

# Portable Generator Operator's Manual



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

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC MILWAUKEE, WISCONSIN, U.S.A.



**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 these original instructions 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.

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Model Number	
Revision	
Serial Number	
Engine	70 70
Model Number	
Type Number	
Code Number	
D . D	0-0
Date Purchased	

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### **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 equipped with a voltage regulator. The voltage regulator is designed to automatically maintain a constant output voltage level. 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 3600 rpm by a single cylinder engine.

This generator incorporates GFCI (Ground Fault Circuit Interrupter) outlet protection and has its neutral bonded to ground to comply to OSHA inspections on job sites. This generator will not function when connected to a 2 pole transfer switch since the home or building main breaker box also has a neutral bonded to ground. When both the generator and the home or building breaker box contains a neutral bonded to ground, the generators GFCI will open and no outlets will function.

warning Electric Shock Hazard could result in death or serious injury. Removing neutral bond will disable GFCI protection.

· DO NOT remove the neutral bond.

**NOTICE** Exceeding generators wattage/amperage capacity can 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





Explosive Pressure

Chemical Burn

⚠ 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 injury.

**A 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.

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

**NOTICE** address practices not related to personal injury.

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

▲ WARNING 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.

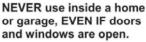
#### **A DANGER**

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.











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

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.



▲ 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, serious injury and/or property damage.

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

- · 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.

▲ 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.



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

damage.

#### 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
- · Disconnect spark plug wire.

#### WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

· Store away from turnaces, 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 and/or property damage.

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, trayed, 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, serious injury and/or property damage.

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.

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

▲ 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.

▲ CAUTION Excessively high operating speeds could result in minor injury and/or generator damage. Excessively low 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.

**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 **(800) 743-4115**. If calling for assistance, please have the model, revision, and serial number from the identification label available. See *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 (2)
- · Operator's manual
- · Battery charge cables
- · Battery float charger
- · Wheel kit
- · 120/240 Volt, 30 Amp locking plug
- 120 Volt, 30 Amp locking plug

#### Install Wheel Kit

NOTICE Wheel kit is not intended for over-the-road use.

You will need the following tools to install these components:

- · 3/8" and 13 mm wrench
- · Socket wrench with a 3/8" and a 13 mm socket
- · Pliers
- · Safety glasses

#### Install the wheel kit as follows:

- Tip generator so that engine end is up.
- 2. Slide axle (A) through both mounting brackets.
- 3. Slide a wheel (B) over axle.

NOTICE Be sure to install wheel with raised hub inboard.

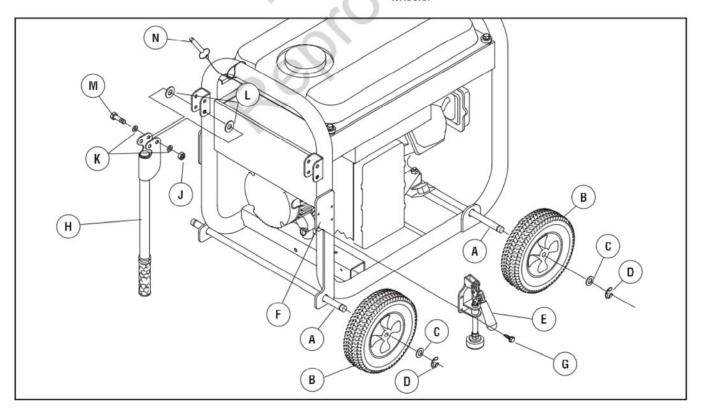
 Place a washer (C) on axle and then place an e-ring (D) in axle groove.

▲ CAUTION E-rings could cause eye injury.



E-rings could spring back and become airborne when installing or removing, resulting in moderate injury.

- Always wear eye protection when installing/removing e-rings.
  - Install e-ring with pliers, squeezing from top of e-ring to bottom of axle.
  - 6. Repeat steps 3 through 5 to secure second wheel.
  - 7. Tip generator so that engine side is down.
  - 8. Attach clamps (**E**) to brackets (**F**) on both sides of generator with 1/4 20 hex screws (**G**).
  - Repeat steps 2 through 5 to secure the third and fourth wheels.



