

Portable Generator Operator's Manual





This generator is certified in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-04 (motors and generators) and rated in accordance with PGMA (Portable Generator Manufacturers' Association) standard PGMA G200 (Standard for Testing and Validating Performance of Portable Generators).

Thank you for purchasing this quality-built Briggs & Stratton® generator. We are pleased that you've placed your confidence in the Briggs & Stratton brand. When operated and maintained according to the instructions in this manual, your Briggs & Stratton generator will provide many years of dependable service.

This manual contains safety information to make you aware of the hazards and risks associated with generator products and how to avoid them. This generator is designed and intended only for supplying electrical power for operating compatible electrical lighting, appliances, tools and motor loads, and is not intended for any other purpose. It is important that you read and understand these instructions thoroughly before attempting to start or operate this equipment. Save this original manual for future reference.

This generator requires final assembly before use. Refer to the *Assembly* section of this manual for instructions on final assembly procedures. Follow the instructions completely.

Where to Find Us

Generator

You never have to look far to find Briggs & Stratton support and service for your generator. Consult your Yellow Pages. There are over 30,000 Briggs & Stratton authorized service dealers worldwide who provide quality service. You can also contact Briggs & Stratton Customer Service by phone at (800) 743-4115, or on the Internet at BRIGGSandSTRATTON.COM.

Model Number Revision Serial Number Engine Model Number Type Number Code Number Date Purchased

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Milwaukee, WI, USA

Table of Contents

Oper	ator Safety	ļ
E	quipment Description	4
	nportant Safety Information	
N	bl	,
ASSE	mbly	_
	npack Generator	
	hipment Contents	
	stall Wheel Kit	
	dd Engine Oil	
	dd Fuel	
S	ystem Ground	9
C	onnecting to a Building's Electrical System	9
G	enerator Location	9
Feati	res and Controls	1
	ord Sets and Receptacles	
Oper	ation	2
S	tarting the Engine	2
C	onnecting Electrical Loads1	3
S	topping the Engine	3
D	on't Overload Generator	4
Ma:		_
	tenance	
	laintenance Schedule1	
	enerator Maintenance	
	uel Valve Maintenance	
	ngine Maintenance10	
	torage	
[roul	oleshooting	1
S	chematic	1
	anties	
Ε	missions Control System Warranty	4
G	enerator Owner Warranty	6
enoo.	ifications	
	ifications	
	roduct Specifications	

Operator Safety

Equipment Description



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

The 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.

NOTICE Exceeding generators wattage/amperage capacity could damage generator and/or electrical devices connected to it.

 DO NOT exceed the generator's wattage/amperage capacity. See Don't Overload Generator in the Operation section.

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

The Emission Control System for this generator is warranted for standards set by the Environmental Protection Agency and the California Air Resources Board.

Important Safety Information

The manufacturer cannot possibly anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and the tags and decals affixed to the unit are, therefore, not all-inclusive. If you use a procedure, work method or operating technique that the manufacturer does not specifically recommend, you must satisfy yourself that it is safe for you and others. You must also make sure that the procedure, work method or operating technique that you choose does not render the generator unsafe.

Safety Symbols and Meanings







Toxic Fumes

Kickback

Electrical Shock





Fire

Explosion

Operator's Manual







Moving Parts

Flying Objects

Hot Surface

A The safety alert symbol indicates a potential personal injury hazard. A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to designate a degree or level of hazard seriousness. A safety symbol may be used to represent the type of hazard. The signal word NOTICE is used to address practices not related to personal

A DANGER indicates a hazard which, if not avoided, will result in death or serious injury.

A WARNING indicates a hazard which, if not avoided. could result in death or serious injury.

A CAUTION indicates a hazard which, if not avoided, could result in minor or moderate injury.

NOTICE address practices not related to personal injury.

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

A WARNING Certain components in this product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

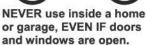
▲ DANGER

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.

A WARNING POISONOUS GAS HAZARD. Engine



exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not

smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Operate this product ONLY outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. Smoke alarms cannot detect carbon monoxide gas.
- DO NOT run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces.

If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

A WARNING Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in

serious injury.

- · When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- NEVER start or stop engine with electrical devices plugged in and turned on.



A WARNING Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death or serious injury.

WHEN ADDING OR DRAINING FUEL

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- DO NOT light a cigarette or smoke.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, fuel cap, and air cleaner are in
- DO NOT crank engine with spark plug removed.

WHEN OPERATING EQUIPMENT

- DO NOT operate this product inside any building, carport, porch, mobile equipment, marine applications, or enclosure.
- DO NOT tip engine or equipment at angle which causes fuel to
- DO NOT stop engine by moving choke control to "Choke" position (|\lambda|).

WHEN TRANSPORTING, MOVING OR REPAIRING EQUIPMENT

- Transport/move/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- Disconnect spark plug wire.

WHEN STORING FUEL 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 could ignite fuel vapors.

WARNING

- This generator does not meet U. S. Coast Guard Regulation 33CFR-183 and should not be used on marine applications.
- Failure to use the appropriate U. S. Coast Guard approved generator could result in death or serious injury.

WARNING Generator voltage could cause electrical shock or burn resulting in death or serious injury.

- Use listed transfer equipment, suitable for the intended use, to prevent backfeed by isolating generator from electric utility
- When using generator for backup power, notify utility company.
- 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 or wet weather.
- 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 Exhaust heat/gases could ignite



combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

Contact with muffler area could cause burns resulting in serious injury.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered. brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws.

Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.

Replacement parts must be the same and installed in the same position as the original parts.



WHEN ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR

 Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

- · Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

WARNING Starter and other rotating parts could entangle hands, hair, clothing, or accessories resulting in serious injury.

- NEVER operate generator without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that could be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

A CAUTION Excessively high operating speeds could result in minor injury.

Excessively low operatingspeeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine speed. Generator supplies correct rated frequency and voltage when running at governed speed.
- DO NOT modify generator in any way.

NOTICE Exceeding generators wattage/amperage capacity could damage generator and/or electrical devices connected to it.

- DO NOT exceed the generator's wattage/amperage capacity. See Don't Overload Generator in the Operation section.
- 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.

NOTICE Improper treatment of generator could damage it and shorten its life.

- · Use generator only for intended uses.
- · If you have questions about intended use, ask dealer or contact local service center.
- 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.

