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).

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 generators 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
You never have to look far to find Briggs & Stratton support and service for your generator. There are thousands of Briggs & Stratton authorized service dealers worldwide who provide quality service. You can also find the nearest Authorized Service Dealer in our dealer locator map on the Internet at BRIGGSandSTRATTON.COM.

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Safe Operation Checklist

Safe operation of the portable generator requires the completion of the following tasks:

**Carbon Monoxide (CO) Alarm**
- Carbon monoxide (CO) alarm(s) in working order.

**Smoke Alarm**
- Smoke alarm(s) in working order.

**Generator Location**
- Generator placed in a Carbon Monoxide (CO) safe zone. See Generator Location to reduce the Risk of Carbon Monoxide Poisoning.
- Generator placed in a fire safe zone. See Generator Location to reduce the Risk of Fire.
- Generator located on flat and level surface.

**Oil and Fuel**
- Engine oil filled to proper level. See Add Engine Oil.
- Fuel tank filled at or below red indicator. See Add Fuel.
- Inspect fuel lines, tank, cap and fittings each time before using generator. DO NOT use if fuel leak or damage is found.

**Electrical**
- When connecting to a building's electrical system install listed transfer equipment. See Connecting to a Building's Electrical System.
- Electrical cords are rated for intended loads. See Cord Sets and Receptacles.
- Electrical cords do not run through doorways, windows, holes in ceilings, walls or floors. Inspect electrical cords thoroughly before each use. DO NOT use if damaged.
- All labeled electrical cord safety symbols are understood and being followed.

**Operation**
- Start engine. See Starting the Engine.
Operator Safety

Equipment Description

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

The generator is an engine-driven, revolving field, alternating current (AC) generator. It was designed to supply electrical power for operating compatible electrical lighting, appliances, tools and motor loads. The generator’s revolving field is driven at about 3,000 rpm by a single-cylinder engine. 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.

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 and Control Symbols

- Toxic Fumes
- Kickback
- Electrical Shock
- Suffocation
- Fire
- Operator’s Manual
- Explosion
- Suffocation
- Moving Parts
- Flying Objects
- Hot Surface
- Heavy Objects
- Carbon Monoxide Alarm
- Alarm
- Bonded to Ground
- Ground Terminal
- Choke
- Run
- Off
- On
- Volt Meter
- Oil Level
- Fuel
- Start
- Circuit Breaker
- Engine Control
- Do Not Start Engine

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.

- DANGER indicates a hazard which, if not avoided, will result in death or serious injury.
- WARNING indicates a hazard which, if not avoided, could result in death or serious injury.
- CAUTION indicates a hazard which, if not avoided, could result in minor or moderate injury.
- NOTICE address practices not related to personal injury.

WARNING POISONOUS GAS HAZARD. Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT see it, smell it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas. 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.

- 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 the product has shut off.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces.

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

- Use approved transfer equipment to prevent backfeed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.
- DO NOT connect generator to a building’s electrical system.
- Use a residual-current circuit breaker with overload protection device (RCBO) in any damp or highly conductive area, such as metal decking or steel work.
- DO NOT touch bare wires or receptacles.
- DO NOT use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- DO NOT operate generator in the rain or wet weather.
- DO NOT handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.
**WARNING** Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 1.5 m (5 ft.) of clearance on all sides of generator including overhead.
- 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 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.

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

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

**WHEN STARTING EQUIPMENT**
- Ensure spark plug, muffler, fuel cap, and air cleaner are in place.
- 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 spill.
- DO NOT stop engine by moving choke control to “Choke” position (\[\text{X}\]).

**WHEN TRANSPORTING, MOVING OR REPAIRING EQUIPMENT**
- Transport/move/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- Disconnect spark plug wire.

**WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK**
- Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they could ignite fuel vapors.

