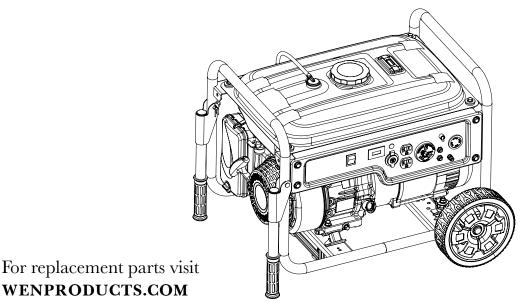


5000W PORTABLE GENERATOR



Model # 56500 bit.ly/wenvideo

IMPORTANT:

Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purpose, you will enjoy years of safe, reliable service.



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us at:



800 - 232 - 1195 (M-F 8AM-5PM CST)



tech support@wenproducts.com



WENPRODUCTS.COM

NOTICE: Please refer to wenproducts.com for the most up-to-date instruction manual.

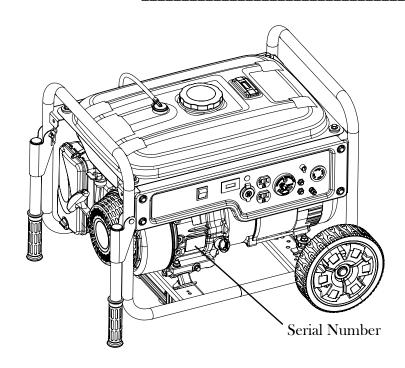
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GENERATOR IDENTIFICATION

If any assistance for information or service is required, please contact our Customer Service Help Line at (800) 232-1195, M-F 8-5 CST; customer will be asked to provide generator information when calling.

Refer to the illustration below for the location of the serial number. Record generator information in the spaces provided below.

DATE OF PURCHASE:	
PURCHASED FROM:	
ENGINE SERIAL NUMBER:	



SERVICE RECORD

Record Service Dates:

	Date	Date	Date	Date	Date	Date
Change Oil						
Change Spark Plug						
Clean Fuel Tank						
Clean Air Filter						

TO MAXIMIZE THE LIFESPAN OF THIS GENERATOR, MAKE SURE TO RUN IT AT LEAST ONCE A MONTH. IF YOU DO NOT RUN IT OFTEN, IT WILL GREATLY SHORTEN THE LIFESPAN AND PERFORMANCE OF THE GENERATOR.

INTRODUCTION

Thank you for purchasing a WEN Generator. Before operating this generator, be sure to read and observe all warnings, cautions, and instructions both on the generator and in this owner's manual. Safety is a combination of common sense, staying alert, and knowing how your tool works. This manual provides information regarding the safe operation and maintenance of this product. Failure to follow all instructions listed below may result in personal injury.

Please keep this manual available to all users during the entire life of the tool. Review it frequently to maximize safety for both yourself and others.



IMPORTANT: This manual contains special messages to bring attention to potential safety concerns and 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) 232-1195, M-F 8-5 CST or email techsupport@wenproducts.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

The 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 machine.

The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

SAFETY INFORMATION

SAVE THESE INSTRUCTIONS - This manual contains important instructions for the WEN generator that should be followed during installation and maintenance of the generator. DO NOT operate this generator until you have read all safety operation and maintenance instructions listed in this manual.

For any questions regarding the hazard and safety notices listed in this manual or on the product, please call customer service at (800) 232-1195 M-F 8-5 CST or email techsupport@wenproducts.com 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, crawl spaces, or other partially 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.



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.



WARNING: This generator produces heat when running. Temperatures near exhaust can exceed 150° F (65° C). DO NOT TOUCH HOT SURFACE.

NOTE: 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.

GENERATOR SAFETY RULES



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and serious injury. To avoid mistakes and serious injury, do not plug in your tool until the following steps have been read and understood.

OPERATING ENVIRONMENT

- 1. ONLY use a generator outside and far away from windows, doors and vents. Using a generator indoors can kill you in minutes.
- 2. DO NOT operate near open flame or flammable materials. This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death if ignited.
- 3. DO NOT smoke near the generator.
- 4. DO NOT use the generator in rainy or wet conditions; doing so significantly increases the risk of electrical shock.
- 5. Always operate the generator on a dry, firm, level surface.
- 6. DO NOT allow children or non-qualified persons to operate the generator.

