

INSTRUCTION MANUAL

1000W 2 Stroke Portable Generator

Model # PS50





Fuel mix ratio: 50:1

Have product questions or need technical support? Please feel free to contact us!

Website: www.Amerisuninc.com

Toll free: 1-800-791-9458 Mon-Fri 9-5 EST

Email: support@amerisuninc.com

Thank you for purchasing PowerSmart products. Please register online at **www. Amerisuninc.com.**

The information will allow us to track your warranty and update on your unit.

Important: Our company does not provide email or personal information to any third party for any reason. For any questions check our website or call customer service at (800)791 9458.

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TECHNICAL DATA

1000W 2 Stroke Generator Model # PS50

Engine type: 2 stroke, single cylinder with forced air cooling system

Spark plug: F5TC

Spark plug gap: 0.7-0.8 mm (0.028-0.031 in)

Spark plug torque: 1/2-3/4 turn after gasket contacts base or 15 ft.lb

Displacement: 63 cc

Fuel tank capacity: 1.1 gallon/87 octane minimum mixed with 2 stroke oil

Fuel and 2 stroke oil mix ratio: 50:1

Lubrication system: Splash lubrication

AC Rated wattage: 900W

AC Surge wattage: 1000W

AC Rated voltage: 120V

AC Rated amperage: 7.5A

Frequency: 60Hz

Phase: Single

DC Voltage: 12V

Dimensions (L x W x H): 16x14x13.8 inches

Run time on 50% load: 5 hours Weight: 39 lb.

INTRODUCTION

Thank You for Purchasing a PowerSmart[®] Product. This manual provides information regarding the safe operation and maintenance of this product. Every effort has been made to ensure the accuracy of the information in this manual. PowerSmart[®] reserves the right to change this product and specifications at any time without prior notice.

Please keep this manual available to all users during the entire life of the generator.



This manual contains special messages to bring attention to potential safety concerns, generator damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

QUESTIONS? PROBLEMS?

In order to answer questions and solve problems in the most efficient and speedy manner, contact Customer Service at (800) 791-9458, Mon-Fri 9am-5pm EST or email: support@amerisuninc.com.

NOTICE REGARDING EMISSIONS

Engines that are certified to comply with U.S. EPA emission regulations for SORE (Small Off Road Equipment), are certified to operate on regular unleaded gasoline, and may include the following emission control systems: (EM) Engine Modifications and (TWC) Three-Way Catalyst (if so equipped).

SAFETY INFORMATION

Before operating this generator, read and observe all warnings, cautions, and instructions on the generator and in this Owner's Manual.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. Read the entire Owner's Manual for safety and operating instructions. Failure to follow instructions and safety information could result in serious injury or death.

This safety alert symbol is used to identify safety information about hazards that can result in personal injury.



A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

DANGER indicates a hazard, which, if not avoided, will result in death or serious injury.

WARNING indicates a hazard, which, if not avoided, could result in death or serious injury.

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

CAUTION when used without the alert symbol, indicates a situation that could result in damage to the engine or generator.

GENERAL SAFETY PROCEDURES

For any questions regarding the hazard and safety notices listed in this manual or on the product, please call (800) 791-9458 Mon-Fri 9-5 EST before using the generator.

DANGER: CARBON MONOXIDE

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide (CO). This is a poison gas you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

NEVER use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air. ONLY use a generator outside and far away from windows, doors, and vents. These openings can pull in generator exhaust.

Even if you use a generator correctly, CO may leak into the home. ALWAYS use a battery-powered or battery-backup CO alarm in the home. If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.



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



WARNING: This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death if ignited. A nearby open flame can lead to explosion even if it isn't directly in contact with gasoline.

- Do not operate near open flame.
- Do not smoke near generator.
- Always operate on a firm, level surface.
- Always turn generator off before refueling. Allow generator to cool for at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Do not overfill fuel tank. Gasoline may expand during operation. Do not fill to the top of the tank. Allow for expansion.
- Always check for spilled fuel before operating.
- Empty fuel tank before storing or transporting the generator.



WARNING: This generator produces powerful voltage, which can result in electrocution.