Assembly

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 **1-800-743-4115**. If calling for assistance, please have the model, revision, and serial number from the identification label available. See *Generator Controls and Features* for identification label location.

Unpack Generator

- 1. Set the carton on a rigid, flat surface.
- 2. Remove everything from carton except generator.
- Open carton completely by cutting each corner from top to bottom.
- 4. Leave generator on carton to install wheel kit.

Shipment Contents

The generator is supplied with:

- · Engine oil bottle
- · Operator's manual
- · Wheel kit

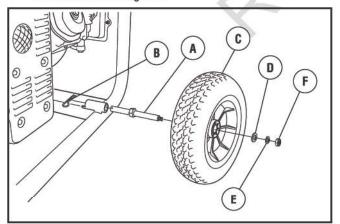
Install Wheel Kit

NOTICE Wheel kit is not intended for over-the-road use. You will need the following tools to install these components:

- · 13 mm and 18 mm wrench
- · Socket wrench with 10 mm and 18 mm sockets

Install the wheel kit as follows:

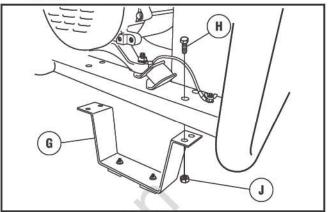
- 1. Tip generator so that engine side is down.
- 2. Slide axle stud (A) through mounting bracket with threaded end facing out.



- 3. Insert retaining pin (B) through hole on axle stud.
- 4. Slide a wheel (C) over axle stud.

NOTICE Be sure to install wheel with raised hub inboard.

- Attach wheel to axle stud with a washer (D), lock washer (E) and nut (F). Tighten with a 18 mm socket wrench and 18 mm wrench.
- 6. Repeat steps 2 through 5 to secure second wheel.
- Line up holes in support leg (G) with holes in generator frame.



- Attach support leg using 4 capscrews (H) and 4 hex nuts (J). Tighten with a 10 mm socket wrench and 13 mm wrench.
- Return generator to normal operating position (resting on wheels).

Add Engine Oil

- 1. Place generator on a flat, level surface.
- 2. Clean area around oil fill and remove yellow oil fill cap.
- Using oil funnel (optional), slowly pour contents of provided oil bottle into oil fill opening.

NOTICE Improper treatment of generator could damage it and shorten its life.

- DO NOT attempt to crank or start the engine before it has been properly serviced with the recommended oil. This could result in an engine failure.
 - 4. Replace oil fill cap and fully tighten.

Add Fuel

Fuel must meet these requirements:

- · Clean, fresh, unleaded gasoline.
- A minimum of 87 octane/87 AKI (91 RON). For high altitude use, see High Altitude.
- Gasoline with up to 10% ethanol (gasohol) is acceptable.

NOTICE Use of unapproved fuels could damage generator and voids warranty.

- · DO NOT use unapproved gasoline such as E15 and E85.
- DO NOT mix oil in gasoline or modify engine to run on alternate fuels.

To protect the fuel system from gum formation, mix in a fuel stabilizer when adding fuel. See *Storage*. All fuel is not the same. If you experience starting or performance problems after using fuel, switch to a different fuel provider or change brands. This engine is certified to operate on gasoline. The emission control system for this engine is EM (Engine Modifications).

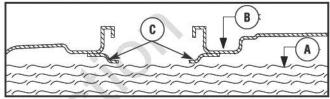
WARNING



Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death or serious injury.

WHEN ADDING FUEL

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- · Fill fuel tank outdoors.
- · DO NOT overfill tank. Allow space for fuel expansion.
- · If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- · DO NOT light a cigarette or smoke.
 - Clean area around fuel fill cap, remove cap.
- Slowly add unleaded gasoline (A) to fuel tank (B). Be careful not to fill above the baffle (C). This allows adequate space for fuel expansion as shown.



Install fuel cap and let any spilled fuel evaporate before starting engine.

High Altitude

At altitudes over 5,000 feet (1524 meters), a minimum 85 octane / 85 AKI (89 RON) gasoline is acceptable. To remain emissions compliant, high altitude adjustment is required. Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions. See an authorized dealer for high altitude adjustment information. Operation of the engine at altitudes below 2,500 feet (762 meters) with the high altitude kit is not recommended.

System Ground

The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The system ground is connected to the AC neutral wire (the neutral is bonded to the generator frame).

Special Requirements

There may be Federal or State Occupational Safety and Health Administration (OSHA) regulations, local codes, or ordinances that apply to the intended use of the generator. Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction:

- In some areas, generators are required to be registered with local utility companies.
- If the generator is used at a construction site, there may be additional regulations which must be observed.

Connecting to a Building's Electrical System

Connections for standby power to a building's electrical system must use a listed transfer switch installed by a current licensed electrician. The connection must isolate the generator power from the utility power and must comply with all applicable laws and electrical codes.

WARNING Generator voltage could cause electrical shock or burn resulting in death or serious injury.

- Use listed transfer equipment, suitable for the intended use, to prevent backfeed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.
- 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 or wet weather.
- 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.

Generator Location

Carbon Monoxide Poisoning

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.

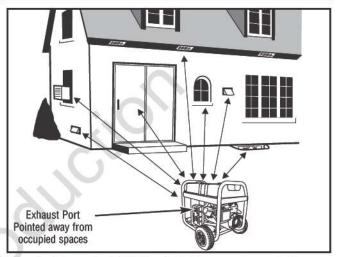








NEVER use inside a home or garage, EVEN IF doors and windows are open. Only use OUTSIDE and far away from windows, doors, and vents.



Operate this product ONLY outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces. Install/maintain battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. DO NOT run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. ALWAYS place this product downwind and point the engine exhaust away from occupied spaces.

Risk of Fire Clearances

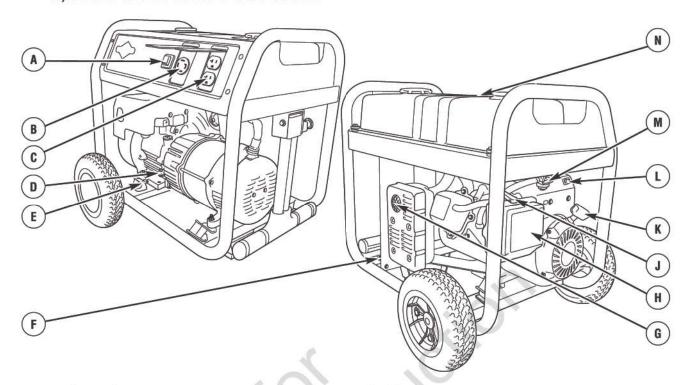
warning Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

 Keep at least 5 ft. (1.5 m) clearance on all sides of generator including overhead.

