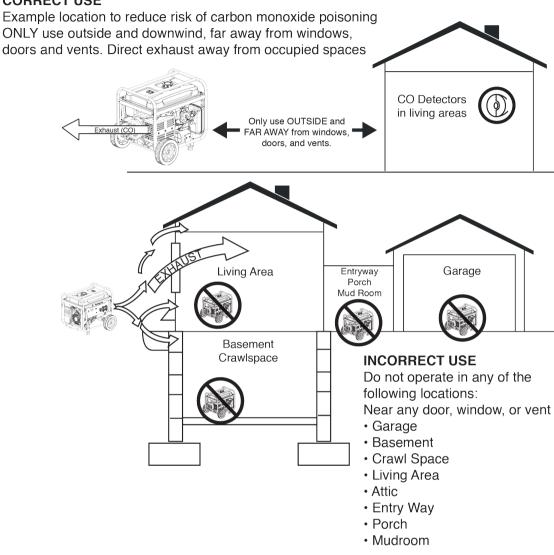


NEVER use inside a home or garage, EVEN IF doors and windows are open.

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

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 or LPG/ propane in a well-ventilated 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.



LIQUID PETROLEUM GAS (LPG/PROPANE)

A WARNING

Fire and explosion hazard. **NEVER** use a gas container, LPG/propane connector hose, LPG/propane tank or any other fuel item that appears to be damaged.

A CAUTION

Fire and explosion hazard. Only use approved LPG/propane tanks with an Overfilling Prevention Device (OPD) valve. **ALWAYS** keep the tank in a vertical position with the valve on top and placed at ground level on a flat surface. **DO NOT** allow tanks to be near any heat source. When transporting and storing, turn the propane tank valve to the fully closed position and disconnect the tank. Make sure to **ALWAYS** cover the generator inlet and tank outlet with protective plastic caps.

- · LPG/Propane is highly flammable and explosive.
- Flammable gas under pressure can cause a fire or explosion if ignited.
- LPG/Propane can settle in low places because it is heavier than air.
- LPG/Propane has a distinctive odor added to help detect potential leaks.
- ALWAYS keep a LPG/Propane tank in an upright position.
- When exchanging LPG/propane tanks, be sure the tank valve is the same type.
- In case of a LPG/propane fire, DO NOT attempt to extinguish unless the fuel supply can be shut off safely.
- LPG/propane will burn the skin. Prevent skin contact at all times.
- Keep the propane tank away from the generator exhaust.
- A step-down regulator is required when using LPG/ propane tanks over 100 gallons. The pressure as measured at the regulator mounted to the generator must be 7" to 14" of water column.
- Large (500–1000 gallon) LPG/propane tanks will require a certified plumber to install the fuel line to the generator and the loose regulator is not used (the regulator that is attached to the fuel tank).

AWARNING

Fire and explosion hazard. If there is a strong smell of propane while operating the generator, fully close the LPG/propane tank valve immediately. Once the propane is off, use soapy water to check for leaks on the hose and connections on the tank valve and the generator. **DO NOT** smoke or light a cigarette or check for leaks using any open flame source such as a match or lighter. If a leak is found, contact a qualified technician to inspect and repair the LPG/propane system before using the generator.

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 and LPG/propane tank are on a flat surface before operating.
- If there is a propane odor DO NOT start the unit because there may be a potential leak. NEVER place a LPG/ propane tank near the engine exhaust.

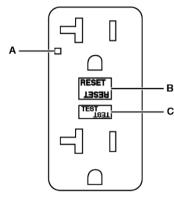
When transporting or servicing the generator:

- Make sure the LPG/propane tank and LPG/propane hose are not attached to 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 or a LPG/propane tank near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

SAFETY

GFCI

The generator is equipped with Ground Fault Circuit Interrupter (GFCI) receptacles. In the event of a ground fault, a GFCI trips automatically to stop the flow of electricity and prevent serious injury. The green indicator light (A) on the receptacle will also turn off. Push the "RESET" (B) button located on the front of the receptacle to restore the flow of electricity. The indicator light will turn back on. GFCI does not protect against circuit overloads.



To check the proper operation of a GFCI receptacle:

- **1.** With the generator running, plug a lamp into the GFCI receptacle. Turn the lamp on.
- 2. Press the "TEST" (C) button located on the front of the receptacle to trip the device. This should immediately stop the flow of electricity and shut off the lamp. If the electricity is not stopped, DO NOT use this receptacle until it has been serviced or replaced.
- 3. Press the "RESET" button located on the front of the receptacle to restore the flow of electricity. If the indicator light does not come back on or if the GFCI cannot be reset then it must be replaced.

NOTICE

Some stationary motors, such as a bathroom vent fan, fluorescent lighting fixtures or some refrigerators, may produce enough current leakage to cause nuisance tripping. To avoid nuisance tripping, a GFCI should not supply: fluorescent or other types of electric-discharge lighting fixtures or permanently installed electric motors, like air conditioners, furnaces or refrigerators.

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.

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 | |
|-------|---|--|
| RED | 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 an accumulating CO hazard. The RED light will flash for at least five minutes after a CO shut-off. | |
| | 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. | |

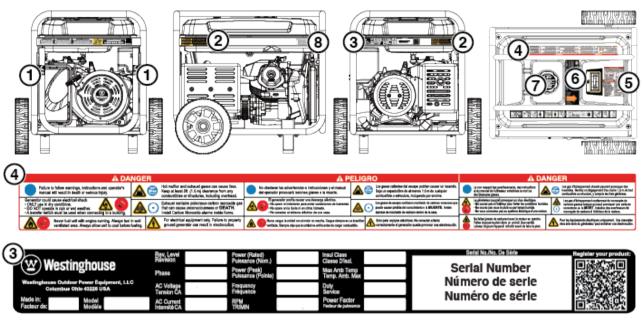
| Color | Description |
|--------|---|
| YELLOW | A CO sensor system fault occurred. When a system fault occurs, the generator is automatically shut down and the YELLOW indicator light in the CO auto-shutoff area of the control panel will flash to provide notification that the a fault has occurred. The 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. |