10. Attach handles (H) to brackets on generator frame as shown, with 45 mm capscrews (J), flat washers (K). nylon washers (L), and M8 lock nuts (M).

NOTICE DO NOT overtighten. Handles must be able to move up and down freely.

- 11. Return generator to normal operating position (resting on wheels).
- 12. To apply brakes, push down firmly on handle of both clamps until it locks in the down position and engages the wheels.

**NOTICE** The generator is designed to be used on level surfaces. Always face generator and push to desired location.

- 13. Loop handle pins (N) on generator frame just above handle brackets.
- Raise handles and insert handle pins to move generator.
- 15. To release brakes, pull up on handle of both clamps until it locks in the up position.

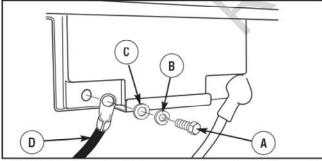
#### Attach Negative Battery Cable

Your unit is equipped with electric start capability but can be started manually. If you choose not to use the electric start feature, you do not need to connect the negative battery cable. The sealed battery on the generator pre-installed except for the negative (black) battery cable.

▲ WARNING Battery posts, terminals and related accessories contain lead and lead compounds - chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

#### To install:

- Cut off tie wrap securing loose end of negative (black)
- 2. Using an 8 mm or 5/16" socket wrench, remove screw (A), lock washer (B) and flat washer (C) on negative battery terminal.

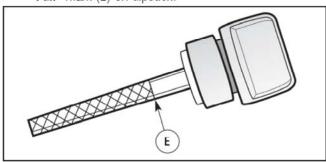


- 3. Slide lock washer, flat washer and negative battery cable (D) over screw as shown.
- 4. Reattach screw to negative battery terminal and tighten.
- 5. Verify that connections to battery and generator are tight and secure.

**NOTICE** If your battery is discharged, charge prior to use following the instructions in the section Battery Charger.

#### Add Engine Oil

- Place generator on a flat, level surface.
- 2. Clean area around oil fill and remove vellow oil fill cap/dipstick.
- 3. Using oil funnel (optional), slowly pour contents of both provided oil bottles into oil fill opening to the "Full" mark (E) on dipstick.



**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.
  - Replace oil fill cap/dipstick 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.

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

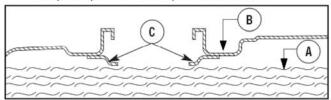
#### WHEN ADDING FUEL

- 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.

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).

- 1. 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 a Briggs & Stratton 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, trayed, 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

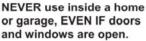
#### **A DANGER**

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.



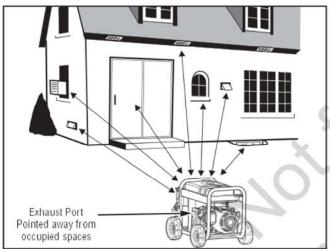








Only use OUTSIDE and far away from windows, doors, and vents.



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

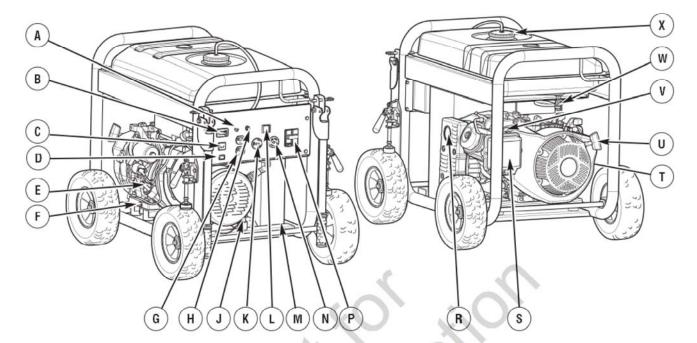
▲ WARNING Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death, serious injury and/or property damage.