Features and Controls

Read this Operator'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.



- A Rocker Switch Circuit Breaker A double pole circuit breaker is provided to protect the generator against electrical overload.
- B 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.
- C 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.
- D Oil Fill Cap Check and add engine oil here.
- E Oil Drain Plug Drain engine oil here.
- F Grounding Fastener Consult your local agency having jurisdiction for grounding requirements in your area.
- G Spark Arrester Muffler Exhaust muffler lowers engine noise and is equipped with a spark arrester screen.

- H Air Cleaner Protects engine by filtering dust and debris out of intake air.
- J Choke Lever Used when starting a cold engine.
- K Recoil Starter Used to start the engine manually.
- L Engine Rocker Switch Set this switch to ON or I before using recoil starter. Set switch to OFF or O to switch off engine.
- M Fuel Valve Used to turn fuel supply on and off to engine.
- N Fuel Tank Capacity of four (4) U.S. gallons (15.14 I).

Items Not Shown:

Engine Identification — Provides model, type and code of engine. Please have these readily available if calling for assistance.

Identification Label — Provides model and serial number of generator. Please have these readily available if calling for assistance.

Cord Sets and Receptacles

Use only high quality, well-insulated, grounded extension cords with the generator's receptacles. Inspect extension cords before each use.

Check the ratings of all extension cords before you use them. Extension cord sets used should be rated for AC loads 20 Amps or greater. Check operator's manuals of devices to be powered for the manufacturer's recommendations.

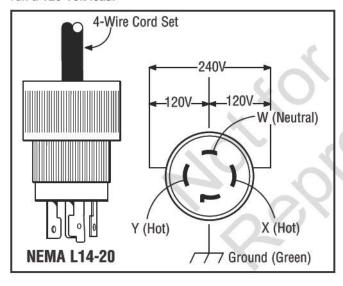
Keep extension cords as short as possible to minimize voltage drop.

warning Damaged or overloaded electrical cords could overheat, arc, and burn resulting in death or serious injury.

- · ONLY use cords rated for your loads.
- · Follow all safeties on electrical cords.
- · Inspect cord sets before each use.

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



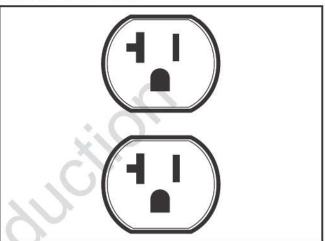
This receptacle powers 120/240 Volt AC, 60 Hz, single phase loads requiring up to 3,500 watts of power (3.5 kW) at 14.5 Amps for 240 Volts or two independent 120 Volt loads at 14.5 Amps each. The outlet is protected by a 2 pole rocker switch circuit breaker.

NOTICE Receptacles may be marked with rating value greater than generator output capacity.

- NEVER attempt to power a device requiring more amperage than generator or receptacle can supply.
- DO NOT overload the generator. See Don't Overload Generator.

120 Volt AC, 20 Amp, Duplex Receptacle

The duplex receptacle is protected against overload by a double pole circuit breaker.



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

Operation

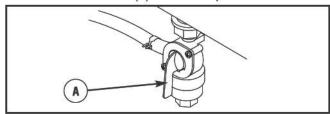
Starting the Engine

Disconnect all electrical loads from the generator. Use the following start instructions:

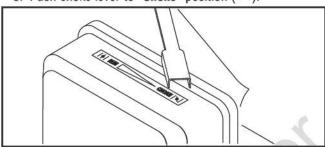
Make sure unit is on a level surface.

NOTICE Failure to start and operate the unit on a level surface could cause the unit not to start or shut down during operation.

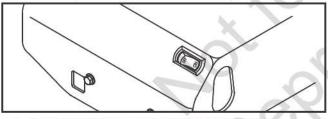
2. Turn the fuel valve (A) to the "On" position.



3. Push choke lever to "Choke" position (\ \).



4. Push engine rocker switch to ON or I position.



- 5. Grasp 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.

A WARNING Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- NEVER start or stop engine with electrical devices plugged in and turned on.

- 6. Move choke lever to "Half" choke position, and pull recoil handle twice.
 - If engine fails to start, repeat steps 5 thru 7.
- 7. Slowly move choke lever to "Run" position (1+1). If engine falters, move choke lever to "Half" choke position until engine runs smoothly, and then to "Run" position (1+1).

NOTICE If engine floods, place choke lever in "Run" position (|+|) and crank until engine starts.

NOTICE If engine starts after 3 pulls but fails to run, or if unit shuts down during operation, make sure unit is on a level surface and check for proper oil level in crankcase. This unit may be equipped with a low oil protection device. If so, oil must be at proper level for engine to start.

▲ WARNING Exhaust heat/gases could ignite



combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

Contact with muffler area could cause burns resulting in serious injury.

- · DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered. brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws.

Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.

Replacement parts must be the same and installed in the same position as the original parts.

Connecting Electrical Loads

- Let engine stabilize and warm up for a few minutes after starting.
- 2. Plug in and turn on the desired 120 and/or 240 Volt AC, single phase, 60 Hz electrical loads.

NOTICE

- 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 Generator.

NOTICE Exceeding generators wattage/amperage capacity could damage generator and/or electrical devices connected to it

- DO NOT exceed the generator's wattage/amperage capacity. See Don't Overload Generator in the Operation section.
- 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.

Stopping the Engine

- Turn OFF and 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 internal temperatures of engine and generator.
- 3. Push engine rocker switch to **OFF** or **O** position.

WARNING Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death or serious injury.

- DO NOT stop engine by moving choke control to "Choke" position (|\lambda|).
- 4. Move fuel valve to "Off" position.