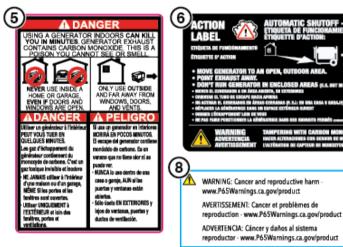
ACTION LABEL



SAFETY

SAFETY LABELS AND DECALS







AUX SURFACES CHAUDES

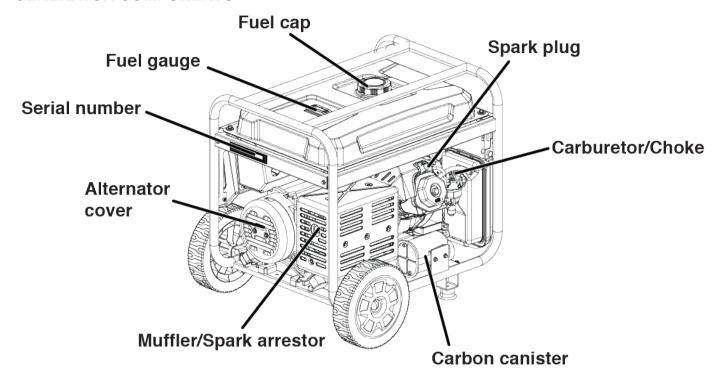


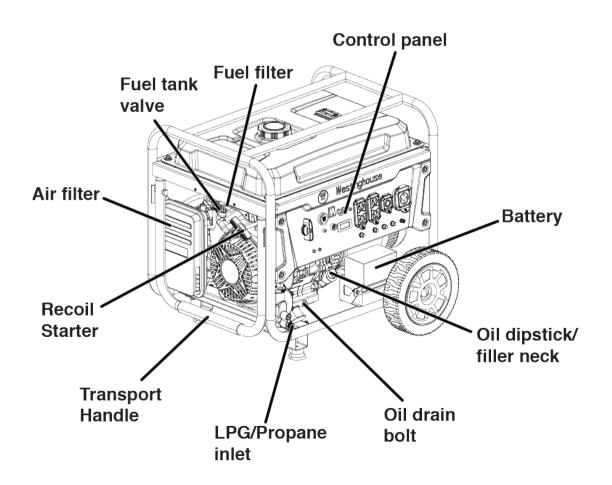


COMPONENTS

COMPONENTS

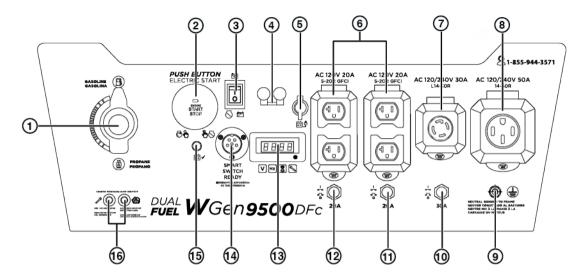
GENERATOR COMPONENTS





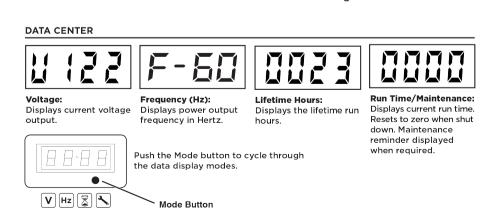
COMPONENTS

CONTROL PANEL COMPONENTS



- Fuel Selector Switch: Used to select gas or propane operation.
- 2. Push-Button START/STOP: Push once to automatically start the engine. Push again to stop the engine.
- Battery Switch: Turns battery ON and OFF. Must be ON before electric or remote start.
- 4. Main Circuit Breaker: The main circuit breaker controls total output of all outlets to protect the generator from overload or short circuit.
- **5. Battery Charging Port**: Used to charge the battery with the included battery charger.
- 6. 120 Volt AC, 20 Amp Duplex GFCI NEMA 5-20R Receptacles: Receptacles can supply a maximum of 20 Amps.
- 7. 120/240 Volt AC, 30 Amp NEMA L14-30R Twist-Lock Receptacle: Receptacle can supply a maximum of 30 Amps.
- 8. 120/240 Volt AC, 50 Amp NEMA 14-50R Receptacle: Receptacle can supply a maximum of 50 Amps.

- **9. Ground Terminal:** The ground terminal is used to externally ground the generator.
- 30 Amp AC Circuit Breakers: Circuit breakers limits the current that can be delivered through each leg of the NEMA 14-30R receptacle to 30 Amps.
- 11. 20 Amp AC Circuit Breakers: Circuit breakers limits the current that can be delivered through the NEMA 5-20R receptacles to 20 Amps.
- **12. 20 Amp AC Circuit Breakers:** Circuit breakers limits the current that can be delivered through the NEMA 5-20R receptacles to 20 Amps.
- **13. Data Center:** Toggle to show voltage, frequency, total hour meter, and run/maintenance timer.
- **14. Smart Switch Outlet:** Connects the Westinghouse ST Switch (sold separately) to the control panel.
- **15. Battery Indicator:** Indicates that power is ON. Light will remain illuminated while the unit is ON.
- 16. 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.





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/Maintenance Schedule
- · LPG/propane hose with regulator
- · Remote start key fob (attached to recoil starter)
- · Bottle of SAE 10W-30 Oil
- · Battery charger
- · Spark plug socket wrench
- · Oil Funnel
- · Assembly wrench
- · Wheel and mounting foot components

| Item | Quantity |
|-------------------------------------|----------|
| Mounting foot | 2 |
| Flange bolt, M8 | 4 |
| Wheel | 2 |
| Axle pin | 2 |
| Washer | 2 |
| Cotter pin | 2 |

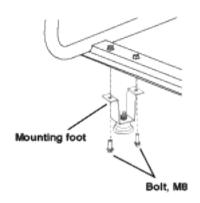
If any parts are missing, contact our service team at service@wpowereq.com or call 1-855-944-3571.

INSTALL FEET AND WHEELS

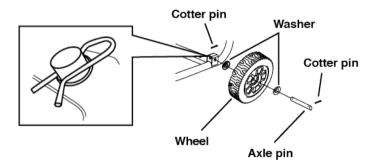
NOTICE

Assembling the generator will require lifting the unit on one side. Install the mounting feet and wheel before adding fuel or oil.

- 1. Place generator on a flat surface.
- 2. Tip the generator on a piece of cardboard or other soft material to protect the frame paint and prevent the generator from sliding.
- **3.** With the included wrench, install the mounting feet to the frame as shown.



4. Install the wheels as shown.



Note: The wheels are only intended for hand transport. The wheels are not suitable for towing the generator either on or off-road.

ASSEMBLY

INITIAL OIL FILL

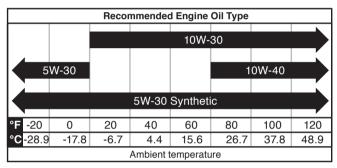
NOTICE

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.

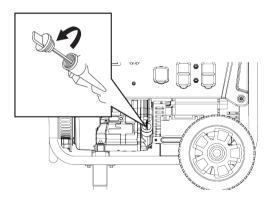
NOTICE

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.

FUEL

A WARNING

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.



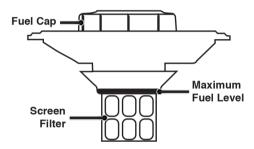
FILLING THE FUEL TANK

- **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.

CONNECT AN LPG/PROPANE TANK

NOTICE

- The LPG/propane tank can be of any capacity but the tank must conform to the standard as listed in Fuel Safety section.
- Propane tanks that use liquid withdrawal system can not be used on these models
- Verify the re-qualification date on the tank has not expired.
- DO NOT use included LPG/propane hose for any other appliances.