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 Battery Float Charger Jack Use battery float charger jack to keep the starting battery charged and ready for use.
- **B Hour Meter** Displays and records how many hours your generator has run (up to 9,999.9).
- C 12 Volt DC Receptacle Use this receptacle with battery charge cables to charge a 12 Volt battery.
- D Start Switch Push to start the engine.
- E Oil Fill Cap/Dipstick Check and add engine oil here.
- F Oil Drain Plug Drain engine oil here.
- G 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.
- H Circuit Breaker (AC) The 120 Volt AC, 20A duplex receptacle is provided with a "push to reset" circuit breaker to protect the generator against electrical overload.
- J Grounding Fastener If required, please consult a qualified electrician, electrical inspector, or local agency having jurisdiction.
- K 120 Volt AC, 30 Amp Locking Receptacle May be used to supply electrical power for the operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

- L Rocker Switch Set this switch to on (I) before starting engine. Set switch to off (0) to turn off engine.
- M Identification Label Provides model, revision and serial number of generator. Please have these readily available if calling for assistance.
- N 120/240 Volt AC, 30 Amp Locking Receptacle May be used to supply electrical power for the operation of 120 and/or 240 Volt AC, 30 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.
- P GFCI Circuit Breaker A GFCI circuit breaker is provided to protect against electrical ground fault and protect the generator against electrical overload.
- R Spark Arrester Muffler Exhaust muffler lowers engine noise and is equipped with a spark arrester screen.
- S Air Cleaner Protects engine by filtering dust and debris out of intake air.
- T Engine Identification Provides model, type and code of engine. Please have these readily available if calling for assistance.
- U Recoil Starter Used to start the engine.
- V Choke Lever Used when starting a cold engine.
- W Fuel Valve Used to turn fuel supply on and off to engine.
- X Fuel Tank Capacity of seven (7) U.S. gallons.

#### Cord Sets and Receptacles

Use only high quality, well-insulated, grounded extension cords with the generator's 120 Volt duplex receptacle. Inspect extension cords before each use.

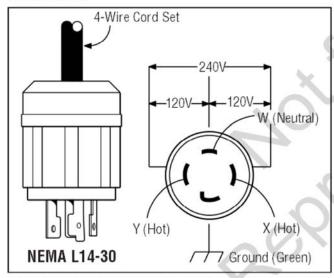
Check the ratings of all extension cords before you use them. Extension cord sets used should be rated for 125 Volt AC loads at 20 Amps or greater for most electrical devices. Some devices, however, may not require this type of extension cord. Check the operator's manuals of those devices for the manufacturer's recommendations.

▲ WARNING Overloaded electrical cords can overheat, arc, and burn resulting in death, bodily injury, and/or property damage.

- · ONLY use cords rated for your loads.
- · Follow all sateties on electrical cords.

#### 120/240 Volt AC, 30 Amp, Locking Receptacle

Use a NEMA L14-30 plug with this receptacle. Connect a 4-wire cord set rated for 250 Volt AC loads at 30 Amps (or greater). You can use the same 4-wire cord if you plan to run a 120 Volt load.



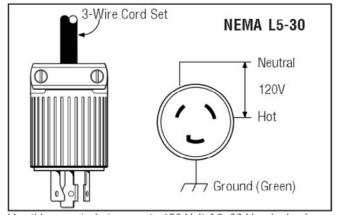
This receptacle powers 120/240 Volt AC, 60 Hz, single phase loads requiring up to 7,200 watts of power (7.2 kW) at 30 Amps for 240 Volts or two independent 120 Volt loads at 30 Amps each. The outlet is protected by a 2 pole GFCI circuit breaker.

**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, 30 Amp Locking Receptacle

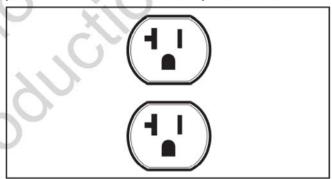
Use a NEMA L5-30 plug with this receptacle. Connect a 3-wire cord set rated for 125 Volt AC loads at 30 Amps to the plug.



Use this receptacle to operate 120 Volt AC, 60 Hz, single phase loads requiring up to 3,600 watts (3.6 kW) of power at 30 Amps. The outlet is protected by a 2 pole GFCI circuit breaker.

#### 120 Volt AC, 20 Amp, Duplex Receptacle

The duplex receptacle is protected against overload by a push-to-reset circuit breaker and/or 2 pole GFCI circuit breaker.



Use 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). Inspect cord sets before each use.

#### 12 Volt DC, 10 Amp Receptacle

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



This receptacle can not recharge 6 Volt batteries and can not be used to crank an engine having a discharged battery. See the section *Charging a Battery* before attempting to recharge a battery.

