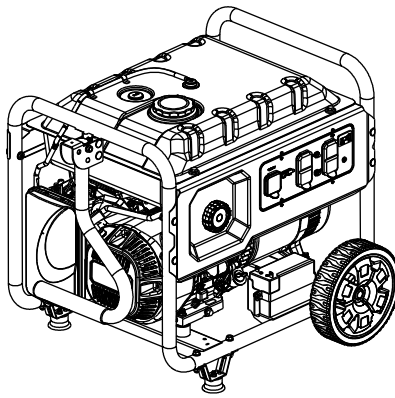




*RS8000E PowerDial™  
Portable Generator  
Owner's Manual*



MODEL: \_\_\_\_\_

SERIAL: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_



**WARNING**

Loss of life. This product is not intended to be used in a critical life support application. Failure to adhere to this warning could result in death or serious injury.

(000209b)

Register your Generac product at:  
[register.generac.com](http://register.generac.com)  
1-888-922-8482



**SAVE THIS MANUAL FOR FUTURE REFERENCE**

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**CANCER AND REPRODUCTIVE HARM**

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

(000393a)

# Section 1 Introduction and Safety

## Introduction

Thank you for purchasing a Generac Power Systems Inc. product. This unit has been designed to provide high-performance, efficient operation, and years of use when maintained properly.



### WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

If any section of the manual is not understood, contact your nearest Independent Authorized Service Dealer (IASD), or contact Generac Customer Service at 1-888-GENERAC (1-888-436-3722), or [www.generac.com](http://www.generac.com) with any questions or concerns.

The owner is responsible for proper maintenance and safe use of the equipment. Before operating, servicing or storing this generator:

- Study all warnings in this manual and on the product carefully.
- Become familiar with this manual and the unit before use.
- Refer to the Assembly section of the manual for instructions on final assembly procedures. Follow the instructions completely.

Save these instructions for future reference. ALWAYS supply this manual to any individual that will use this machine.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

## Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and on tags and decals affixed to the unit are, therefore, not all inclusive. If using a procedure, work method or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others. Also make sure the procedure, work method or operating technique utilized does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the generator, DANGER, WARNING, CAUTION and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:

### DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

### WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

### CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

**NOTE:** Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety warnings cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

## Safety Symbols and Meanings

DANGER	
Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.	
 NEVER use inside a home or garage, EVEN IF doors and windows are open.	 Only use OUTSIDE and far away from windows, doors, and vents.

000657



### DANGER

Asphyxiation. Running engines produce carbon monoxide, a colorless, odorless, poisonous gas. Carbon monoxide, if not avoided, will result in death or serious injury. (000103)

- If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air IMMEDIATELY. See a doctor, as you could have carbon monoxide poisoning.



**⚠ DANGER**

Asphyxiation. The exhaust system must be properly maintained. Do not alter or modify the exhaust system as to render it unsafe or make it noncompliant with local codes and/or standards. Failure to do so will result in death or serious injury. (000179b)



**⚠ DANGER**

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury. (000104)



**⚠ DANGER**

Electrocution. Turn utility and emergency power supplies to OFF before connecting power source and load lines. Failure to do so will result in death or serious injury. (000116)

**⚠ WARNING**

Equipment and property damage. Do not alter construction of, installation, or block ventilation for generator. Failure to do so could result in unsafe operation or damage to the generator. (000146)



**⚠ WARNING**

Asphyxiation. Always use a battery operated carbon monoxide alarm indoors and installed according to the manufacturer's instructions. Failure to do so could result in death or serious injury. (000178a)

**⚠ WARNING**

Equipment and property damage. Do not operate unit on uneven surfaces, or areas of excessive moisture, dirt, dust or corrosive vapors. Doing so could result in death, serious injury, property and equipment damage. (000250)



**⚠ WARNING**

Moving Parts. Keep clothing, hair, and appendages away from moving parts. Failure to do so could result in death or serious injury. (000111)



**⚠ WARNING**

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

**⚠ WARNING**

Personal injury. Do not insert any object through the air cooling slots. Generator can start at any time and could result in death, serious injury, and unit damage. (000142a)

**⚠ WARNING**

Risk of injury. Do not operate or service this machine if not fully alert. Fatigue can impair the ability to service this equipment and could result in death or serious injury. (000215)

**⚠ WARNING**

Injury and equipment damage. Do not use generator as a step. Doing so could result in falling, damaged parts, unsafe equipment operation, and could result in death or serious injury. (000216)

	<b>⚠ CAUTION</b>
	Hearing protection recommended.
	<b>PRECAUCIÓN</b>
	Se recomienda protección auditiva.
	<b>MISE EN GARDE</b>
	Protection auditive recommandée.

000406

- For safety reasons, it is recommended that the maintenance of this equipment be performed by an IASD. Inspect the generator regularly, and contact the nearest IASD for parts needing repair or replacement.

## Exhaust and Location Hazards



**⚠ DANGER**

Asphyxiation. Running engines produce carbon monoxide, a colorless, odorless, poisonous gas. Carbon monoxide, if not avoided, will result in death or serious injury. (000103)



**⚠ DANGER**

Asphyxiation. The exhaust system must be properly maintained. Do not alter or modify the exhaust system as to render it unsafe or make it noncompliant with local codes and/or standards. Failure to do so will result in death or serious injury. (000179b)



**⚠ WARNING**

Asphyxiation. Always use a battery operated carbon monoxide alarm indoors and installed according to the manufacturer's instructions. Failure to do so could result in death or serious injury. (000178a)

**⚠ WARNING**

Equipment and property damage. Do not alter construction of, installation, or block ventilation for generator. Failure to do so could result in unsafe operation or damage to the generator. (000146)

- If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air IMMEDIATELY. See a doctor, as you could have carbon monoxide poisoning.
- NEVER run a generator indoors or in a partly enclosed area such as garages.
- ONLY use outdoors and far away from windows, doors, vents, crawl spaces and in an area where adequate ventilation is available and will not accumulate deadly exhaust gas.
- Point muffler exhaust away from people and occupied buildings.
- Using a fan or opening a door will not provide sufficient ventilation.

## Electrical Hazards



### ⚠ DANGER

Electrocution. Contact with bare wires, terminals, and connections while generator is running will result in death or serious injury. (000144)



### ⚠ DANGER

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury. (000104)

- National Electric Code (NEC) requires the frame and external electrically conductive parts of the generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the generator. Consult with a local electrician for grounding requirements in the area.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area (such as metal decking or steel work).



### ⚠ DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury. (000145)

- Once generator has been started outside, connect electrical loads to extension cord(s) inside.