Don't Overload 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.
- Total the rated (running) watts of these items. This is the amount of power your generator must produce to keep your items running. See the table on the right.
- 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 (Rated) Watts	Additional Starting (Surge) Watts
Water Well Pump	1200	2100
Refrigerator	700	2200
Furnace Fan	800	2350
Television	500	
Light (75 Watts)	75	_
	3275 Total Running Watts	2350 Highest Starting Watts

Total Rated (Running) Watts = 3275 Highest Additional Starting (Surge) Watts = 2350 Total Generator Output Required = 5625

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:

- 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.
- 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 Guide		
Tool or Appliance	Running* (Rated) Watts	Additional Starting (Surge) Watts
Essentials		
Light Bulb - 75 watt	75	
Furnace Fan Blower - 1/2 HP	800	2350
Sump Pump - 1/3 HP	800	1300
Refrigerator/Freezer	700	2200
Water Well Pump - 1/2 HP	1000	2100
Heating/Cooling		
Window AC - 10,000 BTU	1200	3600
Humidifier - 13 Gal	175	
Central AC - 24,000 BTU	3800	11400
Kitchen		
Microwave Oven - 1000 Watt	1000	-
Coffee Maker	1000	_
Electric Stove - 8" Element	2100	
Toaster	850	_
Family Room		
DVD/CD Player	100	
VCR	100	-
Stereo Receiver	450	<u>(11)</u>
Color Television - 27 in	500	
Personal Computer w/17 in monitor	800	I
Other		
Security System	500	_
AM/FM Clock Radio	100	
Garage Door Opener - 1/2 HP	875	2350
Electric Water Heater	4700	11700
DIY/Job Site		
Quartz Halogen Work Light	1000	_
Airless Sprayer - 1/3 HP	600	1200
Reciprocating Saw	960	_
Electric Drill - 1/2 HP, 5.4 Amps	600	900
Circular Saw - 7-1/4 in	1400	2300
Miter Saw - 10 in	1800	1800
Table Planer - 6 in	1800	1800
Table Saw/Radial Arm Saw - 10 in	2000	2000
Air Compressor - 1 HP	1600	4500

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

^{*} Wattages listed are approximate only. Check tool or appliance for actual wattage.

Maintenance

Maintenance Schedule

Follow the hourly or calendar intervals, whichever occurs first. More frequent service is required when operating in adverse conditions noted below.

First 5 Hours

· Change engine oil

Every 8 Hours or Daily

- · Clean debris
- · Check engine oil level

Every 25 Hours or Yearly

Service engine air cleaner¹

Every 50 Hours or Yearly

Change engine oil¹

Every 100 Hours or Yearly

- · Service fuel valve
- Service spark plug
- · Inspect muffler and spark arrester
- · Clean cooling system1
- Service more often under dirty or dusty conditions.

General Recommendations

Regular maintenance will improve the performance and extend the life of the generator. See any authorized dealer for service

The generator's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the generator as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your generator.

All service and adjustments should be made at least once each season. Follow the requirements in the Maintenance Schedule chart above.

NOTICE Once a year you should clean or replace the spark plug and replace the air filter. New spark plugs and clean air filter assure proper fuel-air mixture and help your engine run better and last longer.

Emissions Control

Maintenance, replacement, or repair of the emissions control devices and systems may be performed by any non-road engine repair establishment or individual. However, to obtain "no charge" emissions control service, the work must be performed by a factory authorized dealer. See the *Emissions Warranty*.

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.

NOTICE DO NOT use water or other liquids to clean generator. Liquids can enter engine fuel system, causing poor performance and/or failure to occur. In addition, if liquid enters generator through cooling air slots, some of the liquid will be retained in voids and cracks of the rotor and stator winding insulation. Liquid and dirt buildup on the generator internal windings will eventually decrease the insulation resistance of these windings.

Cleaning

Daily or before use, look around and underneath the generator for signs of oil or fuel leaks. Clean accumulated debris from inside and outside the generator. Keep the linkage, spring and other engine controls clean. Keep the area around and behind the muffler free from any combustible debris. Inspect cooling air slots and openings on generator. These openings must be kept clean and unobstructed.

Engine parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris:

Use a damp cloth to wipe exterior surfaces clean.

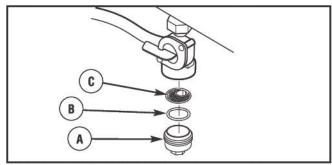
NOTICE Improper treatment of generator could damage it and shorten its life.

- DO NOT expose generator to excessive moisture, dust, dirt, or corrosive vapors.
- · DO NOT insert any objects through cooling slots.
 - · Use a soft bristle brush to loosen caked on dirt or oil.
 - Use a vacuum cleaner to pick up loose dirt and debris.

Fuel Valve Maintenance

The fuel valve is equipped with a fuel sediment cup, screen, and o-ring that need to be cleaned.

- 1. Move fuel valve to "Off" position.
- 2. Remove sediment cup (A) from fuel valve. Remove o-ring (B) and screen (C) from fuel valve.



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

Engine Maintenance



A WARNING Unintentional sparking could cause fire or electric shock resulting in death or serious injury.

WHEN ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR

· Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

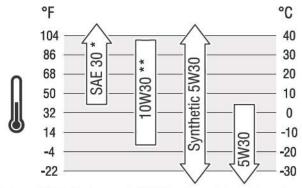
- · Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

0il

Oil Recommendations

We recommend the use of Briggs & Stratton Warranty Certified oils for best performance. Other high-quality detergent oils are acceptable if classified for service SF, SG, SH, SJ or higher. DO NOT use special additives.

Outdoor temperatures determine the proper oil viscosity for the engine. Use the chart to select the best viscosity for the outdoor temperature range expected.



- * Below 40°F (4°C) the use of SAE 30 will result in hard starting.
- ** Above 80°F (27°C) the use of 10W30 may cause increased oil consumption. Check oil level more frequently.

Checking Oil Level

Oil level should be checked prior to each use or at least every 8 hours of operation. Keep oil level maintained.

- 1. Make sure generator is on a level surface.
- 2. Clean area around oil fill and remove oil fill cap.
- 3. Verify oil is at the point of overflowing at oil fill opening.
- 4. Replace and tighten oil fill cap.

Adding Engine Oil

- 1. Make sure generator is on a level surface.
- 2. Check oil level as described in Checking Oil Level.
- 3. If needed, slowly pour oil into oil fill opening to the point of overflowing at oil fill.
- 4. Replace and tighten oil fill cap.

