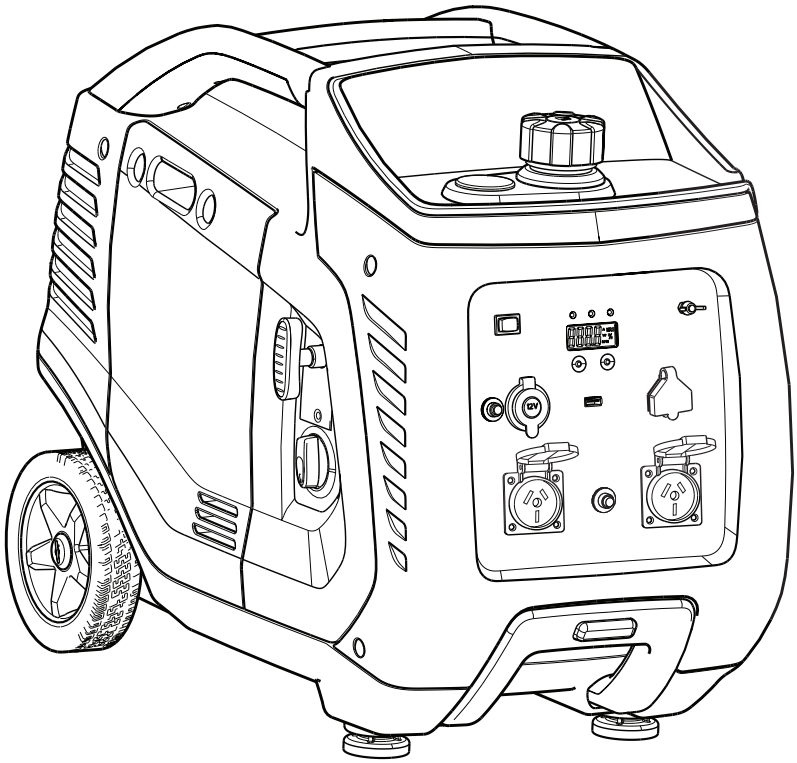
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KP10106

BRIGGS & STRATTON®



Outdoor Inverter Generator

Operator's Manual

Model Number _____

Revision _____

Serial Number _____

Date Purchased _____

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1800-356-632 (AUS) or 0800-484-282 (NZ)
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Manual No. 80028626 Revision -

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Symbols and Meanings

Signal	Meaning
DANGER	Indicates a hazard which, if not avoided, *will* result in death or serious injury.
WARNING	Indicates a hazard which, if not avoided, *could* result in death or serious injury.
CAUTION	Indicates a hazard which, if not avoided, *could* result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related

Symbol	Name	Explanation
	Safety Alert Symbol	Indicates a potential personal injury hazard.
	Operator's Manual	Failure to follow warnings, instructions and operator's manual could result in death or serious injury.
	Toxic Fumes	Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You cannot smell it or see it.
	Fire	Fuel and its vapors are extremely flammable which could cause burns or fire resulting in death or serious injury. Engine exhaust could cause fire resulting in death or serious injury.
	Electric Shock	Generator could cause electrical shock resulting in death or serious injury.
	Hot Surface	Muffler could cause burns or resulting in serious injury.

Equipment Description



Read this manual carefully and become familiar with your product. Know its applications, its limitations, and any hazards involved. Save these original instructions for future reference.

The inverter generator is an engine–driven, revolving field, alternating and direct current (AC & DC) 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 4,350 rpm (with QPT™ (QUIET POWER TECHNOLOGY™) switch off) by a single-cylinder engine.

The inverter generator produces power that can be used for outdoor items using extension cords or an optional parallel kit. This inverter generator is not intended to restore power to a home. Extension cords running directly into the home increase your risk of carbon monoxide poisoning through openings. Install carbon monoxide alarm(s).

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.

NOTICE If you have questions about intended use, contact an authorized service dealer. This equipment is designed to be used with Briggs & Stratton authorized parts only.

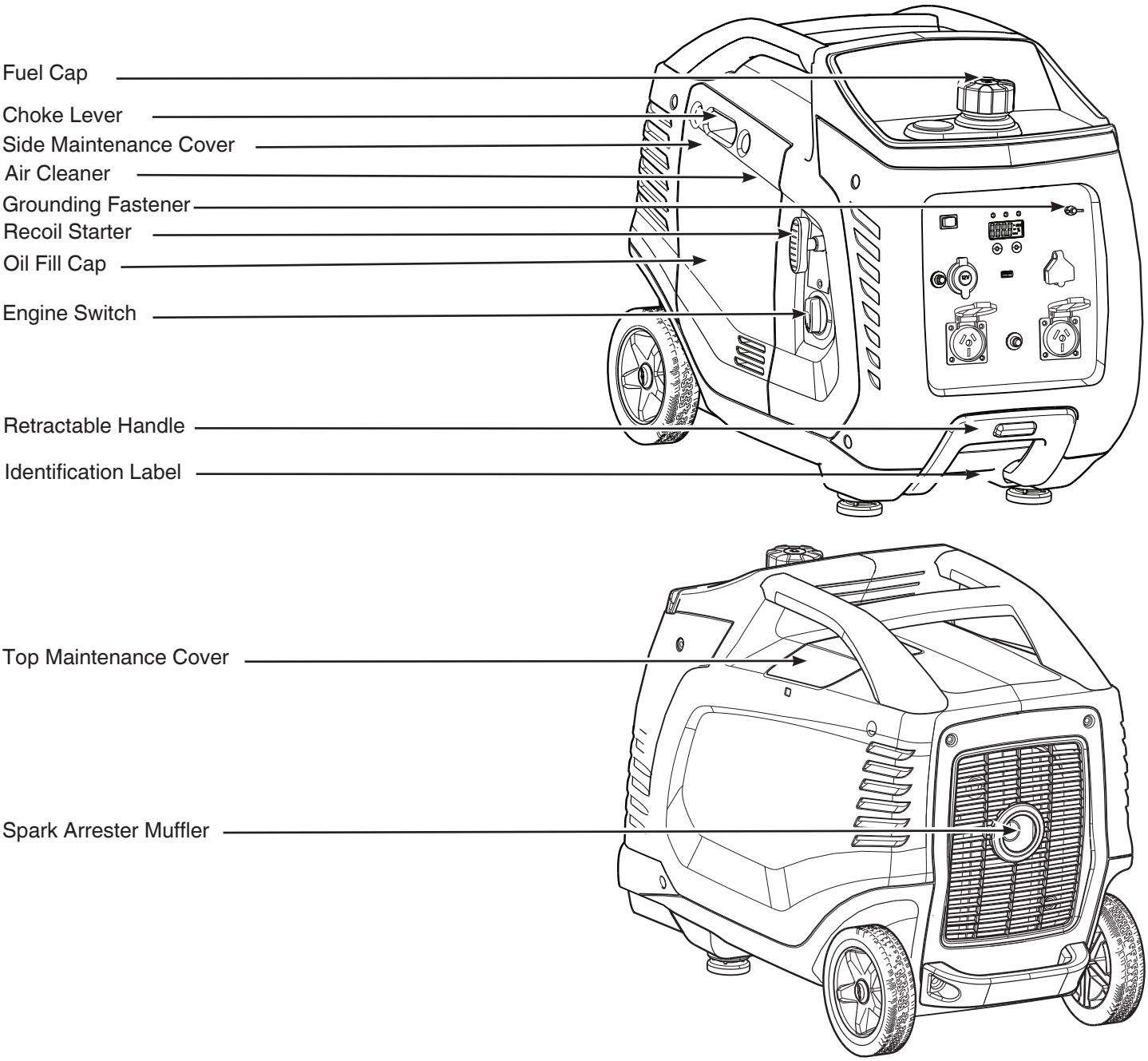
System Ground

The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The generator neutral is floating, which means that the AC stator winding is isolated from the grounding fastener and the AC receptacle ground pins. Electrical devices, such as RCD, requiring a grounded neutral may not operate properly from this generator. Earthing of the generator is not required.