**CAUTION** Excessively high operating speeds could result in minor injury. Excessively low speeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine 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 is ready for use after it has been properly serviced with the recommended petrol and oil.
If you have any problems with the servicing of your generator, contact your local Briggs & Stratton service center. If you need assistance, please have the model, revision, and serial number from the identification label available. See Features and Controls for identification label location.

Unpack Generator
1. Set the carton on a rigid, flat surface.
2. Remove everything from carton.

The generator is supplied with:
- Operator’s manual
- Wheel kit
- Bottle of engine oil (2)
- Battery float charger (model 030620 only)
- Keys (2) (model 030620 only)

Install Wheel Kit  Figure 1

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

Install the wheel kit as follows:
1. Tip generator so that engine end is up.
2. Slide a washer (A) over axle stud (B).
3. Slide a wheel (C) over axle stud (B).

NOTICE Be sure to install wheel with raised hub inboard.
4. Slide axle stud (B) through mounting bracket.
5. Insert retaining pin (D) through hole on axle stud.
6. Repeat steps 2 thru 5 to secure second wheel.
7. Line up holes in support leg (E) with holes in generator frame.
8. Attach support leg using four capscrews (F) and four flange nuts (G). Tighten with 10 and 13 mm wrenches.
9. Return generator to normal operating position (resting on wheels and support leg).

Add Engine Oil
1. Place generator on a level surface.
2. Add engine oil as described in Adding Engine Oil of the Engine Maintenance section.

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.

Add Fuel  Figure 2

Fuel must meet these requirements:
- Clean, fresh, unleaded petrol.
- A minimum of 87 octane/87 AKI (91 RON). For high altitude use, see High Altitude.
- Petrol with up to 10% ethanol (gasohol) is acceptable.

NOTICE Use of unapproved fuels will damage the engine components and void the engine warranty.
- DO NOT use unapproved petrol, such as E15 and E85.
- DO NOT mix oil in petrol or modify the engine to run on alternate fuels.

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 petrol. The emission control system for this engine is EM (Engine Modifications).
1. Clean area around fuel fill cap, remove cap.
2. Slowly add unleaded fuel to fuel tank. Be careful not to fill above the red fuel level indicator (A). This allows adequate space for fuel expansion as shown.
3. Install fuel cap and let any spilled fuel evaporate before starting engine.

High Altitude
At altitudes over 1500 meters (5,000 feet), a minimum 85 octane / 85 AKI (89 RON) petrol 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 750 meters (2,500 feet) with the high altitude kit is not recommended.

Attach Negative Battery Cable (030620 Only)  Figure 3

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 is pre-installed except for the negative (black) battery cable.

To install:
1. Cut off tie wrap securing loose end of negative (black) cable.
2. Using an 8 mm 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.

System Ground
The generator is provided with a grounding fastener. 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, 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 approved transfer equipment to prevent backfeed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.
- DO NOT connect generator to a building’s electrical system.
- Use a residual-current circuit breaker with overload protection device (RCBO) in any damp or highly conductive area, such as metal decking or steel work.
- DO NOT touch bare wires or receptacles.
- DO NOT use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- DO NOT operate generator in the rain or wet weather.
- DO NOT handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.

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

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

NOTICE Satisfying the RISK OF CARBON MONOXIDE POISONING location requirements may not satisfy the fire location requirements. Satisfying the RISK OF FIRE location requirements may not satisfy the CARBON MONOXIDE POISONING location requirements.

Operation Location of Portable Generator to REDUCE THE RISK OF CARBON MONOXIDE POISONING

All fossil fuel burning equipment, such as a portable generator, contains carbon monoxide (CO) gas in the engine exhaust, 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. The following must be completed prior to starting the portable generator engine:

• By law it is required in many states to have a Carbon Monoxide (CO) alarm (A) in operating condition in your home. Install/maintain battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer’s instructions. A CO alarm is an electronic device that detects hazardous levels of CO. When there is a buildup of CO, the alarm will alert the occupants by flashing visual indicator light and alarm. Smoke alarms cannot detect CO 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.
• 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.
• Your neighbor(s) home may be exposed to the engine exhaust from your portable generator and must be considered when deciding on a location for the safe operation of your portable generator.
• 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.