- ALWAYS ground the generator before using it (see the "Ground the Generator" portion of the "GENERATOR PREPARATION" section).
 - Generator should only be plugged into electrical devices, either directly or with an extension cord.

NEVER connect to a building electrical system without a qualified electrician. Such connections must comply with local electrical laws and codes. Failure to comply can create a back-feed, which may result in serious injury or death to utility workers.

- Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.
- Do not use in rainy conditions.
- Do not touch bare wires or receptacles (outlets).
- Do not allow children or non-qualified persons to operate.



WARNING: This generator produces heat when running. Temperatures near exhaust can exceed 150°F (65°C).

Do not touch hot surfaces. Pay attention to warning labels on the generator identifying hot parts of the machine.

Allow generator to cool down after use before touching engine or areas of the generator that become hot during use.

CAUTION: Misuse of this generator can damage it or shorten its life.

Only use generator for its intended purposes.

Operate only on dry, level surfaces.

Allow generator to run for several minutes before connecting electrical devices.

Shut off and disconnect any malfunctioning devices from generator.

Do not exceed the wattage capacity of the generator by plugging in more electrical devices than the unit can handle.

Do not turn on electrical devices until after they are connected to the generator.

Turn off all connected electrical devices before stopping the generator.

Turn the engine switch to "OFF" position when the engine is not running.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS – This manual contains important instructions for the PowerSmart® 1000W 2 stroke generator that should be followed during installation and maintenance of the generator.

Generators vibrate in normal use. During and after the use of the generator, inspect both the generator as well as extension and power supply cords for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation.

For power outages, permanently installed stationary generators are better suited for providing backup power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing of the components, possibly leading to a generator failure.



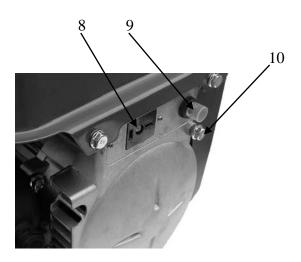
WARNING: If this generator is used as a supply for a building's wiring system, the generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with the National Electrical Code, NFPA 70. The generator

shall be connected to a transfer switch that switches all conductors excluding the equipment grounding conductor. The frame of the generator shall be connected to an approved grounding electrode.

KNOWING YOUR GENERATOR

Use the illustrations below to become familiar with the locations and functions of the various components and controls of this generator.





- **Air Cleaner** a removable, cleanable, sponge-like element that limits the amount of dirt pulled into the engine.
- **AC Circuit Rest Button** Reset button that protects the generator from AC outlet overload.
- **120 Volt AC Receptacle** To connect electrical devices that run on 120 Volt, 60 Hz, single phase, AC current.
- 4 Fuel Tank
- **Fuel Cap** Access to the fuel tank for adding fuel.
- **Carrying Handle** for easy transport.
- **Engine Switch** Used to start/stop engine.

- **DC Terminal**
- **DC Circuit Reset Button** Reset button that protects the generator from DC outlet overload.
- **Ground Terminal** Connect grounding wires here to properly ground unit.
- **Recoil Starter** Pull-cord for starting engine.
- **Choke Lever** Adjusts the amount of air let into then engine.
- **Fuel Valve** Allows fuel to enter engine.

GENERATOR PREPARATION

The following section describes steps necessary to prepare the generator for use. If after reading this section, you are unsure about how to perform any of the steps please call (800) 791-9458 Mon-Fri 9-5 EST for customer service. Failure to perform these steps properly can damage the generator or shorten its life.

Step 1 - ATTACHING THE CARRYING HANDLE

- 1. Remove the 2 bolts and 2 washers.
- 2. Place the bolts and washers into the carrying handle.
- 3. Position the handle over the threaded holes in the fuel tank.
- 4. Tighten bolts using the screwdriver until the bolts are snug.

Step 2 – MIXING FUEL FOR 2 STROKE ENGINE

2 STROKE OIL

To operate the engine, use unleaded gasoline mixed with high quality 2 Cycle oil at a ratio of 50 to 1. Note: Use NMMA or TC-WII or TC-W3 or JASO FB or FASO FC classified oil in the mixture.