Special Requirements

There may be 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.

This generator is not intended to be used at a construction site.



Air Cleaner (under side maintenance cover) — Protects engine by filtering dust and debris out of intake air.

Choke Lever — Used when starting a cold engine.

Engine Switch — Set this switch to ON (I) before using recoil starter. Set switch to OFF (0) to stop engine. Also turns fuel valve on and off.

Fuel Cap — Add unleaded fuel here.

Grounding Fastener — Consult your local agency having jurisdiction for grounding requirements in your area.

Identification Label — Provides model and serial number of generator.

Oil Fill Cap (under side maintenance cover) — Check and add engine oil here.

Recoil Starter — Used to start the engine manually.

Retractable Handle — Press button and pull handle out to move generator. Press button to push handle back in.

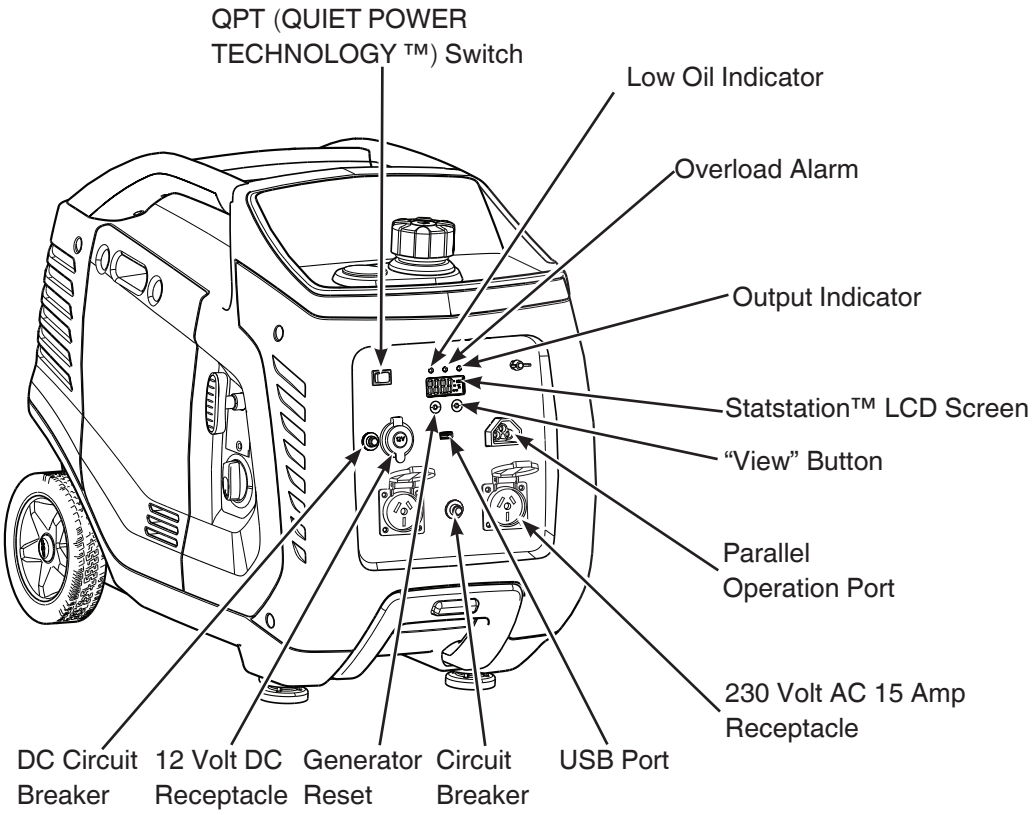
Side Maintenance Cover — Remove to gain access to the air cleaner and oil service.

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

Top Maintenance Cover — Remove to gain access to the spark plug.

Features and Controls

Compare the illustrations with your generator to familiarize yourself with the locations of various controls and product warnings.



12 Volt DC Receptacle — Use this receptacle with battery charge cables to charge a 12 Volt battery. This receptacle is protected by a push to reset circuit breaker.

230 Volt AC, 15 Amp Receptacle — May be used to supply electrical power for the operation of 230 Volt AC, 15 Amp, single phase, 50 Hz electrical, lighting, appliance, tool, and motor loads.

Circuit Breaker — A "push to reset" circuit breaker is provided to protect the generator against electrical overload.

DC Circuit Breaker — The 12 Volt DC receptacle is provided with a "push to reset" circuit breaker to protect the generator against electrical overload.

Generator Reset — Push to reset generator if overloaded.

Low Oil Indicator — A yellow LED light comes on when the oil in the generator drops below a preset level.

Output Indicator — A green LED light comes on when the generator is working correctly and producing power at the receptacles.

Overload Alarm — A red LED light comes on and cuts power to the receptacles when the generator is overloaded.

Parallel Operation Port — Use this port with optional parallel operation kit to allow two generators to run in parallel.

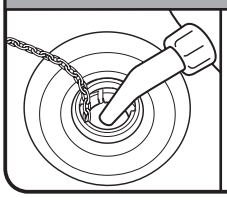
QPT Switch— QPT (QUIET POWER TECHNOLOGY ™) Switch — Use this switch to turn the QPT on and off.

Statstation™ LCD Screen — Built in LCD screen to monitor certain features on the generator. See *STATSTATION™*.

USB Port — Use this port to recharge any USB powered device.

"View" Button — Pressing the "View" button will toggle between the flashing load percentage and the flashing hour display. Once maintenance has been performed, you must push and hold the "View" button on the control panel for a minimum of 3 seconds to stop the display from flashing and return it to normal operation.

⚠ WARNING

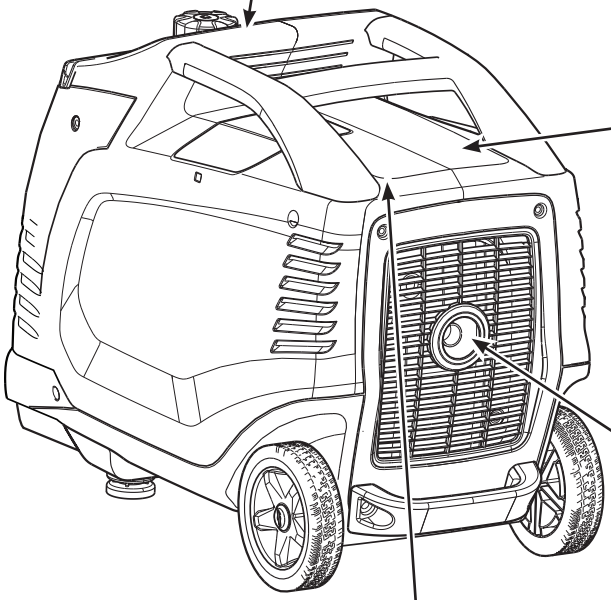




Fuel is flammable which could cause burns resulting in death or serious injury.