EXAMPLE OF LOCATION TO REDUCE THE RISK OF CARBON MONOXIDE POISONING

DO NOT OPERATE IN ANY OF THE FOLLOWING LOCATIONS
OPERATION LOCATION OF PORTABLE GENERATOR TO REDUCE THE RISK OF FIRE

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

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

EXAMPLE OF LOCATION TO REDUCE THE RISK OF FIRE

Direct exhaust AWAY from windows, doors, and vents.

1.5 m (5 ft.) min.
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 - Start Switch (Model 030620 only) — Turn key to start ( ) position to start the engine. Turn key to off ( ) position to switch off engine.

A - ON/OFF Switch — Set this switch to on (I) before starting engine. Set switch to off (O) to shut off engine.

B - Display Button — Push to scroll through LCD screens. Also push and hold for a minimum of 3 seconds to reset maintenance reminders.

C - 12 Volt DC Receptacle — Use this receptacle for devices that are equipped with automotive-type plugs. The maximum current output is 5 Amps.

D - Circuit Breakers (DC) — The receptacle is provided with circuit breakers to protect the 12 Volt DC receptacle against electrical overload.

E - Battery Float Charger Jack (Model 030620 only) — Use battery float charger jack to keep the starting battery charged and ready for use.

F - RCBO — A RCBO is provided to protect against electrical ground fault and protect the generator against electrical overload.

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

H - Oil Fill Cap/Dipstick — Check and add engine oil here.

I - Oil Drain Plug — Drain engine oil here.

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

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

M - Air Cleaner — Protects engine by filtering dust and debris out of intake air.

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

P - Recoil Starter — Used to start the engine manually.

R - Choke Lever — Used when starting a cold engine.

S - Fuel Valve — Used to turn fuel supply on and off to engine.

T - Fuel Tank — Capacity of 28 liters (7.5 U.S. gallons).

Items Not Shown:

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

Ground Fault Protection

This unit is equipped with a residual current circuit breaker with overload protection device (RCBO). This device meets applicable federal, state and local codes.

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

Battery Charger (030620 Only)  

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.

1. Plug charger into unit’s battery float charger jack (4, E), which is located on the control panel. Plug battery charger into a 230 Volt AC wall receptacle.

2. Unplug charger from unit and wall outlet when generator is being started and while it is in operation.

3. 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.
STATSTATION™

The control panel has a built in LCD display to monitor the following features:

- Load Monitor (Total Generator Load)
- Hour Meter (Total Generator Hours)
- Voltage Meter (Total Voltage Output)
- Maintenance Reminder (Engine Maintenance)

When the generator is first started, the following title screen will display for three seconds.

**BRIGGS & STRATTON STATSTATION**

Load Monitor

The load monitor measures the output wattage (generator load) of all the generator receptacles and will display “TOTAL PWR” (total power) along with percentage of total generator load.

<table>
<thead>
<tr>
<th>TOTAL PWR</th>
<th>60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOURS</td>
<td>35.6</td>
</tr>
</tbody>
</table>

If the output wattage of “TOTAL PWR” is between 90% and 100%, the text will flash. If it reaches 101%, the LCD display will change to “OVERLOAD REMOVE LOAD”.

**OVERLOAD REMOVE LOAD**

**NOTICE** Failure to remove load from generator could cause circuit breaker(s) to open and/or possible damage to generator.

Hour Meter

The LCD on the control panel also has a built in hour meter that displays and records how many hours your generator has run (up to 9,999.9).

