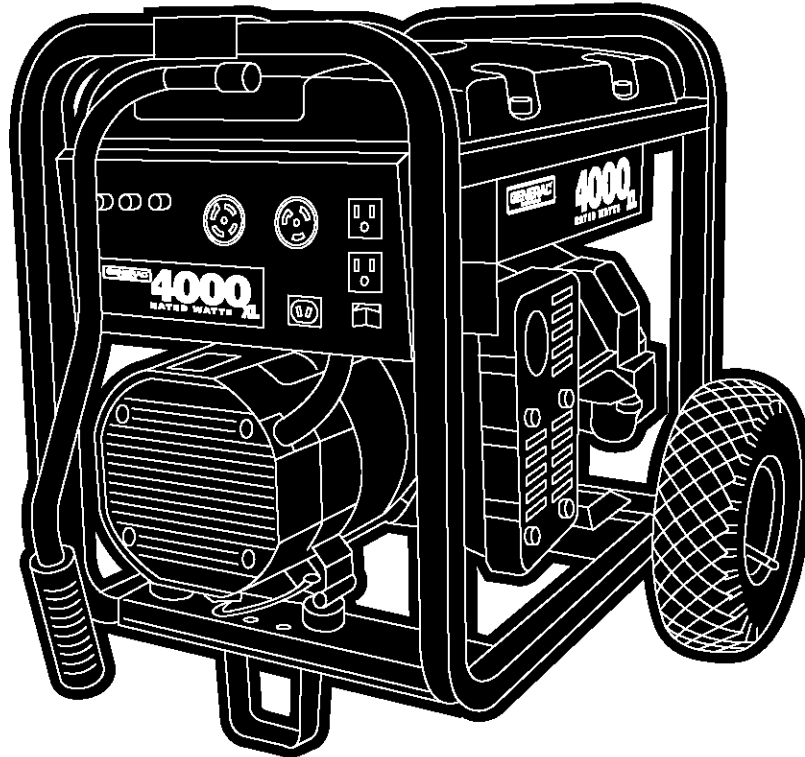


**GENERAC®**  
Portable Products

**4000XL**  
RATED WATT

**EXTENDED LIFE GENERATOR**

## Owner's Manual



### Parts Included\*

- Generator
- Wheel kit
- Storage Cover
- Battery charge cables
- Spare Spark Plug, Air Filter, and Oil Filter
- Spark Plug Wrench
- Locking 20 Amp plug
- Locking 30 Amp plug
- Engine oil
- Owner's manual
- Engine manual

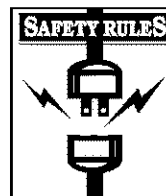
\*If any parts are missing or damaged, call 1-800-270-1408.

### Table of Contents

Safety Rules .....	2-3
Assembly .....	4-5
Know Your Generator .....	6
Operation .....	7-11
Product Specifications .....	12
Maintenance .....	12
Storage .....	12
Troubleshooting .....	13
Schematic .....	14
Wiring Diagram .....	15
Replacement Parts .....	16-19
Warranty .....	Last Page

Questions? Help is just a moment away!

Call: **Generac Generator Helpline - 1-800-270-1408** M-F 8-5 CT  
Web: [www.generac-portables.com](http://www.generac-portables.com) or [www.briggsandstratton.com](http://www.briggsandstratton.com)



## EQUIPMENT DESCRIPTION

Read this manual carefully and become familiar with your generator. Know its applications, its limitations and any hazards involved.

This generator is an engine-driven, revolving field, alternating current (AC) generator. It was designed to supply electrical power for operating compatible electrical lighting, appliances, tools and motor loads. The generator's revolving field is driven at about 3,600 rpm by a single-cylinder engine.

**CAUTION!** Do Not exceed the generator's wattage/ampere capacity. See "Don't Overload the Generator" on page 11.

Every effort has been made to ensure that information in this manual is accurate and current. However, Generac reserves the right to change, alter or otherwise improve the product and this document at any time without prior notice.

The Emission Control System for this generator is warranted for standards set by the Environmental Protection Agency. For warranty information refer to the engine owner's manual.

## SAFETY RULES

The safety alert symbol (▲) is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards. **DANGER** indicates a hazard which, if not avoided, will result in death or serious injury. **WARNING** indicates a hazard which, if not avoided, could result in death or serious injury. **CAUTION** indicates a hazard which, if not avoided, might result in minor or moderate injury. **CAUTION**, when used **without** the alert symbol, indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

### ▲ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

### ▲ DANGER



Running generator gives off carbon monoxide, an odorless, colorless, poison gas. Breathing carbon monoxide will cause nausea, fainting or death.

- Operate generator ONLY outdoors.
- Keep at least 2 feet of clearance on all sides of generator for adequate ventilation.
- Do not operate generator inside any building or enclosure, including the generator compartment of a recreational vehicle (RV).

### ▲ DANGER



Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.

- National Electric Code requires generator to be properly grounded to an approved earth ground. Call an electrician for local grounding requirements.

### ▲ DANGER



Generator produces powerful voltage. Failure to isolate generator from power utility can result in death or injury to electric utility workers due to backfeed of electrical energy.

- When using generator for backup power, notify utility company. Use approved transfer equipment to isolate generator from electric utility.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking or steel work.
- Do not touch bare wires or receptacles.
- Do not use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- Do not operate generator in the rain.
- Do not handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- Do not allow unqualified persons or children to operate or service generator.



**⚠ WARNING**



Gasoline and its vapors are extremely flammable and explosive.



Fire or explosion can cause severe burns or death.

**WHEN ADDING FUEL**

- Turn generator OFF and let it cool at least 2 minutes before removing gas cap. Loosen cap slowly to relieve pressure in tank.
- Fill fuel tank outdoors.
- Do not overfill tank. Allow space for fuel expansion.
- Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Do not light a cigarette or smoke.

**WHEN OPERATING EQUIPMENT**

- Do not tip engine or equipment at angle which causes gasoline to spill.

**WHEN TRANSPORTING OR REPAIRING EQUIPMENT**

- Transport/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- Disconnect spark plug wire.

**WHEN STORING GASOLINE OR EQUIPMENT WITH FUEL IN TANK**

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors.

**⚠ WARNING**



Running engines produce heat. Temperature of muffler and nearby areas can reach or exceed 150°F (65°C).

Severe burns can occur on contact.

- Do not touch hot surfaces.
- Allow equipment to cool before touching.

**⚠ CAUTION**

Excessively high operating speeds increase risk of injury and damage to generator.

Excessively low speeds impose a heavy load.

- Do not tamper with governed speed. Generator supplies correct rated frequency and voltage when running at governed speed.
- Do not modify generator in any way.

**CAUTION**

Exceeding generators wattage/ampere capacity can damage generator and/or electrical devices connected to it.

- See “Don’t Overload Your Generator” on page 11.
- Start generator and let engine stabilize before connecting electrical loads.
- Connect electrical loads in OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from generator before stopping generator.

**CAUTION**

Improper treatment of generator can damage it and shorten its life.

- Use generator only for intended uses.
- If you have questions about intended use, ask dealer or contact Generac.
- Operate generator only on level surfaces.
- Do not expose generator to excessive moisture, dust, dirt, or corrosive vapors.
- Do not insert any objects through cooling slots.
- If connected devices overheat, turn them off and disconnect them from generator.
- Shut off generator if:
  - electrical output is lost;
  - equipment sparks, smokes, or emits flames;
  - unit vibrates excessively.

**⚠ DANGER**



Storage batteries give off explosive hydrogen gas during recharging.

Hydrogen gas stays around battery for a long time after battery has been charged.

Slightest spark will ignite hydrogen and cause explosion.

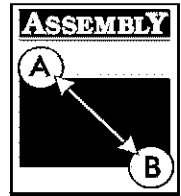
You can be blinded or severely injured.



Battery electrolyte fluid contains acid and is extremely caustic.

Contact with battery fluid will cause severe chemical burns.

- Do not allow any open flame, spark, heat, or lit cigarette during and for several minutes after charging a battery.
- Wear protective goggles, rubber apron, and rubber gloves.



Your generator requires some assembly and is ready for use after it has been properly serviced with the recommended oil and fuel.

**If you have any problems with the assembly of your generator, please call the generator helpline at 1-800-270-1408.**

**IMPORTANT:** Any attempt to run the unit before it has been serviced with the recommended oil will result in an engine failure.

## REMOVE GENERATOR FROM CARTON

- Set the carton on a rigid flat surface with “This Side Up” arrows pointing upward.
- Carefully open the top flaps of the shipping carton. Review “Cold Weather Operation” on page 9.
- Cut down corners at one end of carton from top to bottom and lay that side of carton down flat.
- Remove all packing material, carton fillers, etc.
- Remove the generator from the shipping carton.

## INSTALL WHEEL KIT

To install the wheel kit, the following tool is required:

- Socket wrench with 1/2" or 13mm sockets.
- Needle-nose pliers.