Changing Engine Oil

If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather, change the oil more often.

A CAUTION Avoid prolonged or repeated skin contact with used motor oil.

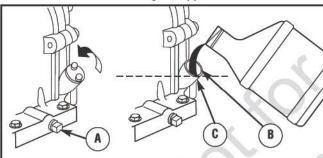
- Used motor oil has been shown to cause skin cancer in certain laboratory animals.
- · Thoroughly wash exposed areas with soap and water.



KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

Change the oil while the engine is still warm from running, as follows:

- Make sure unit is on a level surface.
- 2. Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.
- 3. Clean area around oil drain plug (A). The oil drain plug is located at base of engine, opposite carburetor.



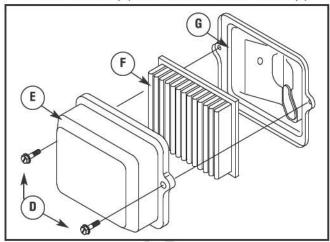
- Remove oil drain plug and drain oil completely into a suitable container.
- Reinstall oil drain plug and tighten securely. Remove oil fill cap.
- Slowly pour oil (about 20 oz.) into oil fill opening (B) to the point of overflowing (C) at oil fill cap. DO NOT overfill.
- 7. Reinstall oil fill cap. Finger tighten cap securely.
- 8. Wipe up any spilled oil.

Service Air Cleaner

Your engine will not run properly and may be damaged if you run it with a dirty air cleaner. Clean or replace more often if operating under dusty or dirty conditions.

To service the air cleaner, follow these steps:

1. Loosen screws (D) and remove air cleaner cover (E).

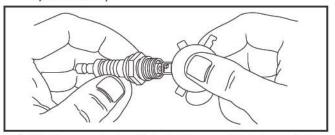


- 2. Carefully remove cartridge (F) from base (G).
- Install clean (or new) air cleaner assembly inside cover. Dispose of old filter properly.
- Assemble air cleaner cover onto base and tighten screws.

Service Spark Plug

Changing the spark plug will help your engine to start easier and run better.

- 1. Clean area around spark plug.
- 2. Remove and inspect spark plug.
- Check electrode gap with wire feeler gauge and reset spark plug gap to recommended gap if necessary (see Specifications).



- Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use the recommended replacement spark plug. See Specifications.
- 5. Install spark plug and tighten firmly.

Inspect Muffler and Spark Arrester

The engine exhaust muffler has a spark arrester screen. Inspect the muffler for cracks, corrosion, or other damage. Inspect spark arrester screen for damage or carbon blockage. Clean if carbon blockage is found or replace if damaged. If replacement parts are required, make sure to use only original equipment replacement parts.



▲ WARNING Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

Contact with muffler area could cause burns resulting in serious injury.

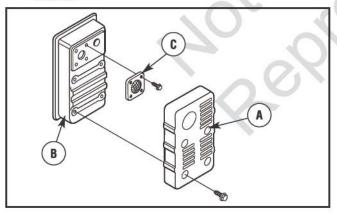
- DO NOT touch hot parts and AVOID hot exhaust gases.
- · Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered. brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws.

Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.

Replacement parts must be the same and installed in the same position as the original parts.

Clean or replace spark arrester as follows:

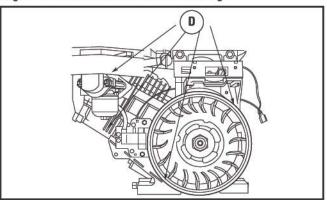
1. To remove muffler heat shield (A) from muffler (B), remove four screws that connect guard to muffler bracket.



- 2. Remove four screws that attach spark arrester screen (C).
- 3. Inspect screen and obtain a replacement if torn, perforated or otherwise damaged. DO NOT use a defective screen. If screen is not damaged, clean it with commercial solvent.
- 4. Reattach screen and muffler guard.

Clean Cooling System

Over time debris may accumulate in cylinder cooling fins and cannot be observed without partial engine disassembly. For this reason, we recommend you have a Briggs & Stratton authorized dealer clean the cooling system (D) per recommended intervals (see Maintenance Schedule in the Maintenance section). Equally important is to keep top of engine free from debris. Also see Cleaning.



Carburetor Adjustment

The carburetor on this engine is low emission. It is equipped with a non-adjustable idle mixture valve. Top speed has been set at the factory. If adjustment is required, see a Briggs & Stratton authorized dealer.

A CAUTION Excessively high operating speeds could result in minor injury.

Excessively low operating speeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine speed. Generator supplies correct rated frequency and voltage when running at governed speed.
- DO NOT modify generator in any way.

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 Cleaning in the Maintenance section.
- Check that cooling air slots and openings on generator are open and unobstructed.

Long Term Storage Instructions

Fuel can become stale when stored over 30 days. Stale fuel causes acid and gum deposits to form in the fuel system or on essential carburetor parts. To keep fuel fresh, use Briggs & Stratton® Advanced Formula Fuel Treatment & Stabilizer, available wherever Briggs & Stratton genuine service parts are sold.

For engines equipped with a FRESH START® fuel cap, use Briggs & Stratton FRESH START® available in a drip concentrate cartridge.

There is no need to drain gasoline from the engine if a fuel stabilizer is added according to instructions. Run the engine for 2 minutes to circulate the stabilizer throughout the fuel system before storage.

If gasoline in the engine has not been treated with a fuel stabilizer, it must be drained into an approved container. Run the engine until it stops from lack of fuel. The use of a fuel stabilizer in the storage container is recommended to maintain freshness.



WARNING Fuel and its vapors are extremely flammable and explosive which could cause burns. fire or explosion resulting in death or serious injury.

WHEN STORING FUEL 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 could ignite fuel vapors.

WHEN DRAINING FUEL

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure
- Drain fuel tank outdoors.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- DO NOT light a cigarette or smoke.

Change Oil

While engine is still warm, drain oil from crankcase. Refill with recommended grade. See Changing Engine Oil in Engine Maintenance.

Other Storage Tips

- 1. DO NOT store fuel from one season to another unless it has been treated as described in Long Term Storage Instructions.
- 2. Replace fuel can if it starts to rust. Contaminated fuel will cause engine problems.
- 3. If possible, store unit indoors and cover it to give protection from dust and dirt.
- 4. Cover unit with a suitable protective cover that does not retain moisture.