Voltage Meter

The LCD on the control panel also has a built in voltage meter that displays the total voltage output.

| Voltage | 232.4V |

Maintenance Reminder

The LCD on the control panel also has a built in maintenance reminder to alert you to check oil, change air filter, change oil, and change spark plug. The LCD will display the following screens for the different maintenance intervals:

**OIL CHANGE 50 HRS HOLD TO RESET**

- “CHECK OIL 8HRS HOLD TO RESET” after every 8 hours of operation.
- “AIR CLEANER 25HRS HOLD TO RESET” after every 25 hours of operation.
- “OIL CHANGE 50HRS HOLD TO RESET” after every 50 hours of operation.
- “SPARK PLG 100HRS HOLD TO RESET” after every 100 hours of operation.

The different maintenance interval hours will count down to zero hours when the generator is running. When a maintenance interval reaches zero hours the LCD screen will flash the maintenance to be performed. Once maintenance has been performed, you must push and hold the display button on the control panel for a minimum of 3 seconds to reset the timer for each maintenance interval.

**Operation**

Starting the Engine  Figure 4

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

1. Make sure unit is on a flat, level surface.

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

2. Turn fuel valve (4, S) to on position (I).

3. Move choke lever (4, R) to choke position (O).

   **4A.** For electric starting (model 030620 only), turn and hold key in start switch (4, A) to start (C) position until generator starts. To prolong the life of starter components, DO NOT hold key in start (C) position for more than 5 seconds, and pause for at least 1 minute between starting attempts.

   • If engine starts, proceed to step 6.
   • If engine fails to start, proceed to step 5.

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

4B. For manual starting, push on/off switch to on position (I) or turn key in start switch to run (I) position, grasp recoil handle (4, R) and pull slowly until slight resistance is felt. Then pull rapidly one time only to start engine.

   • If engine starts, proceed to step 6.
   • If engine fails to start, proceed to step 5.

   **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.

5. Move choke lever to half choke position, pull recoil handle twice or turn and hold key in start switch to start (C) position as described in step 4.

   • If engine fails to start, repeat steps 3 thru 4.

6. Slowly move choke lever to run position (O). If engine fails, move choke lever to half choke position until engine runs smoothly, and then to run position (I).

   **NOTICE** If engine floods, place choke lever in run position (I) 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 is equipped with a low oil protection device. If so, oil must be at proper level for engine to start.

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

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

   • DO NOT touch hot parts and AVOID hot exhaust gases.
   • Allow equipment to cool before touching.
   • Keep at least 1.5 m (5 ft.) of clearance on all sides of generator including overhead.
   • 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

Use only high quality, well-insulated extension cables with the generator’s 230 Volt AC outlets. Inspect extension cables before each use. Check that all extension cables are suitably rated and are not damaged. Keep extension cables as short as possible to minimize voltage drop.

1. Let engine stabilize and warm up for a few minutes after starting.
2. Plug in and turn on the desired 230 Volt AC, single phase, 50 Hz electrical loads.

**WARNING** Damaged or overloaded electrical cables could overheat, arc, and burn resulting in death or serious injury.

- Only use suitably rated extension cables.
- Follow all safety instructions on extension cables.
- Inspect cables before each use.

**NOTICE**
- DO NOT connect 3-phase loads to the generator.
- DO NOT connect 60 Hz loads to the generator.
- DO NOT OVERLOAD THE GENERATOR. See Don’t Overload Generator.

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

- DO NOT exceed the generator’s wattage/amperage capacity. See Don’t Overload Generator in the Operation section.
- Start generator and let engine stabilize before connecting electrical loads.
- Connect electrical loads in OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from generator before stopping generator.

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

- DO NOT connect generator to a building’s electrical system.
- 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.

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 temperature of engine and generator.
3. Turn on/off switch or key in start switch to off (0) position.
4. Turn fuel valve to the off position (0).

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

- Do not stop engine by moving choke control to “Choke” position (\(\text{\textmu}\)).