NOTICE

- All new tanks must be purged of air and moisture prior to filling. Used tanks that have not been plugged or kept closed must also be purged. The purging process should be done by a propane supplier (Tanks from an exchange supplier should have been purged and filled properly).
- ALWAYS position the tank so the connection between the valve and the gas inlet will not cause sharp bends or kinks in the hose.

A WARNING

Explosion hazard. **DO NOT** start generator if you smell LPG. **ALWAYS** fully close the propane tank valve and disconnect the LPG/propane hose from the generator when not in use.

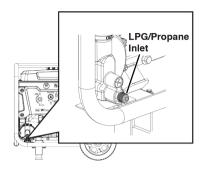
- Turn the generator OFF and place on a flat surface in a well ventilated area.
- Verify that the propane tank valve is in the fully closed position.
- 3. Remove the cover on the generator propane inlet valve.
- **4.** Use your fingers to hand thread the LPG/propane hose (included) to the propane inlet on the generator.

IMPORTANT: DO NOT use thread seal tape or any other type of sealant to seal the LPG/propane hose connection.

5. Tighten the LPG/propane hose connector to the generator with a 19 mm or adjustable wrench. **DO NOT** over-tighten.

Torque: 5-10 lb-ft.

ASSEMBLY

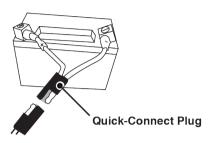


- 1. Remove the safety plug or cap from the propane tank valve and attach the other end of the hose to the LPG/ propane connector on the tank. Hand tighten.
- 2. Turn the propane tank valve to the fully open position. Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. If a leak exists at a fitting, turn the propane tank valve to the fully closed position and tighten the fitting. Open the propane tank valve and recheck the fitting with the soap and water solution. If the leak continues or if the leak is not at a fitting then DO NOT use the generator and contact customer service.

IMPORTANT: Keep the propane tank valve in the fully closed position unless in use.

CONNECT THE BATTERY

A quick-connect battery plug is pre-installed on the battery. Remove the cable tie securing the plugs then push firmly to connect them.



Note: The generator is equipped with a battery charging feature. Once the engine is running, a small charge will slowly recharge the battery.

OPERATION

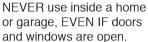
GENERATOR LOCATION

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.

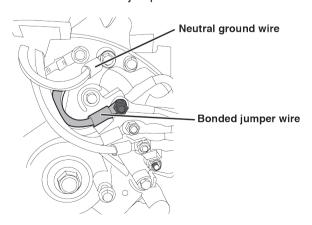
The generator neutral is bonded to the frame. There is a permanent conductor between the generator (stator wire) and the frame. If this generator will be used only with cord and plug equipment connected to the receptacles mounted on the generator, National Electric Code does not require that the unit 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.

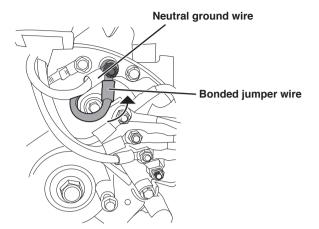
DISCONNECTING THE BONDED NEUTRAL

Removing the bonded neutral disables the GFCI protection from the 5-20R receptacles. The bonded neutral should only be removed under specific circumstances. Consult a qualified electrician to determine if your situation requires disconnecting the bonded neutral.

- 1. Remove the alternator cover.
- 2. Remove the bonded jumper wire and reinstall the nut.



3. Remove the nut securing the neutral ground wire and attach the bonded jumper wire. Reinstall the nut.



4. Reinstall the alternator cover.

IMPORTANT: Apply a new "NEUTRAL UNBONDED" Label over the "NEUTRAL BONDED TO FRAME" label on the front of the control panel.

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# 518077
High Altitude DF Regulator: Part# 518050-01

Note: You must purchase both the Dual Fuel Regulator and Carburetor Kit for proper high altitude operation.

REMOTE START

A WARNING

Verify that the area around the generator is clear before remote starting the generator.

The remote start key fob included with the generator should be attached to the recoil handle or control panel. If your unit was shipped without a key fob, contact Westinghouse customer service.

The generator can be started remotely from up to 99 feet (30 meter) using the remote start key fob.

Note: As the batteries in the remote start key fob drain, operational distance will decrease.

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

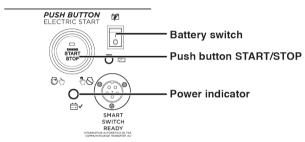
PAIRING THE REMOTE START

Remote replacement batteries: (2) CR2016

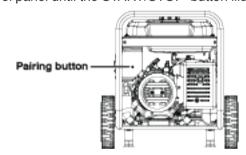
Replacement remote: Part# 100714A

If the remote start key fob is replaced or needs re-paired to the generator, follow this procedure.

1. Turn the generator battery switch to the ON position. The power indicator light will illuminate.



2. Push and hold the red Pairing button on the side of the control panel until the START/STOP button illuminates.



3. Push and hold the STOP button on the key fob until the START/STOP button illumination turns OFF. Release the button. The START/STOP button will illuminate after the button is released.



- **4.** Push and hold the START button on the key fob until the START/STOP button illumination turns OFF. Release the button. The START/STOP button will illuminate after the button is released.
- **5.** Push the Pairing button on the side of the control panel until the START/STOP button illumination turns OFF. Release the button.

6. Turn the generator battery switch to the OFF position. The remote is now paired.

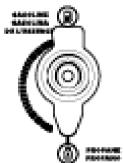
FUEL SELECTOR SWITCH

Position the fuel selector switch on the front control panel to the desired fuel choice.

Turn the fuel selector switch fully upward for gasoline operation.



Turn the fuel selector switch fully downward for propane operation.



BREAK-IN PERIOD

For proper break-in, **DO NOT** exceed 50% of the rated running watts (4750 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:

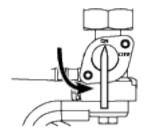
- The generator is placed in an safe, appropriate location.
- The generator is on a dry, flat, and level surface.
- · The engine is filled with oil.
- · All loads are disconnected.

A DANGER

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

STARTING THE ENGINE: GASOLINE

- 1. Verify that fuel is in the gas tank.
- **2.** Turn the fuel selector switch on the control panel to gasoline operation.
- 3. Turn the fuel tank valve to the ON position.



- 4. Push the battery switch to the ON position.
- **5.** Choose the starting method:
 - **a. Remote Start:** Push and hold the START button on the remote start key fob for one second.
 - b. Push-Button Start: Push and hold the engine START/STOP button for two seconds.
 - c. Recoil Start: Manually close the choke if the engine is cold. Firmly grasp and pull the recoil handle slowly until you feel increased resistance, then pull rapidly.

Cold start: Close the choke by moving it right toward the front handle of the generator.





STARTING THE ENGINE: PROPANE

▲ DANGER

Fire and explosion hazard. **ALWAYS** turn the propane tank valve to the fully closed position if not running the generator on propane.