- Turn engine off and let it cool at least 2 minutes before refueling.
- Do not fill above red fuel level indicator.
- Never add fuel to a hot or running generator.

80020319



Muffler

Point away from home

⚠ WARNING



Failure to follow warnings, instructions and operator's manual could result in death or serious injury.



Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes.

You CANNOT smell it, see it, or taste it.

Operate this product ONLY outside far away from windows, doors and vents.



Hot exhaust gases could cause fires. Keep at least 1.5m clearance from any combustibles or structures, including overhead.



Generator could cause electrical shock.

- Do not run indoors to avoid wet conditions.
- Do not run in rain or wet weather.
- The output of this generating set is potentially lethal. The set should not be connected to a fixed electrical installation except by an appropriately licensed person.



Muffler could cause burns resulting in serious injury.

- Do not touch hot parts.
- Avoid hot exhaust gasses.

80020317

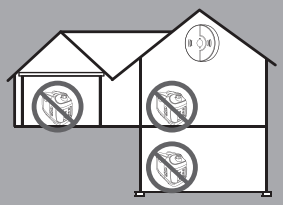
USE OUTDOORS - AVOID CARBON MONOXIDE (CO) POISONING - See Manual



MUFFLER



point away from home



Install CARBON MONOXIDE ALARMS inside home to prevent sickness or death due to CO poisoning.

80020318

Operation

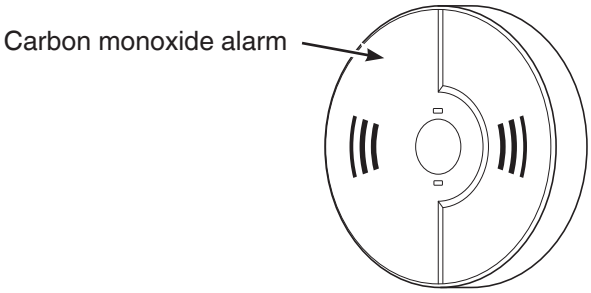
Step 1: Safe Location

Before starting the inverter generator there are two equally important safety concerns regarding carbon monoxide poisoning and fire that must be addressed.

Operation Location to Reduce the Risk of Carbon Monoxide Poisoning

The engine exhaust of all fossil fuel burning equipment, such as an inverter generator, 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.

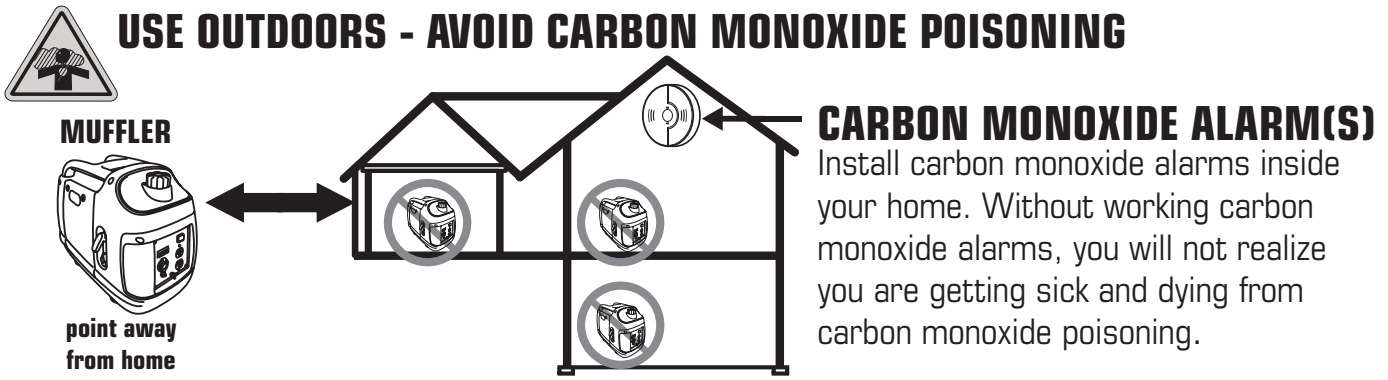
A carbon monoxide alarm is an electronic device that detects hazardous levels of carbon monoxide. When there is a buildup of carbon monoxide, the alarm will alert the occupants by flashing visual indicator light and alarm. Smoke alarms cannot detect carbon monoxide gas.



WARNING! 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 outdoors 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.

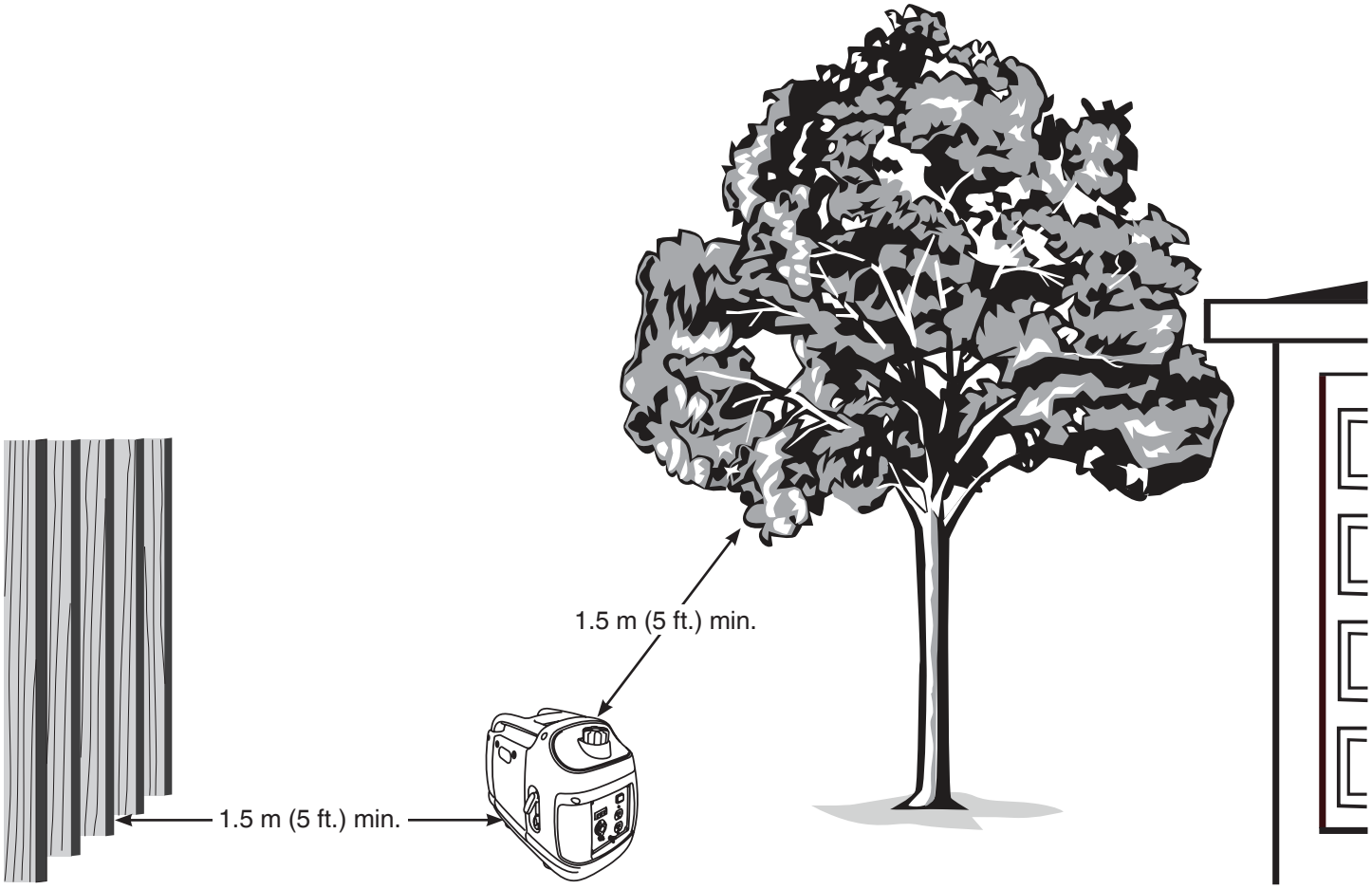
If you start to feel sick, dizzy, or weak while using this product, get to fresh air right away. See a doctor. You may have carbon monoxide poisoning.



