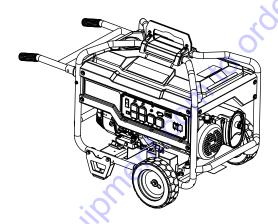


# XC Series Portable Generator Owner's Manual



MODEL:	
SERIAL:	
DATE PURCHASED:	



# **AWARNING**

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)



www.discount-equipment.com

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# Need parts?

Click on this link: <a href="http://www.discount-equipment.com/category/5443-parts/">http://www.discount-equipment.com/category/5443-parts/</a> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

# Table of Contents

Section 1 Introduction and Safety 1 Introduction 1	Section 4 Maintenance and Troubleshooting16
Safety Rules1	Maintenance16
Safety Symbols and Meanings 1	Maintenance Schedule16
Exhaust and Location Hazards 2	Preventive Maintenance16
Electrical Hazards3	Engine Maintenance16
Fire Hazards3	Battery Replacement (if applicable) 18
Lifting or Suspending Generator 3	Inspect Muffler and Spark Arrester 18
Standards Index4	Valve Clearance19
	Storage19
Section 2 General Information and	Troubleshooting20
Setup5	10
Know Your Generator6	4
Emissions6	
Connection Plugs7	
Hour Meter 8	
Remove Contents from Carton 8	order yo
Assembly9	<b>~</b> O
Battery Cable Connection (if equipped) 10	
Add Engine Oil10	
Fuel11	CO,
Section 3 Operation12	
Operation and Use Questions 12	
Before Starting Engine12	
Prepare Generator for Use	
Grounding the Generator When Used	
as a Portable12	
Know Generator Limits	
Transporting/Tipping of the Unit 14	
Starting Pull Start Engines 14	
Starting Electric Start Engines 14	
Generator Shut Down	

Section 4 Maintenance and		
Troubleshooting	.16	
Maintenance	.16	
Maintenance Schedule	.16	
Preventive Maintenance	.16	
Engine Maintenance	.16	
Battery Replacement (if applicable)	18	
Inspect Muffler and Spark Arrester	18	
Valve Clearance	.19	
Storage	.19	
Troubleshooting	.20	

# **≜WARNING**

CANCER AND REPRODUCTIVE HARM

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.

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 alerts in this manual, and on tags and decals affixed to the unit, are 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 and does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARN-ING, 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. Alert definitions are as follows:

### **ADANGER**

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)

# **ACAUTION**

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 alerts 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

# **ADANGER**

Using a generator indoors CAN KILL YOU IN MINUTES.

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







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

000657



#### **ADANGER**

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.



#### **ADANGER**

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)



#### **ADANGER**

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

(000104)



# ADANGER

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.

# 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)



# **AWARNING**

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

# **AWARNING**

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)

### **AWARNING**

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)

# 

Hearing protection recommended.

# PRECAUCIÓN

Se recomienda protección auditiva

MISE EN GARDE

Protection auditive recommandée.

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**



# **ADANGER**

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. The exhaust system must be properly 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

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)



## **AWARNING**

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)

- 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.
- Using a fan or opening a door will not provide sufficient ventilation.
- Point muffler exhaust away from people and occupied buildings.

# **Electrical Hazards**



#### **ADANGER**

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)



# ADANGER

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

# 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)

 The 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.

# Fire Hazards



#### **ADANGER**

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)



# **ADANGER**

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)



# A 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)

# **AWARNING**

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)

- 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.
- Allow at least 5 feet of clearance on all sides of the generator when operating to prevent overheating and fire.

# Lifting or Suspending Generator



# **AWARNING**

Personal injury. Failure to properly connect lifting cables, chains, or straps could result in death, serious injury, or property damage.

(000346)



# WARNING

Personal injury. Failure to use cables, chains, or straps rated at 2000 lbs. (907 kg) working load or greater to raise or suspend unit could result in death, serious injury, or property damage. (000347)

#### **AWARNING**

Personal injury. Never operate generator while suspended. Doing so could result in death, serious injury, or property damage.

(000348)

#### **AWARNING**

Personal Injury. Do not use lifting hook if there are signs of damage or corrosion. Doing so could result in death, serious injury, or property damage.

(000349)

### WARNING

Personal Injury. Do not use lifting hook other than as directed. Failure to do so could result in death, serious injury, or property damage.

(000350)

### **AWARNING**

Personal Injury. Verify all fasteners are properly tightened prior to lifting unit. Failure to do so could result in death, serious injury, or property damage.