GASOLINE

Use unleaded regular, unleaded premium, or gasoline containing 10% ethanol. Fuel must be fresh and clean. Never use gasoline stored for long periods.

MIXING GASOLINE AND OIL

WARNING: Never store generator with fuel in the fuel tank inside a building with potential sources of ignition such as hot water tanks, space heaters, clothes dryers, electric motors, etc.

Notes: DO NOT mix gasoline and oil directly in the fuel tank.

USE NMMA or TC-WII or TC-W3 or JASO FB or JASO FC classified oil.

- Make sure fuel container is outside and in a well ventilated area.
- Fill the approved, clean red gasoline container with ¼ of the recommended gasoline amount.
- Add the required amount of oil to the gasoline.
- Tighten the cap on the fuel container.
- Shake vigorously to mix the gasoline and oil.
- •Undo the fuel cap and add the remainder of the recommended fuel. Wipe away any spilled fuel or oil.

Mixing Ratios: 50:1

- To 1 gallon gasoline, add 2.5 oz 2 cycle oil
- To 2 gallon gasoline, add 5 oz 2 cycle oil
- •To 5 gallon gasoline, add 13 oz 2 cycle oil

Step 3 – FILLING THE FUEL TANK

WARNING: This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death if ignited. A nearby open flame can lead to explosion even if not directly in contact with gasoline.

- Do not operate near open flame.
- Do not smoke near generator.
- Always operate on a firm, level surface.
- Always turn generator off before refueling. Allow generator to cool for at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Do not overfill fuel tank. Gasoline may expand during operation. Do not fill to the top of the tank. Allow for expansion.
- Always check for spilled fuel before operating. Clean up any spilled fuel before starting.
- Empty fuel tank before storing or transporting the generator.
- Before transporting, turn fuel valve to off position and disconnect spark plug wire.
- 1. Be sure generator is outdoors and in a well ventilated area.
- 2. Clean the area around the fuel fill cap and remove the fuel fill cap.
- 3. Using the approved red gasoline container with the gasoline and oil mixture, slowly add the fuel to the tank. DO NOT overfill the fuel tank. Leave space for expansion.
- 4. Replace the fuel cap and wipe up any spills.

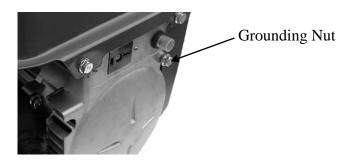
Step 4 - GROUND THE GENERATOR



WARNING: Failure to properly ground the generator can result in electrocution. Ground the generator by tightening the grounding nut on the front control panel against a grounding wire. A generally acceptable grounding wire is a No. 12 AWG (American Wire

Gauge) stranded copper wire. This grounding wire should be connected at the other end to a copper, brass, or steel-grounding rod that is driven into the earth. Wire and grounding rods are not included in generator contents.

Grounding codes can vary by location. Contact a local electrician to check the area codes.



NOTE: After completing the above preparation, the generator is ready to be started.

STARTING THE GENERATOR

Before starting the generator, make sure you have read and performed the steps in the "Generator Preparation" section of this manual. If you are unsure about how to perform any of the steps in this manual, please call (800) 791-9458 Mon-Fri 9-5 EST or email: support@amerisuninc.com for customer service.



DANGER: CARBON MONOXIDE.

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide (CO). This is a poison gas you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. Even if you cannot smell the exhaust, you may be breathing CO.

NEVER use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.

ONLY use a generator outside and far away from windows, doors, and vents. These openings can pull in generator exhaust. Even if you use a generator correctly, CO may leak into the home. ALWAYS use a battery-powered or battery-backup CO alarm in the home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.



WARNING: This generator produces powerful voltage, which can result in electrocution.

ALWAYS ground the generator before using it (see the "Ground the Generator" portion of the "Generator Preparation" section).

- Generator should only be plugged into electrical devices, either directly or with an extension cord.
 NEVER connect to a building electrical system without a qualified electrician. Such connections
 must comply with local electrical laws and codes. Failure to comply can create a back-feed, which
 may result in serious injury or death to utility workers.
- Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.
- Do not use in rainy or wet conditions.
- Do not touch bare wires or receptacles (outlets).
- Do not allow children or non-qualified persons to operate.

