GENERAC® Portable Products by Briggs & Stratton POWER PRODUCTS

5000 RATED WATT

PORTABLE GENERATOR

Owner's Manual

Parts Included*

- Generator
- Engine oil
- Owner's manual
- Engine manual

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

Table of Contents

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** or **www.briggsandstratton.com**

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Model No. 1658-0 (5,000 Watt AC Generator) Manual No. 189633GS Revision 1 (08/23/2001)

EQUIPMENT DESCRIPTION

This generator is an engine-driven, revolving field, alternating current (AC) generator. It was designed to supply electrical power for operating compatible electrical lighting, appliance, tool and motor loads.

This manual contains information for a generator that operates 120 and/or 240 Volt AC, single phase, 60Hz devices that require up to 5,000 watts (5.0 kW) of power that pull up to 41.7 Amps at 120 Volts or 20.8 Amps at 240 Volts.

CAUTION! Do Not exceed the generator's wattage/amperage capacity. Add up the rated watts of all devices you will connect to generator receptacles at one time. This total should not be greater than 5,000 watts for this generator. Review "Don't Overload the Generator" on page 8.

The generator's revolving field is driven at about 3,600 rpm by a single-cylinder engine.

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.

CAUTION! Do Not tamper with engine governed speed. High operating speeds are dangerous and increase risk of personal injury or damage to equipment. The generator supplies correct rated frequency and voltage only when running at proper governed speed. Incorrect frequency and/or voltage can damage some connected electrical loads. Operating at excessively low speeds imposes a heavy load. When adequate engine power is not available engine life may be shortened.

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

This generator set was designed and manufactured for specific applications. **Do Not** attempt to modify the unit or use it for any application it was not designed for. If you have any questions about your generator's application, ask your dealer or consult the factory.

The manufacturer could not possibly anticipate every circumstance that might involve a hazard. For that reason warnings in the manual and warnings on tags or decals affixed to the unit are not all–inclusive. If you intend to handle, operate or service the unit by a procedure or method not specifically recommended by the manufacturer, first make sure that such a procedure or method will not render this equipment unsafe or pose a threat to you and others.

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

WARNING:

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

WARNING! You must isolate the generator from the electric utility using approved transfer equipment if this unit is used for backup power. **Failure to isolate the generator from the power utility may result in injury or death to electric utility workers and damage to the generator** due to a backfeed of electrical energy. Whenever unit is providing backup power, the electric utility must be notified.

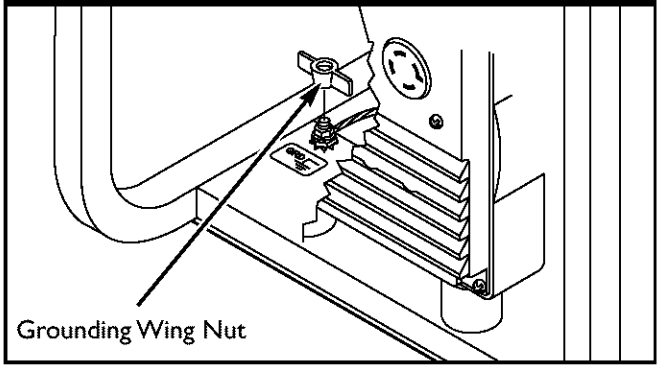
DANGER! Generator exhaust gases contain DEADLY carbon monoxide gas. If breathed in sufficient concentrations, carbon monoxide can cause unconsciousness or death. Operate this equipment outdoors where adequate ventilation is available.

- The generator produces a very powerful voltage that can cause serious injury or death by electrocution. **Never** touch bare wires or receptacles. **Never** permit a child or any unqualified person to operate the generator.
- **Never** handle any kind of electrical cord or device while standing in water, while barefoot or while hands or feet are wet. Death or serious injury from electrocution may result.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area (such as metal decking or steel work).
- **Never** use worn, bare, frayed or otherwise damaged electrical cords with the generator. Death, serious injury and property damage from electrical shock may result.
- **Gasoline is highly FLAMMABLE and its vapors are EXPLOSIVE. Never allow smoking, open flames, sparks or heat in the vicinity while handling gasoline.** Avoid spilling gasoline on a hot engine. Comply with all laws regulating storage and handling of gasoline.
- **Do Not** overfill the fuel tank. Always allow room for fuel expansion. **If tank is overfilled, fuel can overflow onto a hot engine and cause a FIRE or an EXPLOSION.**
- **Never** store a generator with fuel in the tank where gasoline vapors might reach an open flame, spark or pilot light (as on a furnace, water heater, clothes dryer). FIRE or an EXPLOSION may result.
- The unit requires an adequate flow of cooling air for its continued proper operation. **Never** operate the unit inside any room or enclosure where the free flow of cooling air into and out of the unit might be obstructed. Allow at least 2 feet of clearance on all sides of generator, even while operating unit outdoors, or you could damage the unit.
- **Never** start, or stop the unit with electrical loads connected to receptacles with the connected devices turned ON. Start the engine and let it stabilize before connecting any electrical loads. Disconnect all electrical loads before shutting down the generator.
- **Do Not** insert any object through cooling slots of the engine. You could damage the unit or injure yourself.
- **Never operate the generator:** in rain; in any enclosed compartment; when connected electrical devices overheat; if electrical output is lost; if engine or generator sparks; if flame or smoke is observed while unit is running; if unit vibrates excessively.