GENERATOR PREPARATION

- 1. ALWAYS ground the generator before using it (see the "Ground the Generator" portion of the "Generator Preparation" section on page 10).
- 2. DO NOT overfill fuel tank. Gasoline may expand during operation. Do not fill to the top of the tank. Allow for expansion.
- 3. Always check for spilled fuel before operating.
- 4. Make sure to have damaged items repaired or replaced before operation.
- 5. DO NOT use plugs or cords that show signs of damage such as broken or cracked insulation.
- 6. Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GF-CIs are available in-line with some extension cords.
- 7. NEVER connect the generator to a building's 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.

GENERATOR SAFETY RULES

GENERATOR OPERATION

- 1. Only use generator for its intended purposes.
- 2. DO NOT touch bare wires or receptacles (outlets).
- 3. DO NOT touch hot surfaces. See warning labels on the generator identifying hot parts of the machine.
- 4. Allow generator to run for several minutes before connecting electrical devices.
- 5. DO NOT exceed the wattage capacity of the generator by plugging in more electrical devices than the unit can handle.
- 6. DO NOT turn on electrical devices until after they are connected to the generator.
- 7. 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.
- 8. 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.
- 9. Allow generator to cool down after use before touching engine or areas of the generator that become hot during use.
- 10. Turn OFF all connected electrical devices before stopping the generator.
- 11. Shut off and disconnect any malfunctioning devices from generator.
- 12. 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.
- 13. Turn the engine switch to "OFF" position when the engine is not running.
- 14. Empty fuel tank before storing or transporting the generator.

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

TO MAXIMIZE THE LIFESPAN OF THIS GENERATOR, MAKE SURE TO RUN IT AT LEAST ONCE A MONTH. IF YOU DO NOT RUN IT OFTEN, IT WILL GREATLY SHORTEN THE LIFESPAN AND PERFORMANCE OF THE GENERATOR.

UNPACKING & ASSEMBLY

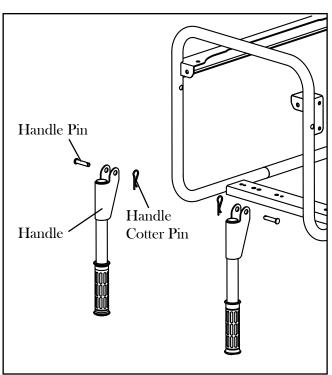
To unpack the generator, first place the shipping carton on a solid, flat ground. Cut open the box from the four edges and take out all the contents from the carton except for the generator itself. Follow the instructions below to assemble your generator with the help of a friend or a trustworthy foe.

PACKING LIST

Accessory	Part No.	Qty.
Wheel	56500-008	2
Wheel Axle M16x85	56500-009	2
Wheel Cotter Pin	56500-007	2
Handle Assembly	56500-001	2
Handle Axle M10x30	56500-005	2
Handle Cotter Pin	56500-003	2
Support Bracket	56500-058	2
Support Foot	56500-059	2
Screw M6x16	56500-054	2
Nut M6	56500-057	2
Screw M8x16	56500-060	2
Nut M8	56500-055	2
Wrench M10/M12	N/A	1
Spark Plug Socket	N/A	1

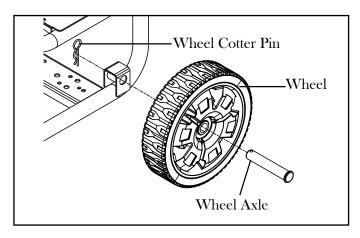
INSTALLING THE HANDLE ASSEMBLIES

Insert the M10×40 handle axle through the handle assembly and handle mounting bracket on the generator frame. Insert the handle cotter pin through the handle axle to secure the handle in place. Repeat with the other handle assembly.



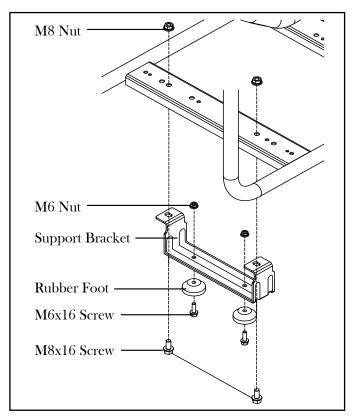
INSTALLING THE WHEELS

Slide the M16 x 85 wheel axle through the wheel and wheel mounting bracket on the bottom of the generator frame. Insert the wheel cotter pin through the wheel axle to secure the wheel in place. Repeat with the other wheel.