## Fire Hazards



### ⚠ DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Add fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury. (000105)



### ⚠ DANGER

Explosion and Fire. Do not overfill fuel tank. Fill to 1/2 inch from top of tank to allow for fuel expansion. Overfilling may cause fuel to spill onto engine causing fire or explosion, which will result in death or serious injury. (000166b)



### ⚠ DANGER

Risk of fire. Allow fuel spills to completely dry before starting engine. Failure to do so will result in death or serious injury. (000174)

### ⚠ WARNING

Personal injury. Do not insert any object through the air cooling slots. Generator can start at any time and could result in death, serious injury, and unit damage. (000142a)

- Allow at least 5 feet of clearance on all sides of the generator when operating to prevent overheating and fire.
- Do not operate the generator if connected electrical devices overheat, if electrical output is lost, if engine or generator sparks, or if flames or smoke are observed while unit is running.
- Keep a fire extinguisher near the generator at all times.

## Standards Index

- National Fire Protection Association (NFPA) 70: The NATIONAL ELECTRIC CODE (NEC) available from [www.nfpa.org](http://www.nfpa.org)
- National Fire Protection Association (NFPA) 5000: BUILDING CONSTRUCTION AND SAFETY CODE available from [www.nfpa.org](http://www.nfpa.org)
- International Building Code available from [www.iccsafe.org](http://www.iccsafe.org)
- Agricultural Wiring Handbook available from [www.rerc.org](http://www.rerc.org), Rural Electricity Resource Council P.O. Box 309 Wilmington, OH 45177-0309
- ASAE EP-364.2 Installation and Maintenance of Farm Standby Electric Power available from [www.asabe.org](http://www.asabe.org), American Society of Agricultural & Biological Engineers 2950 Niles Road, St. Joseph, MI 49085
- CSA C22.2 100-14 Electric motors and generators for installation and use, in accordance with the Rules of the Canadian Electrical Code
- ANSI/PGMA G300 Safety and Performance of Portable Generators. Portable Generator Manufacturer's Association, [www.pgmaonline.com](http://www.pgmaonline.com)

**IMPORTANT NOTE:** This list is not all inclusive. Check with the Authority Having Jurisdiction (AHJ) for any local codes or standards which may be applicable to your jurisdiction.

## Replacement Hazard Labels

The following replacement hazard labels are available free from Generac:

- 0H0115D

 <b>WARNING!</b>	 <b>¡ADVERTENCIA!</b>
	<p>NO LLENE TANQUE EXCESIVAMENTE SEMPRE DEIXE ESPAÇOS PARA A EXPANSÃO DO COMBUSTÍVEL NO LLENE MIENTRAS ESTE FUNCIONANDO</p>
<p>DO NOT OVERFILL TANK ALWAYS ALLOW ROOM FOR FUEL EXPANSION DO NOT FILL WHILE RUNNING</p>	 <b>AVERTISSEMENT!</b>
	<p>NE PAS TROP REMPLIR LE RÉSERVOIR TOUJOURS ALLOUER DE L'ESPACE POUR L'EXPANSION DE CARBURANT NE PAS REMPLIR PENDANT QUE L'APPAREIL FONCTIONNE</p>

• 0H8251B

<b>⚠ DANGER</b>	
<p>Using a generator indoors <b>CAN KILL YOU IN MINUTES</b>. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.</p>	
 	
<p><b>NEVER</b> use inside a home or garage, <b>EVEN IF</b> doors and windows are open.</p>	<p>Only use <b>OUTSIDE</b> and far away from windows, doors, and vents.</p>
<b>⚠ DANGER</b>	
<p>Utiliser un générateur à l'intérieur <b>PEUT VOUS TUER EN QUELQUES MINUTES</b>.</p> <p>Les gaz d'échappement du générateur contiennent du monoxyde de carbone. C'est un gaz toxique invisible et inodore.</p> <ul style="list-style-type: none"> <li>• <b>NE JAMAIS</b> utiliser à l'intérieur d'une maison ou d'un garage, <b>MÊME SI</b> les portes et les fenêtres sont ouvertes.</li> <li>• Utiliser <b>UNIQUEMENT</b> à l'<b>EXTÉRIEUR</b> et loin des fenêtres, portes et ventilations.</li> </ul>	
<b>⚠ PELIGRO</b>	
<p>Si usa un generador en interiores, <b>MORIRÁ EN POCOS MINUTOS</b>.</p> <p>El escape del generador contiene monóxido de carbono. Es un veneno que no tiene olor ni se puede ver.</p> <ul style="list-style-type: none"> <li>• <b>NUNCA</b> lo use dentro de una casa o garaje, <b>AUN</b> si las puertas y ventanas están abiertas.</li> <li>• Sólo úselo <b>EN EXTERIORES</b> y lejos de ventanas, puertas y ductos de ventilación.</li> </ul>	

• 0H4635C



## Section 2 General Information and Setup

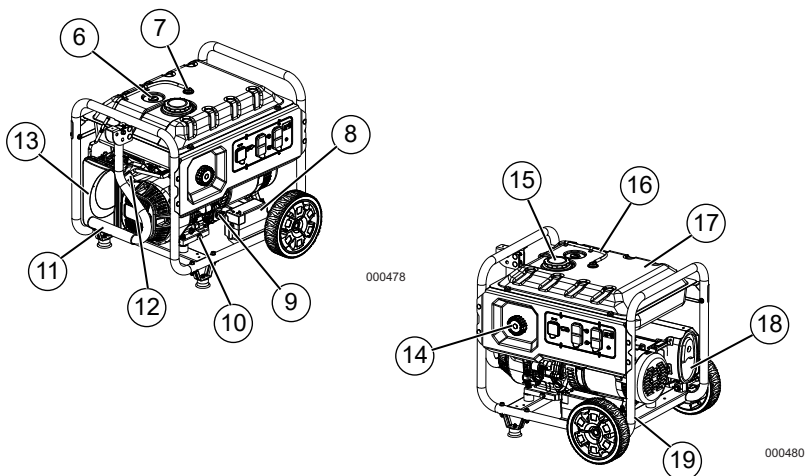


Figure 2-1. Features and Controls

### Generator Components

- 1 120/240 Volt AC, 30 Amp Locking Receptacle (NEMA L14-30R)
- 2 Circuit Breakers (AC)
- 3 Hour Meter
- 4 Battery Charger Input
- 5 120 Volt AC, 20 Amp, GFCI Duplex Receptacle (NEMA 5-20R)
- 6 Fuel Gauge
- 7 Roll Over Valve
- 8 Battery Location
- 9 Oil Check/Fill
- 10 Oil Drain
- 11 Handle
- 12 Recoil Starter
- 13 Air Filter
- 14 PowerDial
- 15 Fuel Cap
- 16 Recovery Hose
- 17 Fuel Tank
- 18 Muffler
- 19 Grounding Lug