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 1).

Figure 1 — Grounding Wing Nut



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. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices.

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

If you have any problems with the 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.
- 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.

CARTON CONTENTS

Check all contents. If any parts are missing or damaged, call the generator helpline at **1-800-270-1408.**

- The generator
- Generator and engine owner's manuals
- Engine oil

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.

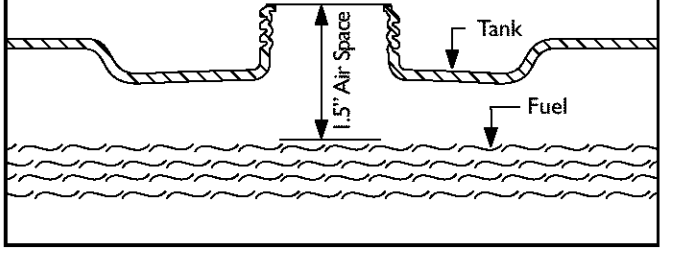
Add Gasoline

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 1.5" of tank space for fuel expansion (Figure 2).

Figure 2 — Typical Fuel Expansion Space



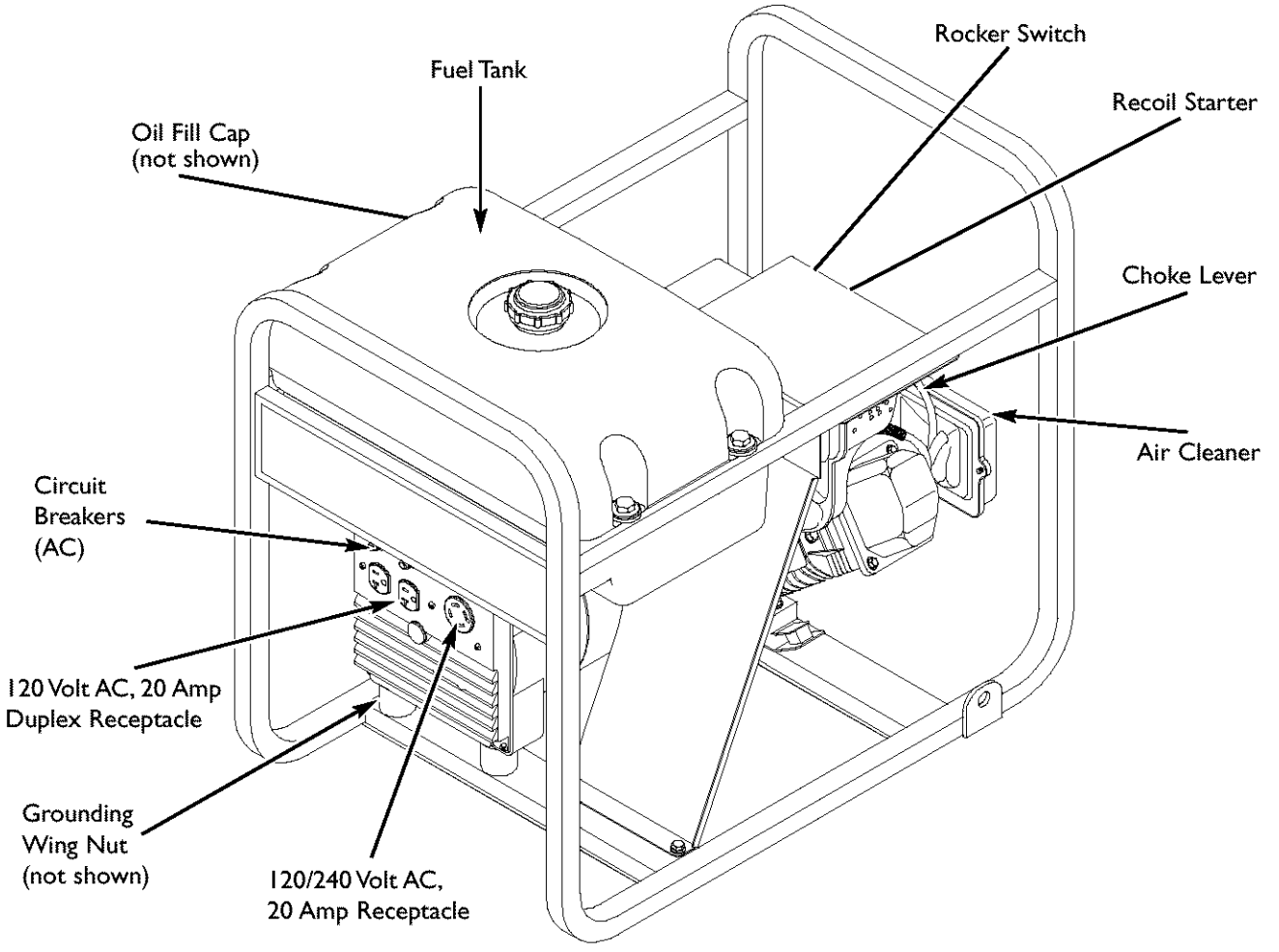
- Install fuel cap and wipe up any spilled gasoline.