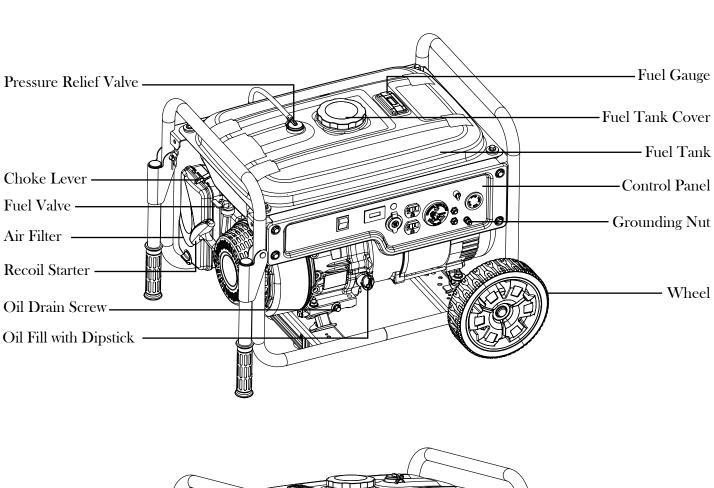
INSTALLING THE SUPPORT BRACKET

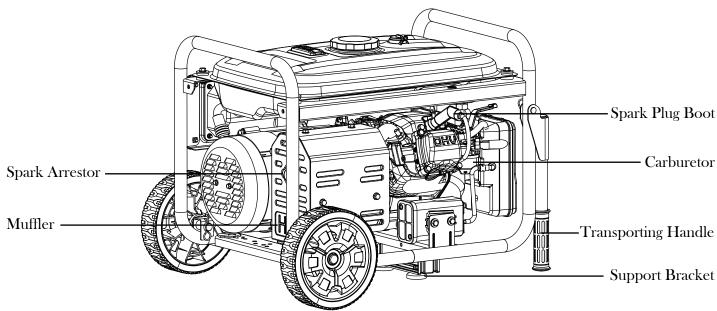
- 1. Attach the two rubber feet onto the support bracket using two M6x16 screws and M6 nuts.
- 2. Attach the support bracket onto the bottom of the generator frame using two M8x16 screws and M8 nuts.



KNOW YOUR GENERATOR

Use the illustration below to become familiar with the locations and functions of the various components of this generator. If any part is damaged or missing, please contact our customer service at (800) 232-1195, M-F 8-5 CST or email techsupport@wenproducts.com.





GENERATOR PREPARATION

CAUTION: The Generator Preparation Section describes the necessary steps to prepare the generator for use. If you have any questions after reading this section, please call (800) 232-1195 M-F 8-5 CST for customer service. Failure to perform these steps properly can damage the generator or shorten its life.

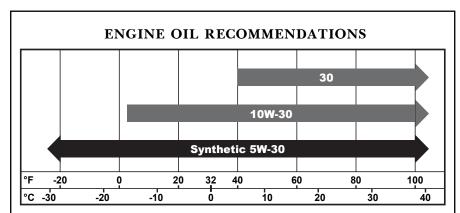
STEP 1 - ADD/CHECK OIL

The generator is shipped without oil. A proper amount of oil must be added before operating the generator for the first time. For subsequent operation, the oil level should be checked before each use or after every 8 hours of operation. This is a critical step for proper engine starting to ensure that the engine crankcase contains sufficient lubricant. The oil capacity of the engine crankcase is 33.8 fl. ounces.

Select good quality detergent oil bearing the American Petroleum Institute (API) service classifications SJ, SL, or SM (synthetic oils may be used). Select the SAE viscosity grade of oil from "Engine Oil Recommendations" (Fig. 1) that matches the expected operating temperature.

To fill oil, follow these steps:

1. Make sure the generator is shut off. Place the generator on a level surface. NOTE: Tilting the generator to assist in filling will cause oil to flow into the engine areas and will cause damage. Keep the generator level!