#### **Ground Fault Protection**

This unit is equipped with a Ground Fault Circuit Interrupter (GFCI). This device meets applicable federal, state and local codes.

The GFCI protects against electrical shock that may be caused if your body becomes a path which electricity travels to reach ground. This could happen if you touch a "Live" appliance or wire, or are touching plumbing or other materials that connect to the ground.

When protected by a GFCI, one may still feel a shock, but the GFCI should cut current off quickly enough so that a person in normal health should not suffer any serious electrical injury.

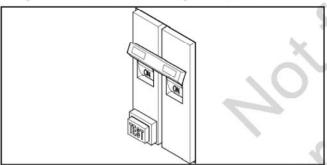
A WARNING Electric Shock Hazard could result in death or serious injury.

- The GFCI will not protect you against the following situations:

   Line-to-line shocks:
  - -Current overloads or line-to-line short circuits.
- The tuse or circuit breaker at the control panel must provide such protection.

#### Test GFCI Circuit Breaker

Test your GFCI circuit breaker every month, as follows:



 While generator is running, push white "Test" button. The circuit breaker should trip (handle will move to approximate center position), which will disconnect power to outlets.

**NOTICE** If circuit breaker does not trip:

- · DO NOT use generator.
- · Call a Briggs & Stratton Power Products service center.
  - If handle moves to center, reset circuit breaker by firmly moving handle to "Off" (down) position, then to "On" (up) position.

**NOTICE** If circuit breaker does not reset properly:

- · DO NOT use generator.
- · Call a Briggs & Stratton Power Products service center.

#### **During Generator Use**

If circuit breaker trips during use, it usually indicates faulty electrical equipment or cords. However, test the circuit breaker as follows;

 Disconnect loads, reset and test circuit breaker as described earlier. Let generator run without any loads for 1 minute. **NOTICE** If circuit breaker trips in the 1 minute period:

- DO NOT use generator.
- · Call a Briggs & Stratton Power Products service center.
  - If circuit breaker tests correctly, the electrical equipment or extension cords may be faulty. Replace faulty electrical equipment and cords before further use.

**NOTICE** If circuit breaker tests correctly:

- Have qualified personnel check all electrical equipment and cords for any detects.
- Replace electrical equipment and cords or take to a qualified repair center.

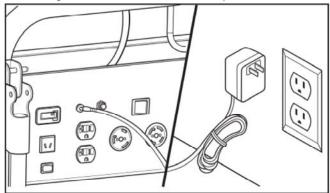
WARNING Electric Shock Hazard could result in death or serious injury.

- . 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 or electrical loads.

#### Battery Charger

Use battery float charger jack to keep the starting battery charged and ready for use. Battery charging should be done in a dry location, such as inside a garage.

 Plug charger into unit's "Battery Float Charger" jack, which is located on the control panel. Plug battery charger into a 120 Volt AC wall receptacle.



- Unplug charger from unit and wall outlet when generator is being started and while it is in operation.
- Keep this charger plugged in when generator is not in use to prolong battery life. The charger has a built in float equalizer and will not overcharge the battery, even when plugged in for an extended period of time.

**NOTICE** See Battery Maintenance for additional information.

### Operation

#### Starting the Engine

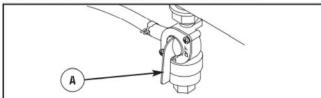
**NOTICE** Always unplug the battery float charger before starting the generator.

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

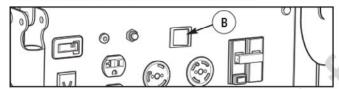
1. Make sure unit is on a level surface.

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

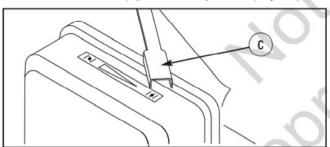
2. Turn the fuel valve (A) to the "On" position.



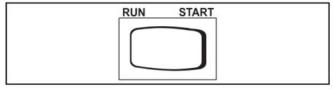
3. Push rocker switch (B) to on position (I).



4. Push choke lever (C) to "Choke" position (N).



5A. For electric starting, push and hold the start switch in "Start" position until generator starts. To prolong the life of starter components, DO NOT hold start switch in "Start" position for more than 5 seconds, and pause for at least 1 minute between starting attempts.