Low Oil Shutdown

Check oil sensor light on control panel while pulling recoil or turning key in start switch if engine will not start. If the engine oil drops below a preset level, an oil switch will stop the engine or will not allow you to start 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 an authorized Briggs & Stratton service dealer.
3. DO NOT operate engine until oil level 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 condition may still exist. DO NOT try to restart the engine.
3. Contact an Authorized Briggs & Stratton Service Dealer.
4. DO NOT operate engine until oil level is corrected.

Cold Weather Operation

Under certain weather conditions (temperatures below 4°C [40°F] combined with high humidity), your generator may experience icing of the carburetor and/or the crankcase breather system. To reduce this problem, you need to perform the following:

1. Make sure generator has clean, fresh fuel.
2. Open fuel valve (turn valve to on position).
3. Use SAE 5W-30 oil.
4. Check oil level daily or after every eight (8) hours of operation.
5. Maintain generator following Maintenance Schedule in Maintenance section.
6. Shelter unit from elements.

Building a Cold Weather Shelter

1. Using non combustible material with a fire rating of at least one hour, build a shelter that will enclose three sides and the top of the generator. Make sure muffler side of generator is exposed.

**NOTICE** Contact your local building material supplier for non combustible materials with a fire rating of at least one hour.

**NOTICE** Be sure shelter can easily be repositioned for change in wind direction.

2. DO NOT enclose generator any more than shown. Shelter should hold enough heat created by the generator to prevent icing problem.

**NOTICE** If a wheel kit is installed on the generator, enlarge shelter accordingly.

3. Cut appropriate slots to access receptacles of unit.
4. Face exposed end away from wind and elements.
5. Locate generator as described in the section Generator Location. Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes or other openings.

**WARNING** POISONOUS GAS HAZARD. Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT see it, smell it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas. 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.

- 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 the product has shut off.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces.
6. Start generator as described in the section Starting the Engine, then place shelter over generator. Keep at least 1.5m (5 ft.) clearance on all sides of generator including overhead with shelter in place.

**WARNING**

Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.
- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 1.5 m (5 ft.) of clearance on all sides of generator including overhead.
- Remove shelter when temperatures are above 4°C [40°F].

7. Remove shelter when temperatures are above 4°C [40°F].

8. Turn engine OFF and let cool two (2) minutes before refueling. Let any spilled fuel evaporate before starting engine.

---

### 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.
2. Total the rated (running) watts of these items. This is the amount of power your generator must produce to keep your items running. See Wattage Reference Guide.
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:**

<table>
<thead>
<tr>
<th>Tool or Appliance</th>
<th>Rated (Running) Watts</th>
<th>Additional Surge (Starting) Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window AC - 10,000 BTU</td>
<td>1200</td>
<td>1800</td>
</tr>
<tr>
<td>Deep Freezer</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Television</td>
<td>500</td>
<td>-</td>
</tr>
<tr>
<td>Security System</td>
<td>180</td>
<td>-</td>
</tr>
<tr>
<td>Light (100 Watts)</td>
<td>100</td>
<td>-</td>
</tr>
</tbody>
</table>

Total Rated (Running) Watts = 2480
Total Generator Output Required = 4280

#### Power Management

To prolong the life of your generator and attached devices, it is important to take care when adding electrical loads to your generator. There should be nothing connected to the generator outlets before starting its engine. The correct and safe way to manage generator power is to sequentially add loads as follows:

1. With nothing connected to the generator, start the engine as described in this manual.
2. Plug in and turn on the first load, preferably the largest load you have.
3. Permit the generator output to stabilize (engine runs smoothly and attached device operates properly).
4. Plug in and turn on the next load.
5. Again, permit the generator to stabilize.
6. Repeat steps 4 and 5 for each additional load.