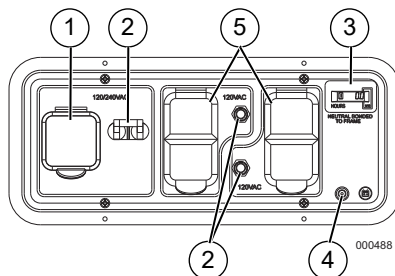


Figure 2-2. Control Panel (49 State)

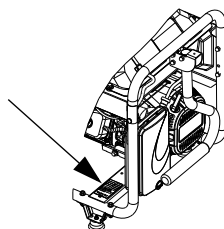


Figure 2-3. Unit Identification Label

## Know Your Generator



### ⚠️ WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

Replacement owner's manuals are available at [www.generac.com](http://www.generac.com).

## Emissions

The United States Environmental Protection Agency (US EPA) (and California Air Resources Board (CARB), for engines/equipment certified to California standards) requires that this engine/equipment complies with exhaust and evaporative emissions standards. Locate the emissions compliance decal on the engine to determine applicable standards. For emissions warranty information, please reference the included emissions warranty. It is important to follow the maintenance specifications in the manual to ensure that the engine complies with the applicable emissions standards for the duration of the product's life.

## Product Specifications

Generator Specifications	
Rated Power @1.0 Power Factor	8.0 kW**
Surge Power	10.0 KVA
Rated AC Voltage	120/240
Rated AC Load Current @ 240V** Current @ 120V**	33.3 66.6
Rated Frequency	60 Hz @ 3600 RPM
Phase	Single Phase
Weight (dry) Pounds (lb) Kilograms (kg)	213.8 97
** Operating Temperature Range: -18 deg. C (0 deg. F) to 40 Deg. C (104 Deg. F). When operated above 25 deg. C (77 deg. F) there may be a decrease in power.	
** Maximum wattage and current are subject to, and limited by, such factors as fuel Btu content, ambient temperature, altitude, engine condition, etc. Maximum power decreases about 3.5% for each 1,000 feet above sea level; and will also decrease about 1% for each 6° C (10° F) above 16° C (60° F) ambient temperature.	
Engine Specifications	
Displacement	420cc
Spark Plug Part No.	0J00620106
Spark Plug Gap	0.028-0.031 inch or (0.70-0.80 mm)
Gasoline Capacity	30 L (8 gal)
Oil Type	See Chart in <a href="#">Add Engine Oil</a>
Oil Capacity	1.0 L (1.06 qt.)
Run Time at 50% Load	10.5 Hours
* Go to <a href="http://www.generac.com">www.generac.com</a> or contact an IASD for replacement parts.	

## Hour Meter

The Hour Meter tracks hours of operation for scheduled maintenance. See [Figure 2-4](#).

- The CHG OIL display will illuminate every 100 hours. The message will flash one hour before and one hour after each 100 hour interval, providing a two hour window to perform service.
- The SVC display will illuminate every 100 hours. The message will flash one hour before and one hour after each 200 hour

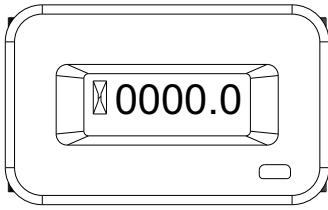
interval providing a two hour window to perform service.

When the hour meter is in flash alert mode, the maintenance message will alternate with elapsed time in hours and tenths. The hours will flash four times, then alternate with the maintenance message four times until the meter automatically resets.

- 100 hours - CHG OIL — Oil Change Interval (Every 100 hrs)
- 200 hours - SVC — Service Air Filter (Every 200 hrs)



**NOTE:** The hour glass icon will flash when the engine is running. This signifies the meter is recording hours of operation.



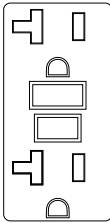
000205

**Figure 2-4. Hour Meter**

## Connection Plugs

### 120 VAC, 20 Amp, GFCI Duplex Receptacle

The 120 Volt outlet is overload protected by a 20 Amp push-to-reset circuit breaker. See [Figure 2-5](#). Each receptacle will power 120 Volt AC, single phase, 60 Hz electrical loads requiring up to 2400 watts (2.4 kW) or 20 Amps of current. Use only high quality, well-insulated, 3-wire grounded cord sets rated for 125 Volts at 20 Amps (or greater). It also provides protection with a Ground Fault Circuit Interrupter with a press to TEST and RESET button.



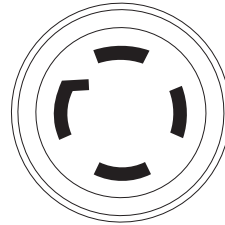
000203

**Figure 2-5. 120 VAC, 20 Amp, GFCI Duplex Receptacle NEMA 5-20R**

### 120/240 VAC, 30 Amp Receptacle

Use a NEMA L14-30 plug with this receptacle (rotate to lock/unlock). Connect a suitable 4-wire grounded cord set to plug and desired load. The cord set should be rated 250 Volts AC at 30 Amps (or greater). See [Figure 2-6](#).

Use this receptacle to operate 120 Volt AC, 60 Hz, single phase loads requiring up to 3600 watts (3.6 kW) of power at 30 Amps or 240 Volt AC, 60 Hz, single phase loads requiring up to 7200 watts (7.2 kW) of power at 30 Amps. The outlet is protected by one 30 Amp 2-pole circuit breaker.



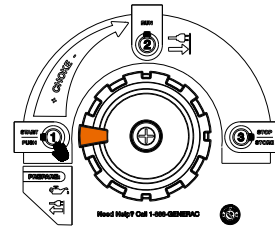
000204

**Figure 2-6. 120/240 VAC, 30 Amp Receptacle NEMA L14-30R**

## PowerDial

The PowerDial controls the ON/OFF functions, choke and fuel valve operation. See [Figure 2-7](#).

- The Number 1 position is used when initially starting the engine. In this position, the fuel is on and the choke is fully ON (closed). Both the electric start or pull (recoil) start can be used.
- The PowerDial is rotated to position Number 2 during normal operation and to gradually reduce the use of the choke.
- Rotating the PowerDial to the STOP position will stop the engine and shut off the fuel valve flow.