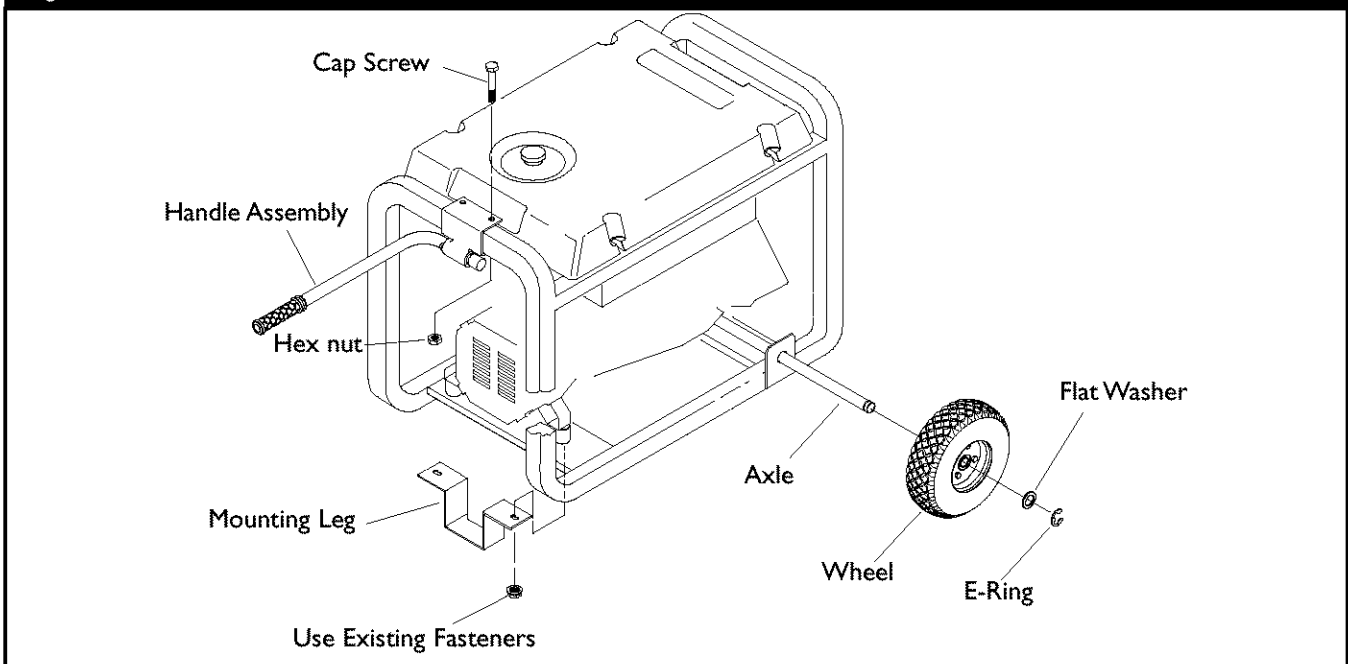
**Install Wheel Kit as follows:** (See Figure 1)

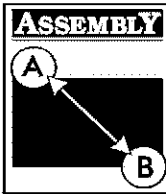
- Place the bottom of the generator cradle on a flat, even surface. Temporarily place unit on blocks to ease assembly.
- Slide axle through both axle mounting brackets on cradle frame, as shown.
- Slide a wheel over the axle.

**NOTE:** Be sure to install both wheels with the air pressure valve on the outboard side.

- Retain wheel on axle with the e-ring using a needle-nose pliers. You may add the flat washer if desired.
- Repeat step 3 and 4 to secure second wheel.
- Remove the existing hardware from the vibration mounts with 13mm wrench. Use the same hardware to attach the mounting leg.

Figure 1 — Install Wheel Kit





- Remove the temporary blocks.
- Center the handle bracket on generator frame at control panel end of cradle.
- Attach handle bracket with two cap screws and two hex nuts. Use two 13 mm wrenches to tighten hardware.
- Check that all fasteners are tight and the tires are inflated between 15-40 PSI.

## BEFORE STARTING THE ENGINE

### Add Oil

**CAUTION!** Any attempt to crank or start the engine before it has been properly filled with the recommended oil may result in an engine failure.

#### To fill your engine with oil:

- Place generator on a level surface.
- Follow the oil grade recommendations and oil fill instructions given in the engine owner's manual.

**NOTE:** The generator's revolving field rides on a prelubricated and sealed ball bearing that requires no additional lubrication for the life of the bearing.

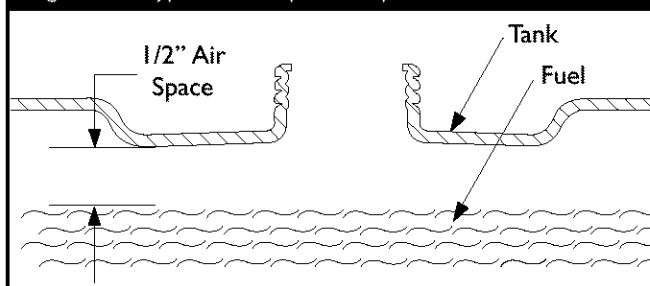
### Add Gasoline

**WARNING!** Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Allow unit to cool for two minutes before refueling. **Do Not** light a cigarette or smoke when filling the fuel tank.

**WARNING!** Do Not overfill the fuel tank. Always allow room for fuel expansion.

- Use regular **UNLEADED** gasoline with the generator engine. **Do Not** use premium gasoline. **Do Not** mix oil with gasoline.
- Clean area around fuel fill cap, remove cap.
- Slowly add unleaded regular gasoline to fuel tank. Be careful not to overfill. Allow about 1/2" of tank space for fuel expansion (Figure 2).

Figure 2 — Typical Fuel Expansion Space



- Install fuel cap and wipe up any spilled gasoline.

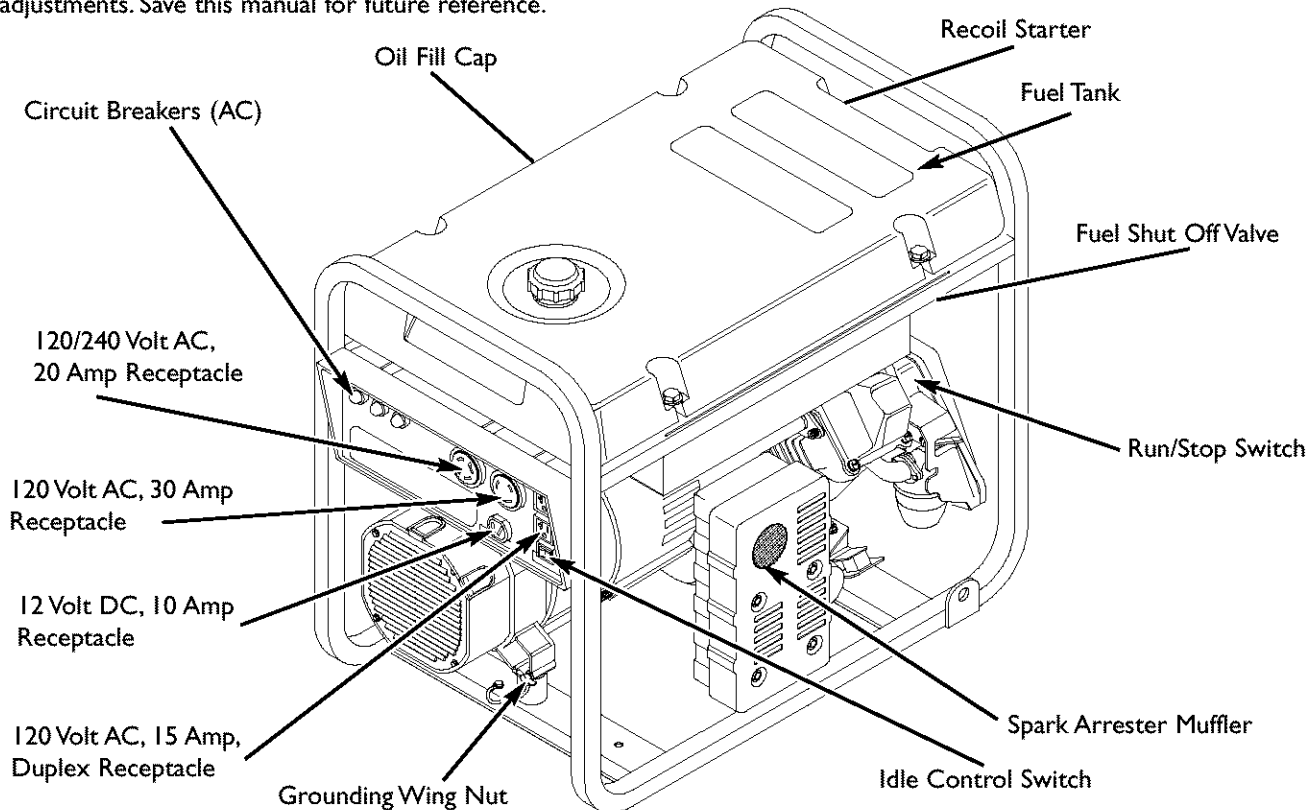
**IMPORTANT:** It is important to prevent gum deposits from forming in essential fuel system parts, such as the carburetor, fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic fuel can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. See "Storage" on page 12. **Never** use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

## KNOW YOUR GENERATOR

Read this owner's manual and safety rules before operating your generator.