### Wattage Reference Guide

<table>
<thead>
<tr>
<th>Tool or Appliance</th>
<th>Rated* (Running) Watts</th>
<th>Additional Surge (Starting) Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essentials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light Bulb - 100 watt</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>Deep Freezer</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Sump Pump</td>
<td>800</td>
<td>1200</td>
</tr>
<tr>
<td>Refrigerator/Freezer - 18 cf</td>
<td>800</td>
<td>1600</td>
</tr>
<tr>
<td>Water Well Pump - 1/3 hp</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td><strong>Heating/Cooling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Window AC - 10,000 BTU</td>
<td>1200</td>
<td>1800</td>
</tr>
<tr>
<td>Window Fan</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td>Furnace Fan Blower - 1/2 hp</td>
<td>800</td>
<td>1300</td>
</tr>
<tr>
<td><strong>Kitchen</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microwave Oven - 1000 Watt</td>
<td>1000</td>
<td>-</td>
</tr>
<tr>
<td>Coffee Maker</td>
<td>1500</td>
<td>-</td>
</tr>
<tr>
<td>Electric Stove - Single Element</td>
<td>1500</td>
<td>-</td>
</tr>
<tr>
<td><strong>Family Room</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD/CD Player</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>VCR</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>Stereo Receiver</td>
<td>450</td>
<td>-</td>
</tr>
<tr>
<td>Color Television - 27 in</td>
<td>500</td>
<td>-</td>
</tr>
<tr>
<td>Personal Computer w/17 in monitor</td>
<td>800</td>
<td>-</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security System</td>
<td>180</td>
<td>-</td>
</tr>
<tr>
<td>AM/FM Clock Radio</td>
<td>300</td>
<td>-</td>
</tr>
<tr>
<td>Garage Door Opener - 1/2 hp</td>
<td>480</td>
<td>520</td>
</tr>
<tr>
<td><strong>DIY/Job Site</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz Halogen Work Light</td>
<td>1000</td>
<td>-</td>
</tr>
<tr>
<td>Airless Sprayer - 1/3 hp</td>
<td>600</td>
<td>1200</td>
</tr>
<tr>
<td>Reciprocating Saw</td>
<td>960</td>
<td>960</td>
</tr>
<tr>
<td>Electric Drill - 1/2 hp</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>Circular Saw - 7-1/4 in</td>
<td>1500</td>
<td>1500</td>
</tr>
</tbody>
</table>

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

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

**Maintenance Schedule**

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

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First 5 Hours</strong></td>
<td>• Change engine oil</td>
</tr>
<tr>
<td><strong>Every 8 Hours or Daily</strong></td>
<td>• Clean debris</td>
</tr>
<tr>
<td></td>
<td>• Check engine oil level</td>
</tr>
<tr>
<td><strong>Every 25 Hours or Yearly</strong></td>
<td>• Clean engine air filter¹</td>
</tr>
<tr>
<td><strong>Every 50 Hours or Yearly</strong></td>
<td>• Change engine oil¹</td>
</tr>
<tr>
<td><strong>Yearly</strong></td>
<td>• Replace engine air filter¹</td>
</tr>
<tr>
<td></td>
<td>• Service fuel valve</td>
</tr>
<tr>
<td></td>
<td>• Service spark plug</td>
</tr>
<tr>
<td></td>
<td>• Inspect muffler and spark arrester</td>
</tr>
<tr>
<td></td>
<td>• Clean cooling system¹</td>
</tr>
</tbody>
</table>

¹ 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.

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

- NEVER operate generator without protective housing or covers to assure proper cooling.

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.

**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 (Model 030620 only)**

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.

**Fuel Valve Maintenance**  

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

1. Move fuel valve to off (0) position.
2. Remove sediment cup (A) from fuel valve. Remove o-ring (B) and screen (C) from fuel valve.
3. Wash sediment cup, o-ring, and screen in a nonflammable solvent. Dry them thoroughly.
4. Place screen and o-ring into fuel valve. Install sediment cup and tighten securely.
5. Move fuel valve to on (I) position, and check for leaks. Replace fuel valve 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 4°C (40°F)** the use of SAE 30 will result in hard starting.
- **Above 27°C (80°F)** the use of 10W30 may cause increased oil consumption. Check oil level more frequently.