- · If engine starts, proceed to step 7.
- If engine fails to start, proceed to step 6.

**NOTICE** If battery is discharged, use manual starting instructions.

- 5B. **For manual starting**, 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.

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.
- Move choke lever to "Half" choke position, and pull recoil handle twice or push and hold the start switch in the "Start" position as described in step 5A.
  - If engine fails to start, repeat steps 4 thru 5.
- Slowly move choke lever to "Run" (I+I) position. If engine falters, move choke lever to "Half" choke position until engine runs smoothly, and then to "Run" (I+I) position.

**NOTICE** If engine floods, push choke handle all the way in 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



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

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.
- 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 can 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

- 1. Turn OFF and unplug all electrical loads from generator panel receptacles. NEVER start or stop engine with electrical devices plugged in and turned ON.
- 2. Let engine run at no-load for several minutes to stabilize internal temperatures of engine and generator.
- 3. Push rocker switch to stop position (0).



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

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

#### Oil Pressure Shutdown

If engine oil pressure drops below a preset level, an oil switch will stop the engine. Check oil level with dipstick.

#### If oil level is between ADD and FULL mark on dipstick:

- 1. DO NOT try to restart the engine.
- 2. Contact a Briggs & Stratton Authorized Dealer.
- 3. DO NOT operate engine until oil pressure is corrected.

#### If oil level is below ADD mark on dipstick:

- 1. Add oil to bring level to FULL mark.
- 2. Restart engine and if the engine stops again a low oil pressure condition may still exist. DO NOT try to restart the engine.
- 3. Contact a Briggs & Stratton Authorized Dealer.
- 4. DO NOT operate engine until oil pressure is corrected.

#### Charging a Battery

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

- DO NOT use the unit to charge any 6 Volt batteries.
- . DO NOT use the unit to crank an engine having a discharged battery.



▲ 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, serious injury and/or property damage.

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

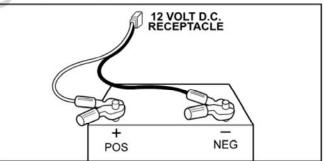
- DO NOT allow any open flame, spark, heat, or lit cigarette during and for several minutes after charging a battery.
- · Wear protective goggles, rubber apron, and rubber gloves.
- DO NOT continue to charge a battery that becomes hot or is fully charged.
- DO NOT leave battery unattended.

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

1. Check fluid level in all battery cells. If necessary, add ONLY distilled water to cover separators in battery cells. DO NOT use tap water.

▲ WARNING Battery posts, terminals and related accessories contain lead and lead compounds - chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

- 2. If battery is equipped with vent caps, make sure they are installed and are tight.
- 3. If necessary, clean battery terminals.
- 4. Connect battery charge cable connector plug to panel receptacle identified by the words "12V 10A D.C."
- 5. Connect battery charge cable clamp with red handle to the positive (+) battery terminal.



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

**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.

#### 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 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.
- 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.