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 9. **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.



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

120/240 Volt AC, 20 Amp Locking 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.

Air Cleaner — Uses a dry type filter element and foam pre–cleaner to limit the amount of dirt and dust sucked into the engine.

Choke Lever — Used when starting a cold engine.

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

Fuel Tank — Capacity of five (5) U.S. gallons.

Grounding Wing Nut — Used for proper grounding of unit.

Oil Fill Cap — Add oil to engine here.

Recoil starter — Used to start the engine.

Rocker Switch — Set this switch to "**On**" before using recoil starter. Set switch to "**Off**" to switch off engine.

OPERATING THE GENERATOR

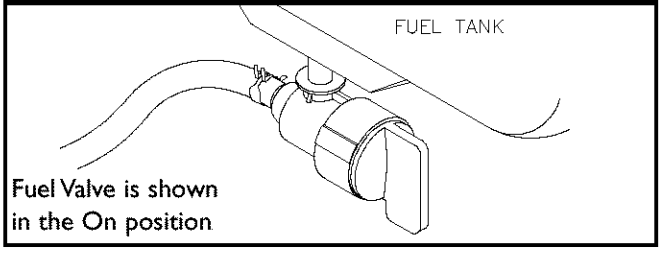
CAUTION! Never start or stop the engine with electrical loads connected to the receptacles AND with the connected devices turned ON.

Starting the Engine

Disconnect all electrical loads from the generator. Use the following start instruction steps by numerical order:

1. Turn the fuel valve to the "**On**" position (Figure 3).

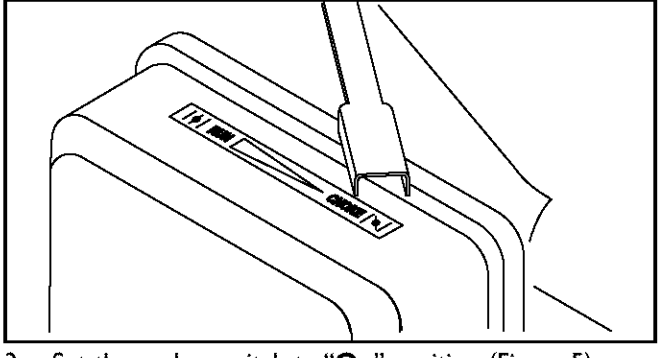
Figure 3 — Fuel Valve



Fuel Valve is shown in the On position

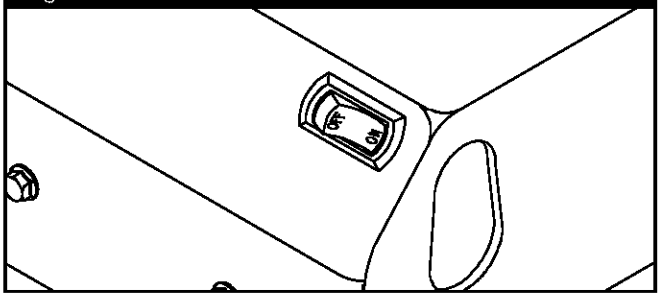
2. Place the choke lever in the "**Choke**" position (Figure 4).

Figure 4 — Choke Lever



3. Set the rocker switch to "**On**" position (Figure 5).

Figure 5 — Rocker Switch



4. Grasp the recoil handle and pull slowly until slight resistance is felt. Then pull rapidly to start engine.
5. Move choke lever to "**Run**" position a short distance at a time over several seconds in warm weather or minutes in cold weather. Let engine run smoothly before each change. Operate with choke in "**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 device which prevents the engine from being started. 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 duplex 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 8.

Stopping the Engine

- Unplug **all** electrical loads from generator panel receptacles. **Never** start or stop engine with electrical devices plugged in and turned **ON**.
- Let engine run at no-load for several minutes to stabilize the internal temperatures of engine and generator.
- Move rocker switch to "**Off**" position.
- Move the fuel valve to the "**Off**" position.