CAUTION: Disconnect all electrical loads from the generator before attempting to start.

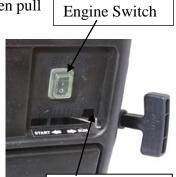
STARTING THE ENGINE

To start the generator, perform the following steps:

- 1. Unplug all electrical devices from the generator during ignition. Otherwise it will be difficult for the engine to start.
- 2. Check that the generator is properly grounded (Refer to "GROUND THE GENERATOR").
- 3. Check the oil and fuel levels.
- 4. Turn the fuel valve to the "ON" position.
- 5. Move the choke lever to the "CLOSE" position.
- 6. Set the ON/OFF Switch to the "ON" position.
- 7. Pull on the recoil starter handle slowly until a slight resistance is felt, then pull quickly to start the engine. Return cord gently into the recoil starter.

 Never allow the cord to snap back.
- 8. If engine fails to start, repeat step 7. NOTE: After repeated failed attempts to start the engine, please consult the troubleshooting guide before attempting again. If problems persist, please call (800) 791-9458 M-F 9am-5pm EST.
- 9. Once the engine has started, slowly return the choke lever all the way to the "OPEN" position.
- 10. Allow the engine to run for several minutes before attempting to connect any electrical devices. This allows the generator to stabilize its speed and temperature.





Choke Lever

STOPPING THE GENERATOR

TO STOP THE GENERATOR

- 1. Turn off all electrical devices prior to unplugging them from the generator. Unplugging running devices can cause damage to the generator.
- 2. Turn the "ON/OFF" switch to the "OFF" position.
- 3. Turn the fuel valve to the "OFF" (horizontal) position.



WARNING: Allow the generator to cool for several minutes before touching areas that become hot during use.

CAUTION: Allowing gasoline to sit in the fuel tank for long periods of time can make it difficult to start the generator in the future. Never store the generator for extended periods of time with fuel in the fuel tank. Refer to Generator Storage Section.

USING THE GENERATOR

WARNING: When this generator is used on a building's wiring system, the generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with the National Electrical Code, NFPA 70. The generator shall be connected to a transfer switch that switches all conductors other than the equipment grounding conductor. The frame of the generator shall be connected to an approved grounding electrode.

For power outages, permanently installed stationary generators are better suited for providing backup power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing the machine's components, possibly leading to a generator failure.

Before connecting electrical devices, allow the generator to run for a few minutes to stabilize the speed and voltage output.

CAUTION: Become familiar with the markings on the panel before connecting electrical devices.

AC Usage

Connect electrical devices running on AC current according to their wattage requirements. The chart below shows the rated and surge wattage of the generator.

Model	Rated Wattage	Surge Wattage
PS50	900W	1000W

The rated (running) wattage is the wattage the generator can produce on a continuous basis.

The surge wattage is the maximum amount of power the generator can produce for an extremely short period of time (seconds). Many electrical devices such as refrigerators require short bursts of extra power in addition to the rated wattage listed by the device to start their motors. The surge wattage ability of the generator covers this extra power requirement.

The total running wattage requirement of the electrical devices connected to the generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices you plan to connect, find the rated (or running) wattage of each device. This number should be listed somewhere on the device or in its instruction manual. If this wattage cannot be found, calculate it by multiplying the Voltage requirement by the Amperage drawn:

 $Watts = Volts \times Amperes$

If these specifications are not available, estimate the wattages requirement of the device by using the chart in next page.

When the rated wattage requirement of each electrical device has been determined, add these numbers to find the total rated wattage needed. If this number exceeds the rated wattage of the generator, DO NOT connect all these devices. Select a combination of electrical devices, which have a total rated wattage lower than or equal to the rated wattage of the generator.

CAUTION: The generator can run at its surge wattage capacity for only a short time. Connect electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of the generator. Never

connect devices requiring a rated wattage equal to the surge wattage of the generator. This can trip the circuit protectors (circuit breakers).