- **1.** Make sure the LPG/propane hose is correctly connected to the generator and propane tank.
- 2. Turn the fuel selector switch to propane operation.
- 3. Fully open the valve on the propane tank.
- 4. Push the battery switch to the ON position.
- 5. Choose the starting method:

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

- **a. Remote Start:** Push and hold the START button on the remote start key fob for one second.
- b. Push-Button Start: Push and hold the engine START/STOP button for two seconds
- c. Recoil Start: Manually close the choke if the engine is cold. Firmly grasp and pull the recoil handle slowly until you feel increased resistance, then pull rapidly.

Cold start: Close the choke by moving it right toward the front handle of the generator.





Nota: During Push-Button or Remote Start the engine will automatically set the choke and begin the start sequence. If the engine fails to start, the generator will attempt to start the engine two more times.

SWITCHING FUEL SOURCES

A DANGER

Fire and explosion hazard. **DO NOT** add gasoline to the fuel tank or connect the LPG/propane hose to the generator while the generator is in operation.

The fuel source can be switched while the engine is running if a propane tank is connected to the generator BEFORE operation.

GASOLINE TO PROPANE

IMPORTANT: Load capacity is reduced when running on propane. Make sure the generator can supply enough (running) and surge (starting) watts for the items you are powering before switching to propane.

- **1.** Fully open the valve on the propane tank.
- 2. Turn the fuel selector switch to propane operation.
- 3. Turn the fuel tank valve to the OFF position.

PROPANE TO GASOLINE

- 1. Turn the fuel tank valve to the ON position.
- 2. Turn the fuel selector switch to gasoline operation.

3. Turn the propane tank valve to the fully closed position.

Note: When switching to propane operation the engine may run rough for a few seconds while it purges gasoline in the carburetor.

If the engine stops when switching fuel sources, disconnect all loads then restart the unit on the fuel source of choice.

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.
- Push and hold the START/STOP button for one second or push STOP on the remote start key fob for one second.

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. Push the battery switch to the OFF position.
- **5.** If operating on LPG, turn the propane tank valve to the fully closed position.

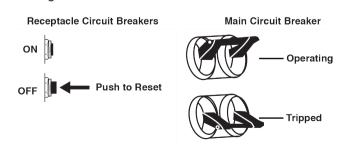
FREQUENCY OF USE

If the generator will be used on an infrequent or intermittent basis (more than one month before next use), refer to the Battery Maintenance and Storage sections of this manual for information regarding battery charging and 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.
- 2. 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 on the next page.
- 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 |
| | 2590 Total Running Watts* | 1600 Highest Starting Watts* |
| Total Running Watts | | 2590 |
| Highest Starting Watts | | + 1600 |
| Total Starting Watts Needed | | 4190 |

^{*}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 |

^{*}Wattages listed are approximate. Verify actual wattage.

EXTENSION CORDS

AWARNING

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.

AWARNING

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.

AWARNING

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.

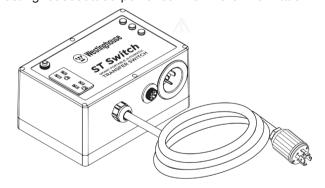
EXTENSION CORD SIZING

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 |

ST SWITCH

The generator is compatible with the ST Switch, purchased separately. When utility power is on it will provide power (up to 120V @ 20A) to the appliances plugged into the 5-20R receptacle on the ST Switch. When utility power is lost the ST Switch automatically transfers input power from utility to generator power. When utility power is restored, the ST Switch transfers input power back to utility. Visit www. westinghouseoutdoorpower.com for more information.



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 LPG, turn the propane tank valve to the fully closed position.
- Disconnect the LPG/propane hose from the generator and propane tank.
- 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 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

A WARNING

Accidental start-up. Disconnect the spark plug boot from the spark plug and disconnect the battery quick-connect plugs 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 oil¹ Clean air filter²

After 100 Hours or Every 6 Months

Inspect/clean spark arrestor
Inspect/clean spark plug
Replace fuel filter
Fuel valve maintenance
Inspect/adjust valve clearance³

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.
- ² 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 | 5692 |
| Oil drain plug crush washer | 94004 |
| Spark arrestor | 6866 |
| Battery, 14 AH | 511012 |
| Fuel filter | 516401 |
| Spark plug | 91708 (F7TC) |

MAINTENANCE REMINDERS

Maintenance reminder codes will be shown on the Data Display based on unit Lifetime Hours. The maintenance codes will be displayed until the unit is turned off. Refer to the Maintenance section for specific procedures.

| Maintenance Code | Required Maintenance | |
|------------------|--|--|
| P25 | Change engine oil | |
| P50 | Change engine oil Clean air filter | |
| P100 | Change engine oil Clean air filter Fuel valve maintenance Replace fuel filter Inspect/adjust valve clearance | |

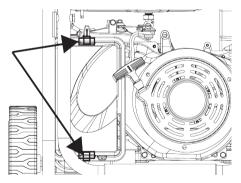
AIR FILTER MAINTENANCE

A 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.** Release the top and bottom clips then remove the air filter cover.



3. Remove the air filters. Use compressed air to clean the coarse air filter.

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.

4. 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.

5. 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.

- **6.** 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.
- 7. Install the foam air filter in the housing, then the coarse air filter. Install the air cleaner cover and secure with the cover clips.

ENGINE OIL LEVEL CHECK

A CAUTION

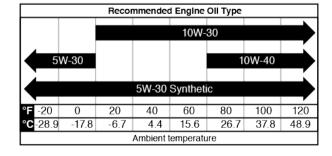
Avoid skin contact with engine oil. Wear protective clothing and equipment. Wash all exposed skin with soap and water.

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 extreme, dirty, dusty conditions or in extremely hot weather, change the oil more frequently.

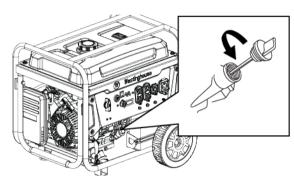
Ambient air temperature will affect engine oil performance. Change the type of engine oil used based on weather conditions.



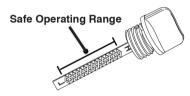
Check the engine oil level before each use or every 8

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.
- 3. Remove the oil dipstick and wipe the dipstick clean.



4. Wipe the dipstick clean, insert it into the oil filler neck and screw it in. Remove the dipstick and verify that the oil level is within safe operating range between the low (L) and high (H) marks on the dipstick.



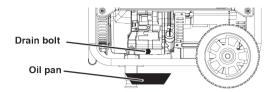
- 5. If low, add recommended engine oil incrementally and recheck until the level is between the L and H marks on the dipstick. DO NOT overfill. If over the full mark on the dipstick, drain the oil to reduce the oil level to the full mark.
- 6. Replace the oil dipstick and hand-tighten.

ENGINE OIL CHANGE

When using the generator under extreme, 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: 1.16 Quart (1.1 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

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.

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.