Tool or Appliance   Running* (Rated) watts   Starting (Surge) watts	Wattage Reference Guide		
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 — Stereo Receiver 450 — Color Television - 27 in 500 — Personal Computer w/17 in 800 — Personal Computer w/17 in 800 — M/FM Clock Radio 100 — 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	Tool or Appliance	(Rated)	Starting (Surge)
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 —  Color Television - 27 in 500 —  Personal Computer w/17 in 800 —  Other  Security System 500 —  AM/FM Clock Radio 100 —  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	Essentials		
Sump Pump - 1/3 HP   800   1300	Light Bulb - 75 watt	75	_
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   —     Color Television - 27 in   500   —     Personal Computer w/17 in monitor   MM/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   —     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	Furnace Fan Blower - 1/2 HP	800	2350
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         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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	Sump Pump - 1/3 HP	800	1300
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   —   VCR   100   —   Stereo Receiver   450   —   Color Television - 27 in   500   —   Personal Computer w/17 in monitor   800   —   M/FM Clock Radio   100   —   AM/FM Clock Radio   100   —   Garage Door Opener - 1/2 HP   875   2350   Electric Water Heater   4700   11700   DIY/Job Site   Guartz 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	Refrigerator/Freezer	700	2200
Window AC - 10,000 BTU       1200       3600         Humidifier - 13 Gal       175       —         Central AC - 24,000 BTU       3800       11400         Kitchen       Interview of the process o	Water Well Pump - 1/2 HP	1000	2100
Humidifier - 13 Gal	Heating/Cooling		
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         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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         —         4700         11700           DIY/Job Site         —         600         1200           Reciprocating Saw         960         —           Electric Drill - 1/2 HP, 5.4 Amps         600         900           Circular Saw - 7-1/4 in         1400         2300 <t< td=""><td>Window AC - 10,000 BTU</td><td>1200</td><td>3600</td></t<>	Window AC - 10,000 BTU	1200	3600
Kitchen         Microwave Oven - 1000 Watt         1000         —           Coffee Maker         1000         —           Electric Stove - 8" Element         2100         —           Toaster         850         —           Family Room         100         —           DVD/CD Player         100         —           VCR         100         —           Stereo Receiver         450         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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	Humidifier - 13 Gal	175	_
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         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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         1	Central AC - 24,000 BTU	3800	11400
Coffee Maker         1000         —           Electric Stove - 8" Element         2100         —           Toaster         850         —           Family Room         —         —           DVD/CD Player         100         —           VCR         100         —           Stereo Receiver         450         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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	Kitchen		
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Toaster         850         —           Family Room         100         —           DVD/CD Player         100         —           VCR         100         —           Stereo Receiver         450         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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	Coffee Maker	1000	1
DVD/CD Player	Electric Stove - 8" Element	2100	7
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VCR         100         —           Stereo Receiver         450         —           Color Television - 27 in         500         —           Personal Computer w/17 in monitor         800         —           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	Family Room	0-10/02/0	
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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	Security System	500	
Electric Water Heater       4700       11700         DIY/Job Site       1000       —         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	AM/FM Clock Radio	100	1
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	Garage Door Opener - 1/2 HP	875	2350
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	Electric Water Heater	4700	11700
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	DIY/Job Site		
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	Quartz Halogen Work Light	1000	2
Electric Drill - 1/2 HP, 5.4 Amps       600       900         Circular Saw - 7-1/4 in       1400       2300         Miter Saw - 10 in       1800       1800	Airless Sprayer - 1/3 HP	600	1200
Circular Saw - 7-1/4 in         1400         2300           Miter Saw - 10 in         1800         1800		960	_
Circular Saw - 7-1/4 in         1400         2300           Miter Saw - 10 in         1800         1800	Electric Drill - 1/2 HP, 5.4 Amps	600	900
Constitution of the Consti		1400	2300
T. I. Di	Miter Saw - 10 in	1800	1800
lable Planer - 6 in   1800   1800	Table Planer - 6 in	1800	1800
Table Saw/Radial Arm Saw - 10 in 2000 2000	1.000,000,000,000,000,000,000,000,000,00		
Air Compressor - 1 HP 1600 4500			100000000000000000000000000000000000000

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

<sup>\*</sup> 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

· Clean engine air filter1

#### Every 50 Hours or Yearly

· Change engine oil1

#### Yearly

- Replace engine air filter¹
- · 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. A new spark plug 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.

#### **Battery Maintenance**

Other than float charging, described elsewhere, no maintenance is required for the starting battery. Keep the battery and terminals clean and dry.

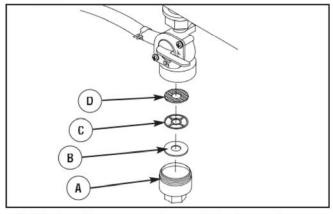
**NOTICE** Battery charging should be performed in a dry location, such as inside a garage.

▲ WARNING Battery posts, terminals and related accessories contain lead and lead compounds - chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

#### **Fuel Valve Maintenance**

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

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



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

#### **Engine Maintenance**

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.