Tool or appliance	Rated watts	Additional surge watts
Electric water heater (40 Gal)	4000	0
Hot plate	2500	0
Radial arm saw	2000	2000
Electric stove (each element)	1500-2800	0
Circular saw	1500	1500
Air compressor (1 HP)	1500	3000
Window air conditioner	1200	1800
Miter saw	1200	1200
Microwave	1000	0
Well water pump	1000	1000
Reciprocating saw	960	1040
Sump pump	800	1200
Refrigerator freezer	800	1200
Furnace blower	800	1300
Computer	800	0
Electric drill	600	900
Television	500	0
Deep freezer	500	500
Garage door opener	480	0
Stereo	400	0
Box fan	300	600
Clock radio	300	0
Security system	180	0
DVD player	100	0
Common light bulb	75	0

Estimated wattage requirements of common electrical devices

Note: The above wattage figures are estimates. Check the wattage listed on the electrical device before consulting this chart. Once the electrical devices that will be powered by the generator have been determined, connect these devices.

Once you have determined what electrical devices you will be powering with the generator, connect these devices according to the following procedure:

- 1. Plug in each electrical device with the device turned off. NOTE: Be sure to attach appliances to the correct receptacles (outlets).
- 2. Push in the circuit reset buttons to the "on" position (NOTE: They may be already pushed in which is the "on" position).
- 3. Start each appliance/device one at a time. Do not overload the capacity of the generator.

CAUTION: Do not connect 50Hz loads to the generator.

SOME NOTES ABOUT POWER CORDS

Long or thin cords can drain the power provided to an electrical device by the generator. When using such cords, allow for a slightly higher rated wattage requirement by the electrical device. See below for recommended cords based on the power requirement of the electrical device.

Ampei	re Rating	Total Length of Cord in feet			
More Than	Not More Than	25	50	100	150
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

Maximum extension cord lengths by power requirement

If an overload occurs, shut down the generator. Unplug all electrical devices and wait five minutes. Then, start the unit back up again to get power back.

DC Usage

This Generator is equipped with a 12V DC receptacle. The 12V DC receptacle is not intended for use to charge automotive batteries. The receptacle permits the use of any electrical device designed for use in a 12V DC.



DC Receptacle

MAINTENANCE

Proper routine maintenance of the generator will help prolong the life of the machine. Please perform maintenance checks and operations according to the schedule in below chart.

Recommen	nded	Each 8	First 8	Every 25	Every 3	Every 6	Every	As
maintenance schedule		hours or	hours	hours	months or	months or	year	necessary
		daily			50 hours	100 hours		
Engine	Check	X						
oil	lever							
	Replace		X	х*	х*			
Air	Check			X		X		
cleaner	Clean					X		
Spark	Check					X		
plug	/Clean							
	Change						X	X
Fuel tank	Check	X						
	lever							

^{*}Clean/change more often under dusty conditions or operating under heavy load.

Recommended maintenance schedule

CLEANING THE GENERATOR

Never clean the generator when it is running! Never clean with a bucket of water or a hose. Water can get inside the working parts of the generator and cause a short circuit or corrosion.

Always try to use the generator in a cool, dry place. If the generator becomes dirty, clean the exterior with a damp cloth, a soft brush, a vacuum or pressurized air.

AIR CLEANER MAINTENANCE

Routine maintenance of the air cleaner helps maintain proper airflow to the carburetor. Occasionally check that the air cleaner is free of excessive dirt. Refer to Recommended Maintenance Schedule in last page. For air cleaner detail:

- 1. Undo the 2 bolts holding the air cleaner cover in place.
- 2. Remove the sponge-like elements from the casing.
- 3. Wipe the dirt from inside the empty air cleaner casing
- 4. Wash the sponge-like elements in household detergent and warm water. Allow to dry.
- 5. Drip the sponge-like element in clean engine oil, squeeze out extra oil and reinsert into the casing.
- 6. Attach the air cleaner cover with the 2 bolts.



CAUTION: running the engine with dirty, damaged or missing air cleaner element will cause the engine to wear out prematurely.