Compare the illustrations with your generator, to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



**12 Volt DC, 10 Amp Receptacle** — Use this receptacle with battery charge cables to charge a 12 Volt battery.

**120 Volt AC, 15 Amp Duplex Receptacle** — May be used to supply electrical power for the operation of 120 Volt AC, 15 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

**120 Volt AC, 30 Amp Receptacle** — May be used to supply electrical power for the operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

**120/240 Volt AC, 20 Amp Receptacle** — May be used to supply electrical power for the operation of 120 and/or 240 Volt AC, 20 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

**Circuit Breakers (AC)** — Each receptacle is provided with a circuit breaker to protect the generator against electrical overload. Breakers are "push to reset" type.

**Fuel Shut Off Valve** — Controls fuel supply to engine.

**Fuel Tank** — Capacity of 4 U.S. gallons (15 liters).

**Grounding Wing Nut** — Provides a tie-point for connecting the generator frame to earth ground.

**Idle Control Switch** — The idle control runs the engine at normal (high) speeds when there is an electrical load present and runs the engine at idle (low) speeds when a load is not present. This feature greatly improves fuel economy, extends the life of the engine, and reduces engine noise.

**Oil Fill Cap** — Add oil to engine here.

**Recoil starter** — Used to start the engine.

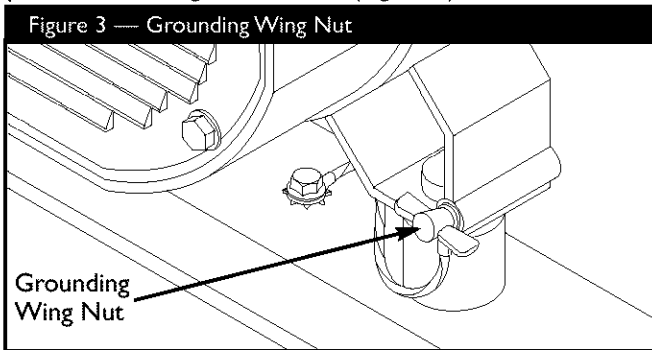
**Run/Stop Switch** — Must be in "Run" position to start engine. Set to "Stop" to stop a running engine.

**Spark Arrester Muffler** — Exhaust muffler lowers engine noise and is equipped with a spark arrester screen.



# GROUNDING THE GENERATOR

The National Electrical Code requires that the frame and external electrically conductive parts of this generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the unit. For that purpose, a **GROUNDING WING NUT** is provided on the generator end (Figure 3).



Generally, connecting a No. 12 AWG (American Wire Gauge) stranded copper wire to the grounding wing nut and to an earth-driven copper or brass grounding rod (electrode) provides adequate protection against electrical shock. Be careful to keep the grounding wire attached after connecting the stranded copper wire. However, local codes may vary widely. Consult with a local electrician for grounding requirements in your area.

Properly grounding the generator helps prevent electrical shock if a ground fault condition exists in the generator or in connected electrical devices, especially when the unit is equipped with a wheel kit. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices.

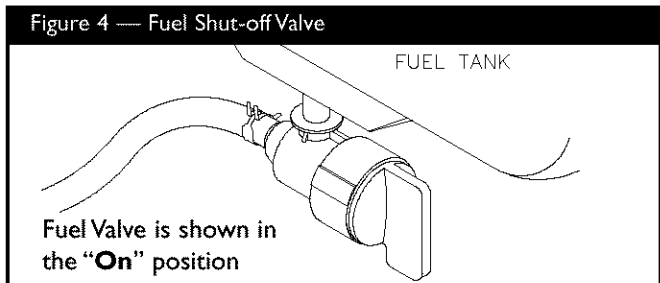
# OPERATING THE GENERATOR

**CAUTION!** Never start or stop unit with electrical loads connected AND with the connected devices turned ON.

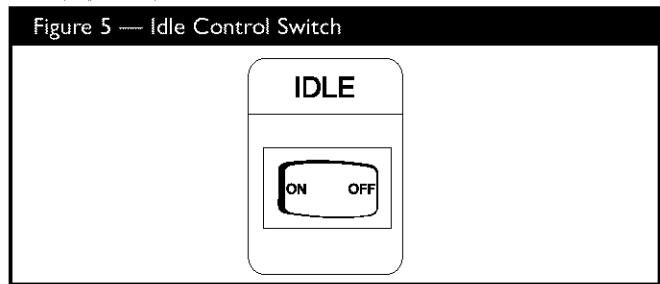
## Starting the Engine

Disconnect all electrical loads from the generator. Follow these start instruction steps in numerical order:

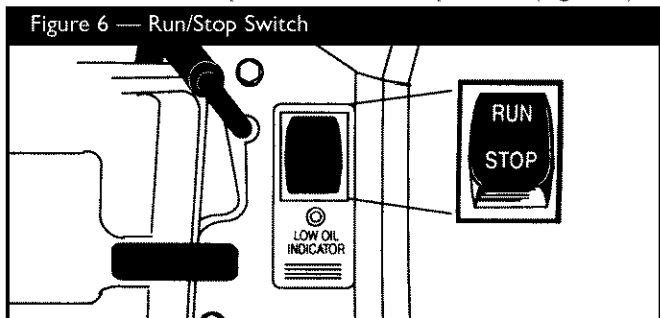
1. Turn the fuel valve to the "On" position (Figure 4).



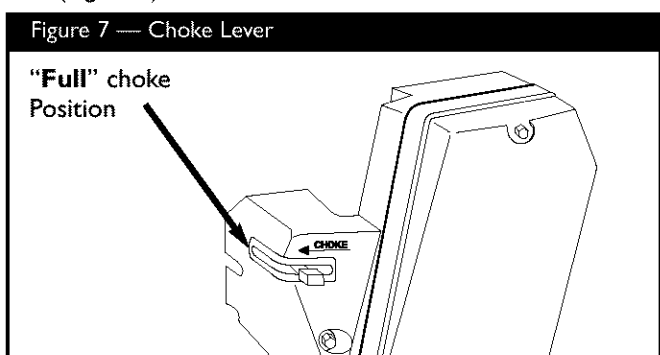
2. Make sure the Idle Control switch is in "Off" position (Figure 5).



3. Set the Run/Stop switch to "Run" position (Figure 6).



4. Place the choke lever in the "Full" choke position (Figure 7).





5. Grasp the recoil handle and pull slowly until slight resistance is felt. Then pull rapidly one time only to start engine.
  - If engine starts, proceed to step 7.
  - If engine fails to start, proceed to step 6.
6. Move the choke lever to “**Half**” choke position, and pull recoil handle twice.
  - If engine fails to start, repeat steps 4 thru 6.
7. Move choke lever to “**Run**” position. If engine falters, move choke lever to “**Half**” choke position until the engine runs smoothly and then to “**Run**” position.

**NOTE:** If engine still fails to start after 3 pulls, check for proper oil level in crankcase. This unit is equipped with a Low Oil Shutdown System. See engine manual.

Refer to the engine owner’s manual for complete starting instructions.

## Connecting Electrical Loads

- Let engine stabilize and warm up for a few minutes after starting.
- Plug in and turn on the desired 120 and/or 240 Volt AC, single phase, 60 Hz electrical loads.
- **Do Not** connect 240 Volt loads to the 120 Volt receptacles.
- **Do Not** connect 3-phase loads to the generator.
- **Do Not** connect 50 Hz loads to the generator.
- **DO NOT OVERLOAD THE GENERATOR.** See “Don’t Overload the Generator” on page 11.

## Stopping the Engine

- Unplug **all** electrical loads from generator panel receptacles. **Never** start or stop engine with electrical devices plugged in and turned on.
- Put the idle control switch in the “**Off**” position.
- Let engine run at no-load for 30 seconds to stabilize the internal temperatures of engine and alternator.
- Move run/stop switch to “**Stop**”.
- Close the fuel shut-off valve.

## Operating Automatic Idle Control

This switch is designed to greatly improve fuel economy. **When this switch is turned ON**, the engine will only run at its normal high governed engine speed when an electrical load is connected. When an electrical load is removed, the engine will run at a reduced speed. **With the**

**switch off**, the engine will run at the normal high engine speed. **Always have the switch off when starting and stopping the engine.**

## Charging a Battery

**WARNING!** Storage batteries give off explosive hydrogen gas while recharging. An explosive mixture will remain around the battery for a long time after it has been charged. The slightest spark can ignite the hydrogen and cause an explosion, resulting in blindness or other serious injury.

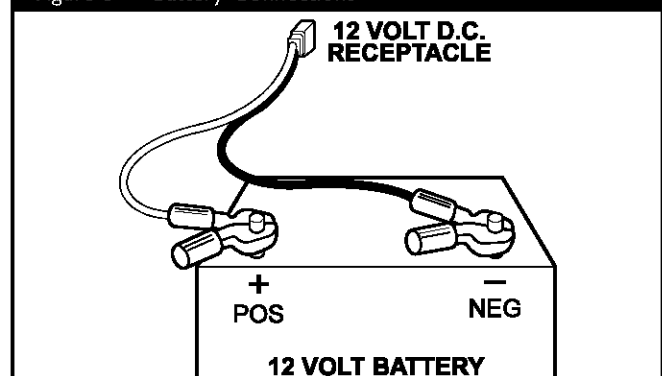
**WARNING! Do Not** permit smoking, open flame, sparks or any other source of heat around a battery. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluid is an extremely caustic sulfuric acid solution that can cause severe burns. If spill occurs flush area with clear water immediately.