Operation Location to Reduce the Risk of Fire

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

- Inverter generator must be at least 1.5 m (5 ft.) from any structure, overhang, trees, windows, doors, any wall opening, shrubs, or vegetation over 30.5 cm (12 in.) in height.
- Do not place inverter generator under a deck or other type of structure that may confine airflow. Smoke alarm(s) must be installed and maintained indoors according to the manufacturer's instructions/recommendations.
- Carbon monoxide alarms cannot detect smoke.
- Do not place inverter generator in manner other than shown.

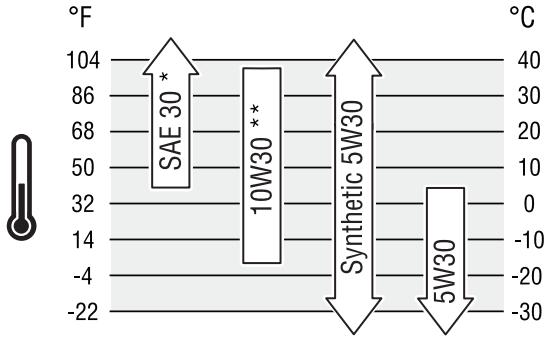


Step 2: Oil and Fuel

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 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.



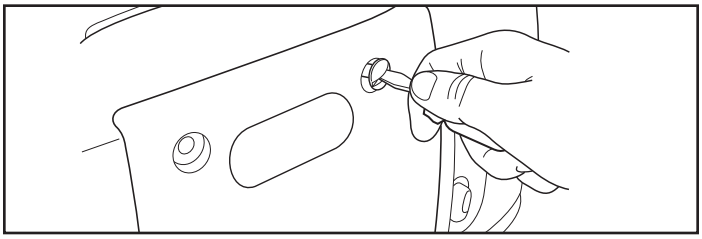
* Below 4°C (40°F) the use of SAE 30 will result in hard starting.

** Above 27°C (80°F) the use of 10W30 may cause increased oil consumption. Check oil level more frequently.

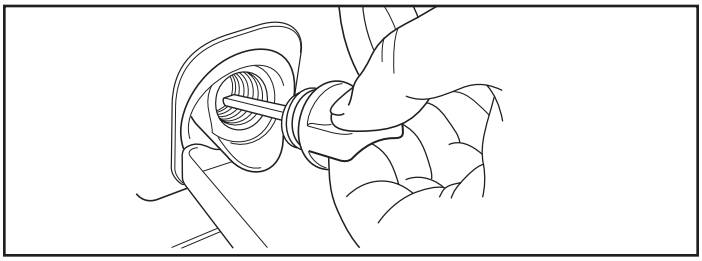
Checking/Adding Engine Oil

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

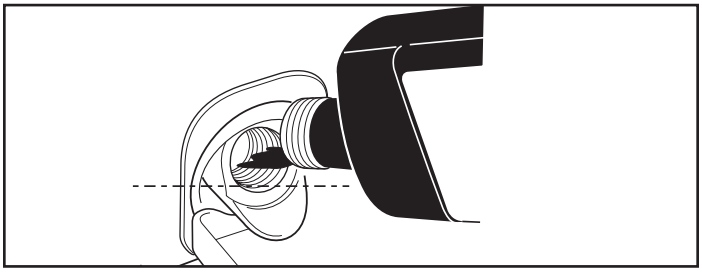
1. Place generator on a level surface.
2. Loosen the two maintenance cover screws and remove the side maintenance cover.



3. Clean area around oil fill and remove yellow oil fill cap.



4. Verify oil is at the point of overflowing at the oil fill opening.
5. If needed, using oil funnel, slowly pour recommended engine oil into oil fill opening to the point of overflowing.



NOTICE DO NOT attempt to crank or start engine before it has been properly serviced with recommended oil. This could result in an engine failure.

6. Replace oil fill cap and fully tighten.
7. Replace the maintenance cover and hand tighten the two maintenance cover screws.

Add Fuel

Fuel must meet these requirements:

- Clean, fresh, unleaded fuel with a minimum of 87 octane/87 AKI (91 RON).
- Gasoline with an ethanol content up to 10% is acceptable.

E10 **E15**

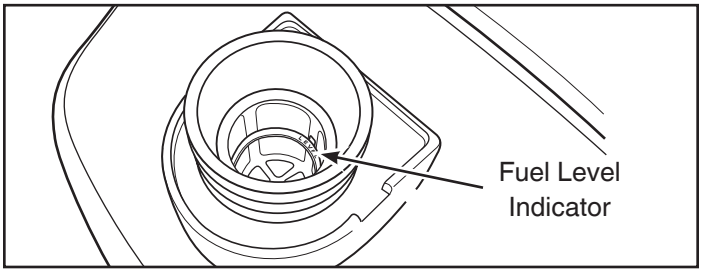
NOTICE Do not mix oil in fuel or modify engine to run on alternate fuels. Use of unapproved fuels could damage engine and will not be covered under warranty.

See *High Altitude* for 1524 m (5,000 ft.) and above.

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

- Do not refuel during operation.
- Turn engine off and let it cool at least 2 minutes before removing fuel cap.
- Fill 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.

1. Clean area around fuel fill cap, remove cap.
2. Slowly add unleaded fuel to red fuel level indicator in fuel tank. Be careful not to fill above the indicator. This allows adequate space for fuel expansion.



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

High Altitude

At altitudes over 1524 m (5,000 ft.), a minimum 85 octane/85 AKI (89 RON) fuel 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 Briggs & Stratton dealer for high altitude adjustment information. Operation of the engine at altitudes below 762 m (2,500 ft.) with the high altitude kit is not recommended.

Transporting

When transporting equipment with a vehicle or trailer, turn engine switch to OFF (0) position. Do not tip engine or equipment at an angle which causes fuel to spill.