000412

**Figure 2-7. PowerDial (example)**

## Remove Contents from Carton

1. Open carton completely by cutting each corner from top to bottom.
2. Remove and verify carton contents prior to assembly. Carton contents should contain the following:

### Accessories

Item	Qty.
Main Unit	1
Owner's Manual	1
Liter Oil SAE 30	1
Handle Assembly (A)	1
Never-flat Wheel (B)	2
Frame Foot (C)	2
Product Registration Card	3
Service Warranty	1
Emissions Warranty	1
25' Power Cord (if equipped)	1
Battery Charger (electric start models)	1
Hardware Bag	Qty.
Rubber Feet (D)	2
1/2" Axle Pin (E)	2
Cotter Pin (F)	2
1/2" Flat Washer (G)	2
Hex Flanged M6 Nut (H)	2
Hex Flanged M8 Nut (J)	5
M8 Bolt (Long) (K)	6
M6 Bolt (Long) (L)	1
M8 Nylon Flat Washer (M)	4

3. Call Generac Customer Service 1-888-GENERAC (1-888-436-3722) with the unit model and serial number for any missing carton contents.
4. Record model, serial number, and date of purchase on front cover of this manual.

## Assembly



### WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

Call Generac Customer Service at 1-888-GENERAC (1-888-436-3722) for any assembly issues or concerns. Please have model and serial number available.

The following tools are required to install the accessory kit.

- Needle Nose Pliers
- Ratchet Wrench
- 8mm Socket
- 12mm Socket
- 13mm Socket
- 10mm Wrench
- 13mm Wrench
- 8mm Wrench (2) (electric start only)

**NOTE:** The wheels are not intended for over-the-road use.

See **Figure 2-8**.

Install wheels as follows:

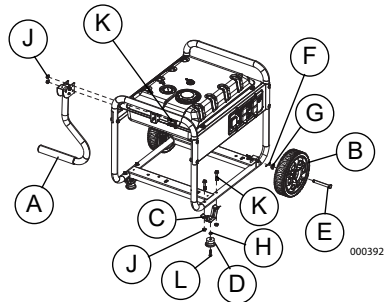
1. Slide axle pin (E) through the wheel (B), wheel bracket on frame, and 1/2" flat washer (G).
2. Insert cotter pin (F) through axle pin (E). Bend tabs (of cotter pins) outward to lock into place.

Install frame foot and rubber bumpers as follows:

1. Slide hex head bolts (L) through rubber bumper (D), then through frame foot (C).
2. Slide hex head bolts (K) through holes in frame rail.
3. Slide frame foot (C) onto hex head bolts (K). Install locking flange nuts (J).

Install handle as follows:

1. Slide long bolts (K) through handle bracket and handle (A). Install hex nuts (J).



**Figure 2-8. Wheel, Frame Foot and Handle Assembly**

## Battery Cable Connection

**NOTE:** The battery shipped with the generator has been fully charged. A battery may lose some charge when not in use for prolonged periods of time. If battery is unable to crank engine, plug in the 12V charger included in the accessory box. See **Charging the Battery**.

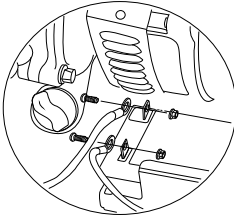
**IMPORTANT NOTE:** Running the generator does not charge battery.

**⚠ WARNING**

Accidental Start-up. Disconnect the negative battery cable, then the positive battery cable when working on unit. Failure to do so could result in death or serious injury. (000130)

See **Figure 2-9**. Use two 8mm wrenches to tighten battery hardware.

1. Disconnect negative (-) battery terminal FIRST (black wire).
2. Disconnect positive (+) battery terminal SECOND (red wire).



000224

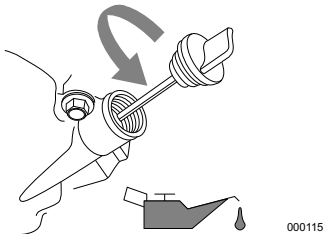
**Figure 2-9. Battery Connection**

## Add Engine Oil

**⚠ CAUTION**

Engine damage. Verify proper type and quantity of engine oil prior to starting engine. Failure to do so could result in engine damage. (000135)

1. Place generator on a level surface.
2. Verify oil fill area is clean.
3. Remove oil fill cap and wipe dipstick clean. See **Figure 2-10**.

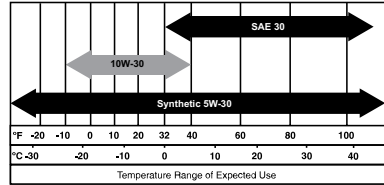


000115

**Figure 2-10. Remove Dipstick**

4. Add recommended engine oil as shown in the following chart.

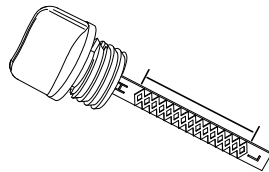
**NOTE:** Use petroleum based oil (supplied) for engine break-in before using synthetic oil.



000399

**NOTE:** Some units have more than one oil fill location. It is only necessary to use one oil fill point.

5. Thread dipstick into oil filler neck. Oil level is checked with dipstick fully installed.
6. See **Figure 2-11**. Remove dipstick and verify oil level is within safe operating range.



000116

**Figure 2-11. Safe Operating Range**

7. Install oil fill cap/dipstick and hand-tighten.

## Fuel

**⚠ DANGER**



Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Add fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury. (000105)

**⚠ WARNING**

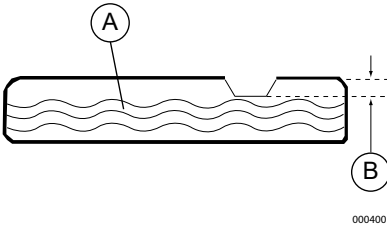


Fluid Injection. This machine produces high-pressure fluid streams that can pierce skin. Fluid injection could result in death or serious injury. (000106b)

Fuel requirements are as follows:

- Clean, fresh, unleaded gasoline.
  - Minimum rating of 87 octane/87 AKI (91 RON).
  - Up to 10% ethanol (gasohol) is acceptable (where available; non-ethanol-premium fuel is recommended).
  - DO NOT use E85.
  - DO NOT use a gas oil mix.
  - DO NOT modify engine to run on alternate fuels. Stabilize fuel prior to storage.
1. Verify unit is OFF and cooled for a minimum of two minutes prior to fueling.
  2. Place unit on level ground in a well ventilated area.