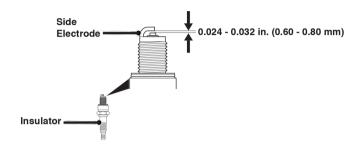
- **1.** Place the generator on a level surface and allow the engine to cool.
- **2.** Remove the spark plug boot by firmly pulling the spark boot directly away from the engine.
- 3. Clean the area around the spark plug.
- **4.** Remove the spark plug with the included spark plug socket wrench.

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)

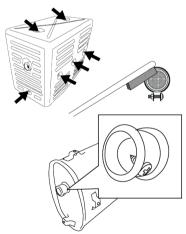


- 7. Carefully install the spark plug finger tight, then tighten as additional 3/8 to 1/2 turn with the spark plug wrench.
- 8. Attach the spark plug boot.

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.
- **2.** Remove the cover screws and the muffler cover. Use a screw driver to remove the 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.

FUEL FILTER

Replace the fuel filter after 100 hours of use.

Note: Have an appropriate gasoline container and rags ready to catch residual fuel in the filter and fuel line.

- 1. Allow the generator to cool completely.
- 2. Turn the fuel valve to the OFF position.

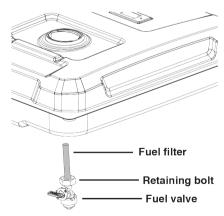


- 3. Note the orientation of the fuel filter. Using pliers, remove the fuel line clamps and remove the fuel filter.
- 4. Install the new fuel filter in the reverse order of removal.

FUEL VALVE MAINTENANCE

The fuel valve is equipped with an inline fuel filter. The fuel valve filter 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. Place an appropriate gasoline container under the carburetor drain bolt to catch the drained fuel.
- **3.** Remove the drain bolt on the bottom of the carburetor and allow the fuel tank to drain completely. Install and tighten the drain bolt securely.
- **4.** Remove the fuel line from the fuel valve. Be prepared to capture the remaining fuel from the fuel line.



- **5.** Loosen the retaining bolt. Unscrew and remove the fuel valve from the fuel tank. Be prepared to capture any remaining fuel from the fuel tank.
- **6.** Open the fuel valve. Use compressed air to clean the fuel filter and the fuel passage from the fuel line side of the passage.

- 7. Install and tighten the fuel valve until it has a few threads remaining and is facing outward.
- **8.** Hold it in place and tighten the retaining bolt. **DO NOT** overtighten.
- 9. Replace the fuel line and secure with the clamp.

BATTERY MAINTENANCE

▲ WARNING

Explosion hazard. Batteries emit explosive gases while charging. Keep fire and spark away.

The battery shipped with the generator has been fully charged. A battery may lose some charge when not in use for prolonged periods of time.

Note: Once started, the generator will charge the battery after 30–60 minutes of use.

The included trickle charger can remain connected and will maintain the battery for an indefinite period of time. A red light on the charger indicates charging in progress. A green light indicates charging complete. Charge in a dry location

- **1.** Plug the charger into the battery charging port on the control panel.
- 2. Plug the wall receptacle end of the battery charger into a 120 Volt AC wall outlet.

BATTERY REPLACEMENT

A WARNING

Burn hazard. The battery contains sulfuric acid (electrolyte) which is highly corrosive and poisonous. Wear protective clothing and eye protection when working near the battery. Keep children away from the battery.

A CAUTION

Battery posts, terminals contain lead and lead compounds. Wash hands after handling.

- **1.** Loosen and remove the bolt on the battery hold-down plate and swing the plate out.
- 2. Disconnect the quick-connect plugs and remove the battery from the unit.
- **3.** Disconnect the quick-disconnect cable leads from the battery.
- **4.** On the replacement battery, connect the white (-) quick-connect cable to the battery negative terminal. Slide the rubber boot over the connection hardware.
- 5. Connect the red (+) quick-connect cable to the battery

positive terminal. Slide the rubber boot over the connection hardware.

- **6.** Install the battery into the generator. Reinstall the battery hold-down plate and tighten the bolt.
- 7. Connect the quick-connect plug.

NOTICE

Dispose of the used battery properly according to the guidelines established by your local or state government.

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 LPG, 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.

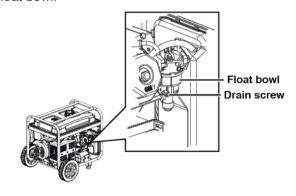
 With the engine and exhaust system cool and all surfaces dry, cover the generator to keep out dust. DO NOT use a plastic sheet as a dust cover. Non-porous materials trap moisture and promote rust and corrosion.

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.
- 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.

- 1. Unscrew the fuel tank cap. Remove the fuel screen filter by slightly compressing it while removing it from the tank.
- 2. 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 battery switch to the OFF position.
- 6. Disconnect the battery quick-connect plugs.
- 7. Remove the spark plug.
- 8. 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.

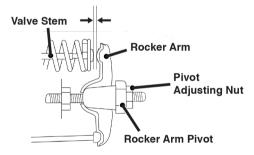
9. Reinstall the spark plug. Leave the spark plug boot disconnected to prevent accidental starting.

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.
- 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°.
- **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