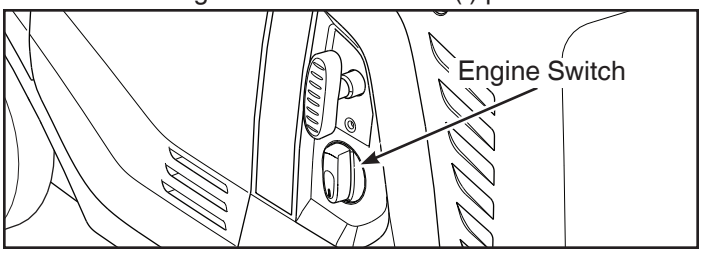
Step 3: Generator Start Up

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

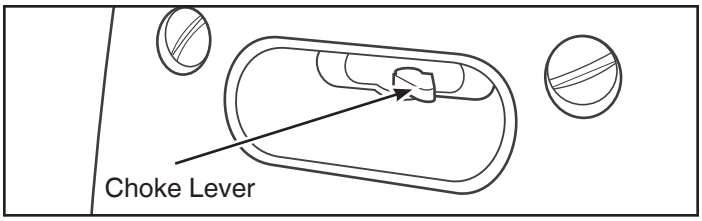
1. Make sure unit is outdoors on a level surface.

NOTICE Failure to operate the unit on a level surface may cause the unit to shut down.

2. Turn the engine switch to the ON (I) position.



3. Push choke lever to CHOKE (⎸◥⎸) position.



NOTICE To start the engine for the very first time, after running out of fuel or after a long period of storage, fill fuel tank as described in *Add Fuel*. It will require more than several start attempts until the air in the fuel system has been purged.

5. Grasp recoil handle and pull slowly until slight resistance is felt. Then pull rapidly to start engine.
6. Slowly move choke lever to RUN (⎸◆⎸) position. If engine falters, move choke lever to half choke position until engine runs smoothly, and then to RUN (⎸◆⎸) position.

NOTICE If engine starts but fails to run, see *Low Oil Indicator.*

QPT (QUIET POWER TECHNOLOGY™)

This feature is designed to greatly improve fuel economy. When this switch is turned ON (I), the engine speed will increase as electrical loads are connected, and decreased as electrical loads are removed.

With the switch off, engine will run at full governed speed.

NOTICE Always have the switch OFF (0) when starting or stopping the generator or when using the DC receptacle.

Step 4: Connecting Electrical Loads

Make sure the green output indicator light comes on (it may take up to three seconds).

Using Extension Cords

When using extension cords or mobile distribution networks, the total length of cords for a cross section of 1.5mm^2 should not exceed 60 m, for a cross section of 2.5mm^2 this should not exceed 100 m.

Use only grounded extension cords marked for outdoor use rated for your loads. Follow cord safety instructions.

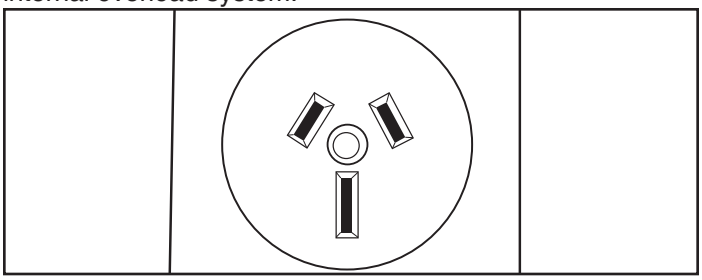


WARNING! Damaged or overloaded extension cords could overheat, arc, and burn resulting in death or serious injury.

NOTICE For generator output required see *Generator Capacity.* Connect electrical loads in off position then turn on for operation.

230 Volt AC, 15 Amp Receptacles

These receptacles are protected against overload by an internal overload system.



Use receptacles to operate 230 Volt AC, single–phase, 50 Hz electrical loads requiring up to 2,600 watts (2.6 kW) at 7.4 Amps of current. Use cord sets that are rated for 230 Volt AC loads at 15 Amps (or greater).

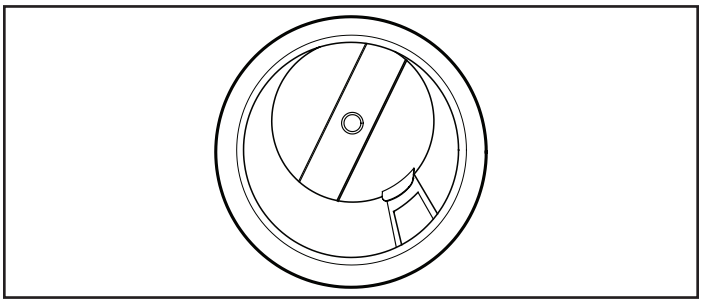
5 Volt DC USB Port

The maximum current available for the USB port is 1 Amp at 5 Volts. The USB port allows you to recharge any USB powered device with a USB charging cable (not included).

NOTICE For charging ITE (Information Technology Equipment) only.

12 Volt DC Receptacle

The maximum current available for the battery charge circuit is 5 Amps. A DC circuit breaker protects this receptacle from overloads. If an overload occurs, the circuit breaker will trip (push button pops out). Wait a few minutes and push the button in to reset the circuit breaker.



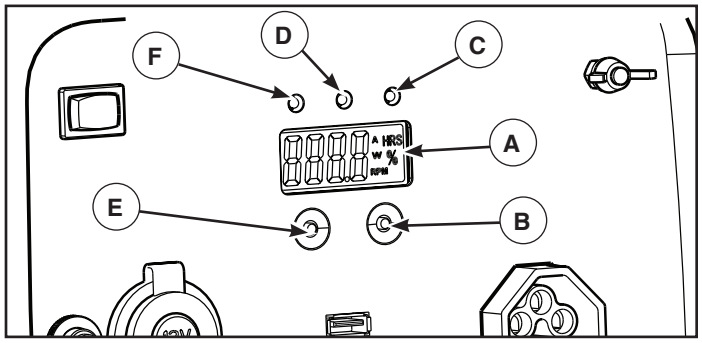
This receptacle allows you to recharge a 12 Volt automotive or utility style storage battery with the battery charge cable provided.

This receptacle can not be used to crank an engine having a discharged battery. See *Charging a Battery* before attempting to recharge a battery.

NOTICE When using the battery charge circuit and USB port, turn the QPT switch to the OFF (0) position.

STATSTATION™

The control panel has a built in LCD display (**A**) to monitor the following features:



- Load Monitor (Total Generator Load)
- Hour Meter (Total Generator Hours)
- Maintenance Reminder (En gine Maintenance)

Load Monitor

The load monitor measures the output wattage (generator load) of all the generator receptacles and will display the percentage of total generator load.

Hour Meter

The LCD on the control panel also has a built in hour meter that displays and records how many hours your generator has run (up to 999.9).

Maintenance Reminder

The LCD on the control panel also has a built in maintenance reminder to alert you to change air filter, change oil, and change spark plug. The LCD display will flash both the load percentage and the hour display every 50 hours for the different maintenance intervals. See *Maintenance Schedule* for different maintenance intervals.

Pressing the “View” button (**B**) will toggle between the flashing load percentage and the flashing hour display. Once maintenance has been performed, you must push and hold the “View” button on the control panel for a minimum of 3 seconds to stop the display from flashing and return it to normal operation.

Output Indicator OK!

The green LED output indicator light (**C**) comes on when the generator is operating normally. It indicates that the generator is producing power at the receptacles.

Overload Alarm ⚠

The red LED overload alarm light (**D**) comes on and cuts power to the receptacles if you overload the generator. The green output indicator light will also go off. If the generator was overloaded, you must turn off and unplug all electrical loads, press the “Reset” button (**E**) on the generator control panel and then plug in and restart electrical loads one at a time to continue in normal operating mode.