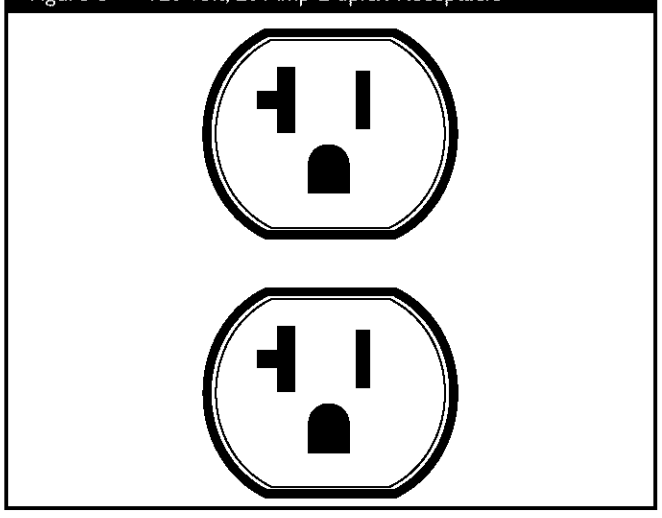
RECEPTACLES

This generator is equipped with the following receptacles:

120 Volt AC, 20 Amp Receptacle

This outlet is protected against overload by 20 Amp push-to-reset circuit breakers.

Figure 6 — 120 Volt, 20 Amp Duplex Receptacle

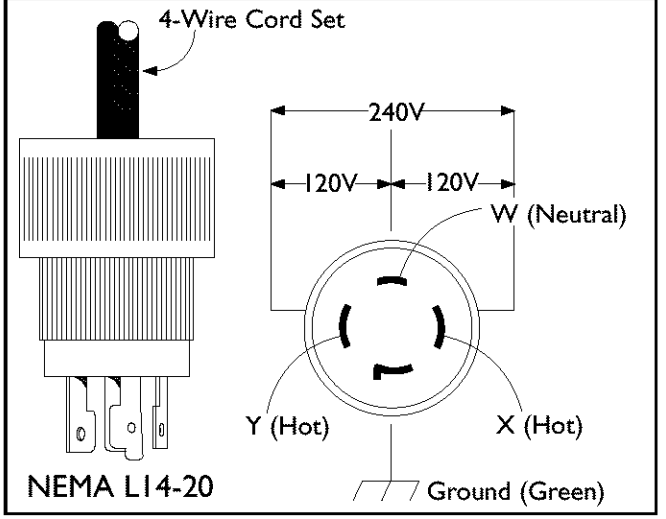


Use each socket to operate 120 Volt AC, single phase, 60 Hz electrical loads requiring up to 2,400 watts (2.4kW) of power at 20 Amps (Figure 6). Use cord sets that are rated 125 Volts at 20 Amps (or greater).

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 AC at 20 Amps (or greater). You can use the same 4-wire cord if you plan only to run a 120 Volt load (Figure 7).

Figure 7 — 120/240 Volt AC, 20 Amp Receptacle



This receptacle powers 120 Volt AC, single phase, 60Hz loads requiring up to 2,400 watts of power (2.4 kW). Or it will operate 240 Volt AC, single phase, 60Hz loads up to 4,800 watts (4.8 kW). This outlet is protected by 20 Amp push-to-reset circuit breakers.

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 8.
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 it's 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 8 - Wattage Reference Chart

Tool or Appliance	Rated* (Running) Watts	Additional Surge (Starting) Watts
Essentials		
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
Heating/Cooling		
Window AC - 10,000 BTU	1200	1800
Window Fan	300	600
Furnace Fan Blower - 1/2 HP	800	1300
Kitchen		
Microwave Oven - 1000 Watt	1000	-
Coffee Maker	1500	-
Electric Stove - Single Element	1500	-
Hot Plate	2500	-
Family Room		
DVD/CD Player	100	-
VCR	100	-
Stereo Receiver	450	-
Color Television - 27"	500	-
Personal Computer w/17" monitor	800	-
Other		
Security System	180	-
AM/FM Clock Radio	300	-
Garage Door Opener - 1/2 HP	480	520
Electric Water Heater - 40 Gallon	4000	-
DIY/Job Site		
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/Jointer - 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 ..... 6,250 watts
Continuous Wattage Capacity ..... 5,000 watts
Power Factor 1.0
Rated Maximum Continuous AC Load Current:
At 120 Volts ..... 41.7 Amps
At 240 Volts ..... 20.8 Amps
Phase 1–phase
Rated Frequency ..... 60 Hertz
Fuel Tank Capacity ..... 5 U.S. gallons
Shipping Weight ..... 158 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