SPARK PLUG MAINTENANCE

The spark plug is important for proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped. Refer to Recommended Maintenance Schedule. To inspect the spark plug:

- 1. Remove spark plug boot. Be careful not to tear insulation or wire.
- 2. Unscrew the spark plug from the engine using the spark plug wrench provided. There is limited space for the wrench to turn. Use both rows of holes in the spark plug wrench to gain leverage to loosen the plug.
- 3. Visually inspect the spark plug for cracks or excessive electrode wear. Replace as necessary.
- 4. Measure the plug gap with a wire gauge. The gap should be 0.7 to 0.8 mm (0.028-0.031 in).
- 5. If re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base then re-gap the spark plug.
- 6. Screw the spark plug back into the spark plug hole using the spark plug wrench. Do not over-tighten spark plug. Recommended tightening of spark plug is ½ to ¾ of a turn after spark plug gasket contacts spark plug hole. Reinstall the spark plug boot.

DRAINING THE FUEL TANK

Clean fuel tank each year or before storing the generator for extended periods of time. To drain the fuel tank and carburetor:

- 1. Turn the fuel valve to the "OFF" position.
- 2. Remove the fuel line between the fuel valve and carburetor. Caution: A small amount of fuel may leak from the hose during removal.
- 3. Attach a fuel line (not included with the generator) to the exposed end of the fuel valve.
- 4. Position fuel line into an appropriate container and open the fuel valve allowing fuel to flow into the container.
- 5. Once fuel is drained, shut off the fuel valve.
- 6. Start and run the engine until fuel runs out.
- 7. Store the emptied gasoline in a suitable place.

CAUTION: Do not store fuel for more than 3 months.

STORAGE & TRANSPORT PROCEDURES

CAUTION: Never place any type of storage cover on the generator while it is still hot.

If the generator is being stored for short periods of time (30 to 60 days), add stabilized fuel to the fuel tank until full. NOTE: Filling the tank reduces the amount of air in the tank and helps reduce deterioration of fuel. Run the engine for 2-3 minutes allowing stabilized fuel mixture to circulate through the carburetor. When storing the generator for extended periods of time:

- Drain the fuel tank (see "Draining the Fuel Tank" in the "Maintenance" section).
- Change oil.
- Do not obstruct any ventilation openings.
- Keep the generator in a cool dry area.

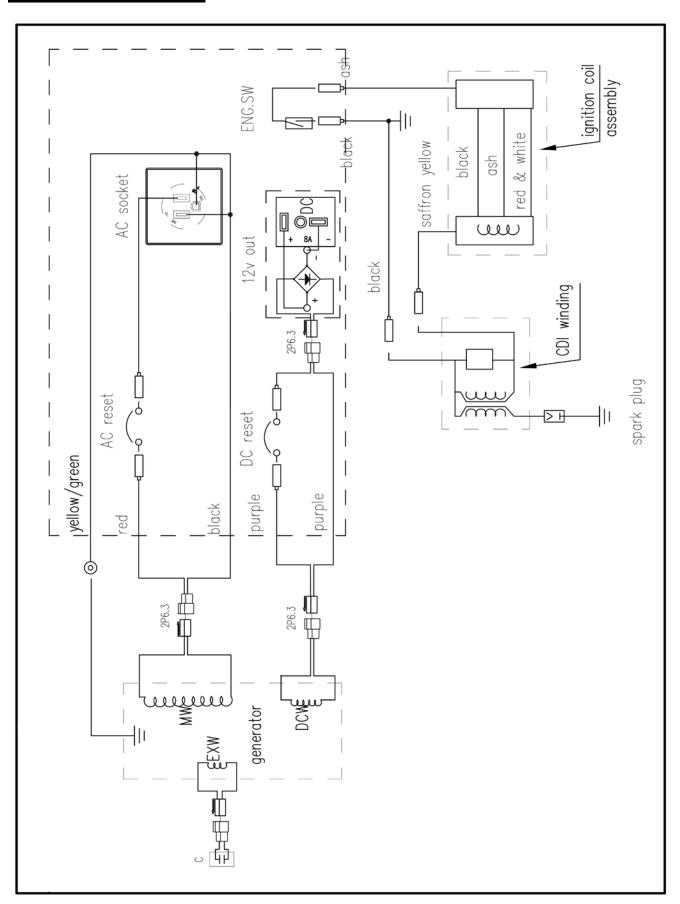
When transporting generator:

- Drain the fuel tank if possible (see "Draining the Fuel Tank" in the "Maintenance" section).
- Keep the generator upright. Never place the generator side down. Doing so will make it difficult to start.