- 
- Clean area around fuel cap and remove cap slowly.
  - Slowly add recommended fuel (A). Do not overfill (B). See [Figure 2-12](#).
  - Install fuel cap.



**Figure 2-12. Add Recommended Fuel**

**NOTE:** Allow spilled fuel to evaporate before starting unit.

**IMPORTANT NOTE:** It is important to prevent gum deposits from forming in fuel system parts such as the carburetor, fuel hose or tank during storage. Alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. See the [Storage](#) section. Never use engine or carburetor cleaner products in the fuel tank as permanent damage may occur.

## Section 3 Operation

### Operation and Use Questions

Call Generac customer service at 1-888-GENERAC (1-888-436-3722) with questions or concerns about equipment operation and maintenance.

### Before Starting Engine

1. Verify engine oil level is correct.
2. Verify fuel level is correct.
3. Verify unit is secure on level ground, with proper clearance and is in a well ventilated area.

### Prepare Generator for Use



#### **⚠ DANGER**

Asphyxiation. Running engines produce carbon monoxide, a colorless, odorless, poisonous gas. Carbon monoxide, if not avoided, will result in death or serious injury. (000103)



#### **⚠ WARNING**

Asphyxiation. Always use a battery operated carbon monoxide alarm indoors and installed according to the manufacturer's instructions. Failure to do so could result in death or serious injury. (000178a)



#### **⚠ DANGER**

Asphyxiation. The exhaust system must be properly maintained. Do not alter or modify the exhaust system as to render it unsafe or make it noncompliant with local codes and/or standards. Failure to do so will result in death or serious injury. (000179b)



#### **⚠ WARNING**

Risk of fire. Do not use generator without spark arrestor installed. Failure to do so could result in death or serious injury. (000118a)



#### **⚠ WARNING**

Risk of Fire. Hot surfaces could ignite combustibles, resulting in fire. Fire could result in death or serious injury. (000110)



#### **⚠ WARNING**

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

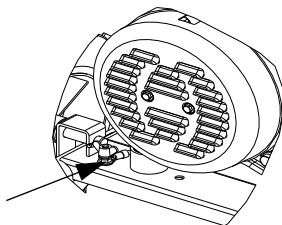
#### **⚠ CAUTION**

Equipment and property damage. Disconnect electrical loads prior to starting or stopping unit. Failure to do so could result in equipment and property damage. (000136)

### Grounding the Generator When Used as a Portable

The generator is equipped with an equipment ground connecting the generator frame and the ground terminals on the AC output receptacles (see NEC 250.34 (A)). This allows the generator to be used as a portable without grounding the frame of the generator as specified in NEC 250.34. See [Figure 3-1](#).

- Neutral Bonded to Frame.



000227

Figure 3-1. Grounding the Generator

### Special Requirements

Review all Federal or State Occupational Safety and Health Administration (OSHA) regulations, local codes, or ordinances that apply to the intended use of the generator.

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 the Generator to a Building Electrical System

It is recommended to use a manual transfer switch when connecting directly to a building electrical system. Connecting a portable generator to a building electrical system must be made in strict compliance with all national and local electrical codes and laws, and be completed by a qualified electrician.

## Know Generator Limits

Overloading a generator can result in damage to the generator and connected electrical devices. Observe the following to prevent overload:

- Add up the total wattage of all electrical devices to be connected at one time. This total should NOT be greater than the generator's wattage capacity.
  - The rated wattage of lights can be taken from light bulbs. The rated wattage of tools, appliances, and motors can be found on a data label or decal affixed to the device.
  - If the appliance, tool, or motor does not give wattage, multiply volts times ampere rating to determine watts (volts x amps = watts).
  - Some electric motors, such as induction types, require about three times more watts of power for starting than for running. This surge of power lasts only a few seconds when starting such motors. Make sure to allow for high starting wattage when selecting electrical devices to connect to the generator:
1. Figure the watts needed to start the largest motor.
  2. Add to that figure the running watts of all other connected loads.

The Wattage Reference Guide is provided to assist in determining how many items the generator can operate at one time.

**NOTE:** All figures are approximate. See data label on appliance for wattage requirements.

### Wattage Reference Guide

Device	Running Watts
*Air Conditioner (12,000 Btu)	1700
*Air Conditioner (24,000 Btu)	3800
*Air Conditioner (40,000 Btu)	6000
Battery Charger (20 Amp)	500
Belt Sander (3")	1000
Chain Saw	1200
Circular Saw (6-1/2")	800 to 1000
*Clothes Dryer (Electric)	5750
*Clothes Dryer (Gas)	700
*Clothes Washer	1150
Coffee Maker	1750
*Compressor (1 HP)	2000
*Compressor (3/4 HP)	1800
*Compressor (1/2 HP)	1400
Curling Iron	700
*Dehumidifier	650
Disc Sander (9")	1200

Edge Trimmer	500
Electric Blanket	400
Electric Nail Gun	1200
Electric Range (per element)	1500
Electric Skillet	1250
*Freezer	700
*Furnace Fan (3/5 HP)	875
*Garage Door Opener	500 to 750
Hair Dryer	1200
Hand Drill	250 to 1100
Hedge Trimmer	450
Impact Wrench	500
Iron	1200
*Jet Pump	800
Lawn Mower	1200
Light Bulb	100
Microwave Oven	700 to 1000
*Milk Cooler	1100
Oil Burner on Furnace	300
Oil Fired Space Heater (140,000 Btu)	400
Oil Fired Space Heater (85,000 Btu)	225
Oil Fired Space Heater (30,000 Btu)	150
*Paint Sprayer, Airless (1/3 HP)	600
Paint Sprayer, Airless (hand-held)	150
Radio	50 to 200
*Refrigerator	700
Slow Cooker	200
*Submersible Pump (1-1/2 HP)	2800
*Submersible Pump (1 HP)	2000
*Submersible Pump (1/2 HP)	1500
*Sump Pump	800 to 1050
*Table Saw (10")	1750 to 2000
Television	200 to 500
Toaster	1000 to 1650
Weed Trimmer	500
* Allow 3 times the listed watts for starting these devices.	

## Transporting/Tipping of the Unit

Do not operate, store or transport the unit at an angle greater than 15 degrees.

## Starting Pull Start Engines



### ⚠️WARNING

Recoil Hazard. Recoil could retract unexpectedly. Kickback could result in death or serious injury.