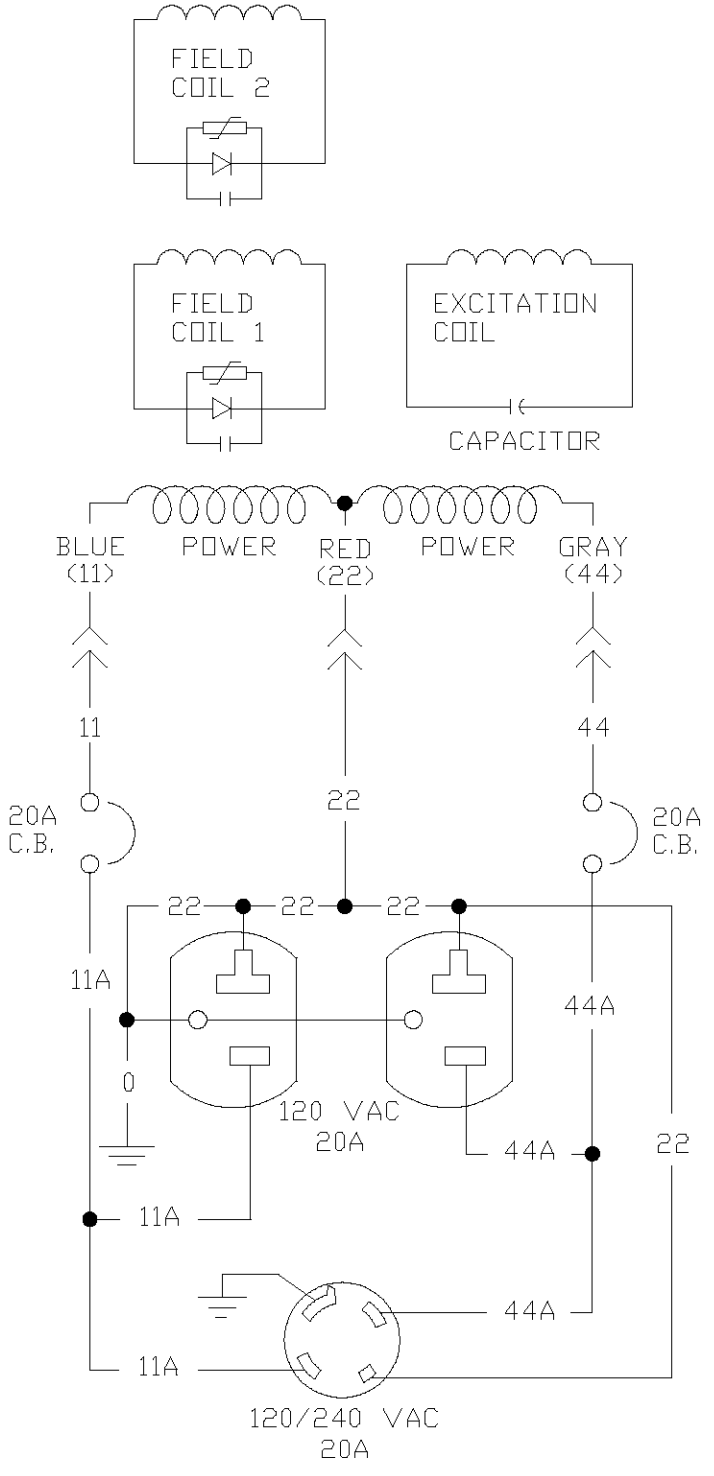
- **Do Not** store gasoline from one season to another.
- Replace fuel container if it starts to rust. Rust and/or dirt in fuel can cause problems if it's used with this unit.
- Store in clean and dry area.