#### Checking Oil Level

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

1. Make sure generator is on a level surface.
2. Clean area around oil fill (4, H), remove oil cap/dipstick and wipe dipstick with clean cloth. Replace dipstick. Remove and check oil level.

**NOTICE** DO NOT screw in dipstick when checking oil level.
3. Verify oil is at full mark (7, A) on dipstick. Replace and tighten oil cap/dipstick.

#### Adding Engine Oil

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

**NOTICE** Overfilling with oil could cause the engine to not start, or hard starting.
- DO NOT overfill.
- If over the full mark on dipstick, drain oil to reduce oil level to full mark on dipstick.
4. 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.

#### 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 (4, J). The oil drain plug is located at base of engine, opposite carburetor.
4. Remove oil drain plug and drain oil completely into a suitable container.
5. Reinstall oil drain plug and tighten securely. Remove oil fill cap/dipstick.
6. Repeat steps 3 and 4 to add engine oil as described in Adding Engine Oil.
7. 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. Service more often if operating under dirty or dusty 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).
3. Install clean (or new) air cleaner assembly inside cover. Dispose of old filter properly.
4. 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.
3. Check electrode gap with wire feeler gauge and reset spark plug gap to recommended gap if necessary (see Specifications).
4. Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use the recommended replacement spark plug. See Specifications.
5. Install spark plug and tighten firmly.

---

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

**Above 27°C (80°F) the use of 10W30 may cause increased oil consumption. Check oil level more frequently.**
Inspect Muffler and Spark Arrester  Figure 10
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**  Contact with muffler area can result in serious burns. Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 1.5 m (5 feet) of clearance on all sides of generator including overhead.
- 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 guard (A), remove screws that connects guard to muffler (B).
2. Remove screws that attaches spark arrester screen (C) to muffler. Remove spark arrester screen.
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 a brush.
4. Reattach screen to muffler. Reattach muffler guard.

Clean Cooling System  Figure 11
Over time debris may accumulate in cylinder cooling fins and cannot be observed without partial engine disassembly. For this reason, we recommend you have a Briggs & Stratton authorized dealer clean the cooling system (A) per recommended intervals (see Maintenance Schedule in the Maintenance section). Equally important is to keep top of engine free from debris. Also see Cleaning.

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

**CAUTION**  Excessively high operating speeds could result in minor injury. Excessively low speeds impose a heavy load.
- DO NOT tamper with governor spring, links or other parts to increase engine speed.
- DO NOT modify generator in any way.

Storage
If you will not be using the generator for more than 30 days, use the following guidelines to prepare it for storage.

**Generator Storage**
- Clean the generator as outlined in Cleaning.
- 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 petrol 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 petrol in the engine has not been treated with a fuel stabilizer, it must be drained into an approved container. Run the engine until it stops from lack of fuel. The use of a fuel stabilizer in the storage container is recommended to maintain freshness.

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

**WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK**
- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they could ignite fuel vapors.

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

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

Other Storage Tips
1. DO NOT place a storage cover over a hot generator.
2. Let equipment cool for a sufficient time before placing the cover on the equipment.
3. Cover unit with a suitable protective cover that does not retain moisture.

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

- Store generator in clean, dry area.
Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine is running, but no AC output is available.</td>
<td>1. One of the circuit breakers is open. 2. Fault in generator. 3. Poor connection or defective cord set. 4. Connected device is bad.</td>
<td>1. Reset circuit breaker. 2. Contact authorized service facility. 3. Check and repair. 4. Connect another device that is in good condition.</td>
</tr>
<tr>
<td>Engine runs good at no-load but “bogs down” when loads are connected.</td>
<td>1. Short circuit in a connected load. 2. Engine speed is too slow. 3. Generator is overloaded. 4. Shorted generator circuit. 5. Clogged or dirty fuel filter.</td>
<td>1. Disconnect shorted electrical load. 2. Contact authorized service facility. 3. See Don't Overload Generator in Operation section. 4. Contact authorized service facility. 5. Clean or replace fuel filter.</td>
</tr>
<tr>
<td>Engine lacks power.</td>
<td>1. Load is too high. 2. Dirty air filter. 3. Clogged or dirty fuel filter.</td>
<td>1. See Don't Overload Generator. 2. Replace air filter. 3. Clean or replace fuel filter.</td>
</tr>
<tr>
<td>Engine “hunts” or falters.</td>
<td>1. Carburetor is running too rich or too lean. 2. Clogged or dirty fuel filter.</td>
<td>1. Contact authorized service facility. 2. Clean or replace fuel filter.</td>
</tr>
</tbody>
</table>