Your generator has the capability of recharging a discharged 12 Volt automotive or utility style storage battery. **Do Not** use the unit to charge any 6 Volt batteries. **Do Not** use the unit to crank an engine having a discharged battery.

**To recharge 12 Volt batteries, proceed as follows:**

- Check fluid level in all battery cells. If necessary, add **ONLY** distilled water to cover separators in battery cells. **Do Not use tap water.**
- If the battery is equipped with vent caps, make sure they are installed and are tight.
- If necessary, clean battery terminals.
- Connect battery charge cable connector plug to panel receptacle identified by the words “12-VOLTS D.C.”.
- Connect battery charge cable clamp with **red** handle to the **positive (+)** battery terminal (Figure 8).

Figure 8 — Battery Connections







- Connect battery charge cable clamp with **black** handle to the **negative (-)** battery terminal (Figure 8).
- Start engine. Let the engine run while battery recharges.
- When battery has charged, shut down engine

**NOTE:** Use an automotive hydrometer to test battery state of charge and condition. Follow the hydrometer manufacturer's instructions carefully. Generally, a battery is considered to be at 100% state of charge when specific gravity of its fluid (as measured by hydrometer) is 1.260 or higher.

## COLD WEATHER OPERATION

Under certain weather conditions (temperatures below 40°F [4°C] and a high dew point), your generator may experience icing of the carburetor and/or the crankcase breather system.

In an emergency, use the original shipping box as a temporary shelter:

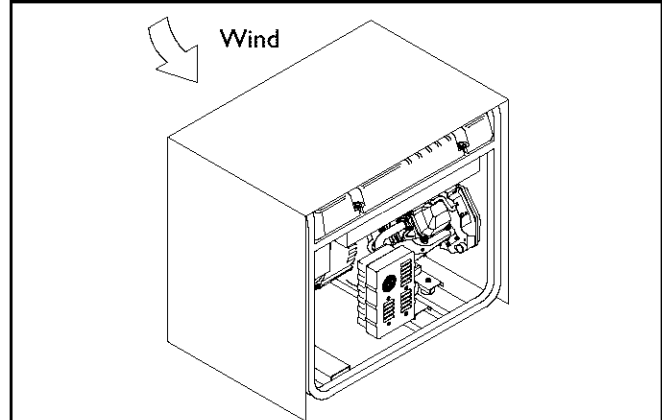
- Cut off all flaps.
- Cut out one of the long sides of the box to expose exhaust side of unit. Ensure a minimum of two feet clearance between open side of box and nearest object.
- Cut appropriate slots to access receptacles of unit.
- Start unit, then place box over it.

**IMPORTANT:** Remove shelter when temperature is above 40°F [4°C].

For a more permanent shelter, build a structure that will enclose three sides and the top of the generator:

- Make sure entire muffler-side of generator is exposed.  
Note that your generator may appear different from that shown in Figure 9.

Figure 9 — Temporary Cold Weather Shelter



- Ensure a minimum of two feet clearance between open side of box and nearest object.
- Face exposed end away from wind and elements.
- Enclosure should hold enough heat created by the generator to prevent problems.

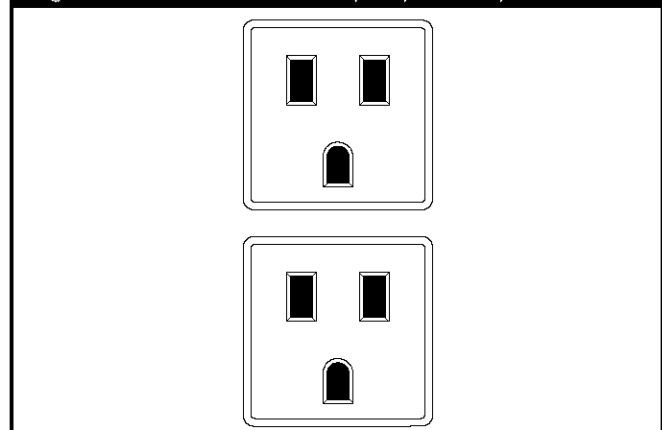
**CAUTION!** Never run unit indoors. Do Not enclose generator any more than shown.

## RECEPTACLES

### 120 Volt AC, 15 Amp Receptacles

Each of these outlets is protected against overload by 15 Amp push-to-reset type circuit breakers (Figure 10).

Figure 10 — 120 Volt AC, 15 Amp Duplex Receptacle



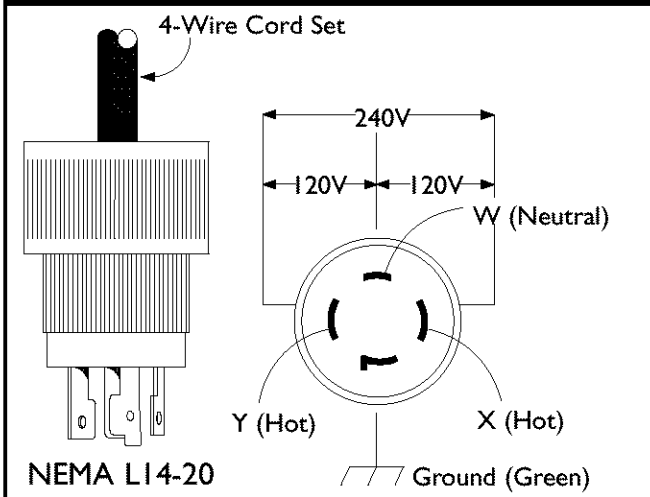
Use each outlet to operate 120 Volt, 60 Hz, single phase loads requiring 1,800 (1.8 kW) watts at 15 Amps of current.



## 120/240 Volt AC, 20 Amp Locking Receptacle

Use a NEMA L14-20 plug with this receptacle. Connect a 4-wire cord set rated for 250 Volts at 20 Amps (or greater) (Figure 11). You can use the same 4-wire cord if you plan to run a 120 Volt load.

Figure 11 — 120/240 Volt AC, 20 Amp Receptacle



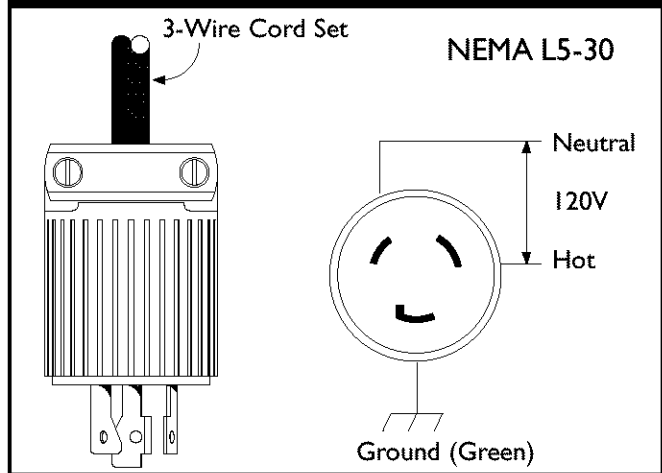
This receptacle powers 120/240 Volt AC, 60 Hz, single phase loads requiring up to 2,400 watts of power at 20 Amps for 120 Volts; 4,000 watts of power (4.0 kW) at 16.7 Amps for 240 Volts. The outlet is protected by a 20 Amp push-to-reset circuit breaker.

**CAUTION!** Although this outlet is rated for 240 Volt 20 Amp (up to 4,800 watts), the generator is only rated for 4,000 watts. Powering loads that exceed the wattage/ampere capacity of the generator can damage it or cause serious injuries. 240 Volt loads powered through this outlet should not exceed 16.7 Amps of current draw.

## 120 Volt AC, 30 Amp Locking Receptacle

Use a NEMA L5-30 plug with this receptacle. Connect a 3-wire cord set rated for 125 Volts AC at 30 Amps to the plug (Figure 12).

Figure 12 — 120 Volt AC, 30 Amp, Locking Receptacle

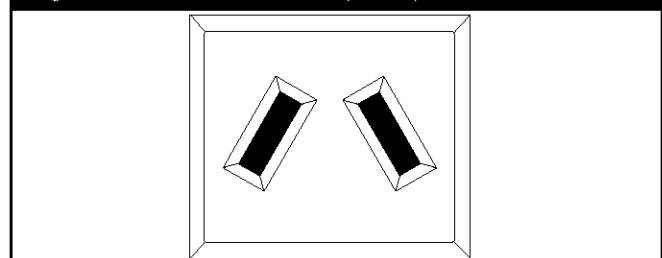


Use this receptacle to operate 120 Volt AC, 60 Hz, single phase loads requiring up to 3,600 watts (3.6 kW) of power at 30 Amps. The outlet is protected by a 30 Amp push-to-reset circuit breaker.

## 12 Volt DC, 10 Amp Receptacle

This connector (identified by the legend "12-VOLT D.C.") supplies 12 Volts DC at 10 Amps through battery charging cables for recharging 12 Volt batteries (Figure 13). See "Charging a Battery" on page 8.