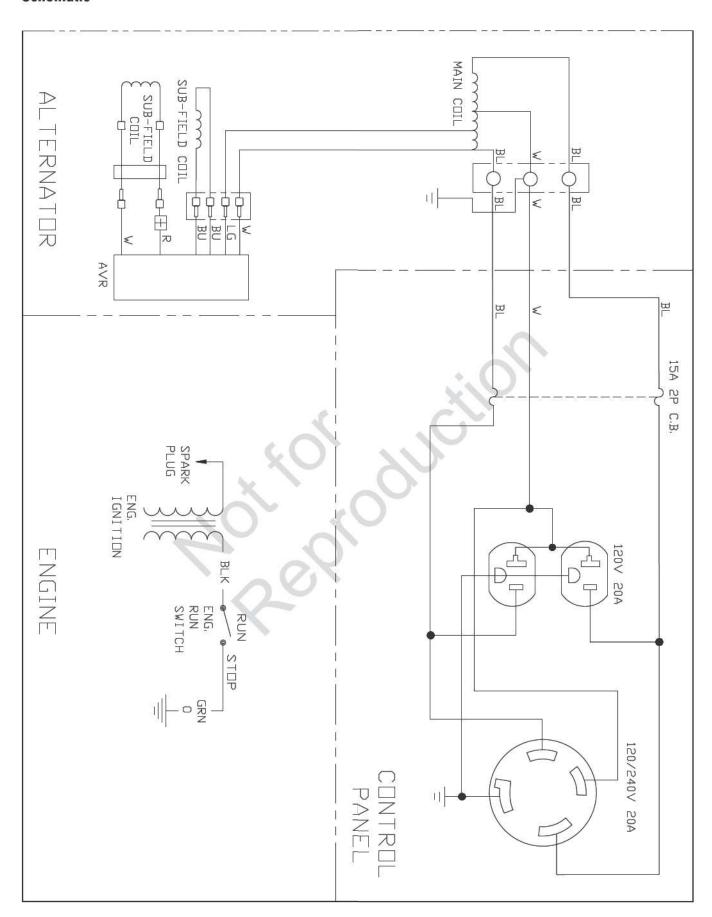
A WARNING Storage covers could cause a fire resulting in death or serious injury.

- DO NOT place a storage cover over a hot generator.
- Let equipment cool for a sufficient time before placing the cover on the equipment.
- Store generator in clean, dry area.

Troubleshooting

4. Shorted generator circuit. 5. Clogged or dirty fuel filter. 5. Clean or replace fuel filter. 6. Puel Valve is in "Off" position. 7. Clogged or dirty fuel filter. 7. Clogged or dirty fuel filter. 8. Spark plug wire not connected to spark plug. 9. Bad spark plug. 10. Water in fuel. 11. Flooded. 12. Excessively rich fuel mixture. 13. Intake valve stoe high. 14. Contact authorized service facility. 15. Clean or replace fuel filter. 16. Clogged or dirty peel filter. 17. Stale fuel. 18. Spark plug wire not connected to spark plug. 19. Replace spark plug. 10. Water in fuel. 11. Flooded. 12. Excessively rich fuel mixture. 13. Intake valve stuck open or closed. 14. Engine has lost compression. 15. Clogged or dirty of the position. 26. Turn fuel valve to "On" position. 27. Turn fuel valve to "On" position. 28. Stale fuel of translated to "On" position. 29. Turn fuel valve to "On" position. 20. Turn fuel valve to "On" position. 20. Turn fuel valve to "On" position. 21. Clean or replace fuel filter. 21. Clean or replace fuel filter. 22. Clean or replace fuel filter. 23. Fill crankcase to proper level or place generator on level surface. 34. Clean or replace arc leaner. 35. Clogged or dirty fuel filter. 36. Fill fuel tank. 37. Drain fuel tank and carburetor; fill with fresh fuel. 38. Connect wire to spark plug. 39. Replace spark plug. 30. Drain gas tank and carburetor; fill with fresh fuel. 31. Wait 5 minutes and re-crank engine. 31. Contact authorized service facility. 32. Contact authorized service facility. 33. Contact authorized service facility. 34. Contact authorized service facility. 35. Clean or replace with one of "On" position. 36. Fill fuel tank. 47. Drain fuel valve to "On" position. 36. Fill fuel tank. 48. Connect wire to spark plug. 49. Replace spark plug. 40. Drain gas tank and carburetor; fill with fresh fuel. 40. Drain gas tank and carburetor; fill with fresh fuel. 41. Vait 5 minutes and re-crank engine. 41. Contact authorized service facility. 41. Contact authorized service facility.	Problem	Cause	Correction	
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position. 2. Fuel Valve is in "Off" position. 3. Low oil level. 3. Low oil level. 4. Dirty air cleaner. 5. Clogged or dirty fuel filter. 6. Out of fuel. 7. Stale fuel. 8. Spark plug wire not connected to spark plug. 9. Bad spark plug. 10. Water in fuel. 11. Flooded. 12. Excessively rich fuel mixture. 13. Intake valve stuck open or closed. 14. Engine has lost compression. 15. Clogged or dirty fuel filter. 16. Out of fuel. 7. Stale fuel. 8. Connect wire to spark plug. 9. Replace spark plug. 10. Drain gas tank and carburetor; fill with fresh fuel. 11. Wait 5 minutes and re-crank engine. 12. Contact authorized service facility. 13. Intake valve stuck open or closed. 14. Engine has lost compression. 15. Contact authorized service facility. 16. Contact authorized service facility. 17. See Don't Overload Generator. 28. Replace air filter. 39. Clogged or dirty fuel filter. 30. Clogged or dirty fuel filter. 31. Carburetor is running too rich or too lean. 31. Turn fuel valve to "On" position. 32. Turn fuel valve to "On" position. 33. Fill crankcase to proper level or place generator on level surface. 44. Clean or replace air cleaner. 54. Clean or replace fuel filter. 55. Clogged or dirty fuel filter. 66. Fill fuel tank. 75. Drain fuel tank. 76. Fill fuel tank. 76. Fill fuel tank. 77. Drain fuel sank and carburetor; fill with fresh fuel. 88. Connect wire to spark plug. 89. Replace spark plug. 10. Drain gas tank and carburetor; fill with fresh fuel. 11. Wait 5 minutes and re-crank engine. 12. Contact authorized service facility. 13. Contact authorized service facility. 14. Contact authorized service facility. 15. See Don't Overload Generator. 16. Fill fuel tank. 17. Contact authorized service facility. 18. Spark plug. 19. Replace air filter. 19. Contact authorized service facility. 19. See Don't Overload Generator. 20. Replace air filter. 21. Contact authorized service facility.		Clogged or dirty fuel filter.	5. Clean or replace fuel filter.	
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10. Water in fuel. 11. Flooded. 12. Excessively rich fuel mixture. 13. Intake valve stuck open or closed. 14. Engine has lost compression. 15. Load is too high. 16. Drain gas tank and carburetor; fill with fresh fuel. 17. Wait 5 minutes and re-crank engine. 18. Contact authorized service facility. 19. Contact authorized service facility. 19. Contact authorized service facility. 10. Drain gas tank and carburetor; fill with fresh fuel. 11. Wait 5 minutes and re-crank engine. 12. Contact authorized service facility. 13. Contact authorized service facility. 14. Contact authorized service facility. 15. Carburetor is running too rich or too lean. 16. Contact authorized service facility. 17. Carburetor is running too rich or too lean. 18. Contact authorized service facility. 19. Contact authorized service facility. 10. Drain gas tank and carburetor; fill with fresh fuel. 11. Wait 5 minutes and re-crank engine. 12. Contact authorized service facility. 13. Contact authorized service facility. 14. Contact authorized service facility. 15. Carburetor is running too rich or too lean. 16. Contact authorized service facility. 17. Contact authorized service facility. 18. Contact authorized service facility. 19. Contact authorized service facility.	running.	그리고 그 얼마에 하나 없는 것이다. 하는데 하나 사람들은 아이를 하는데 하는데 하나 하는데 하다 하는데	8. Connect wire to spark plug.	
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Schematic