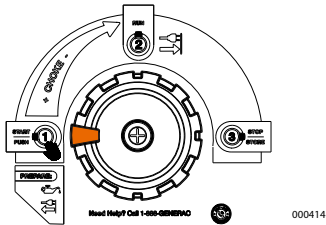
(000183)

### ⚠️CAUTION

Equipment and property damage. Disconnect electrical loads prior to starting or stopping unit. Failure to do so could result in equipment and property damage.

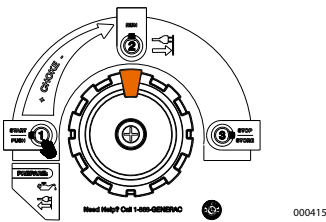
(000136)

1. See [Figure 3-2](#). Rotate the PowerDial to START.



**Figure 3-2. PowerDial START Position**

2. Firmly grasp recoil handle and pull slowly until increased resistance is felt. Pull rapidly up and away.
3. See [Figure 3-3](#). When engine starts, rotate PowerDial to RUN. Choke operation is reduced as PowerDial is rotated towards RUN. If engine falters, rotate PowerDial counterclockwise to START to increase choke. When engine runs smoothly, rotate back to RUN.



**Figure 3-3. PowerDial RUN Position**

**NOTE:** If engine fires, but does not continue to run, rotate the PowerDial to START and repeat starting instructions.

**IMPORTANT:** Do not overload generator or individual panel receptacles. These outlets are overload protected with push-to-reset circuit breakers. If amperage rating of any circuit breaker is exceeded, that breaker opens and electrical output to that receptacle is lost. Read [Know Generator Limits](#) carefully.

## Starting Electric Start Engines

### ⚠️CAUTION

Equipment and property damage. Disconnect electrical loads prior to starting or stopping unit. Failure to do so could result in equipment and property damage.

(000136)

1. See [Figure 3-2](#). Rotate the PowerDial to START.
2. Press and hold PowerDial in START position. When engine starts, release switch.
3. See [Figure 3-3](#). When engine starts, rotate PowerDial to RUN. Choke operation is reduced as PowerDial is rotated towards RUN. If engine falters, rotate PowerDial counterclockwise to START to increase choke. When engine runs smoothly, rotate back to RUN.

**NOTE:** In the RUN position, the choke is completely turned OFF and fuel flow is ON.

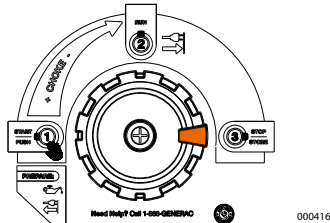
## Generator Shut Down

### ⚠️CAUTION

Equipment and property damage. Disconnect electrical loads prior to starting or stopping unit. Failure to do so could result in equipment and property damage.

(000136)

1. Shut off all loads and unplug electrical loads from generator panel receptacles.
2. Let engine run at no-load for several minutes to stabilize internal temperatures of engine and generator.
3. See [Figure 3-4](#). Rotate PowerDial clockwise to STOP.



**Figure 3-4. PowerDial STOP Position**

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## Restarting Hot Engines

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**CAUTION**

Equipment and property damage. Disconnect electrical loads prior to starting or stopping unit. Failure to do so could result in equipment and property damage.

(000136)

**NOTE:** The generator is off and the PowerDial is turned to the STOP position. Turning the PowerDial counterclockwise, past the RUN position, turns on the fuel and permits use of electric starter. The PowerDial **MUST** be turned from the STOP position to just past the RUN position to restart the fuel flow. The choke is not required if the engine is hot.

1. See **Figure 3-3**. Turn PowerDial counterclockwise, from STOP until just past RUN. This will reopen the fuel valve and permit electric start or recoil starting.
2. Press PowerDial button in this position to electric start (8.0 kW only) or firmly grasp the recoil handle and pull slowly until increased resistance is felt. Pull rapidly up and away.
3. Turn PowerDial clockwise to RUN.

## Low Oil Level Shutdown System

The engine is equipped with a low oil level sensor to shut down the engine automatically when the oil level drops below a specified level. The engine will not run until the oil has been filled to the proper level.

**IMPORTANT NOTE:** Verify proper engine oil and fuel levels before use.

## Charging the Battery

---



**WARNING**

Explosion. Batteries emit explosive gases while charging. Keep fire and spark away. Wear protective gear when working with batteries. Failure to do so could result in death or serious injury.

(000137a)



**WARNING**

Risk of burns. Batteries contain sulfuric acid and can cause severe chemical burns. Wear protective gear when working with batteries. Failure to do so could result in death or serious injury.

(000138a)

**NOTE:** The battery shipped with the generator has been fully charged. A battery may lose some of its charge when not in use for prolonged periods of time. If the battery is unable to crank the engine, plug in the 12V charger included in the accessory box. **RUNNING THE GENERATOR DOES NOT CHARGE THE BATTERY.**

Use battery charger plug to keep the battery charged and ready for use. Battery charging should be done in a dry location.

1. Plug charger into Battery Charger Input jack, located on the control panel. See **Figure 3-5**. Plug wall receptacle end of battery charger into 120 Volt AC wall outlet.
2. Unplug battery charger from wall outlet and control panel jack when generator is to be in use.

BATTERY



CHARGER  
INPUT

000423

**Figure 3-5. Battery Charger Input Jack**

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**WARNING**

Environmental Hazard. Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage, death or serious injury.

(000228)

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## Section 4 Maintenance and Troubleshooting

### Maintenance

Regular maintenance will improve performance and extend engine/equipment life. Generac Power Systems, Inc. recommends that all maintenance work be performed by an Independent Authorized Service Dealer (IASD). Regular maintenance, replacement, or repair of the emissions control devices and systems may be performed by any repair shop or person of the owner's choosing. To obtain emissions control warranty service free of charge, the work must be performed by an IASD. See the emissions warranty.

**NOTE:** Call 1-888-GENERAC (1-888-436-3722) with questions about component replacement.

### Maintenance Schedule

Follow maintenance schedule intervals, whichever occurs first according to use.

**NOTE:** Adverse conditions will require more frequent service.

**NOTE:** Go to Generac.com or contact an IASD for replacement parts.

**NOTE:** All required service and adjustments should be each season as detailed in the following chart.

At Each Use
Check engine oil level
Every 100 Hours or Every Season*
Change oil †
Inspect/clean spark arrestor
Every Season
Replace Spark Plug
Check Valve Clearance***
Every 200 Hours or Every Season
Inspect/clean air cleaner filter**
† Change oil after first 30 hours of operation, then every season.
* Change oil every month when operating under heavy load or in high temperatures.
** Clean more often under dirty or dusty operating conditions. Replace air filter parts if they cannot be adequately cleaned.
*** Check valve clearance and adjust if necessary after first 50 hours of operation and every 300 hours thereafter.