TROUBLESHOOTING

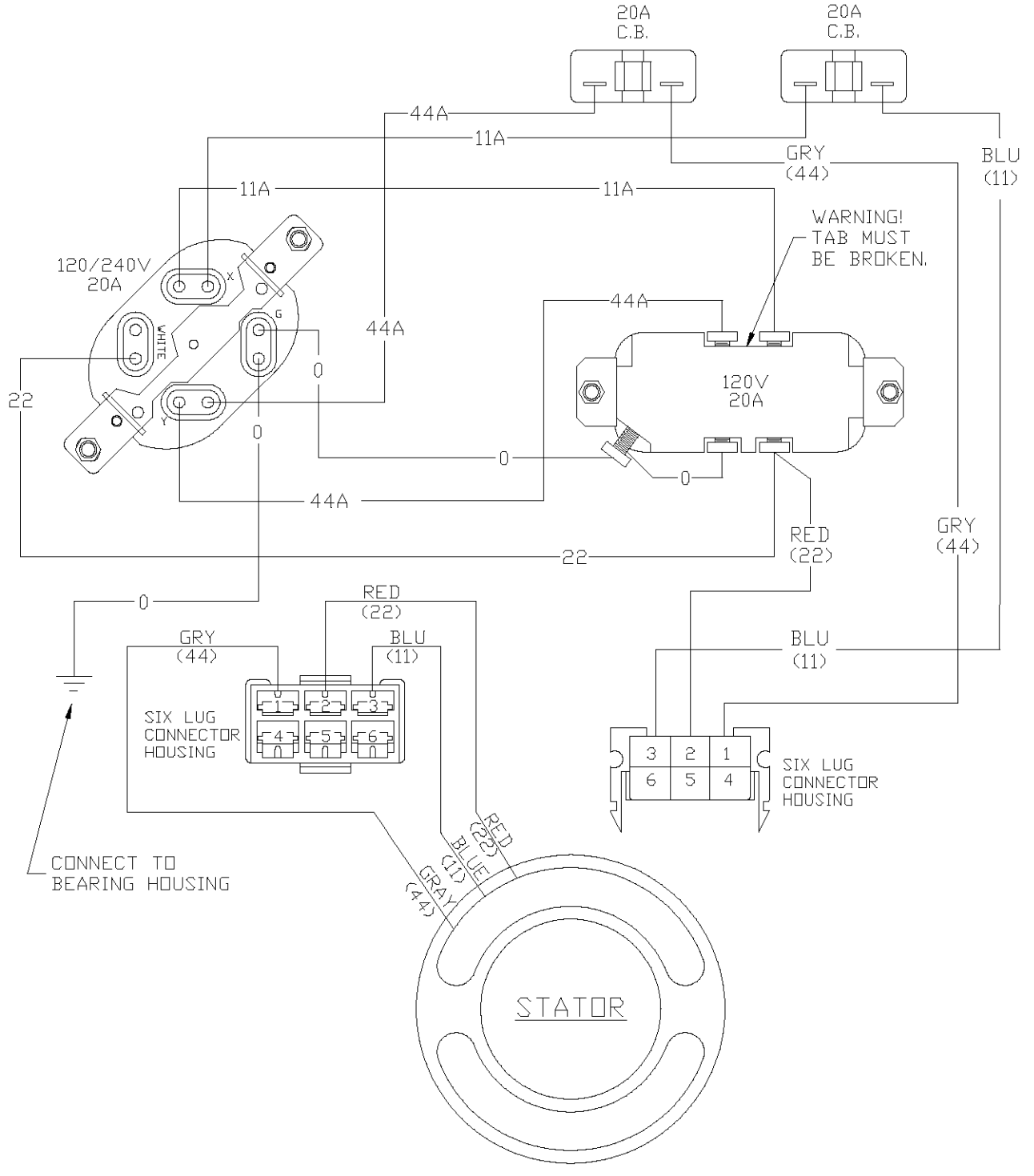
Problem	Cause	Solution
Engine is running, but no AC output is available.	1. Circuit breaker is open. 2. Poor connection or defective cord set. 3. Connected device is bad. 4. Fault in generator.	1. Reset circuit breaker. 2. Check and repair. 3. Connect another device that is in good condition. 4. Contact Generac service facility.
Engine runs good but bogs down when loads are connected.	1. Short circuit in a connected load. 2. Generator is overloaded. 3. Engine speed is too slow. 4. Shorted generator circuit.	1. Disconnect shorted electrical load. 2. See "Don't Overload the Generator" on page 8. 3. Contact Briggs and Stratton service facility. 4. Contact Generac service facility.
Engine will not start; or starts and runs rough.	1. Rocker switch set to "**Off**". 2. Dirty air cleaner. 3. Out of gasoline. 4. Stale gasoline. 5. Spark plug wire not connected to spark plug. 6. Bad spark plug. 7. Water in gasoline. 8. Overchoking. 9. Low oil level. 10. Excessively rich fuel mixture. 11. Intake valve stuck open or closed. 12. Engine has lost compression.	1. Set switch to "**On**". 2. Clean or replace air cleaner. 3. Fill fuel tank. 4. Drain gas tank and fill with fresh fuel. 5. Connect wire to spark plug. 6. Replace spark plug. 7. Drain gas tank; fill with fresh fuel. 8. Set choke to "Off" position. 9. Fill crankcase to proper level. 10. Contact Briggs and Stratton service facility. 11. Contact Briggs and Stratton service facility. 12. Contact Briggs and Stratton service facility.
Engine shuts down during operation.	1. Out of gasoline. 2. Fault in engine.	1. Fill fuel tank. 2. Contact Briggs and Stratton service facility.
Engine lacks power.	1. Load is too high. 2. Dirty air filter. 3. Engine needs to be serviced.	1. See "Don't Overload the Generator" on page 8. 2. Replace air filter. 3. Contact Briggs and Stratton service facility.
Engine "hunts" or falters.	1. Choke is opened too soon. 2. Carburetor is running too rich or too lean.	1. Move choke to halfway position until engine runs smoothly. 2. Contact Briggs and Stratton service facility.