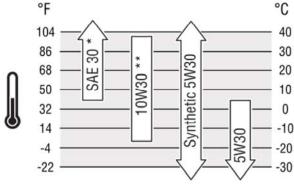
#### WHEN TESTING FOR ENGINE SPARK

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

#### 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.

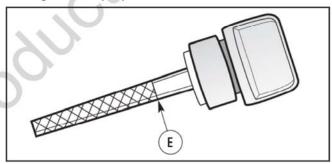
#### Checking Oil Level

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

- Make sure generator is on a level surface.
- Clean area around oil fill, remove oil cap/dipstick and wipe dipstick with clean cloth. Replace dipstick. Remove and and check oil level.

NOTICE DO NOT screw in dipstick when checking oil level.

Verify oil is at "Full" mark (E) on dipstick. Replace and tighten oil cap/dipstick.



#### Adding Engine Oil

- Make sure generator is on a level surface.
- 2. Check oil level as described in Checking Oil Level.
- If needed, slowly pour oil into oil fill opening to the "Full" mark on dipstick. DO NOT overfill.

**NOTICE** Overfilling with oil could cause the engine to not start, or hard starting.

- DO NOT overtill.
- If over the FULL mark on dipstick, drain oil to reduce oil level to FULL mark on dipstick.
  - Replace and tighten oil cap/dipstick.

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

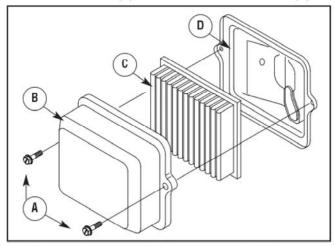
- 1. Make sure unit is on a level surface.
- 2. Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.
- 3. Clean area around oil drain plug. The oil drain plug is located at base of engine, opposite carburetor.
- Remove oil drain plug and drain oil completely into a suitable container.
- Reinstall oil drain plug and tighten securely. Remove oil cap/dipstick.
- Slowly pour recommended oil (about 36 oz.) into oil fill opening. Pause to permit oil to settle. Fill to "Full" mark on dipstick.
- Wipe dipstick clean each time oil level is checked. DO NOT overfill.
- 8. Reinstall oil cap/dipstick. Tighten cap securely.
- 9. 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 (A) and remove air cleaner cover (B).

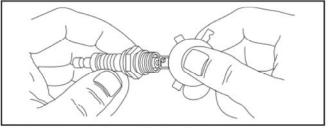


- 2. Carefully remove cartridge (C) from base (D)
- Install clean (or new) air cleaner assembly inside cover. Dispose of old filter properly.
- Assemble air cleaner cover onto base and tighten screws.

#### 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.
- Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use the recommended replacement spark plug. See Specifications.
- Check electrode gap with wire feeler gauge and reset spark plug gap to recommended gap if necessary (see Specifications).



5. Install spark plug and tighten firmly.

#### Inspect Muffler and Spark Arrester

Inspect the muffler for cracks, corrosion, or other damage. Remove the spark arrester, if equipped, and inspect for damage or carbon blockage. 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, serious injury and/or property damage.

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

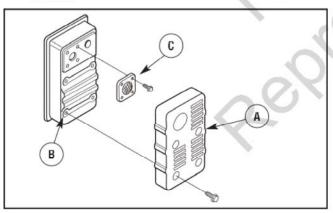
- · DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, 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 and inspect the spark arrester as follows:

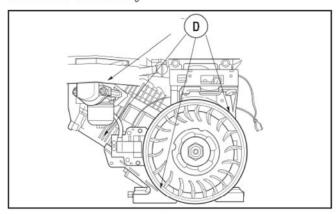
1. To remove muffler heat shield (A) from muffler (B), remove four screws that connect guard to muffler bracket



- 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.
- 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 an authorized service 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 an authorized service dealer.

A CAUTION Excessively high operating speeds could result in minor injury and/or generator damage. Excessively low 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, serious injury and/or property damage.

#### 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.
- 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. Cover unit with a suitable protective cover that does not retain moisture.