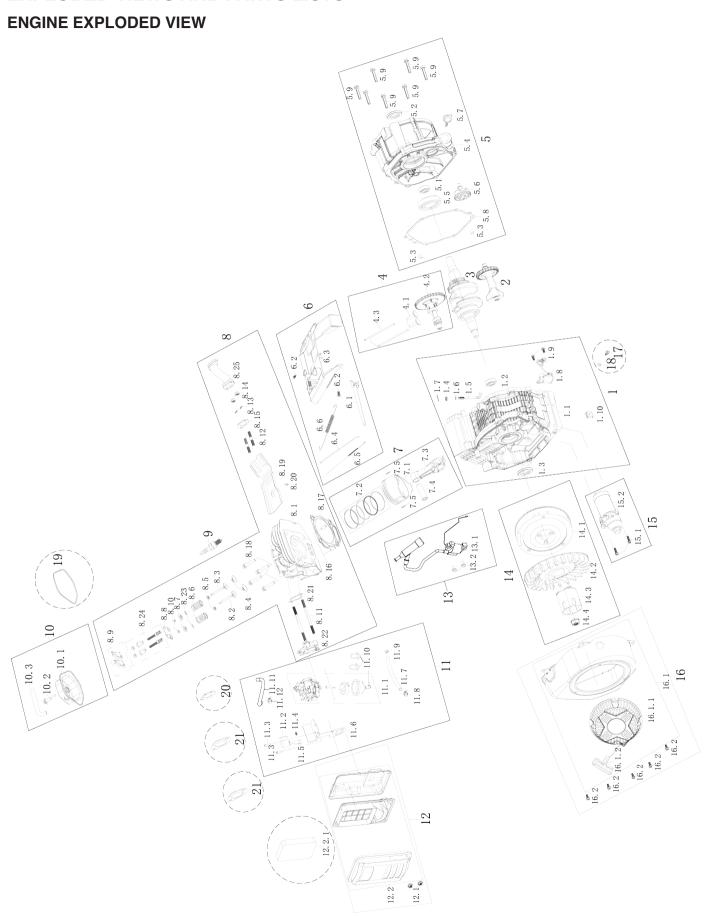
TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | CORRECTION |
|--|--|---|
| | Battery switch in the OFF position. | Turn battery switch to the ON position. |
| | 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. | If low oil LED illuminated, turn battery switch to the OFF position. Add engine oil. |
| | Spark plug wet with fuel (flooded engine). | Wait five minutes. Turn battery switch to the OFF position. Pull recoil handle rapidly several times. If the generator does not start, remove spark plug and dry. |
| Engine will not start | Spark plug faulty, fouled, or improperly gapped. | Gap or replace the spark plug. Reinstall. |
| | Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc. | Contact Westinghouse customer service toll-free at 1 (855) 944-3571. |
| | Battery drained. | Use the recoil handle to start the generator. |
| | Dattery trained. | Charge the battery. |
| | Choke partially open or closed due to weak or disconnected battery. | Manually set the choke. See Maintenance section. |
| | 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. |
| | 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 filter restricted, 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. |
| | Generator overloaded. | Unplug some devices. |
| Engine runs rough or bogs when load applied | Faulty power tool or appliance. | Replace or repair tool or appliance. Stop and restart the engine. |
| | Fuel filter restricted, fuel system malfunction, fuel pump failure, ignition malfunction, valves stuck, etc. | Contact Westinghouse customer service toll-free at 1 (855) 944-3571. |
| | OUTPUT READY LED is OFF and OVERLOAD LED | Check AC load. Stop and restart engine. |
| | is ON. | Check the air inlet. Stop and restart the engine. |
| | 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. |

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | CORRECTION |
|--|---|---|
| | If the temperature of the propane tank drops below the dew point, condensation on the tank may turn to frost or ice. This typically occurs in humid conditions. | Providing all the propane fuel handling equipment is functioning normally, no correction is needed. |
| Frost on the propane tank or regulator | The Propane tank is not equipped with an Overfilling Prevention Device (OPD). | If you suspect your propane fuel tank is not equipped with an OPD device, discontinue operation immediately and replace the propane fuel tank with a propane tank equipped with a an OPD. |
| | Propane fuel tank overfilled. | If you suspect your propane fuel tank has been overfilled, discontinue operation immediately and return the propane fuel tank to the place of purchase or refilling. |
| | Fuel regulator or fuel hose and fittings not securely sealed. | Using a soap solution check each connection and tighten as needed. |
| Propane fuel smell | Propane fuel regulator vent active. | The propane fuel regulator is equipped with a vent that will allow a small amount of propane fuel vapor to escape from the regulator when the propane tank valve is opened. This can be normal providing the venting of the propane is brief. If you suspect that this is abnormal, immediately discontinue use and have the propane regulator inspected by a qualified technician. |
| | Residual fuel from the carburetor dispersing after operation. | Normal, no correction is needed. |
| | Propane fuel line kinked or crushed. | Inspect propane fuel line and remove kinks or other obstructions. |
| Poor performance or engine | Fuel selector valve not properly positioned. | Rotate the fuel valve fully until the pointer is directly in line with the desired fuel. |
| stalling on Propane | Gasoline not purged from the carburetor before switching to propane. | Close the propane fuel tank valve. Move the fuel selector switch to gas. Start the engine and allow the engine to run until the gasoline has been consumed in the carburetor. Begin propane start up procedure. |

EXPLODED VIEWS AND PARTS LISTS



ENGINE PARTS LIST

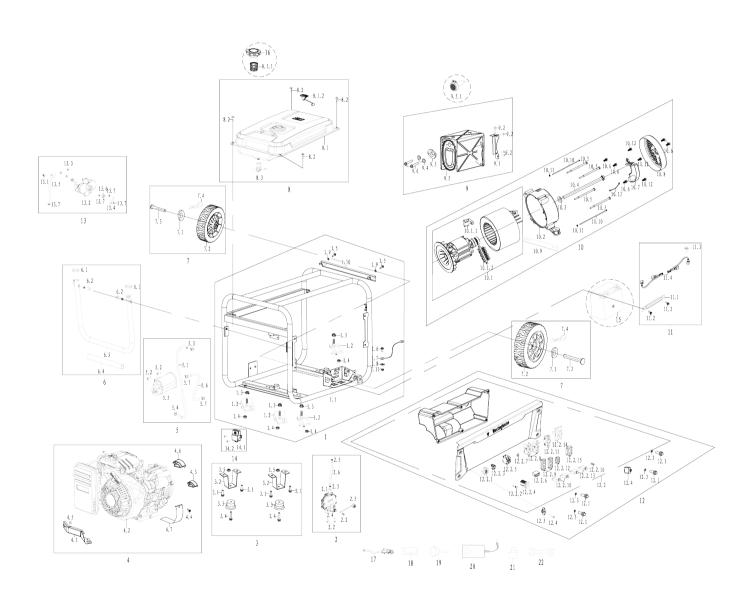
| NO. | PART# | DESCRIPTION |
|------|------------|---------------------------------------|
| 1 | | CRANKCASE ASSEMBLY |
| 1.1 | 270203 | CRANKCASE |
| 1.2 | 93002 | BEARING |
| 1.3 | 93512 | CRANKCASE OIL SEAL |
| 1.4 | 93514 | SWING ROD OIL SEAL |
| 1.5 | 263901 | RACKING BAR |
| 1.6 | 96806 | SWINGING ROD GASKET |
| 1.7 | 263902 | RETAINING CLIP |
| 1.8 | 265102 | OIL SENSOR ASSEMBLY |
| 1.9 | 91329 | BOLT M6X16 |
| 1.10 | 269901 | RUBBER CABLE BLOCK |
| 2 | 270304 | BALANCE SHAFT |
| 3 | 270305 | CRANKSHAFT |
| 4 | i | CAMSHAFT ASSEMBLY |
| 4.1 | 266102 | VALVE LIFTER |
| 4.2 | 272003 | CAMSHAFT ASSEMBLY |
| 4.3 | 261901 | PUSH ROD |
| 5 | | CRANKCASE COVER ASSEMBLY |
| 5.1 | 93002 | BEARING |
| 5.2 | 93512 | CRANKCASE OIL SEAL |
| 5.3 | 240904 | CRANKCASE LOCATING PIN |
| 5.4 | 270102 | CRANKCASE COVER |
| 5.5 | 93015 | BEARING |
| 5.6 | 274301 | CENTRIFUGAL GOVERNOR GEAR ASSEMBLY |
| 5.7 | 265604-295 | DIPSTICK ASSEMBLY |
| 5.8 | 96092 | CRANKCASE SEAL WASHER |
| 5.9 | 91349 | BOLT M8X40 |
| 6 | Ì | SPEED GOVERNOR ASSEMBLY |
| 6.1 | 264001 | SPEED REGULATING ARM |
| 6.2 | 91325 | BOLT M6X12 |
| 6.3 | 274401 | SPEED CONTROLLER |
| 6.4 | 262701 | THROTTLE LEVER |
| 6.5 | 264201 | SPRING C |
| 6.6 | 274101 | SPRING B |
| 7 | İ | PISTON & PISTON RING ASSEMBLY |
| 7.1 | 271204 | PISTON |
| 7.2 | 271602 | PISTON RING ASSEMBLY |
| 7.3 | 271501 | CONNECTING ROD ASSEMBLY |
| 7.4 | 275501 | PISTON PIN |
| 7.5 | 261301 | PISTON PIN RING |
| 8 | | CYLINDER HEAD ASSEMBLY |
| 8.1 | 271005 | CYLINDER HEAD |
| 8.2 | 271702 | INTAKE VALVE |
| 8.3 | 275902 | EXHAUST VALVE |
| 8.4 | 261807 | INTAKE VALVE SPRING LOWER SEAT |
| 8.5 | 93513 | VALVE SEAL |
| | <u> </u> | ı |