NOTES

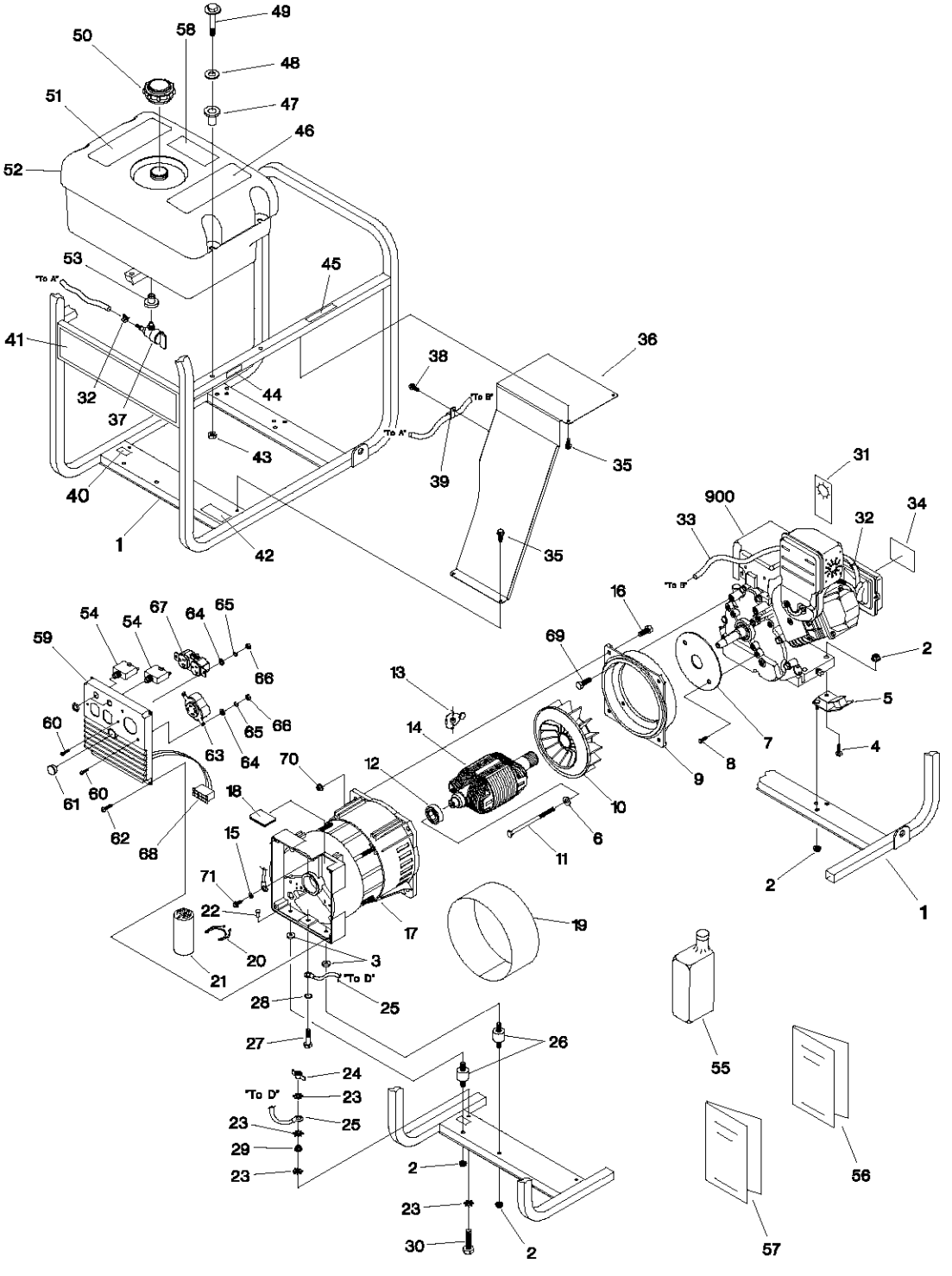
SCHEMATIC


FIELD COIL 2
FIELD COIL 1
EXCITATION COIL
CAPACITOR
BLUE (11)
POWER
RED (22)
POWER
GRAY (44)
11
44
22
20A C.B.
20A C.B.
22
22
22
11A
44A
0
120 VAC 20A
44A
22
11A
44A
11A
120/240 VAC 20A