(000351)

# Standards Index

- National Fire Protection Association (NFPA) 70: The NATIONAL ELECTRIC CODE (NEC) available from www.nfpa.org

- 30 to Discount. Equipment.

# Section 2 General Information and Setup

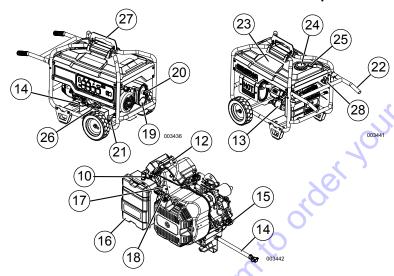


Figure 2-1. Features and Controls

# **TABLE 1. Generator Components**

- 1 120 Volt AC, 20 Amp Duplex Receptacle
- 2 120/240 Volt AC, 30 Amp Locking Receptacle
- 3 1-pole Circuit Breakers (AC)
- 4 2-pole Circuit Breaker
- 5 120 Volt AC, 30 Amp Locking Receptacle
- 6 Idle Control
- 7 Ground Fault Sensing Module
- 8 GFCI Module Circuit Breaker
- 9 Hour Meter
- 10 Choke Lever
- 11 Start/Run/Stop Switch (Electric start) (6.5kW, Run/Stop Switch, recoil start only)
- 12 Spark Plug
- 13 Oil Filter
- 14 Oil Drain
- 15 Oil Fill
- 16 Air Filter
- 17 Fuel Filter
- 18 Recoil Starter
- 19 Muffler
- 20 Spark Arrestor

- 21 Grounding Lug
- 22 Handles
- 23 Fuel Tank
- 24 Gas Cap
- 25 Fuel Gauge
- 26 Battery (if equipped)
- 27 Steel Lifting Pocket
- 28 Handle Release Knob

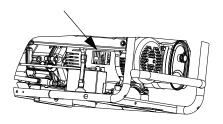


Figure 2-2. Unit Identification Label

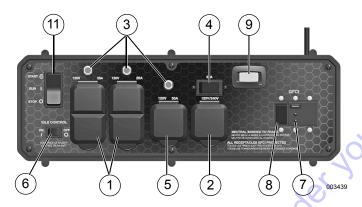


Figure 2-3. XC Series Control Panel

# **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)

# **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.

# **TABLE 2. Product Specifications**

6.5 kW / 8.0 kW Generator Specifications	
Rated Power @ 1.0 Power Factor	6.5kW** / 8.0kW**
Starting Watts	8.13kVA** / 10kVA**
Rated AC Voltage	120/240
Rated AC Load (120 Volt / 240 Volt) 6.5 kW 8.0 kW	54.2 / 27.1 Amps** 66.7 / 33.3 Amps**
Rated Frequency	60 Hz @ 3600 RPM
Phase	Single Phase
Unit Weight (Dry) 6.5 kW (recoil start only) 6.5 kW (electric start) 8.0 kW (electric start)	246 lbs. (111.8 kg) 260 lbs. (117.9 kg)

 <sup>\*\*</sup> 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, ambi-

<sup>\*\*</sup> Maximum wattagè 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.

# **TABLE 2. Product Specifications**

6.5 kW / 8.0 kW Engine Specifications	
Displacement	426 cc
Spark Plug Part No.	0G0767B
Spark Plug Type	Champion RC12YC or Equivalent
Spark Plug Gap	0.020 inch (0.51mm)
Gasoline Capacity	32 L (8.5 U.S. gallons)
Oil Type	See chart in Add Engine Oil.
Oil Capacity with filter change without filter change	1.0 L (1.1 qt.) 0.9 L (0.95 qt.)
Run Time at 50% Load (6.5kW / 8.0kW)	14 Hours / 11 Hours
* Go to www.discount-equipment.com for replacement parts.	

# **Connection Plugs**

# 120 VAC, 20 Amp, Duplex Receptacle

The 120 Volt outlet is overload protected by a 20 Amp push-to-reset circuit breaker. See *Figure 2-4*. 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).

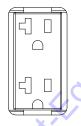


Figure 2-4. 120 VAC, 20 Amp, Duplex Receptacle NEMA 5-20R

000424

breaker

# 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 2-5.

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 a 2-pole 30 Amp rocker circuit breaker.