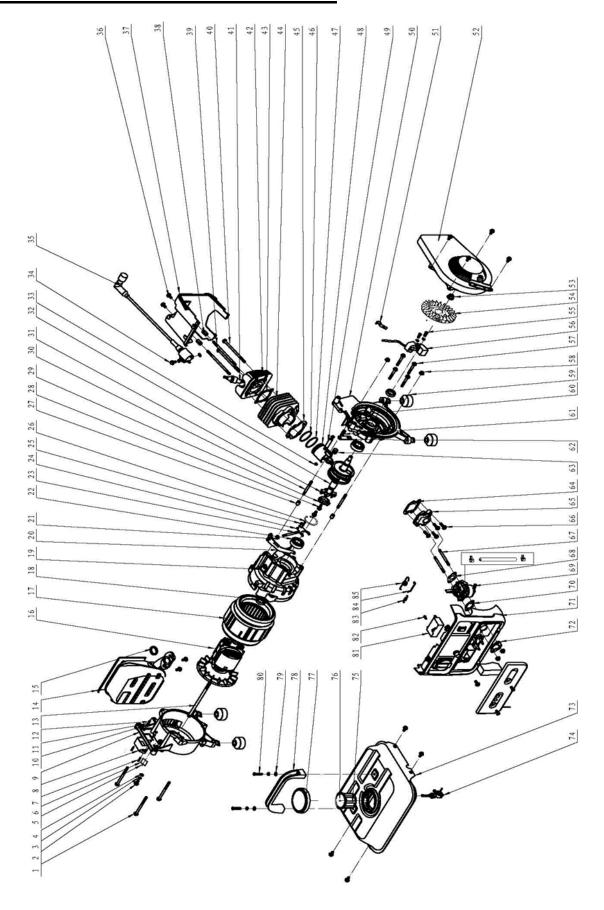
TROUBLESHOOTING

Problem	Cause	Solution
Engine	Engine switch is set to "OFF".	Set engine switch to "ON".
will not	Fuel valve is turned to "OFF".	Turn fuel valve to "ON" position.
start.	Choke is open.	Close the choke.
	Engine is out of gas.	Add mixed gasoline.
	Engine is filled with contaminated or old gas.	Change the gas in the tank.
	Spark plug is dirty.	Clean spark plug.
	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level.
	Air cleaner is dirty.	Clean or replace air cleaner element.
Engine	Circuit breaker button is off.	Wait for 2 minutes and move the circuit
runs but		breaker button to the "ON" position.
there is no	Bad connecting wires/cables.	If you are using an extension cord, try a
output.		different one.
	Bad electrical device connected to generator.	Try connecting a different device.
Generator	Generator is overloaded.	Perform these steps:
runs but		 Turn off all electrical devices.
doesn't		Unplug all electrical devices.
support all		3. Turn off generator.
electrical		4. Wait several minutes.
devices		5. Restart generator.
connected.		6. Try to connect fewer electrical loads
		to the generator.
	Short in one of the connected devices.	Try disconnecting any faulty or
		short-circuited electrical loads.
	Air cleaner is dirty.	Clean or replace air cleaner.