### Preventive Maintenance

Dirt or debris can cause improper operation and equipment damage. Clean generator daily or before each use. Keep area around and behind muffler free from combustible debris. Inspect all cooling air openings on generator.

#### **WARNING**

Personal injury. Do not insert any object through the air cooling slots. Generator can start at any time and could result in death, serious injury, and unit damage.

(000142a)

- Use a damp cloth to wipe exterior surfaces clean.
- Use a soft bristle brush to loosen caked on dirt, oil, etc.
- Use a vacuum to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and openings on generator. These openings must be kept clean and unobstructed.

**NOTE:** DO NOT use a garden hose to clean generator. Water can enter engine fuel system and cause problems. If water enters generator through cooling air slots, some water will be retained in voids and crevices of rotor and stator winding insulation. Water and dirt buildup on generator internal windings will decrease insulation resistance of windings.

### Engine Maintenance

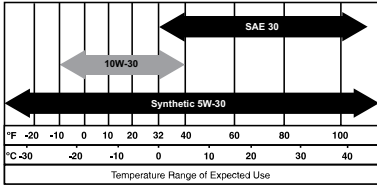
#### **WARNING**

Accidental start-up. Disconnect spark plug wires when working on unit. Failure to do so could result in death or serious injury.

(000141)

### Engine Oil Recommendations

To maintain the product warranty, the engine oil should be serviced in accordance with the recommendations of this manual. For your convenience, maintenance kits designed and intended for use on this product are available from the manufacturer that include engine oil, oil filter, air filter, spark plug(s), a shop towel and funnel. These kits can be obtained from an Independent Authorized Service Dealer (IASD).



000399

## Inspect Engine Oil Level



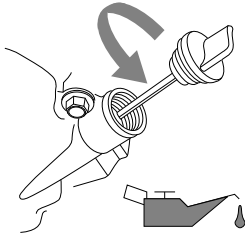
### ⚠ WARNING

Risk of burns. Allow engine to cool before draining oil or coolant. Failure to do so could result in death or serious injury.

(000139)

Inspect engine oil level prior to each use, or every 8 hours of operation.

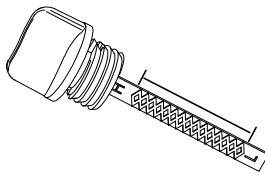
1. Place generator on a level surface.
2. Clean area around oil fill.
3. See [Figure 4-1](#). Remove oil fill cap and wipe dipstick clean.



000115

**Figure 4-1. Engine Oil Fill**

4. Screw dipstick into filler neck. Remove dipstick and verify oil level is within safe operating range. See [Figure 4-2](#).



000116

**Figure 4-2. Safe Operating Range**

5. Add recommended engine oil as necessary.
6. Replace oil fill cap and hand-tighten.

**NOTE:** Some units have more than one oil fill location. It is only necessary to use one oil fill point.

## Change Engine Oil

### ⚠ WARNING

Accidental start-up. Disconnect spark plug wires when working on unit. Failure to do so could result in death or serious injury.

(000141)

When using generator under extreme, dirty, dusty conditions, or in extremely hot weather, change oil more frequently.

**NOTE:** Don't pollute. Conserve resources. Return used oil to collection centers.

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

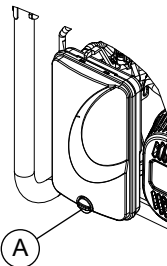
1. Place generator on a level surface.
2. Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.
3. Clean area around oil fill, and oil drain plug.
4. Remove oil fill cap.
5. Remove oil drain plug and drain oil completely into a suitable container.
6. Install oil drain plug and tighten securely.
7. Slowly pour oil into oil fill opening until oil level is between L and H marks on dipstick. DO NOT overfill.
8. Install oil fill cap, and finger tighten.
9. Wipe up any spilled oil.
10. Properly dispose of oil in accordance with all applicable regulations.

## Air Filter

Engine will not run properly and may be damaged if run with a dirty air filter. Service air filter more frequently in dirty or dusty conditions. To service air filter:

1. See [Figure 4-3](#). Turn knob (A) and remove air filter cover.
2. Wash in soapy water. Squeeze filter dry in clean cloth (DO NOT TWIST).
3. Clean air filter cover before re-installing it.

**NOTE:** Visit [www.generac.com](http://www.generac.com) or contact the nearest authorized service center at 1-888-GENERAC (1-888-436-3722) to order a new air filter.



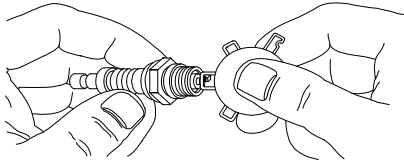
000379

**Figure 4-3. Air Filter Assembly**

## Service Spark Plug

To service spark plug:

1. Clean area around spark plug.
2. Remove and inspect spark plug.
3. Inspect electrode gap with wire feeler gauge and reset spark plug gap to 0.028 - 0.031 in (0.70 - 0.80 mm). See [Figure 4-4](#).



000211

**Figure 4-4. Spark Plug**

**NOTE:** Replace spark plug if electrodes are pitted, burned or porcelain is cracked. Use **ONLY** recommended replacement plug. See Specifications.

4. Install spark plug finger tight, and tighten an additional 3/8 to 1/2 turn using spark plug wrench.

## Battery Replacement (if applicable)

**NOTE:** The battery shipped with the generator has been fully charged. A battery may lose some charge when not in use for prolonged periods of time. If battery is unable to crank engine, plug in the 12V charger included in the accessory box. See [Charging the Battery](#).

**IMPORTANT NOTE:** Running the generator does not charge battery.

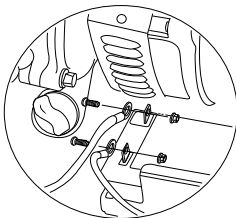
### **WARNING**

Accidental Start-up. Disconnect the negative battery cable, then the positive battery cable when working on unit. Failure to do so could result in death or serious injury.

(000130)

See [Figure 4-5](#).

1. Disconnect negative (-) battery terminal **FIRST** (black wire).
2. Disconnect positive (+) battery terminal **SECOND** (red wire).



000224

**Figure 4-5. Battery Connection**

3. Install new battery. Install hold down bracket and tighten.
4. Connect positive (+) battery terminal (red wire) **FIRST** (red wire). Slide rubber boot over connection hardware.
5. Connect negative (-) battery terminal (black wire) **SECOND**.
6. Slide rubber boot over connection hardware.