Figure 2-5. 120/240 VAC, 30 Amp Receptacle NEMA L14-30R

# 120 VAC, 30 Amp Receptacle

Use a NEMA L5-30 plug with this receptacle (rotate to lock/unlock). Connect a suitable 3-wire cord set to the plug and to desired load. The cord set should be rated for 125 Volts AC at 30 Amps (or greater). See *Figure 2-6*. Use this receptacle to operate 120 Volt AC, 60Hz, single phase loads requiring up to 3600 watts (3.6kW) of power at 30 Amps. The outlet is protected by a 30 Amp push-to-reset circuit



000844

000204

Figure 2-6. 120 VAC, 30 Amp Receptacle NEMA L5-30

# **Hour Meter**

The Hour Meter tracks hours of operation for scheduled maintenance. See *Figure 2-7*.

 The SVC display will illuminate 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.

 200 hours - SVC — Change oil, oil filter, air filter, fuel filter, and spark plug. Clean spark arrestor screen. (Every 200 hrs)

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

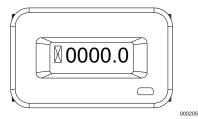


Figure 2-7. Hour Meter

# **Ground Fault Sensing Module**

This unit is equipped with a ground fault circuit interrupter (GFCI). This device meets applicable federal, state and local codes. The ground fault sensing module covers all receptacles.

In the event of a ground fault, the GFCI will trip and stop the flow of electricity to prevent serious injury.

The GFCI constantly monitors electricity flowing in a circuit. If current flowing through a circuit varies from what is returning, the GFCI switches power off tripping the main circuit breaker on the generator's control panel.

A GFCI does NOT protect against circuit overloads, short circuits, or shocks. Electric shock can still occur if a person touches charged electrical wires while standing on a non-conducting surface, such as a wood floor.

Test the GFCI module before each use. See Figure 2-8.

- Start generator.
- Plug a test lamp into duplex receptacle. The lamp should be on.
- Press TEST button on GFCI to trip the device. The main breaker should 'trip'. This is indicated by movement of the actuator handle to the OFF position.

- This should stop the flow of electricity making the lamp shut off. If the main breaker does not 'trip', the GFCI is not working and the generator should not be used. Contact an IASD.
- To restore the flow of electricity, set the main breaker actuator handle to the 'ON' position. The handles should remain latched in this position. If it does not, either the GFCI or the main breaker is failing and should be replaced. Contact an IASD.
- This GFCI is protected against overload by a 6.5kW, 30 Amp or 8.0kW, 35A/240V main breaker.
- 7. The GFCI has Auto-Monitor and End-of-Life indications with LED status lights.



004285

Figure 2-8. Test the GFCI

# Automatic Idle Control (if equipped)

This feature improves fuel economy. When this switch is turned ON, the engine will run at a normal fast governed engine speed when electrical load is connected. When load is removed, the engine will run at a reduced speed. With the switch OFF, the engine continually runs at a normal fast engine speed. Always have the switch OFF when starting and stopping the engine. See *Figure 2-8*.

# **Remove Contents from Carton**

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

# **TABLE 3. Accessories**

Item	Qty.
Main Unit	1
Owner's Manual	1
Engine Manual	1
Quart SAE Oil	1
Oil Filter	1
Air Filter	1
Spark Plug	1
Spark Plug Wrench	1
Shop Towel	1
Top Cover (8)	2
Wheel (1)	2
Frame Foot (2)	2
Steel Lifting Pocket (3)	2
Hardware Bag	Qty.
Hair Pin (4)	2
Axle (5)	1
5/8" Flat Washer (6)	2
45mm Bolt (7)	8
Binding Post Assembly (9)	2
20mm Bolt (10)	2
Nut (11)	6
•.•	7

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)

The following tools are required to install the accessory kit.

- Screwdriver (1)
- 8mm Wrench (2)
- 13mm Wrench (2)

# See Figure 2-9.

Install lifting pocket assembly as follows:

- Install each halve of lifting pocket (3) underneath frame and loosely assemble with 45mm bolt (7) and nut (11) through holes in frame.
- 2. Install 20mm bolt (10) and nut (11) through top holes of lifting pocket halves.
- Tighten all bolts securely.
- Align each top cover (8) with bottom lifting pocket (3) holes. Insert binding post (9) barrel and secure with binding post screw (9).