Figure 13 — 12 Volt DC, 10 Amp Receptacle





# DON'T OVERLOAD YOUR GENERATOR

## Capacity

You must make sure your generator can supply enough rated (running) and surge (starting) watts for the items you will power at the same time. Follow these simple steps:

1. Select the items you will power at the same time.
2. Total the rated (running) watts of these items. This is the amount of power your generator must produce to keep your items running. See Figure 14.
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	Rated (Running) Watts	Additional Surge (Starting) Watts
Window Air Conditioner	1200	1800
Refrigerator	800	1600
Deep Freezer	500	500
Television	500	-
Light (75 Watts)	75	-
	3075 Total Running Watts	1800 Highest Surge Watts

Total Rated (Running) Watts = 3075

Highest Additional Surge Watts = 1800

Total Generator Output Required = 4875

## Power Management

To prolong the life of your generator and attached devices, it is important to take care when adding electrical loads to your generator. There should be nothing connected to the generator outlets before starting its 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).

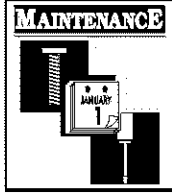
4. Plug in and turn on the next load.
5. Again, permit the generator to stabilize.
6. Repeat steps 4 and 5 for each additional load.

**Never** add more loads than the generator capacity. Take special care to consider surge loads in generator capacity, as described above.

Figure 14 - Wattage Reference Chart

Tool or Appliance	Rated* (Running) Watts	Additional Surge (Starting) Watts
<b>Essentials</b>		
Light Bulb - 75 watt	75	-
Deep Freezer	500	500
Sump Pump	800	1200
Refrigerator/Freezer - 18 Cu. Ft.	800	1600
Water Well Pump - 1/3 HP	1000	2000
<b>Heating/Cooling</b>		
Window AC - 10,000 BTU	1200	1800
Window Fan	300	600
Furnace Fan Blower - 1/2 HP	800	1300
<b>Kitchen</b>		
Microwave Oven - 1000 Watt	1000	-
Coffee Maker	1500	-
Electric Stove - Single Element	1500	-
Hot Plate	2500	-
<b>Family Room</b>		
DVD/CD Player	100	-
VCR	100	-
Stereo Receiver	450	-
Color Television - 27"	500	-
Personal Computer w/17" monitor	800	-
<b>Other</b>		
Security System	180	-
AM/FM Clock Radio	300	-
Garage Door Opener - 1/2 HP	480	520
Electric Water Heater - 40 Gallon	4000	-
<b>DIY/Job Site</b>		
Quartz Halogen Work Light	1000	-
Airless Sprayer - 1/3 HP	600	1200
Reciprocating Saw	960	960
Electric Drill - 1/2 HP	1000	1000
Circular Saw - 7 1/4"	1500	1500
Miter Saw - 10"	1800	1800
Planer/Joiner - 6"	1800	1800
Table Saw/Radial Arm Saw - 10"	2000	2000
Air Compressor - 1-1/2 HP	2500	2500

\*Wattages listed are approximate only. Check tool or appliance for actual wattage.



# SPECIFICATIONS

Maximum Surge Watts	6,600 watts
Continuous Wattage Capacity	4,000 watts
Power Factor	1.0
Rated Maximum Continuous AC Load Current:	
At 120 Volts	33.3 Amps
At 240 Volts	16.7 Amps
Phase	1-phase
Rated Frequency	60 Hertz
Fuel Tank Capacity	4 U.S. gallons
Shipping Weight	134 lbs.

# GENERAL MAINTENANCE RECOMMENDATIONS

The Owner/Operator is responsible for making sure that all periodic maintenance tasks are completed on a timely basis; that all discrepancies are corrected; and that the unit is kept clean and properly stored. **Never operate a damaged or defective generator.**

## Engine Maintenance

See engine owner's manual for instructions.

**CAUTION!** Avoid prolonged or repeated skin contact with used motor oil. Used motor oil has been shown to cause skin cancer in certain laboratory animals. Thoroughly wash exposed areas with soap and water. **KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.**

## Generator Maintenance

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling air slots in the generator must not become clogged with snow, leaves or any other foreign material.

**NOTE: Do Not** use a garden hose to clean generator. Water can enter engine fuel system and cause problems. In addition, if water enters generator through cooling air slots, some of the water will be retained in voids and cracks of the rotor and stator winding insulation. Water and dirt buildup on the generator internal windings will eventually decrease the insulation resistance of these windings.

## To Clean the Generator

- Use a damp cloth to wipe exterior surfaces clean.
- A soft bristle brush may be used to loosen caked on dirt or oil.
- A vacuum cleaner may be used to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and opening on generator. These openings must be kept clean and unobstructed.

## STORAGE

The generator should be started at least once every seven days and allowed to run at least 30 minutes. If this cannot be done and you must store the unit for more than 30 days, use the following guidelines to prepare it for storage.

### Generator Storage

- Clean the generator as outlined in "To Clean the Generator."
- Check that cooling air slots and openings on generator are open and unobstructed.

**CAUTION!** Storage covers can be flammable. **Do Not** place a storage cover over a hot generator. Let the unit cool for a sufficient time before placing the cover on the unit.

### Engine Storage

See engine owner's manual for instructions.

### Other Storage Tips

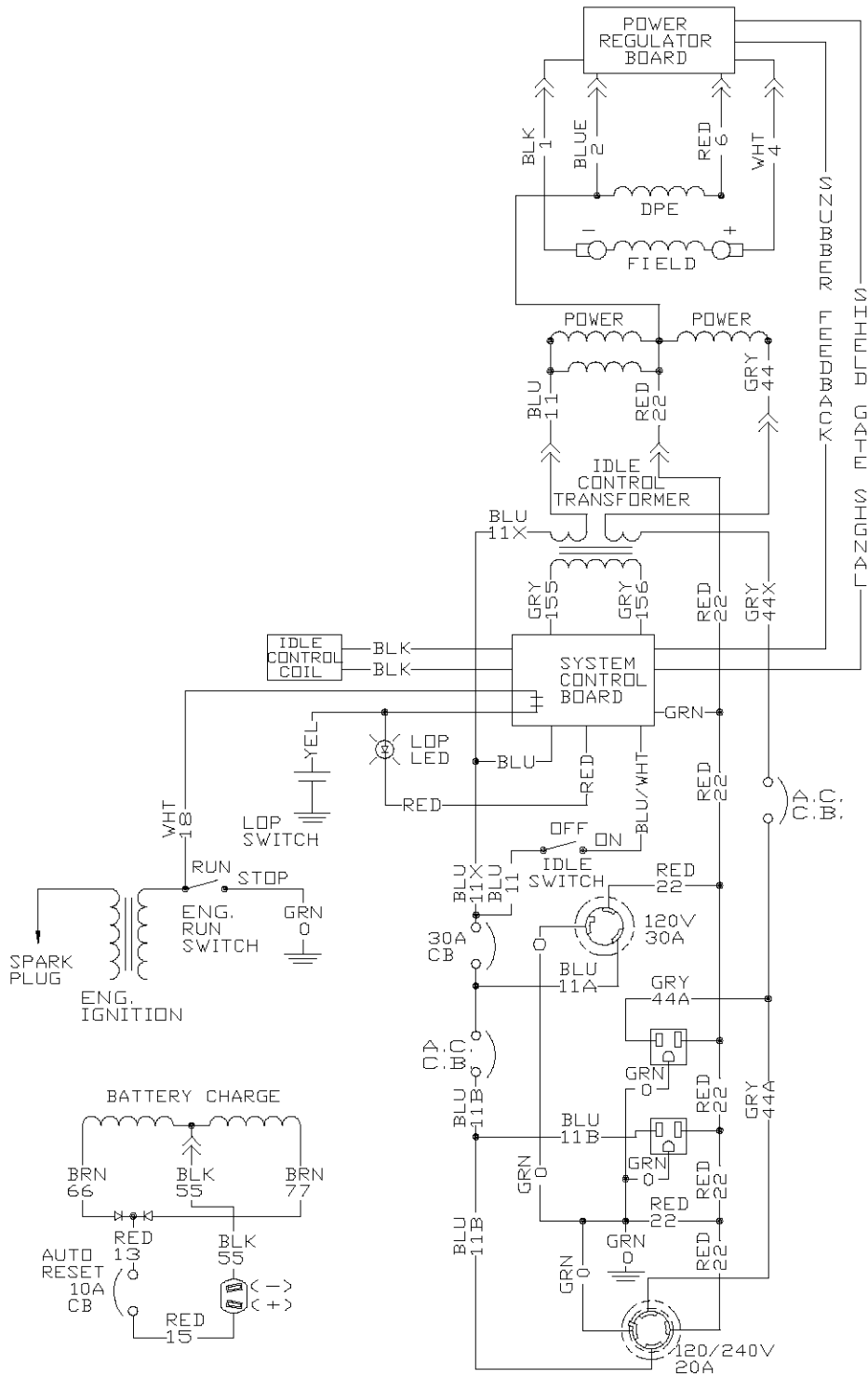
- To prevent gum from forming in fuel system or on essential carburetor parts, add fuel stabilizer into fuel tank and fill with fresh gasoline. Run the unit for several minutes to circulate the additive through the carburetor. The unit and fuel can then be stored for up to 24 months. Fuel stabilizer can be purchased locally.
- **Do Not** store gasoline from one season to another unless it has been treated as described above.
- Replace fuel container if it starts to rust. Rust and/or dirt in fuel can cause problems if it's used with this unit.
- Store in clean and dry area.