Warranties

California, U.S. EPA, and Briggs & Stratton Corporation Emissions Control Warranty Statement

Your Warranty Rights And Obligations

The California Air Resources Board, U.S. EPA, and Briggs & Stratton (B&S) are pleased to explain the emissions control system warranty on your Model Year 2013-2014 engine/equipment. In California, new small off-road engines and large spark ignited engines less than or equal to 1.0 liter must be designed, built, and equipped to meet the State's stringent anti-smog standards. B&S must warrant the emissions control system on your engine/equipment for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your engine or equipment.

Your emissions control system may include parts such as the carburetor or fuel injection system, ignition system, and catalytic converter. Also included may be hoses, belts, connectors, sensors, and other emissions-related assemblies. Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components. Where a warrantable condition exists, B&S will repair your engine/equipment at no cost to you including diagnosis, parts, and labor.

Manufacturer's Warranty Coverage:

Small off-road engines and large spark ignited engines less than or equal to 1.0 liter, and any emissions related components of the equipment, are warranted for two years*. If any emissions-related part on your engine/equipment is defective, the part will be repaired or replaced by B&S.

* Two years or for the time period listed in the respective engine or product warranty statement, whichever is greater.

Owner's Warranty Responsibilities:

- As the engine/equipment owner, you are responsible for the performance of the required maintenance listed in your owner's manual. B&S recommends that you retain all receipts covering maintenance on your engine/equipment, but B&S cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.
- As the engine/equipment owner, you should however be aware that B&S may deny you warranty coverage if your engine/equipment or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.
- You are responsible for presenting your engine/equipment to a B&S distribution center, servicing dealer, or other equivalent entity, as applicable, as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact B&S at 1-800-444-7774 (in USA) or BRIGGSandSTRATTON.COM.

Briggs & Stratton Emissions Control Warranty Provisions

The following are specific provisions relative to your Emissions Control Warranty Coverage. It is in addition to the B&S engine warranty for non-regulated engines found in the Operator's Manual.

- Warranted Emissions Parts
 Coverage under this warranty extends only to the parts listed below (the emissions control systems parts) to the extent these parts were present on the B&S engine and/or B&S supplied fuel system.
 - a. Fuel Metering System
 - · Cold start enrichment system (soft choke)
 - · Carburetor and internal parts
 - Fuel pump
 - · Fuel line, fuel line fittings, clamps
 - · Fuel tank, cap and tether
 - · Carbon canister
 - b. Air Induction System
 - · Air cleaner
 - · Intake manifold
 - · Purge and vent line
 - c. Ignition System
 - Spark plug(s)
 - · Magneto ignition system
 - d. Catalyst System
 - · Catalytic converter
 - · Exhaust manifold
 - Air injection system or pulse valve
 - e. Miscellaneous Items Used in Above Systems
 - Vacuum, temperature, position, time sensitive valves and switches
 - · Connectors and assemblies
- 2. Length of Coverage

For a period of two years from date of original purchase*, B&S warrants to the original purchaser and each subsequent purchaser that the engine is designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board; that it is free from defects in material and workmanship that could cause the failure of a warranted part; and that it is identical in all material respects to the engine described in the manufacturer's application for certification. The warranty period begins on the date the engine is originally purchased.

* Two years or for the time period listed in the respective engine or product warranty statement, whichever is greater.

The warranty on emissions-related parts is as follows:

- Any warranted part that is not scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, the part will be repaired or replaced by B&S at no charge to the owner. Any such part repaired or replaced under the warranty will be warranted for the remaining warranty period.
- Any warranted part that is scheduled only for regular inspection in the owner's manual supplied, is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- Any warranted part that is scheduled for replacement as
 required maintenance in the owner's manual supplied, is
 warranted for the period of time prior to the first scheduled
 replacement point for that part. If the part fails prior to the first
 scheduled replacement, the part will be repaired or replaced by
 B&S at no charge to the owner. Any such part repaired or
 replaced under warranty will be warranted for the remainder of
 the period prior to the first scheduled replacement point for the
 part.
- Add on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non exempted add on or modified parts by the owner will be grounds for disallowing a warranty claim. The manufacturer will not be liable to warrant failures of warranted parts caused by the use of a non exempted add on or modified part.
- 3. Consequential Coverage

Coverage shall extend to the failure of any engine components caused by the failure of any warranted emissions parts.