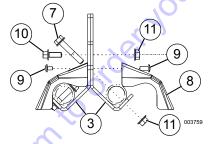


Figure 2-9. Steel Lifting Pocket Assembly

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

# See Figure 2-10.

Install wheels as follows:

- Slide axle (5) through generator frame axle holes.
- Slide wheel (1) and one 5/8" flat washer (6) onto axle.
- Secure with hair pin (4). Repeat on opposite side.

Install frame foot assembly as follows:

1. Align frame foot (2) with holes in frame and secure with 45mm bolts (7).

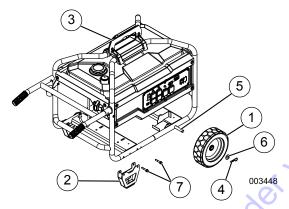


Figure 2-10. Wheel and Foot Assembly

# Battery Cable Connection (if equipped)



# **ACAUTION**

Equipment damage. Do not make battery connections in reverse. Doing so will result in equipment damage.

(000167a)

The unit has been shipped with the battery cables disconnected.

You will need two 8mm box wrenches to con-

You will need two 8mm box wrenches to connect the battery cables. See *Figure 4-5*.

- Cut off cable ties securing battery cables and remove red cover from battery terminal
- First, connect the red cables to the positive (+) battery terminal with the bolt and nut supplied.
- Make sure connections are secure and slide rubber boot over the positive (+) battery terminal and connection hardware.
- Connect the black cables to the negative (-) battery terminal with the bolt and nut supplied. Slide rubber boot over the negative (-) battery terminal and connection hardware.
- 5. Make sure all connections are secure.

**NOTE:** If the battery is unable to start the engine, charge it with an appropriate 12V charger or manually start the generator and let run until charged.

# 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)

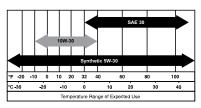
- Place generator on a level surface.
- Verify oil fill area is clean.
- Remove oil fill cap and wipe dipstick clean. See Figure 2-11.



Figure 2-11. Remove Dipstick

 Add recommended engine oil. Climate determines proper engine oil viscosity. See chart to select correct viscosity.

**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.

- Thread dipstick into oil filler neck. Oil level is checked with dipstick fully installed.
- See Figure 2-12. Remove dipstick and verify oil level is within safe operating range.



Figure 2-12. Safe Operating Range

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

# Fuel

# MY

# **ADANGER**

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)



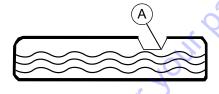
# **ADANGER**

Explosion and Fire. Do not overfill fuel tank. Fill to 1/2 inch from top of fank 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)

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.
- Verify unit is OFF and cooled for a minimum of two minutes prior to fueling.

- Place unit on level ground in a well ventilated area.
- Clean area around fuel cap and remove cap slowly.
- Slowly add recommended fuel. Do not fill above inner lip (A). See Figure 2-13.
- Install fuel cap.



000230

Figure 2-13. 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. Alcoholblended 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

# **Before Starting Engine**

- 1. Verify engine oil level is correct.
- 2. Verify fuel level is correct.
- Verify unit is secure on level ground, with proper clearance and is outdoors 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)



# **ADANGER**

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)



# **AWARNING**

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)



# **AWARNING**

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

(000110)



# **AWARNING**

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)

# **ACAUTION**

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 a terminal for the connection of a grounding electrode system. Article 250.34 (A) does not require the frame of the generator to be connected to a grounding electrode system when the generator only supplies power to cord and plug connected equipment through the receptacles on the generator.

When the generator supplies power to a 3-pole manual transfer switch or distribution panel boards for temporary power, a grounding electrode system shall be installed and connected to the grounding electrode terminal on the generator. See NEC 250.30, 250.34 and 250.52 for clarification. See Figure 3-1.

· Neutral Bonded to Frame



000227

Figure 3-1. Grounding the Generator

# **Special Requirements**

Review all Federal and State Occupational Safety and Health Administration (OSHA) regulations, local codes, and ordinances applicable to the intended use of the generator. Additional regulations may apply if the generator is used at a construction site.

Consult a qualified electrician, electrical inspector, or the local agency having jurisdiction for additional requirements that may be unique to your area, such as whether the generator is required to be registered with local utility.

# 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.

# **Connecting Electrical Loads**

**DO NOT** connect 240 Volt loads to 120 Volt receptacles. **DO NOT** connect 3-phase loads to generator. **DO NOT** connect 50 Hz loads to generator.

Let engine stabilize and warm up for a few minutes after starting.

Plug in and turn on the desired 120 or 240 Volt AC, single phase, 60 Hz electrical loads.