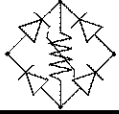


## TROUBLESHOOTING

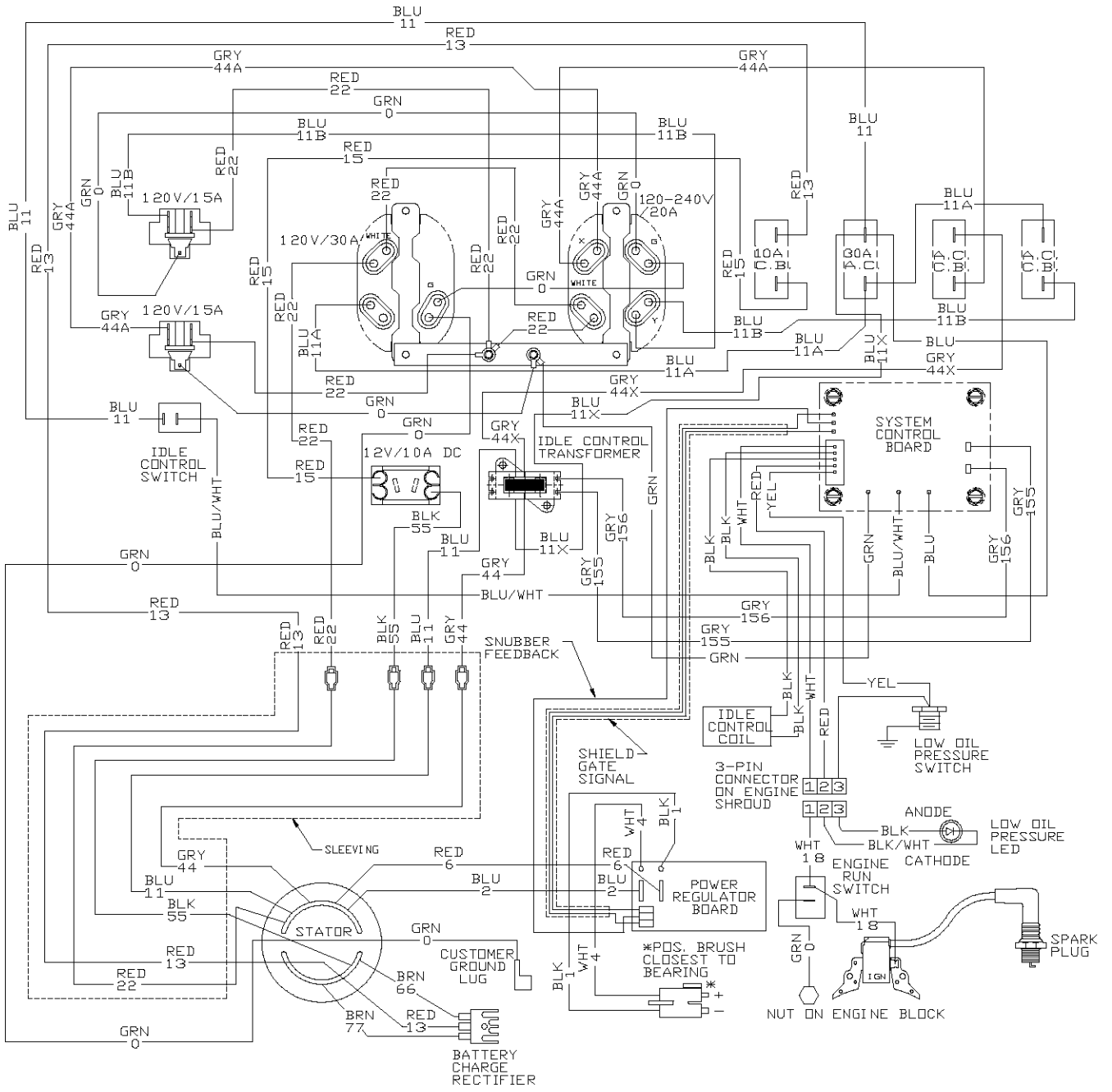
Problem	Cause	Solution
<b>Engine is running, but no AC output is available.</b>	<ol style="list-style-type: none"> <li>1. Circuit breaker is open.</li> <li>2. Poor connection or defective cord set.</li> <li>3. Connected device is bad.</li> <li>4. Fault in generator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker.</li> <li>2. Check and repair.</li> <li>3. Connect another device that is in good condition.</li> <li>4. Contact Generac service facility.</li> </ol>
<b>Engine runs good but bogs down when loads are connected.</b>	<ol style="list-style-type: none"> <li>1. Short circuit in a connected load.</li> <li>2. Generator is overloaded.</li> <li>3. Engine speed is too slow.</li> <li>4. Shorted generator circuit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect shorted electrical load.</li> <li>2. See "Don't Overload the Generator" on page 11.</li> <li>3. Contact Generac Power Systems service facility.</li> <li>4. Contact Generac service facility.</li> </ol>
<b>Engine will not start; or starts and runs rough.</b>	<ol style="list-style-type: none"> <li>1. Run/Stop switch set to "Stop".</li> <li>2. Dirty air cleaner.</li> <li>3. Out of gasoline.</li> <li>4. Stale gasoline.</li> <li>5. Spark plug wire not connected to spark plug.</li> <li>6. Bad spark plug.</li> <li>7. Water in gasoline.</li> <li>8. Overchoking.</li> <li>9. Low oil level.</li> <li>10. Excessively rich fuel mixture.</li> <li>11. Intake valve stuck open or closed.</li> <li>12. Engine has lost compression.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set switch to "Run".</li> <li>2. Clean or replace air cleaner.</li> <li>3. Fill fuel tank.</li> <li>4. Drain gas tank and fill with fresh fuel.</li> <li>5. Connect wire to spark plug.</li> <li>6. Replace spark plug.</li> <li>7. Drain gas tank; fill with fresh fuel.</li> <li>8. Put choke lever to "Run" position.</li> <li>9. Fill crankcase to proper level.</li> <li>10. Contact Generac Power Systems service facility.</li> <li>11. Contact Generac Power Systems service facility.</li> <li>12. Contact Generac Power Systems service facility.</li> </ol>
<b>Engine shuts down during operation.</b>	<ol style="list-style-type: none"> <li>1. Out of gasoline.</li> <li>2. Low oil level.</li> <li>3. Fault in engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. Fill crankcase to proper level.</li> <li>3. Contact Generac Power Systems service facility.</li> </ol>
<b>Engine lacks power.</b>	<ol style="list-style-type: none"> <li>1. Load is too high.</li> <li>2. Dirty air filter.</li> <li>3. Engine needs to be serviced.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "Don't Overload the Generator" on page 11.</li> <li>2. Replace air filter.</li> <li>3. Contact Generac Power Systems service facility.</li> </ol>
<b>Engine "hunts" or falters.</b>	<ol style="list-style-type: none"> <li>1. Choke is opened too soon.</li> <li>2. Carburetor is running too rich or too lean.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move choke to halfway position till engine runs smoothly.</li> <li>2. Contact Generac Power Systems service facility.</li> </ol>