4. Claims and Coverage Exclusions

Warranty claims shall be filed according to the provisions of the B&S engine warranty policy. Warranty coverage does not apply to failures of emissions parts that are not original equipment B&S parts or to parts that fail due to abuse, neglect, or improper maintenance as set forth in the B&S engine warranty policy. B&S is not liable for warranty coverage of failures of emissions parts caused by the use of add-on or modified parts.

Look For Relevant Emissions Durability Period and Air Index Information On Your Small Off-Road Engine Emissions Label

Engines that are certified to meet the California Air Resources Board (CARB) small off-road Emissions Standard must display information regarding the Emissions Durability Period and the Air Index. Briggs & Stratton makes this information available to the consumer on our emissions labels. The engine emissions label will indicate certification information.

The **Emissions Durability Period** describes the number of hours of actual running time for which the engine is certified to be emissions compliant, assuming proper maintenance in accordance with the Operating & Maintenance Instructions. The following categories are used:

Moderate:

Engine is certified to be emissions compliant for 125 hours of actual engine running time.

Intermediate:

Engine is certified to be emissions compliant for 250 hours of actual engine running time.

Extended:

Engine is certified to be emissions compliant for 500 hours of actual engine running time.

For example, a typical walk-behind lawn mower is used 20 to 25 hours per year. Therefore, the **Emissions Durability Period** of an engine with an **intermediate** rating would equate to 10 to 12 years.

Briggs & Stratton engines are certified to meet the United States Environmental Protection Agency (USEPA) Phase 2 or Phase 3 emissions standards. The Emissions Compliance Period referred to on the Emissions Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emissions requirements.

For engines less than 225 cc displacement.

Category C = 125 hours

Category B = 250 hours

Category A = 500 hours

For engines of 225 cc or more displacement.

Category C = 250 hours

Category B = 500 hours

Category A = 1000 hours

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC PORTABLE GENERATOR OWNER WARRANTY POLICY

Effective September 1, 2012; replaces all undated Warranties and all Warranties dated before September 1, 2012.

LIMITED WARRANTY

Briggs & Stratton warrants that, during the warranty period specified below, it will repair or replace, free of charge, any part that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for and is subject to the time periods and conditions stated below. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at BRIGGSandSTRATTON.com. The purchaser must contact the Authorized Service Dealer, and then make the product available to the Authorized Service Dealer for inspection and testing.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year from purchase, or to the extent permitted by law. All other implied warranties are excluded. Liability for incidental or consequential damages are excluded to the extent exclusion is permitted by law. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries 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 or country to country.**

WARRANTY PERIOD

Consumer Use 2 years*
Commercial Use 1 year

*Second year parts only

** In Australia - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at BRIGGSandSTRATTON.COM, or by calling 1300 274 447, or by emailing or writing to salesenquires@briggsandstratton.com.au, Briggs & Stratton Australia Pty Ltd, 1 Moorebank Avenue, NSW, Australia, 2170.

The warranty period begins on the date of purchase by the first retail end user, and continues for the period of time stated 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 experienced commercial use, it shall thereafter be considered as commercial use for purposes of this warranty. Equipment used for prime power in place of utility are not applicable to this warranty.

NO WARRANTY REGISTRATION IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON PRODUCTS. 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 PRODUCT WILL BE USED TO DETERMINE THE WARRANTY PERIOD.

ABOUT YOUR WARRANTY

We welcome warranty repair and apologize 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 service would not apply if equipment damage occurred because of misuse, lack of routine maintenance, shipping, handling, warehousing or improper installation. Similarly, the warranty is void if the manufacturing date or the serial number on the portable generator has been removed or the equipment has been altered or modified. During the warranty period, the Authorized Service Dealer, at its option, will repair or replace any part that, upon examination, is found to be defective under normal use and service. This warranty will not cover the following repairs and equipment:

- Normal Wear: Outdoor Power Equipment, like all mechanical devices, needs periodic parts and service 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 and modification, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in our judgment,
 to adversely affect its performance and reliability. This warranty also does not cover normal maintenance such as air filters, adjustments, fuel system
 cleaning and obstruction (due to chemical, dirt, carbon, lime, and so forth).
- Other Exclusions: This warranty excludes wear items such as o-rings, filters, etc., or malfunctions resulting from accidents, abuse, modifications, alterations, or improper servicing or freezing or chemical deterioration. Accessory parts such as starting batteries, generator adapter cord sets and storage covers are excluded from the product warranty. This warranty excludes used, reconditioned, and demonstration equipment, equipment used for prime power in place of utility power, equipment used in life support applications, and failures due to acts of God and other force majeure events beyond the manufacturers control. 198189E, Rev. D, 09/10/2012

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
MILWAUKEE, WI, USA





Portable Generator

Product Specifications

Starting Wattage4,375 Watts
Wattage*
AC Voltage120/240 Volts
at 240 Volts14.5 Amps
at 120 Volts
Frequency
PhaseSingle Phase
Displacement
Spark Plug Gap
Fuel Capacity 4 U.S. Gallons (15.14 Liters)
Oil Capacity20 Ounces (0.6 Liters)

Common Service Parts

Air Cleaner
Resistor Spark Plug
Long Life Platinum Spark Plug5066
Engine Oil Bottle
Synthetic Oil Bottle
Fuel Stabilizer
Spark Arrester83083GS

Power Ratings: The gross power rating for individual gasoline engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 Small Engine Power & Torque Rating Procedure, and is rated in accordance with SAE J1995. Torque values are derived at 2600 RPM for those engines with "rpm" called out on the label and 3060 RPM for all others; horsepower values are derived at 3600 RPM. The gross power curves can be viewed at www.BRIGGSandSTRATTON.COM. Net power values are taken with exhaust and air cleaner installed whereas gross power values are collected without these attachments. Actual gross engine power will be higher than net engine power and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given the wide array of products on which engines are placed, the gasoline engine may not develop the rated gross power when used in a given piece of power equipment. This difference is due to a variety of factors including, but not limited to, the variety of engine components (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this engine.

Briggs & Stratton Power Products Group, LLC P.O. Box 702 Milwaukee, Wisconsin, 53201-0702 U.S.A.

^{*} This generator is certified in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-04 (motors and generators) and rated in accordance with PGMA (Portable Generator Manufacturers' Association) standard PGMA G200 (Standard for Testing and Validating Performance of Portable Generators).