Add up the rated watts (or amps) of all loads to be connected at one time. This total should not be greater than (a) the rated wattage/amperage capacity of the generator or (b) circuit breaker rating of the receptacle supplying the power. See **Know Generator Limits**.

# **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:
- Figure the watts needed to start the largest motor.
- 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.

Table 3. 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
-	

<sup>\*</sup> Allow 3 times the listed watts for starting these devices.

# Transporting/Tipping of the Unit

Do not 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)

# **ACAUTION**

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)

- Unplug all electrical loads from the unit's receptacles before starting engine.
- 2. Place generator on a level surface.
- Rotate the fuel shut-off valve (A) counterclockwise to the ON (open) position. See Figure 3-2.
- 4. Turn engine STOP/RUN switch to RUN. See *Table 1: Generator Components*.

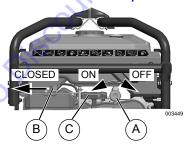


Figure 3-2. Engine Controls

Slide engine choke lever (B) to Full CHOKE position (left). See Figure 3-2.

- See Figure 3-2. Firmly grasp recoil handle
   (C) and pull slowly until increased resistance is felt. Pull rapidly up and away.
- 7. When engine starts, move choke lever to 1/2 CHOKE position until engine runs smoothly, then fully into OPEN (right) position. If engine falters, move choke lever back to 1/2-CHOKE position until engine runs smoothly, then to OPEN (right) position

NOTE: If engine fires, but does not continue to run, move choke lever to Full CHOKE (left) and repeat starting instructions.

IMPORTANT NOTE: Do not overload generator or individual panel receptacles. These outlets are overload protected with pushto-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)

- Unplug all electrical loads from the unit's receptacles before starting the engine.
- Place generator on a level surface.
- Rotate the fuel shut-off valve (A) counterclockwise to the ON (open) position. See Figure 3-2.
- Slide engine choke lever (B) to Full CHOKE position (left). See Figure 3-2.
- Turn and hold START/RUN/STOP switch in the START position. When engine starts, release the switch to the RUN position.
- When engine starts, move choke lever to 1/2 CHOKE position until engine runs smoothly, then fully into OPEN (right) position. If engine falters, move choke lever back to 1/2-CHOKE position until engine runs smoothly, then to OPEN (right) position.

**NOTE:** If engine fires, but does not continue to run, move choke lever to Full CHOKE (left) and repeat starting instructions.

# Generator Shut Down

# **ACAUTION**

30 to Discount, Eduipment, control order your parts

# 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	Y
Check engine oil level	7
Every 100 Hours or Every Season*	
Clean spark arrestor screen	
Every Season	
Check valve clearance***	
Every 200 Hours or Every Season	
Change oil ‡	
Replace spark plug	
Replace fuel filter	
Inspect/clean air cleaner filter**	
+ Change oil after first 25 hours of operation,	

- Change oil after first 25 hours of operation, then every season.
- \* Change oil and oil filter 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 400 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.

# **AWARNING**

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**

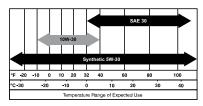
#### **AWARNING**

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.



000

Figure 4-1. Engine Oil Fill

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



Figure 4-2. Safe Operating Range

- Add recommended engine oil as necessary.
- 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 and Oil Filter

# **AWARNING**

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

(000141)



# 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)

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 cool as follows:

- Place generator on a level surface.
- 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.
- Remove oil fill cap.
- Remove oil drain hose cap and drain oil completely into a suitable container.
- 6. Install oil drain hose cap and tighten securely.
- Place a suitable container beneath the oil filter and turn filter counterclockwise to remove. Discard according to local regulations.
- Coat gasket of new filter with clean engine oil. Turn filter clockwise until gasket contacts lightly with filter adapter. Then tighten an additional 3/4 turn.
- Slowly pour oil into oil fill opening until oil level is in safe operating range on dipstick. DO NOT overfill.
- 10. Install oil fill cap, and finger tighten.
- 11. Wipe up any spilled oil.
- 12. 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:

- See Figure 4-3. Remove air filter cover (A) and filter (B).
- Gently tap filter on a solid surface. If too dirty, replace with new filter.
- 3. Clean air filter cover before installation.