**SCHEMATIC**

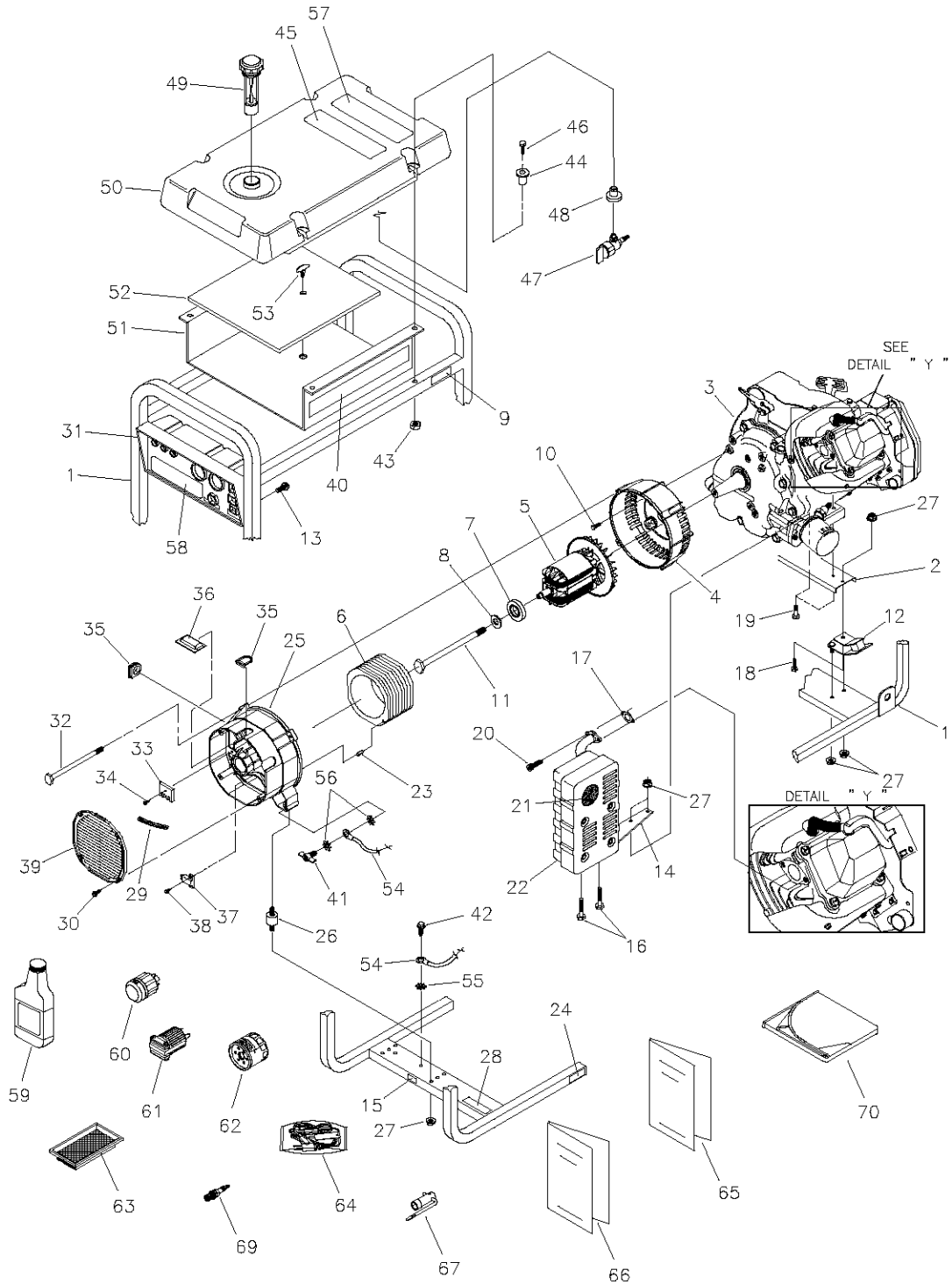




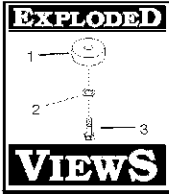
# WIRING DIAGRAM



# EXPLODED VIEW – MAIN UNIT

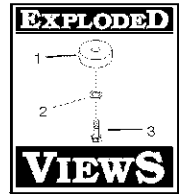




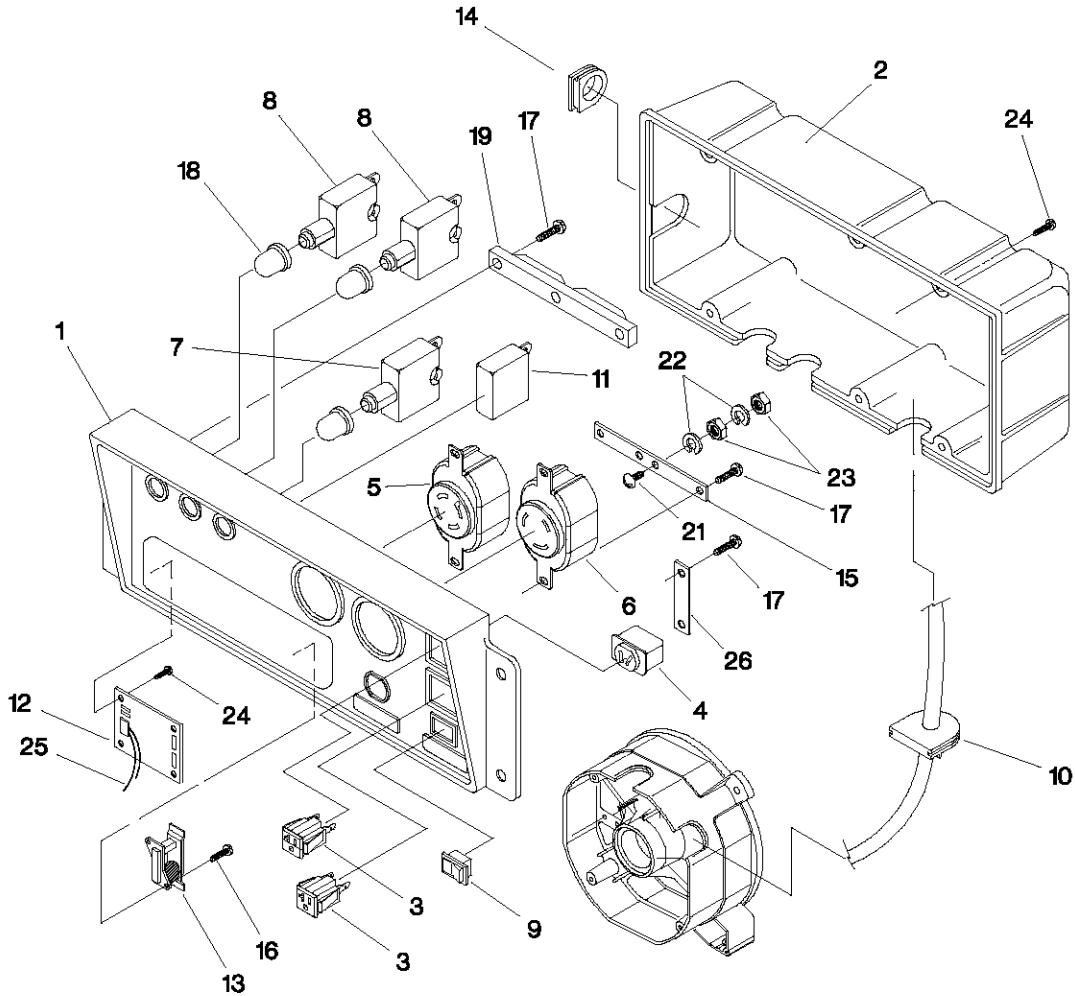


## PARTS LIST – MAIN UNIT

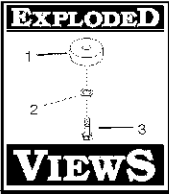
Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	A93199GS	1	CRADLE	37	66386GS	1	ASSY, Brush Holder
2	A84021GS	1	SUPPORT, Engine	38	66849GS	2	SCREW
3	NSP	1	ENGINE	39	B4871GS	1	COVER, Bearing Carrier
4	66365GS	1	HOUSING, Engine Adapter	40	189404GS	2	DECAL, Heat Shield
5	84141JGS	1	ASSY, Rotor (Incls Item 7)	41	86494GS	1	SCREW, Wing
6	83540JGS	1	ASSY, Stator	42	86292GS	1	SCREW
7	65791GS	1	BEARING	43	77395GS	4	NUT, Lock
8	96796GS	1	WASHER	44	83465GS	4	GROMMET, Tank
9	73054GS	1	DECAL, Fuel Shut Off	45	93826GS	1	DECAL, Operating Instructions
10	86307GS	4	SCREW	46	78831BGS	4	SCREW
11	47480GS	1	SCREW	47	80270GS	1	VALVE, Tank
12	84508GS	2	MOUNT, Vibe	48	78299GS	1	BUSHING, Plastic Tank
13	B2153GS	4	SCREW	49	85134GS	1	GUAGE, Fuel
14	83208GS	1	BRACKET, Muffler	50	88325GS	1	ASSY, Tank, Fuel (Includes Items 47 & 48)
15	B4986GS	1	DECAL, Ground	51	J84042GS	1	SHIELD, Heat
16	66476GS	2	SCREW	52	84687GS	1	INSULATION
17	89476GS	1	GASKET, Exhaust	53	85000GS	1	CLIP, Insulation
18	70644GS	1	SCREW	54	14353621GS	1	WIRE, Ground
19	84346GS	3	SCREW	55	23762GS	1	WASHER
20	40976GS	2	SCREW	56	26850GS	2	WASHER
21	83083GS	1	SCREEN, Spark Arrest	57	92982GS	1	DECAL, Danger
22	83071GS	1	MUFFLER	58	189405GS	1	DECAL, Control Panel
23	81917GS	1	PIN, Roll	59	BB3061GS	1	BOTTLE, Oil
24	77816GS	1	DECAL, Caution Hot Muffler	60	43483GS	1	PLUG, 250 V 20 A 4-Prong
25	SRV66825DGS	1	CARRIER, Rear Bearing	61	37806GS	1	PLUG, 125 V 30 A 3-Prong
26	85652GS	2	MOUNT, Vibe	62	70185GS	1	FILTER, Oil
27	67989GS	10	NUT	63	78601GS	1	CLEANER, Air
28	20566GS	1	DECAL, 1-800	64	65787GS	1	CABLE, Battery Charge
29	84409GS	1	SLEEVING, Flexo	65	189383GS	1	MANUAL, Owners
30	74908GS	4	SCREW	66	A8926GS	1	MANUAL, Engine
31	87116GS	1	ASSY, Control Panel (see page 18)	67	84882GS	1	WRENCH, Spark Plug
32	86308GS	4	BOLT	69	72347GS	1	PLUG, Spark
33	65795GS	1	RECTIFIER, Battery Charge	70	84895GS	1	COVER, Storage
34	66849AGS	1	SCREW				
35	67022GS	2	GROMMET, Rubber				
36	84132GS	1	ASSY, Drive Module Pwr Reg.				
				<b>Optional Accessories Not Included:</b>			
				84883GS			Cord Wrap