| NO. | PART# | DESCRIPTION |
|--------|------------|---------------------------------------|
| 8.6 | 266002 | VALVE SPRING |
| 8.7 | 261805 | EXHAUST VALVE SPRING SEAT |
| 8.8 | 262201 | VALVE RETAINER ASSEMBLY |
| 8.9 | 262101 | ROCKING ARM |
| 8.10 | 261806 | TOP CAP |
| 8.11 | 91016 | AIR INLET STUD BOLT |
| 8.12 | 91007 | AIR EXHAUST STUD BOLT |
| 8.13 | 94206 | SPRING WASHER |
| 8.14 | 90011 | NUT M8 |
| 8.15 | 96083 | EXHAUST SEAL WASHER |
| 8.16 | 260901 | CYLINDER HEAD LOCATING PIN |
| 8.17 | 96093 | CYLINDER HEAD GASKET |
| 8.18 | 91321 | BOLT M10X80 |
| 8.19 | 270501 | WIND-LEAD-COVER |
| 8.20 | 91325 | BOLT M6X12 |
| 8.21 | 96078 | INTAKE GASKET |
| 8.22 | 262301 | CARBURETOR CONNECTION BLOCK |
| 8.23 | 260802 | VALVE LOCK CLAMP |
| | | ROCKING ARM WITH TIGHT BOLT |
| 8.24 | 91818 | ASSEMBLY |
| 8.25 | 95207 | MUFFLER CONNECTING PIPE |
| 9 | 97108 | SPARK PLUG |
| 10 | | CYLINDER HEAD COVER ASSEMBLY |
| 10.1 | 261104 | CYLINDER HEAD COVER |
| 10.2 | 91819 | CYLINDER HEAD COVER FASTENING BOLT |
| 10.3 | 95606 | BREATHER TUBE |
| 11 | | CARBURETOR ASSEMBLY |
| 11.1 | 272820 | CARBURETOR |
| 11.2 | 249904 | STEPPER MOTOR |
| 11.3 | 92007 | SCREW M4X8 |
| 11.4 | 244202 | SPRING |
| 11.5 | 249905 | STEPPER MOTOR DRIVE SHAFT |
| 11.6 | 269909 | BRACKET |
| 11.7 | 95730L | FUEL LINE |
| 11.8 | 94403 | FUEL LINE CLAMP |
| 11.9 | 94401 | FUEL LINE RUBBER SLEEVE |
| 11.10 | 260801 | CABLE CLIP |
| 11.11 | 517903 | LOW PRESSURE HOSE |
| 11.12 | 599302 | LOW PRESSURE HOSE HOOP |
| 12 | | AIR FILTER ASSEMBLY |
| 12.1 | 90016 | NUT M6 |
| 12.2 | 272902-052 | AIR FILTER ASSEMBLY |
| 12.2.1 | 5692 | FILTER ELEMENT |
| 13 | | IGNITOR ASSEMBLY |
| 13.1 | 97551 | IGNITOR |
| 13.2 | 91331 | BOLT M6X25 |
| 14 | | FLYWHEEL ASSEMBLY |

ENGINE PARTS LIST CONTINUED

| NO. | PART# | DESCRIPTION |
|--------|-------------|------------------------------------|
| 14.1 | 270401 | FLYWHEEL |
| 14.2 | 264601 | IMPELLER |
| 14.3 | 264501 | STARTER PULLEY |
| 14.4 | 90004 | FLYWHEEL NUT |
| 15 | | STARTER MOTOR ASSEMBLY |
| 15.1 | 91348 | BOLT M8X35 |
| 15.2 | 97415 | STARTING MOTOR ASSEMBLY |
| 16 | | RECOIL STARTER ASSEMBLY |
| 16.1 | 274716-221B | STARTER ASSEMBLY |
| 16.1.1 | 5910-221 | START PULLER |
| 16.1.2 | 5943 | PULL |
| 16.2 | 91325 | BOLT M6X12 |
| 17 | 91817 | OIL DRAIN BOLT |
| 18 | 94004 | OIL DRAIN BOLT WASHER |
| 19 | 96075 | CYLINDER HEAD COVER SEAL WASHER |
| 20 | 96081 | CARBURETOR WASHER |
| 21 | 96086 | AIR FILTER GASKET |

GENERATOR EXPLODED VIEW



GENERATOR PARTS LIST

| NO. | PART# | DESCRIPTION |
|------|-------------------|---|
| 1 | | FRAME ASSEMBLY |
| 1.1 | 774068- 116 | FRAME |
| 1.2 | 531314 | SHOCK ABSORBER B |
| 1.3 | 90013 | NUT M10 |
| 1.4 | 90011 | NUT M8 |
| 1.5 | 91327 | BOLT M6X12 |
| 1.6 | 91343 | BOLT M8X16 |
| 1.7 | 544307 | FRAME WIRE |
| 1.8 | 94009 | TOOTH WASHER |
| 1.9 | 96120 | PAPER WASHER |
| 1.10 | 530606- 116 | ACTIVITY DISTANCE TUBE |
| 1.11 | 90018 | NUT M8 |
| 2 | | PRESSURE REDUCING VALVE ASSEMBLY |
| 2.1 | 96120 | PAPER WASHER |
| 2.2 | 91325 | BOLT M6X12 |
| 2.3 | 599302 | LOW PRESSURE HOSE HOOP |
| 2.4 | 50280034 | PRESSURE REDUCING VALVE |
| 2.5 | 519387 | PROTECTIVE CASE |
| 2.6 | 517328 | LOW PRESSURE HOSE |
| 3 | | FOOT BRACKET ASSEMBLY |
| 3.1 | 91343 | BOLT M8X16 |
| 3.2 | 525608- 116 | FOOT BRACKET ASSEMBLY |
| 3.3 | 531115 | FOOT BRACKET SHOCK ABSORBER |
| 3.4 | 91333 | BOLT M6X28 |
| 3.5 | 90023 | NUT M6 |
| 4 | | ENGINE ASSEMBLY |
| 4.1 | 540602 | AIR FILTER BRACKET |
| 4.2 | 114845 7220053 | ENGINE ASSEMBLY |
| 4.3 | 549605 | DUST BOARD |
| 4.4 | 91322 | BOLT M5X12 |
| 4.5 | 90016 | NUT M6 |
| 4.6 | 549604 | DUST BOARD |
| 4.7 | 539602 | CRANKCASE COVER |
| 5 | | CARBON CANNISTER ASSEMBLY |
| 5.1 | 95123 | CARBON CANISTER AND FUEL TANK CONNECTING PIPE |
| 5.2 | 91327 | BOLT M6X12 |
| 5.3 | 94423 | FUEL LINE CLAMP |
| 5.4 | 94408 | FUEL LINE CLAMP |
| 5.5 | 543601L | CARBON CANISTER ASSEMBLY |
| 5.6 | 95124 | CARBON CANISTER AND AIR FILTER CONNECTING PIPE |
| 5.7 | 94402 | FUEL LINE CLAMP |
| 6 | | HANDLE WELDING ASSEMBLY |
| | | |