▲ WARNING Storage covers could cause a fire resulting in death, serious injury and/or property

- 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

Problem	Cause	Correction	
Engine is running, but no AC	GFCI circuit breakers is open.     Fault in generator.	Reset circuit breaker.     Contact Briggs & Stratton authorized dealer.	
output is available.	Poor connection or defective cord set.     Connected device is bad.	Check and repair.     Connect another device that is in good condition.	
Engine runs good at no-load but "bogs down" when loads are connected.	Short circuit in a connected load.     Engine speed is too slow.     Generator is overloaded.     Shorted generator circuit.     Clogged or dirty fuel filter.	<ol> <li>Disconnect shorted electrical load.</li> <li>Contact Briggs &amp; Stratton authorized dealer.</li> <li>See Don't Overload Generator.</li> <li>Contact Briggs &amp; Stratton authorized dealer.</li> <li>Clean or replace fuel filter.</li> </ol>	
	<ol> <li>Rocker switch set to off (0) position.</li> <li>Fuel valve is in "Off" position.</li> <li>Low oil level.</li> <li>Dirty air cleaner.</li> </ol>	<ol> <li>Set switch to on (I) position.</li> <li>Turn fuel valve to "On" position.</li> <li>Fill crankcase to proper level or place generator on level surface.</li> <li>Clean or replace air cleaner.</li> </ol>	
	<ul><li>5. Clogged or dirty fuel filter.</li><li>6. Out of fuel.</li><li>7. Stale fuel.</li></ul>	<ul><li>5. Clean or replace fuel filter.</li><li>6. Fill fuel tank.</li><li>7. Drain fuel tank and carburetor; fill with fresh fuel.</li></ul>	
Engine will not start, starts and runs rough or shuts down when running.	Spark plug wire not connected to spark plug.     Bad spark plug.	Connect wire to spark plug.     Replace spark plug.	
	10. Water in fuel.	Drain fuel tank and carburetor; fill with fresh fuel.	
	11. Flooded. 12. Excessively rich fuel mixture.	<ul><li>11. Wait 5 minutes and re-crank engine.</li><li>12. Contact Briggs &amp; Stratton authorized dealer.</li></ul>	
	13. Intake valve stuck open or closed.	13. Contact Briggs & Stratton authorized dealer.	
	14. Engine has lost compression.	Contact Briggs & Stratton authorized dealer.	
Engine lacks power.	<ol> <li>Load is too high.</li> <li>Dirty air filter.</li> <li>Clogged or dirty fuel filter.</li> </ol>	<ol> <li>See Don't Overload Generator.</li> <li>Replace air filter.</li> <li>Clean or replace fuel filter.</li> </ol>	
Engine "hunts" or falters.	Carburetor is running too rich or too lean.     Clogged or dirty fuel filter.	Contact Briggs & Stratton authorized dealer.     Clean or replace fuel filter.	

### **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 2011-2012 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, fuel tank, ignition system, and catalytic converter. Also included may be hoses, belts, connectors, sensors, and other emissions-related assemblies. 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 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.

#### 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 (414) 259-5262.

#### 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
  - 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

and/or B&S supplied fuel system.

- · 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.

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 emissions standards. For Phase 2 certified engines, 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 PRO-SERIES GENERATOR OWNER WARRANTY POLICY

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

Engine All other components

Consumer Use 3 years 2 years\*
Commercial Use 3 years 2 years\*

\*Second year parts only

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 adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon, lime, etc.).
- 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 generator adapter cord sets and storage covers are excluded from the product warranty. This
  warranty excludes failures due to acts of God and other force majeure events beyond the manufacturers control. Also excluded is used, reconditioned, and demonstration
  equipment; equipment used for prime power in place of utility power and equipment used in life support applications. 198184E, Rev. E, 05/31/2012

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

<sup>\*\*</sup> In Australia - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or retund 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 in 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 BRIGGSandSTRATION.COM, or by calling 1300 274 447, or by emailing or writing to sale senguires@briggsandstratton.com.au, Briggs & Stratton Australia Pty Ltd, 1 Moorebank Avenue, NSW, Australia, 2170.







### Portable Generator

### Product Specifications

Starting Wattage9,375 Watts
Wattage*
AC Voltage120/240 Volts
at 240 Volts
at 120 Volts
Frequency
Phase
Displacement
Spark Plug Gap
Fuel Capacity 7 U.S. Gallons (26.5 Liters)
Oil Capacity

### **Common Service Parts**

Air Cleaner	491588 or 5043
Resistor Spark Plug	
Engine Oil Bottle	100005 or 100028
Synthetic Oil Bottle	
Fuel Stabilizer	100120 or 100117

Power Ratings: The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; 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 gas 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 Series engine.

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

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