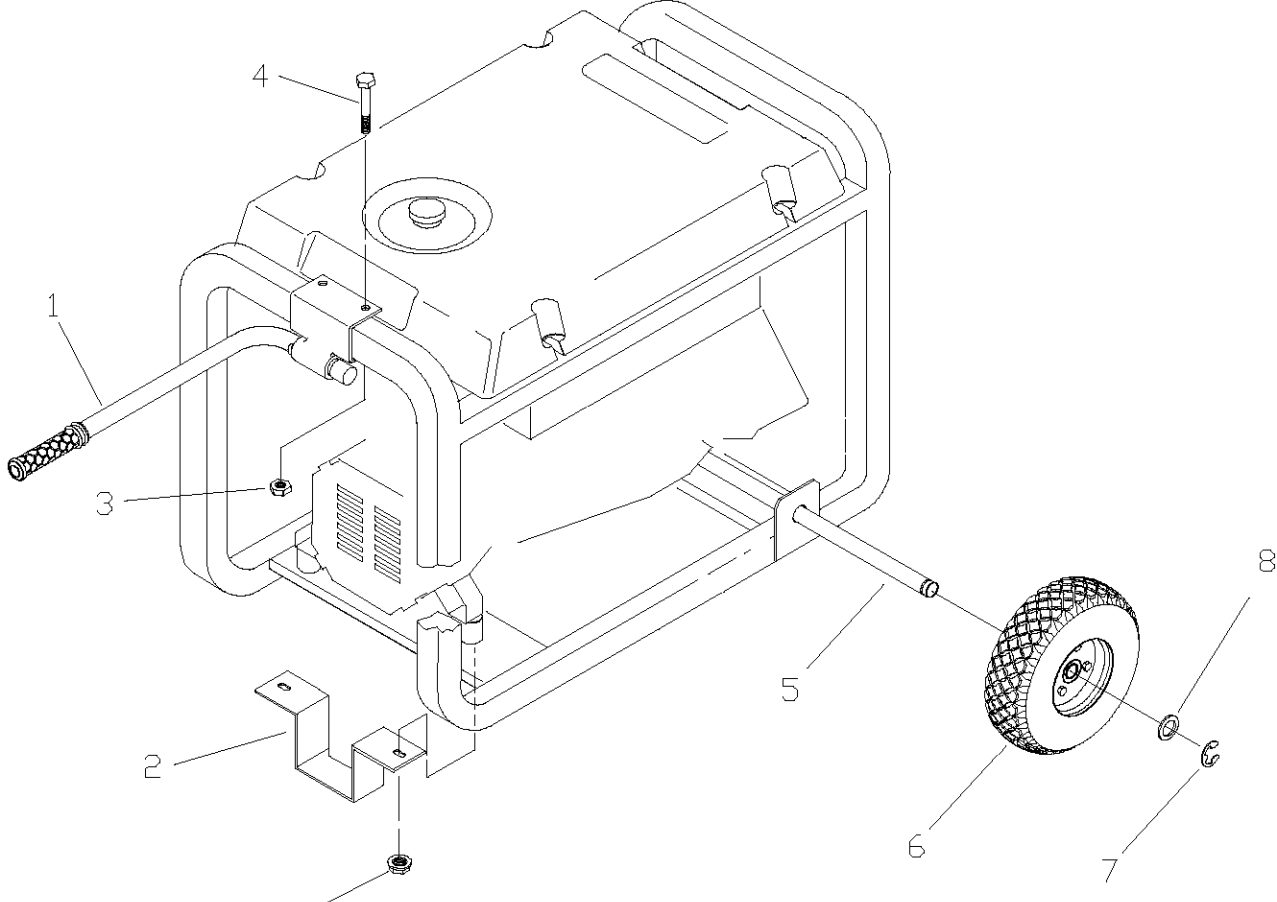
## EXPLODED VIEW AND PARTS LIST – CONTROL PANEL



Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	83976GS	1	PANEL, Control	13	84028GS	1	TRANSFORMER, Idle Control
2	83975GS	1	BOX, Control	14	67022GS	1	GROMMET, Rubber
3	66818GS	2	OUTLET, 120 V AC, 15 A Duplex	15	85584GS	1	BAR, Bus
4	66821GS	1	OUTLET, 12 V DC	16	84543AGS	2	SCREW
5	68867CGS	1	OUTLET, 120/240 V AC, 20 A Locking	17	84543CGS	9	SCREW
6	68868CGS	1	OUTLET, 120 V AC, 30 A Locking	18	84198GS	3	SHIELD, Circuit Breaker
7	75207AGS	1	BREAKER, Circuit	19	84197GS	1	BAR, Circuit Breaker Retaining
8	75207GGS	2	BREAKER, Circuit	21	75476GS	2	SCREW
9	82538GS	1	SWITCH, On/Off Rocker	22	22264GS	4	WASHER, Lock
10	84134GS	1	GROMMET, Rubber	23	51715GS	4	NUT
11	83514GS	1	BREAKER, Circuit	24	84543BGS	10	SCREW
12	83970GS	1	CONTROL BOARD, System	25	84335GS	1	HARNESS, Wire
				26	82542GS	1	BAR, DC Outlet Retaining



# EXPLODED VIEW AND PARTS LIST – WHEEL KIT



USE EXISTING FASTENERS TO SECURE ITEM #2

Item	Part #	Qty	Description
1	189715GS	1	ASSY, Handle
2	B1764GS	1	LEG, Mounting
3	52858GS	2	NUT, Locking
4	39287GS	2	SCREW
5	191267FGS	1	AXLE
6	B4966GS	2	WHEEL
7	191265GS	2	E-RING
8	22247GS	2	WASHER

## LIMITED WARRANTY

### GENERAC PORTABLE PRODUCTS OWNER WARRANTY POLICY Effective October 1, 2001

#### LIMITED WARRANTY

"Generac Portable Products, LLC will repair or replace, free of charge, any part, or parts of the equipment that are defective in material or workmanship or both. Transportation charges on parts submitted for repair or replacement under this Warranty must be borne by purchaser. This warranty is effective for the time periods and subject to the conditions provided for in this policy. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at [www.generac-portables.com](http://www.generac-portables.com) or call 1-877-544-0982. THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE TIME PERIOD SPECIFIED, OR TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state and country to country."

#### WARRANTY PERIOD\*

PRODUCTS**	CONSUMER USE	COMMERCIAL USE
Portable Generator (Side Valve Engine Powered)	1 year	90 days
Portable Generator (Overhead Valve Engine Powered)	2 years (2nd year parts only)	1 year
Electric Powered Pressure Washer	1 year	None
Gasoline Powered Pressure Washer	1 year	90 days

\*The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated in the table above. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once equipment has been used commercially, it shall thereafter be considered to be in commercial use for purposes of this warranty. Used equipment, demonstration equipment and equipment used for prime power in place of a utility are not warranted. Accessory parts such as guns, hoses, wands and nozzles are excluded from the product warranty.

\*\*The gasoline engine and starting batteries are warranted solely by the manufacturers of those products.

**WARRANTY REGISTRATION IS NOT NECESSARY TO OBTAIN WARRANTY ON GENERAC PORTABLE PRODUCTS EQUIPMENT. SAVE YOUR PROOF OF PURCHASE RECEIPT. IF YOU DO NOT PROVIDE PROOF OF THE INITIAL PURCHASE DATE AT THE TIME WARRANTY SERVICE IS REQUESTED, THE MANUFACTURING DATE OF THE EQUIPMENT WILL BE USED TO DETERMINE THE WARRANTY PERIOD.**

#### About your equipment warranty:

Generac Portable Products welcomes warranty repair and apologizes to you for being inconvenienced. Any Authorized Service Dealer may perform warranty repairs. Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. For example, warranty would not apply if equipment damage occurred because of misuse, lack of routine maintenance, shipping, handling, warehousing or improper installation. Similarly, warranty is void if the serial number of the equipment has been removed or the equipment has been altered or modified.

If a customer differs with the decision of the Service Dealer, an investigation will be made to determine whether the warranty applies. Ask the Service Dealer to submit all supporting facts to its Distributor for review. If the Distributor decides that the claim is justified, the customer will be fully reimbursed for those items that are defective. To avoid misunderstandings that might occur between the customer and the Dealer, listed below are some of the causes of equipment failure that the warranty does not cover:

##### Normal wear:

Outdoor Power Equipment, like all mechanical devices, needs periodic parts, service and replacement to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

##### Installation and Maintenance:

This warranty does not apply to equipment or parts that have been subjected to improper or unauthorized installation or alteration, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in Generac Portable Products' judgment, to adversely affect its performance and reliability. This warranty also does not cover normal maintenance such as adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon or lime, etc.).

##### Other Exclusions:

Also excluded from this warranty are wear items such as quick couplers, oil gauges, belts, o-rings, filters, pump packing, etc., pumps which have been run without water supplied or damage or malfunctions resulting from accidents, abuse, modifications, alterations, or improper servicing or freezing or chemical deterioration.

**Warranty is available only through service dealers authorized by Generac Portable Products. This warranty does not apply to service by any other entity.**

**You may locate your nearest Authorized Generac Portable Product Service Dealer in our dealer locator map at [www.generac-portables.com](http://www.generac-portables.com) or call 1-877-544-0982.**

Generac Portable Products Are Made Under One Or More Of The Following Patents: (Other Patents Pending)  
5902094                      5823752                      5718255                      5890413

**Generac Portable Products, LLC**  
**Jefferson, Wisconsin U.S.A.**