### **WARNING**

Environmental Hazard. Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage, death or serious injury.

(000228)

## Inspect Muffler and Spark Arrester

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

**NOTE:** Use **ONLY** original equipment replacement parts.

Inspect muffler for cracks, corrosion, or other damage. Remove spark arrester, if equipped, inspect for damage or carbon blockage. Replace parts as required.

## Inspect Spark Arrester Screen

### **WARNING**



Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire.

(000108)

1. Loosen clamp (A) and remove screw. See [Figure 4-6](#).
2. Inspect screen (B) and replace if torn, perforated or otherwise damaged. If screen is not damaged, clean with commercial solvent.
3. Replace spark arrester cone (C) and screen (B). Secure with clamp and screw.

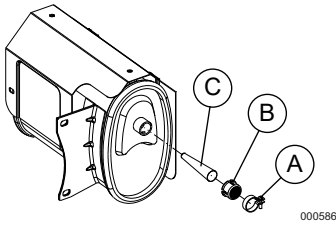


Figure 4-6. Spark Arrestor Screen

## Valve Clearance

**Important:** Please contact an Independent Authorized Service Dealer for service assistance. Proper valve clearance is essential for prolonging the life of the engine.

Check valve clearance after the first fifty-hours of operation. Adjust as necessary.

- Intake —  $0.15 \pm 0.02\text{mm}$  (cold), (0.006"  $\pm$  0.0008" inches)
- Exhaust —  $0.20 \pm 0.02\text{mm}$  (cold) (0.008"  $\pm$  0.0008" inches)

## Storage

### General



#### **▲ DANGER**

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Store fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury.

(000143)



#### **▲ WARNING**

Risk of Fire. Verify machine has properly cooled before installing cover and storing machine. Hot surfaces could result in fire.

(000109)

It is recommended to start and run the generator for 30 minutes, every 30 days. If this is not possible, refer to the following list to prepare unit for storage.

- DO NOT place a storage cover on a hot generator. Allow unit to cool to room temperature before storage.
- DO NOT store fuel from one season to another unless properly treated.
- Replace fuel container if rust is present. Rust in fuel will cause fuel system problems.
- Cover unit with a suitable protective, moisture resistant cover.
- Store unit in a clean and dry area.
- Always store generator and fuel away from heat and ignition sources.

## Prepare Fuel System for Storage

Fuel stored over 30 days can go bad and damage fuel system components. Keep fuel fresh, use fuel stabilizer.

If fuel stabilizer is added to fuel system, prepare and run engine for long term storage. Run engine for 10-15 minutes to circulate stabilizer throughout fuel system. Adequately prepared fuel can be stored up to 24 months.

**NOTE:** If fuel has not been treated with fuel stabilizer, it must be drained into an approved container. Run engine until it stops from lack of fuel. Use of fuel stabilizer in fuel storage container is recommended to keep fuel fresh.

1. Change engine oil.
2. Remove spark plug.
3. Pour tablespoon (5-10cc) of clean engine oil or spray a suitable fogging agent into cylinder.



#### **▲ WARNING**

Vision Loss. Eye protection is required to avoid spray from spark plug hole when cranking engine. Failure to do so could result in vision loss.

(000181)

4. Pull starter recoil several times to distribute oil in cylinder.
5. Install spark plug.
6. Pull recoil slowly until resistance is felt. This will close valves so moisture cannot enter engine cylinder. Gently release recoil.

## Change Oil

Change engine oil before storage. See [Change Engine Oil](#).

## Troubleshooting

PROBLEM	CAUSE	CORRECTION
Engine is running, but AC output is not available.	<ol style="list-style-type: none"> <li>1. Circuit breaker OPEN.</li> <li>2. Poor connection or defective cord set.</li> <li>3. Connected device is bad.</li> <li>4. Fault in generator.</li> <li>5. GFCI receptacle is OPEN (if equipped).</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker.</li> <li>2. Check and repair.</li> <li>3. Connect another device that is in good condition.</li> <li>4. Contact IASD.</li> <li>5. Correct ground fault and press reset button on GFCI receptacle (if equipped).</li> </ol>
Engine runs well at no-load, but bogs when load is applied.	<ol style="list-style-type: none"> <li>1. Short circuit in a connected load.</li> <li>2. Generator is overloaded.</li> <li>3. Engine speed is too slow.</li> <li>4. Shorted generator circuit.</li> <li>5. Clogged spark arrestor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect shorted electrical load.</li> <li>2. See <i>Know Generator Limits</i>.</li> <li>3. Contact IASD.</li> <li>4. Contact IASD.</li> <li>5. Clean spark arrestor screen.</li> </ol>
Engine will not start; or starts and runs rough.	<ol style="list-style-type: none"> <li>1. Fuel shut-off is OFF.</li> <li>2. Dirty air filter.</li> <li>3. Out of fuel.</li> <li>4. Stale fuel.</li> <li>5. Spark plug wire not connected to spark plug.</li> <li>6. Bad spark plug.</li> <li>7. Water in fuel.</li> <li>8. Overchoking.</li> <li>9. Low oil level.</li> <li>10. Excessive rich fuel mixture.</li> <li>11. Intake valve stuck open or closed.</li> <li>12. Engine lost compression.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn fuel shut-off ON.</li> <li>2. Clean or replace air filter.</li> <li>3. Fill fuel tank.</li> <li>4. Drain fuel tank and fill with fresh fuel.</li> <li>5. Connect wire to spark plug.</li> <li>6. Replace spark plug.</li> <li>7. Drain fuel tank; fill with fresh fuel.</li> <li>8. Set choke to no choke position.</li> <li>9. Fill crankcase to correct level.</li> <li>10. Contact IASD.</li> <li>11. Contact IASD.</li> <li>12. Contact IASD.</li> </ol>
Engine shuts down during operation.	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Low oil level.</li> <li>3. Fault in engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. Fill crankcase to correct level.</li> <li>3. Contact IASD.</li> </ol>
Engine lacks power.	<ol style="list-style-type: none"> <li>1. Load is too high.</li> <li>2. Dirty air filter.</li> <li>3. Engine needs to be serviced.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce load (see <i>Know Generator Limits</i>).</li> <li>2. Clean or replace air filter.</li> <li>3. Contact IASD.</li> </ol>
Engine surges or stumbles.	<ol style="list-style-type: none"> <li>1. Choke is opened too soon.</li> <li>2. Carburetor is running too rich or too lean.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set choke to halfway position until engine runs smoothly.</li> <li>2. Contact IASD.</li> </ol>

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## Notes



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