WIRING DIAGRAM



EXPLODED VIEW – MAIN UNIT



PARTS LIST – MAIN UNIT

Item	Part #	Qty	Description
1	B189553GS	1	CRADLE
2	67989GS	8	NUT, M8 Flange Serrated
3	189626GS	2	SPACER
4	84346GS	2	PPHMS, M8 -1.25 x 35 mm
5	70642GS	2	MOUNT,Vibration 45 Deg.
6	96796GS	1	WASHER, 22.2 OD X 8.4 ID x 3
7	BB4260GS	1	DISK, Engine Air
8	86307GS	2	HHCS, 5/16 x 3/4, SEMS
9	189750GS	1	ADAPTER, Engine/Alt, Sincro
10	189749GS	1	FAN, Sincro
11	189825GS	1	HHCS, 5/16 - 24 x 7 1/2"
12	189757GS	1	BEARING, Ball
13	A1816GS	1	ASSEMBLY, Diode/Varistor
14	189751GS	1	ROTOR, Sincro
15	23762GS	1	WASHER, Shakeproof #10
16	39253GS	4	HHCS, M8 - 1.25 x 20
17	189752GS	1	STATOR, Sincro
18	189758GS	1	COVER, RBC Opening
19	189755GS	1	COVER, Stator
20	189754GS	1	CLIP, Capacitor
21	A1817AGS	1	CAPACITOR, 35, UF
22	189824GS	1	CAP, M8 THD
23	26850GS	4	WASHER, M6 Shakeproof
24	87680GS	1	WING NUT, M6 - 1.0
25	19553621GS	1	WIRE, Ground
26	85652GS	2	MOUNT,Vibration
27	42907GS	1	CAPSCREW, M8 - 1.25 x 16
28	27482GS	1	WASHER, 5/16" Shakeproof
29	49813GS	2	NUT, Hex M6 - 1.0
30	45757GS	1	HHCS, M6 - 1.0 x 25
31	70453GS	1	TAG, Oil Warning
32	48031CGS	2	CLAMP, Hose 1/2"
33	189867CGS	1	HOSE, 1/4" x 21" I.D. SAE-30R7
34	189878GS	1	DECAL,Air Cleaner
35	B2153GS	4	SCREW, Self Drill 12-14 x 7/8"
36	J189055GS	1	HEAT SHIELD, Muffler
37	80270GS	1	VALVE, Fuel
38	56893GS	1	CRIMPTITE, #10-24 x 1/2"
39	55934GGS	1	CLAMP,Vinyl Coated
40	B4986GS	1	DECAL, Ground
41	189637GS	1	DECAL, Panel
42	20566GS	1	DECAL, 1-800
43	77395GS	4	NUT, M6 Flange Lock
44	73054GS	1	DECAL, Fuel Shut-Off
45	77816GS	1	DECAL, Caution Hot Muffler
46	189235GS	1	DECAL, Start Instruction
47	188973GS	4	GROMMET, Mounting Tank
48	189155GS	4	WASHER, Flat, 6.6 x 21.6 x 1.9
49	189286GS	4	HHCS, M6 -1.0 x 45
50	90878GS	1	CAP, Fuel
51	92982GS	1	DECAL, Danger
52	188797GS	1	TANK, Fuel, 5 Gallon (Includes Items 37 & 53)
53	78299GS	1	BUSHING, Fuel Tank
54	75207GS	2	BREAKER, Circuit, 20 Amp
55	BB3061GS	1	OIL BOTTLE
56	189633GS	1	MANUAL, Generator
57	188826GS	1	MANUAL, Engine
58	188333GS	1	DECAL, Gas Tank Fill
59	189624GS	1	PANEL, Control, Sincro
60	75475GS	4	PPHMS, M4 - 0.7 x 10
61	B4911GS	1	CAP
62	91526GS	4	PPMS, M5 - .8 x 12
63	68867GS	1	OUTLET, 120/240V 20A Locking
64	22985GS	4	WASHER, M4 Flat
65	22264GS	4	WASHER, M4 Lock
66	51715GS	4	NUT, M4 - 0.7
67	68759GS	1	OUTLET, 120V/20A, Duplex
68	189625GS	1	HARNESS,Wire, Sincro
69	29745GS	4	HHCS, 3/8" - 16 x 1
70	49820GS	4	NUT, Nylok, M8 - 1.25
71	74908GS	1	TAPTITE, M5 - 0.8 x 10
900	NSP	1	ENGINE

LIMITED WARRANTY
FOR PORTABLE GENERATORS

GENERAC PORTABLE PRODUCTS, LLC (hereafter referred to as the COMPANY) warrants to the original purchaser that the components in its portable generator will be free from defects in materials or workmanship for the items and period set forth below from the date of original purchase. This warranty does not include the gasoline engine when furnished or attached because such engine is covered solely by the engine manufacturer's warranty. Starting batteries are not warranted by the COMPANY. The term "original purchaser" means the person for whom the generator is originally purchased. This warranty is not transferable and applies only to portable generators driven by an overhead valve engine.

Warranty Schedule:

	Consumer*	**Commercial***
Engine	Warranted solely by the engine manufacturer	
All other parts	2 years (2nd year parts only)	1 Year

With the exception of European Community Countries, all units bound for export shall be warranted for One (1) Year in Consumer applications, and 90 days in Commercial applications as defined below.

***NOTE: For the purpose of this warranty "consumer use" means personal residential household use by original purchaser. This warranty does not apply to units used for prime power in place of utility. "Commercial Use" means all other uses, including rental, construction, commercial and income producing purposes. Once a generator has experienced commercial use, it shall thereafter be considered a commercial use generator for the purposes of this warranty.**

During the warranty period, the COMPANY will, at is option, repair or replace any part which, upon examination by the COMPANY, is found to be defective under normal use and service**. All transportation costs under warranty, including return to the factory if necessary, are to be borne by the purchaser and prepaid by the purchaser. This warranty does not cover normal maintenance and service and does not apply to a generator set, alternator, or parts which have been subjected to improper or unauthorized installation or alteration, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in the COMPANY's judgement, to adversely affect its performance and reliability.

****NORMAL WEAR: As with all mechanical devices, the generator needs periodic parts service and replacement to perform well. This warranty will not cover repair when normal wear has exhausted the life of a part or generator.**

THERE IS NO OTHER EXPRESS WARRANTY. THE COMPANY HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT PERMITTED BY LAW. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD AS SPECIFIED IN THE EXPRESS WARRANTY. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED. THE COMPANY ALSO DISCLAIMS ANY RESPONSIBILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SUCH AS THE LOSS OF TIME OR THE USE OF THE POWER EQUIPMENT, OR ANY COMMERCIAL LOSS DUE TO THE FAILURE OF THE EQUIPMENT: AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions 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.

For service, see your nearest COMPANY authorized warranty service facility or call 1-877-544-0982. Or look on the internet at www.generac-portables.com. Warranty service can be performed only by a COMPANY authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.