| NO. | PART# | DESCRIPTION |
|--------|-----------------|--------------------------------|
| 6.1 | 527603 | HANDLE PLUG |
| 6.2 | 527612 | BOLT M10 |
| 6.3 | 526620- 116 | HANDLE |
| 6.4 | 528607 | HANDLE RUBBER SLEEVE |
| 7 | | WHEEL ASSEMBLY |
| 7.1 | 94207 | FLAT WASHER |
| 7.2 | 523646 | WHEEL |
| 7.3 | 524619 | AXLE |
| 7.4 | 548302 | STOP REFUND |
| 8 | | FUEL TANK ASSEMBLY |
| 8.1 | 700378L- 116 | FUEL TANK |
| 8.1.1 | 518801 | FUEL TANK FILTER |
| 8.1.2 | 6861 | FUEL GAUGE |
| 8.2 | 91460 | BOLT M6X25 |
| 8.3 | 518208 | FUEL SWITCH |
| 9 | | EXHAUST MUFFLER ASSEMBLY |
| 9.1 | 520305 | MUFFLER MOUNTING BRACKET |
| 9.2 | 91343 | BOLT M8X16 |
| 9.3 | 96002 | MUFFLER CONNECTING PIPE GASKET |
| 9.4 | 94206 | SPRING WASHER |
| 9.5 | 705944 | MUFFLER |
| 9.5.1 | 6866 | SPARK ARRESTER |
| 9.6 | 91347 | BOLT M8X30 |
| 10 | | ALTERNATOR ASSEMBLY |
| 10.1 | 759018 | ALTERNATOR |
| 10.1.1 | 599019 | CARBON BRUSH |
| 10.1.2 | 6560 | TERMINAL ASSEMBLY |
| 10.2 | 532301 | ALTERNATOR TAIL BRACKET |
| 10.3 | 96813 | GASKET |
| 10.4 | 91717 | BOLT M10X1.25X283 |
| 10.5 | 91614 | BOLT M6X200 |
| 10.6 | 91322 | BOLT M5X12 |
| 10.7 | 534813 | AVR |
| 10.8 | 533302- 221 | ALTERNATOR TAIL COVER |
| 10.9 | 532303- 052 | TAIL BRACKET FIXING PLATE |
| 10.10 | 91512 | BOLT M5X230 |
| 10.11 | 90104 | NUT M5 |
| 10.12 | 91323 | BOLT M5X16 |
| 10.13 | 544610 | SHORT WIRE |
| 11 | | BATTERY BRACKET ASSEMBLY |
| 11.1 | 542802- 116 | BATTERY PRESSURE PLATE |
| 11.2 | 91327 | BOLT M6X12 |
| 11.3 | 91325 | BOLT M6X12 |

GENERATOR PARTS LIST CONTINUED

| NO. | PART# | DESCRIPTION |
|---------|----------|---|
| 11.4 | 512058 | BATTERY WIRING ASSEMBLY |
| 12 | | CONTROL PANEL ASSEMBLY |
| 12.1 | 91327 | BOLT M6X12 |
| 12.2 | 714379 | CONTROL PANEL ASSEMBLY |
| 12.2.1 | 536002 | SWITCH |
| 12.2.2 | 6393 | INDICATOR LIGHT |
| 12.2.3 | 6691 | IGNITION SWITCH |
| 12.2.4 | 6488 | AVIATION SOCKET |
| 12.2.5 | 6434-38 | BREAKER |
| 12.2.6 | 6041 | TIME ACCUMULATOR |
| 12.2.7 | 6387 | 2.5MM CHARGING SOCKET |
| 12.2.8 | 6275 | SOCKET |
| 12.2.9 | 6845 | WATERPROOF CAP |
| 12.2.10 | 6439-20 | THERMAL PROTECTOR |
| 12.2.11 | 6385 | SOCKET |
| 12.2.12 | 6848 | WATERPROOF CAP |
| 12.2.13 | 6525-30 | BUTTON & DOUBLE POLE CIRCUIT BREAKER |
| 12.2.14 | 6254 | SOCKET |
| 12.2.15 | 6850 | WATERPROOF CAP |
| 12.2.16 | 6386 | GROUND TERMINAL ASSEMBLY |
| 12.3 | 96120 | PAPER WASHER |
| 12.4 | 92083 | HEXAGON SOCKET PAN HEAD SCREWS |
| 12.5 | 599035 | SWITCH TURNTABLE ASSEMBLY |
| 12.6 | 599065 | CO SHUTDOWN ACTUATOR |
| 13 | | DUAL FUEL SELECTOR SWITCH |
| 13.1 | 94403 | FUEL LINE CLAMP |
| 13.2 | 50280010 | FUEL SWITCH ASSEMBLY |
| 13.3 | 90015 | NUT M5 |
| 13.4 | 95750 | FUEL HOSE |
| 13.5 | 95723L | FUEL LINE |
| 13.6 | 516401 | FUEL FILTER |
| 13.7 | 503034 | FUEL LINE CLAMP |
| 14 | | CO MODULE ASSEMBLY |
| 14.1 | 599064 | CO MODULE |
| 14.2 | 92270 | CROSS SLOTTED HEAD SCREW M4*16 |
| 15 | 511012 | BATTERY |
| 16 | 519215 | FUEL CAP |
| 17 | 545331 | PRESSURE REDUCING VALVE |
| 18 | 99010 | SPARK PLUG WRENCH |
| 19 | 99504 | FUNNEL |
| 20 | 511076 | CHARGER |
| 21 | 99631 | OIL BOTTLE |
| 22 | 99025 | WRENCH |

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