Product Specifications

Model 030618
Starting Wattage ........................................ 7,100 Watts
Wattage* ........................................ 5,300 Watts
Load Current at 230 Volts AC ............................ 23.0 Amps
Rated Frequency ....................................... 50 Hertz
Phase ........................................ Single Phase
Displacement .......................................... 420 cc (25.62 cu. in.)
Spark Plug Gap ......................................... 0.76 mm (0.030 in.)
Fuel Capacity .......................................... 28 L (7.5 U.S. gallon)
Oil Capacity ........................................ 1.0 Liters (36 Ounces)

Model 030619
Starting Wattage ........................................ 6,250 Watts
Wattage* ........................................ 5,300 Watts
Load Current at 230 Volts AC ............................ 23.0 Amps
Rated Frequency ....................................... 50 Hertz
Phase ........................................ Single Phase
Displacement .......................................... 420 cc (25.62 cu. in.)
Spark Plug Gap ......................................... 0.76 mm (0.030 in.)
Fuel Capacity .......................................... 28 L (7.5 U.S. gallon)
Oil Capacity ........................................ 1.0 Liters (36 Ounces)

Model 030620
Starting Wattage ........................................ 9,500 Watts
Wattage* ........................................ 7,000 Watts
Load Current at 230 Volts AC ............................ 30.0 Amps
Rated Frequency ....................................... 50 Hertz
Phase ........................................ Single Phase
Displacement .......................................... 420 cc (25.62 cu. in.)
Spark Plug Gap ......................................... 0.76 mm (0.030 in.)
Fuel Capacity .......................................... 28 L (7.5 U.S. gallon)
Oil Capacity ........................................ 1.0 Liters (36 Ounces)

Common Service Parts

Air Cleaner ........................................... 491588 or 5043
Resistor Spark Plug ..................................... 797235

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

* This generator is rated in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-04 (motors and generators).
BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC PORTABLE GENERATOR OWNER WARRANTY POLICY

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

LIMITED WARRANTY

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

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year from purchase, or to the extent permitted by law. All other implied warranties are excluded. Liability for incidental or consequential damages are excluded to the extent exclusion is permitted by law. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or country to country.**

WARRANTY PERIOD

<table>
<thead>
<tr>
<th>Commercial Use</th>
<th>1 year</th>
</tr>
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<tbody>
<tr>
<td>Consumer Use</td>
<td>2 years*</td>
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</table>

*Second year parts only

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

The warranty period begins on the date of purchase by the first retail end user, and continues for the period of time stated above. “Consumer Use” means personal residential household use by a retail consumer. “Commercial Use” means all other uses, including use for commercial, income producing or rental purposes. Once equipment has experienced commercial use, it shall thereafter be considered as commercial use for purposes of this warranty. Equipment used for prime power in place of utility are not applicable to this warranty.

NO WARRANTY REGISTRATION IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON PRODUCTS. SAVE YOUR PROOF OF PURCHASE RECEIPT. IF YOU DO NOT PROVIDE PROOF OF THE INITIAL PURCHASE DATE AT THE TIME WARRANTY SERVICE IS REQUESTED, THE MANUFACTURING DATE OF THE PRODUCT WILL BE USED TO DETERMINE THE WARRANTY PERIOD.

ABOUT YOUR WARRANTY

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

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

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