Low Oil Indicator

The low oil indicator system is designed to prevent engine damage caused by not enough engine oil. If the engine oil level drops below a preset level, the yellow LED low oil indicator light (**F**) comes on and an oil level switch will stop the engine. If the engine stops or the yellow LED low oil indicator light comes on when you pull the recoil handle, check the engine oil level.

Parallel Operation

Two Briggs & Stratton inverter generators can be run in parallel with a Briggs & Stratton parallel operation kit (optional equipment). When running in parallel, the total output of power is shown in chart.

Models	Maximum Output
P2200 & P2200	3000 Watts
P2200 & P3000	3000 Watts
P3000 & P3000	4800 Watts

NOTICE Total electrical load connected to the parallel kit must not exceed the maximum output.

See the parallel operation kits instruction sheet for detailed instructions on installation and operation of the connected generators.

NOTICE

- Turn electrical loads OFF and disconnect from both generators.
- The QPT switch must be in the same position on both generators.
- Connect the parallel kit's power cables to both generators before starting the engines. See instruction sheet supplied with parallel kit.
- Start engine on one of the inverter generators according to *Generator Start Up*.
- Once the green LED output indicator light on the first generators is steady, start second generator.
- Connect and turn on electrical loads to the parallel panel receptacles.
- DO NOT disconnect parallel kit's power cables after engines have been started.
- Shut down engines as described in *Generator Shutdown*.

Charging a Battery

Your generator has the capability of recharging a discharged 12 Volt automotive or utility style storage battery.

NOTICE

- Not for use with any other type of battery.
- DO NOT use the unit to charge any 6 Volt batteries.
- DO NOT use the unit to crank an engine having a discharged battery.

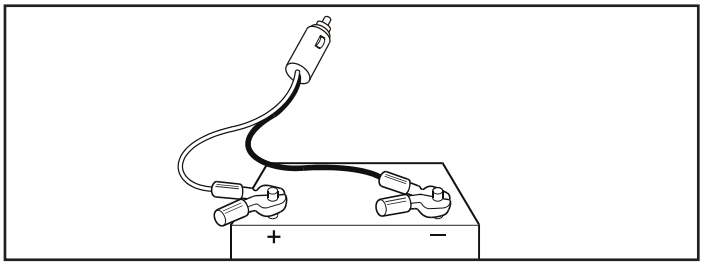
⚠ **WARNING** Storage batteries give off explosive hydrogen gas during recharging. Hydrogen gas stays near battery for a long time after battery has been charged. Slightest spark could ignite hydrogen causing explosion resulting in death or serious injury.

Battery electrolyte fluid contains acid and is extremely caustic. Contact with battery fluid could cause chemical burns resulting in serious injury.

- DO NOT allow any open flame, spark, heat, or lit cigarette during and for several minutes after charging a battery.
- Wear protective goggles, rubber apron, and rubber gloves.
- DO NOT continue to charge a battery that becomes hot or is fully charged.
- DO NOT leave battery unattended.

To recharge 12 Volt batteries, proceed as follows:

1. Make sure QPT switch is in OFF (0) position.
2. If necessary, clean battery posts or terminals.
3. Check fluid level in all battery cells. If necessary, add ONLY distilled water to cover separators in battery cells. **DO NOT use tap water.**
4. If the battery is equipped with vent caps, make sure they are installed and are tight.
5. Connect battery charge cable clamp with **red** handle to battery post or terminal indicated by **Positive**, **POS** or (**+**).



6. Connect battery charge cable clamp with **black** handle to battery post or terminal indicated by **Negative**, **NEG**, or (**–**).
7. Connect battery charge cable connector plug to the 12 Volt DC panel receptacle.
8. Start generator as described in *Starting The Engine*. Let the engine run while battery recharges.

NOTICE Normally a period of 30 to 120 minutes is sufficient to recharge a weak battery.

9. When battery has charged, shut down engine as described in *Stopping The Engine*.
10. Remove the battery charging cable from the generator and then disconnect from the battery posts.

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

Generator Capacity

To make sure your generator can supply enough running watts and 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. See following list for typical wattages.

Tool or Appliance	Running Watts*	Starting Watts**
Light Bulb - 75 Watt	75	-
Sump Pump	800	1200
Refrigerator/Freezer	800	2000
Water Well Pump - 1/3 HP	1000	2000
Window AC - 10,000 BTU	1200	1800
Furnace Fan Blower - 1/2 HP	800	1300
Microwave Oven - 1000 Watt	1000	-
Color Television - 42”	280	-
Personal Computer w/17” monitor	800	-
Garage Door Opener - 1/2 HP	480	520

* Typical wattages listed are approximate only. Check tool or appliance for actual wattage.

** Per Briggs & Stratton 628K, Starting Watts represents the momentary electrical current the generator can provide to start electric motors. Starting Watts does not represent the power required to continuously run electrical loads. Starting Watts is the maximum current that can momentarily be supplied when starting a motor, multiplied by the generator’s rated voltage.

2. Total the running watts. This is the amount of power your generator must produce to keep your items running. See following example:

Example

Tool or Appliance	Running Watts	Starting Watts
Window air conditioner	1200	1800
Refrigerator	800	2000
Television	280	—
Light (75 Watts)	75	—
	2355 Total Running Watts	2000 Highest Starting Watts

Total running watts = 2355
Highest starting watts = 2000
Total generator watts required = 4355

3. Estimate the starting watts you will need. Because not all motors start at the same time, total starting wattage can be estimated by adding only the item with the highest additional starting watts requirements to the total running watts from step 2.

Power Management

To manage generator power, sequentially add loads as follows:

1. With nothing connected to generator, start the engine outdoors.
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.

Step 6: Generator Shutdown

1. Turn off and unplug all electrical loads from generator panel receptacles. Never stop engine with electrical devices plugged in and turned on.
2. Let engine run at no-load for one minute to stabilize internal temperatures of engine and generator.
3. Turn engine switch to OFF (0) position.

Maintenance

Maintenance Schedule

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

Every 8 Hours or Daily
• Clean debris
• Check engine oil level
First 10 Hours
• Change engine oil
Every 50 Hours
• Service engine air cleaner and breather filter[1]
• Change engine oil[1]
Every 100 Hours
• Clean fuel strainer
• Service spark plug
• Inspect muffler and spark arrester
Every 250 Hours or Yearly
• Check valve clearance[2]

[1] Service more often under dirty or dusty conditions.

[2] See any authorized dealer for service.

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.

All service and adjustments should be made at least once each season. A new spark plug and clean air filter assure proper fuel-air mixture and help your engine run better and last longer. Follow requirements in *Maintenance Schedule*.

Cleaning

Daily or before use, look around and underneath the generator for signs of oil or fuel leaks. Clean any accumulated debris. Keep area around muffler free from any debris.

- Use a soft bristle brush to loosen caked on dirt or oil.
- Use a damp cloth to wipe exterior surfaces clean.