**NOTE:** To order a new air filter, contact the nearest IASD at 1-888-GENERAC (1-888-436-3722).

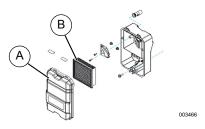
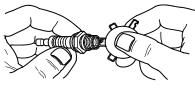


Figure 4-3. Air Filter Assembly

# Service Spark Plug

To service spark plug:

- 1. Clean area around spark plug.
- 2. Remove and inspect spark plug.
- Inspect electrode gap with wire feeler gauge and reset spark plug gap to 0.020 in (0.51 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.

 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. The battery may have to be charged before the first use. Running the generator will 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.

 Disconnect and remove the battery connecting hardware (8mm) and BLACK wire (B) from the battery's NEGATIVE (-) terminal.

- Remove the red rubber boot (A) and disconnect the battery connecting hardware (8mm) and RED wire (C) from the battery's POSITIVE (+) terminal.
- 3. Install new battery. Secure battery with strap.
- Connect RED wire to the POSITIVE (+) battery terminal (C). Slide rubber boot (A) over connection hardware.
- Connect BLACK wire to the NEGATIVE (battery terminal (B).

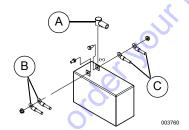


Figure 4-5. Battery Connection

# **AWARNING**

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



# **AWARNING**

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.

- Loosen clamp (A). See Figure 4-6.
- 2. Inspect cone (C) and replace if torn, perforated or otherwise damaged. If cone is not damaged, clean with commercial solvent.
- 3. Replace spark arrestor cone (C) and collar (B). Secure with clamp (A).

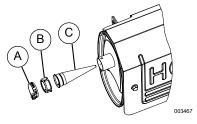


Figure 4-6. Spark Arrestor Screen

# 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 0.05 to 0.08 mm (0.002" to 0.003"
- Exhaust 0.05 to 0.08 mm (0.002" to 0.003" inch)

# Storage

#### General



### **ADANGER**

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Store fuel in a well ventilated area. Keep fire and spark away. Failure ventilated area. Keep ine and spain and spain 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.

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 prob-
- 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.

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



# **▲**WARNING

Vision Loss. Eve 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.
- Install spark plug.
- 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 and Oil Filter

# Troubleshooting

PROBLEM	CAUSE	CORRECTION
Engine is running, but AC output is not available.	Circuit breaker OPEN.     Poor connection or defective cord set.     Connected device is bad.     Fault in generator.     GFCI breaker module is OPEN.	Reset circuit breaker.     Check and repair.     Connect another device that is in good condition.     Contact IASD.     Correct ground fault and press reset button on GFCI breaker module.
Engine runs well at no-load, but bogs when load is applied.	Short circuit in a connected load.     Generator is overloaded.     Engine speed is too slow.     Shorted generator circuit.     Dirty fuel filter.     Clogged spark arrestor.	Disconnect shorted electrical load.     See <i>Know Generator Limits</i> .     Contact IASD.     Replace fuel filter.     Clean spark arrestor screen.
Engine will not start; or starts and runs rough.	1. Fuel shut-off is OFF. 2. Dirty air filter. 3. Out of fuel. 4. Stale fuel. 5. Spark plug wire not connected to spark plug. 6. Bad spark plug. 7. Water in fuel. 8. Overchoking. 9. Low oil level. 10. Excessive rich fuel mixture. 11. Intake valve stuck open or closed. 12. Engine lost compression. 13. Dirty fuel filter.	1. Turn fuel shut-off ON. 2. Clean or replace air filter. 3. Fill fuel tank. 4. Drain fuel tank and fill with fresh fuel. 5. Connect wire to spark plug. 6. Replace spark plug. 7. Drain fuel tank; fill with fresh fuel. 8. Set choke to no choke position. 9. Fill crankcase to correct level. 10. Contact IASD. 11. Contact IASD. 12. Contact IASD. 13. Replace fuel filter.
Engine shuts down during operation.	Out of fuel.    Low oil level.    Fault in engine.	Fill fuel tank.     Fill crankcase to correct level.     Contact IASD.
Engine lacks power.	Load is too high.     Dirty air filter.     Engine needs to be serviced.     Dirty fuel filter.     Clogged spark arrestor.	Reduce load (see Know Generator Limits).     Clean or replace air filter.     Contact IASD.     Replace fuel filter.     Clean spark arrestor screen.
Engine surges or stumbles.	Choke is opened too soon.     Carburetor is running too rich or too lean.	Set choke to halfway position until engine runs smoothly.     Contact IASD.

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