WIRING DIAGRAM



EXPLODED VIEW AND PARTS LIST



Item	STOCK#	DESCRIPTION	QTY
1	PS50-001	Flange bolt M6x80	3
2	PS50-002	Flange bolt M6x10	2
3	PS50-003	Spring washer 6	7
4	PS50-004	Washer 6	3
5	PS50-005	Breaker	1
6	PS50-006	Tarpaulin	1
7	PS50-007	Bolt M3x16	2
8	PS50-008	DC receptacle	1
9	PS50-009	Rear cover	1
10	PS50-010	Washer 3	2
11	PS50-011	Spring washer 3	4
12	PS50-012	Nut M3	2
13	PS50-013	Flange bolt M8x160	1
15	PS50-014	Muffler	1
14	PS50-015	Muffler gasket	1
16	PS50-016	Alternator rotor	1
17	PS50-017	Alternator stator	1
18	PS50-018	Oil seal 20x30x7	2
19	PS50-019	Left crankcase	1
20	PS50-020	Governor arm	1
21	PS50-021	Oil seal 6x12x4	1
22	PS50-022	Bearing 6004	2
23	PS50-023	Governor shaft	1
24	PS50-024	Governor fork	1
25	PS50-025	Bolt M3x8	2
26	PS50-026	Hole circlip 42	1
27	PS50-027	Pin 10x7x14	2
28	PS50-028	Flange bolt M6x16	4
29	PS50-029	Collar bush	1
30	PS50-030	Stub AM6x50	2
31	PS50-031	Weight comp	1
32	PS50-032	Crankshaft assembly	1
33	PS50-033	Circlip	2
34	PS50-034	Flange bolt M6x16	2
35	PS50-035	CDI winding	1
36	PS50-036	Flange bolt M6*12	10
37	PS50-037	Head cover	1
38	PS50-038	Bolt M6x18	2
39	PS50-039	Stub AM6x100	2
40	PS50-040	Flange bolt M6x105	2
41	PS50-041	Spark plug	1
42	PS50-042	Cylinder cap	1
43	PS50-043	Cylinder cap gasket	1

Item	STOCK#	DESCRIPTION	QTY
44	PS50-044	Cylinder head	1
45	PS50-045	Cylinder gasket	1
46	PS50-046	First piston ring	1
47	PS50-047	Second piston ring	1
48	PS50-048	Piston	1
49	PS50-049	Piston pin	1
50	PS50-050	Right crankcase	1
51	PS50-051	Clamp	1
53	PS50-052	Recoil starter assembly	1
54	PS50-053	Flange nut M10*1.25	1
52	PS50-054	Flywheel	1
55	PS50-055	Bolt M6x16	2
56	PS50-056	Ignition coil assembly	1
57	PS50-057	Flange bolt M6x45	4
58	PS50-058	Nut M6	4
59	PS50-059	Absorber	4
60	PS50-060	Bolt M6x40	1
61	PS50-061	Compression spring	1
62	PS50-062	Supporting plate	1
63	PS50-063	Roller bearing 14x10x13	1
64	PS50-064	Intake valve gasket	1
65	PS50-065	Intake valve assembly	1
66	PS50-066	Flange bolt M6x18	4
67	PS50-067	Stub AM6x60	2
68	PS50-068	Intake gasket	1
69	PS50-069	Carburetor	1
70	PS50-070	Carburetor gasket B	1
71	PS50-071	Control panel	1
72	PS50-072	Carburetor gasket A	1
73	PS50-073	Fuel tank	1
74	PS50-074	Fuel switch	1
75	PS50-075	Fuel filter	1
76	PS50-076	Fuel cup	1
77	PS50-077	Fuel tank cap	1
78	PS50-078	Carrying handle	1
79	PS50-079	Washer 6	2
80	PS50-080	Bolt M6x30	2
81	PS50-081	Capacitor	1
82	PS50-082	Screw ST4.2x14	1
83	PS50-083	Tension spring	1
84	PS50-084	Rod link	1
85	PS50-085	Governor spring	1

TWO (2) YEARS LIMITED WARRANTY

PowerSmart is committed to building tools that are dependable for years. Our warranties are consistent with our commitment and dedication to quality.

TWO (2) YEARS LIMITED WARRANTY OF POWER SMART PRODUCTS FOR HOME USE.

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SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Two (2) Years Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the entire power tool product; transportation prepaid, to PowerSmart Include a legible copy of the original receipt, which lists the date of purchase (month and year) and the name of the company purchased from.

THIS LIMITED WARRANTY DOES NOT APPLY TO ANY ACCESSORY ITEMS INCLUDED WITH THE TOOL SUCH AS CIRCULAR SAW BLADES OTHER RELATED ITEMS OR TO ANY REPLACEMENT PARTS LISTED UNDER MAINTENANCE.

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