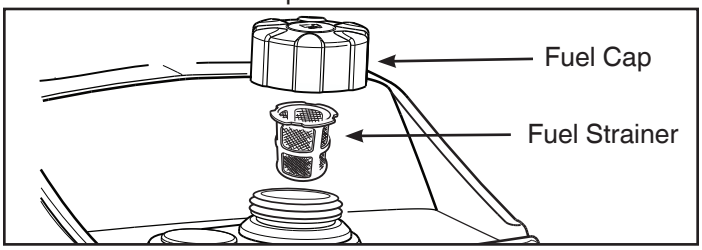
NOTICE Improper treatment of generator could damage it and shorten its life. Do not expose generator to excessive moisture, dust, dirt, or corrosive vapors. Do not insert any objects through cooling slots.

Cleaning Fuel Strainer

The fuel strainer helps prevent debris from entering the fuel system.

Clean the fuel strainer as follows:

1. Make sure generator is on a level surface.
2. Remove the fuel cap and fuel strainer.



3. Wash fuel strainer in liquid detergent and water.
4. Wipe fuel strainer clean with a clean, dry cloth.
5. Carefully reinstall the fuel strainer and fuel cap.

Engine Maintenance

Check Engine Oil Level

Oil level should be checked prior to each use or at least every 8 hours of operation. Keep oil level maintained. See *Checking/Adding Engine Oil*.

Changing Engine Oil

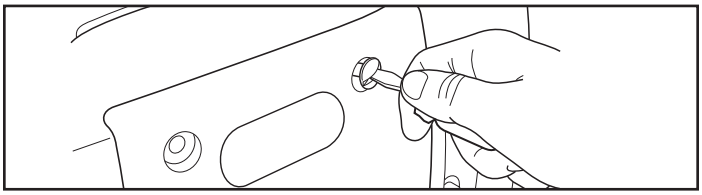
If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather, change the oil more often.

⚠ **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.

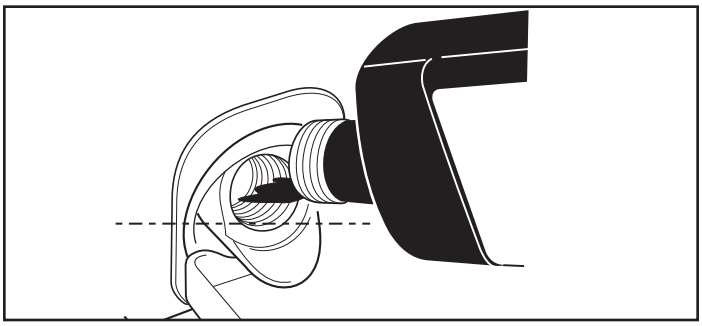
Change oil while engine is still warm from running, as follows:

1. Make sure unit is on a level surface.
2. Loosen the side maintenance cover screws and remove the side maintenance cover.



3. Clean area around oil fill and remove oil fill cap.
4. Tip your generator to drain oil from oil fill into a suitable container making sure you tip your unit toward the oil filler neck. When crankcase is empty, return generator to upright position.

5. Slowly pour oil (about 0.6 l (20 oz.)) into oil fill opening to the point of overflowing at oil fill cap. DO NOT overfill.



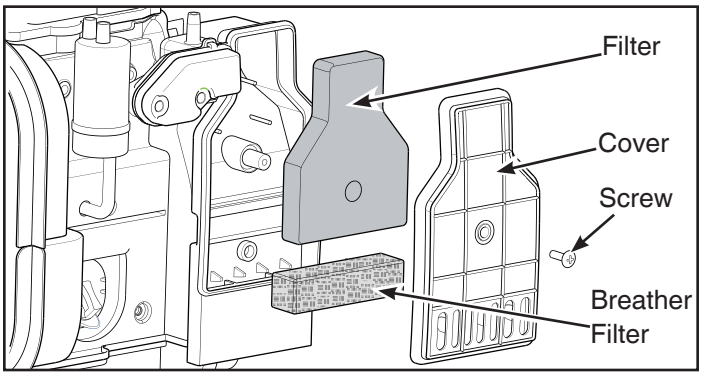
6. Reinstall oil fill cap. Finger tighten cap securely.
7. Wipe up any spilled oil.
8. Reinstall the side maintenance cover and hand tighten the cover screws.

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 the side maintenance cover screws and remove the side maintenance cover.
2. Loosen air cleaner cover screw and remove air cleaner cover.



3. Carefully remove foam air cleaner and breather filter by pulling them out towards you.
4. Wash foam air cleaner and breather filter in liquid detergent and water only. Squeeze dry in a clean cloth.

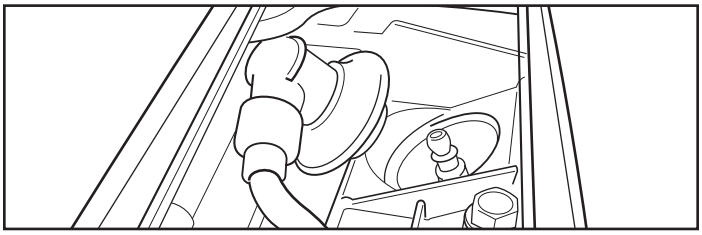
NOTICE If the filter is excessively dirty, replace with a new filter. See *Common Service Parts.*

5. SATURATE foam air cleaner in clean engine oil and squeeze in a clean cloth to remove excess oil.
6. Reinstall clean or new foam air cleaner and breather filter inside base.
7. Reinstall the air cleaner cover and tighten screw.
8. Reinstall the side maintenance cover and hand tighten the cover screws.

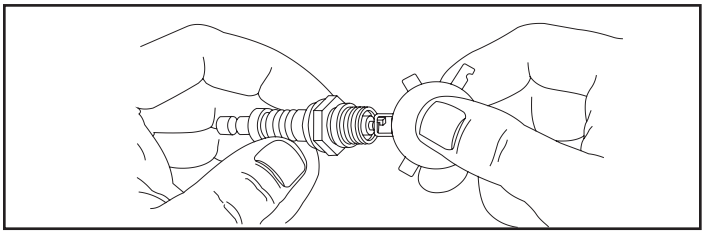
Service Spark Plug

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

1. Remove top maintenance cover.
2. Clean area around spark plug and remove spark plug boot.



3. Remove spark plug and inspect spark plug.



4. Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use the recommended replacement plug. See *Common Service Parts*.
5. Check electrode gap with wire feeler gauge and reset spark plug gap to recommended gap if necessary (see *Specifications*).
6. Install spark plug and tighten firmly. Reinstall spark plug boot.
7. Reinstall top maintenance cover.

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 using brush and commercial solvent or replace if damaged.

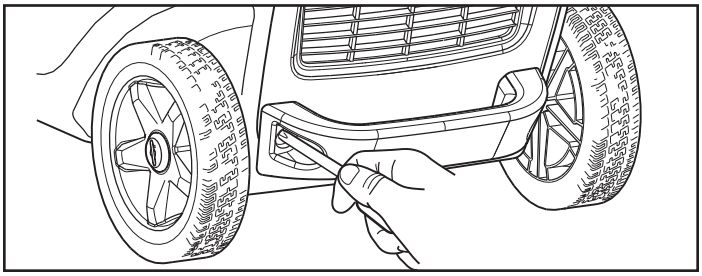


WARNING! Contact with muffler area could cause burns resulting in serious injury.

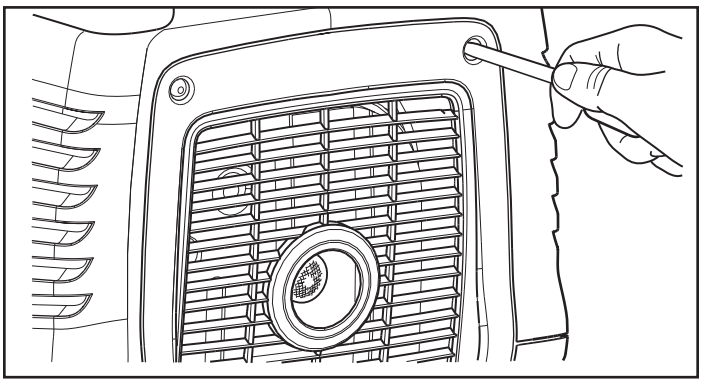
- Do not touch hot parts.

Clean and inspect the spark arrester as follows:

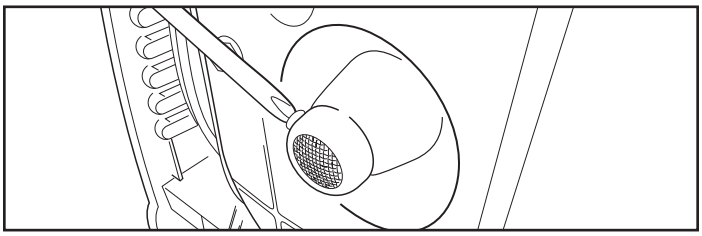
1. Remove two screws that attaches back bumper to muffler guard. Remove back bumper.



2. To remove muffler guard, remove four screws that connects guard to generator.



3. Remove screw that attaches spark arrester screen to muffler. Remove spark arrester screen.



4. 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 a brush.
5. Reattach screen to muffler. Reattach muffler guard.

Check Valve Clearance

Regular valve clearance check and adjustment will improve performance and extend engine life. This procedure cannot be done without partial engine disassembly and the use of special tools. For this reason we recommend that you have an authorized Service Dealer check and adjust valve clearance at recommended intervals (see *Maintenance Schedule*).

Common Service Parts

Foam Air Cleaner 705473
Breather Filter. 705475
Resistor Spark Plug . . . . . NGK BPR6ES
Engine Oil Bottle . . . . . 100005 or 100028
Synthetic Oil Bottle 100074
Fuel Stabilizer . . . . . 100120 or 100117

Contact an authorized service dealer or BRIGGSandSTRATTON.com for a full list of parts and diagrams.

Storage

If storing the unit for more than 30 days, use the following guidelines to prepare it for storage.

Long Term Storage Instructions

1. Clean the generator as outlined in *Cleaning*.
2. Change engine oil while engine is still warm, drain oil from crankcase. Refill with recommended grade. See *Changing Engine Oil*.
3. Treat or drain fuel from generator as 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. See *Common Service Parts.*

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 in tank. 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.

4. Store generator in clean, dry area and cover with a suitable protective cover that does not retain moisture.



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.

Troubleshooting/Specifications

Problem	Cause	Correction
Engine is running, but no AC output is available.	1. One of the circuit breakers is open. 2. Poor connection or defective cord set. 3. Connected device is bad.	1. Reset circuit breaker. 2. Check and repair. 3. Connect another device that is in good condition.
Engine runs well at no-load but "bogs down" when loads are connected.	1. Generator is overloaded.	1. See *Generator Capacity*.
Engine will not start; starts and runs rough or shuts down when running.	1. Engine switch set to off (0) position. 2. Low oil level. 3. Dirty air cleaner. 4. Out of fuel. 5. Spark plug wire not connected to spark plug. 6. Flooded with fuel.	1. Set switch to on (I) position. 2. Fill crankcase to proper level or place generator on level surface. 3. Clean or replace air cleaner. 4. Fill fuel tank. 5. Connect wire to spark plug. 6. Wait 5 minutes and re-crank engine.
For all other issues, see a Briggs & Stratton authorized dealer.		

Specifications

Starting Watts* . . . . . 3,000 Watts
Running Watts** . . . . . 2,600 Watts
Load Current:
at 230 Volts AC . . . . . 11.3 Amps
at 12 Volts DC . . . . . .5 Amps
Rated Frequency . . . . . 50 Hertz
Phase . . . . . Single Phase
Displacement . . . . . 171 cc (10.44 cu. in.)
Spark Plug Gap . . . . . 0.6-0.7 mm (0.023-0.027 in.)
Fuel Capacity . . . . . 5.7 L (1.5 U.S. Gallons)
Oil Capacity . . . . . 0.6 L (20 Ounces)
Sound Pressure @ 7 m§ . . . . . XX dBA

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.

* This generator is rated in accordance with Briggs & Stratton standard 628K.

** Generator rated in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-14, Motors and Generators.

§ Measured sound values in accordance to AS 2790-1989, Electricity Generating Sets - Transportable (Up to 25 kw).

Notes

Warranty

BRIGGS & STRATTON PRODUCTS WARRANTY POLICY

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 the warranty period listed below, or to the extent permitted by law. 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	Commercial Use
36 months	12 months

** 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 or commercial consumer. “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 a product has experienced commercial use, it shall thereafter be considered as a commercial use product for purposes of this warranty.

To ensure prompt and complete warranty coverage, register your product at the website shown above or at www.onlineproductregistration.com, or mail the complete registration card (if provided), or call 1-800-743-4115 (in USA).

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. Product registration is not required to obtain warranty service on Briggs & Stratton products.

ABOUT YOUR WARRANTY

Warranty service is available only through Briggs & Stratton Authorized Service Dealers. Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. This warranty covers only defects in materials or workmanship. It does not cover damage caused by improper use or abuse, improper maintenance or repair, normal wear and tear, or stale or unapproved fuel.

Improper Use and Abuse - The proper, intended use of this product is described in the Operator’s Manual. Using the product in a way not described in the Operator’s Manual or using the product after it has been damaged will not be covered under this warranty. Warranty coverage will also not be provided if the serial number on the product has been removed or the product has been altered or modified in any way, or if the product has evidence of abuse such as impact damage or water/chemical corrosion damage.

Improper Maintenance or Repair - This product must be maintained according to the procedures and schedules provided in the Operator’s Manual, and serviced or repaired using genuine Briggs & Stratton parts or equivalent. Damage caused by lack of maintenance or use of non-original parts is not covered by warranty.

Normal Wear and Tear - Like most mechanical devices, your unit is subject to wear even when properly maintained. This warranty does not cover repairs when normal use has exhausted the life of a part or the equipment. Maintenance and wear items such as filters, belts, cutting blades, and brake pads (except engine brake pads) are not covered by warranty due to wear characteristics alone, unless the cause is due to defects in material or workmanship.

Stale or Unapproved Fuel - In order to function correctly, this product requires fresh fuel that conforms to the criteria specified in the Operator’s Manual. Engine or equipment damage caused by stale fuel or the use of unapproved fuels (such as E15 or E85 ethanol blends) is not covered by warranty.

Other Exclusions - This warranty excludes damage due to accident, abuse, modifications, alterations, improper servicing, freezing or chemical deterioration. Attachments or accessories that were not originally packaged with the product are also excluded. There is no warranty coverage on equipment used for primary power in place of utility power or on equipment used in life support applications. This warranty does not include used, reconditioned, second-hand, or demonstration equipment or engines. This warranty also excludes failures due to acts of God and other force majeure events beyond the manufacturer’s control.

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