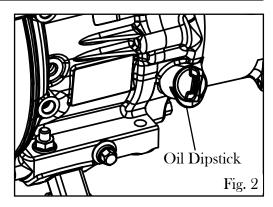
- 30W, 4-stroke engine oil for temperatures above 40°F.
- 10W-30 engine oil for temperatures between 0°F 40°F.
- Synthetic 5W-30 engine oil for all temperature ranges.

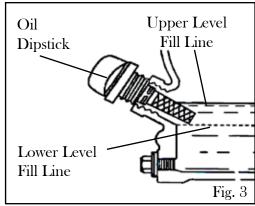
Fig. 1

- 2. Remove the oil dipstick from the engine (Fig. 2).
- 3. Using an oil funnel or appropriate dispenser, slowly add oil into the oil fill. Fill the crank case to the upper fill line so you can visually see the oil coming halfway up the oil fill threads (Fig. 3). The oil capacity of the engine crankcase is 33.8 fl. ounces. Be careful not to overfill the unit.
- 4. Reinstall the oil dipstick and wipe clean any spilled oil with a dry rag.

To check/add oil, follow these steps:

- 1. Remove and wipe the oil dipstick with a clean rag. Insert the dipstick into the oil fill opening without screwing it in.
- 2. Remove the dipstick to check the oil mark on the dipstick. Add oil if the oil mark covers less than one half of the dipstick.
- 3. Slowly add oil and repeat step 2 until the oil mark reaches to the top of dipstick (or when you can see the oil coming halfway up the oil fill threads). Do not over fill the crankcase.
- 4. Wipe clean any oil leaks and firmly tighten the dipstick.





GENERATOR PREPARATION



WARNING: Keep generator away from open flame. 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.

Step 2 - ADD/CHECK GASOLINE

Use fresh (within 30 days from purchase), lead-free gasoline with a minimum of 87 octane rating. The capacity of the fuel tank is 3.4 gallons. Do not mix oil with gasoline.

To add gasoline, follow these steps:

- 1. Make sure the generator is on a level surface and in a well ventilated area.
- 2. Unscrew the fuel cap and set it aside (Fig. 4). NOTE: The fuel cap may be tight and hard to unscrew.
- 3. Slowly add unleaded gasoline to the fuel tank. Be careful not to overfill. The capacity of the fuel tank is 3.4 gallons. NOTE: Do not fill the fuel tank to the very top. Leave sufficient room in the tank for gasoline to expand.
- 4. Reinstall fuel cap and wipe clean any spilled gasoline with a dry cloth.

To check the fuel level:

Check the fuel gauge on the top of the gas tank (Fig. 5). The red arrow indicates the amount of fuel left in the gas tank. "E" indicates Empty and "F" indicates Full. Add fuel when fuel level is low.

STEP 3 - GROUND THE GENERATOR



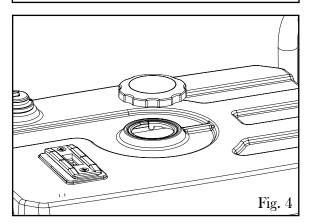
WARNING: Failure to properly ground the generator increases your risk of electric shock.

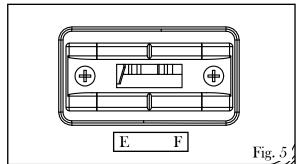
Ground the generator by tightening the grounding nut on the front control panel against a grounding wire (Fig. 6). A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire. This grounding wire should be connected at the other end to a copper, brass, or steel-grounding rod that is driven into the earth. Wire and grounding rods are not included with the generator.

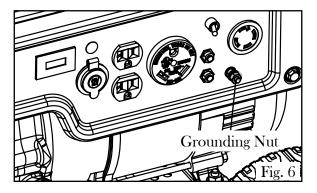
Grounding codes can vary by location. Contact a local electrician to check the area codes.

IMPORTANT:

- Use only UNLEADED gasoline.
- Never use an oil/gasoline mixture.
- Never use old gasoline.
- Avoid getting dirt or water into the fuel tank.
- Never store generator for extended periods of time with fuel in the tank.







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

STARTING THE GENERATOR



DANGER: CARBON MONOXIDE - USING A GENERATOR INDOORS CAN KILL YOU IN MINUTES.

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, crawl spaces, or other partially 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 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 smoke near the generator.



WARNING: 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.



WARNING: This generator produces heat when running. Temperatures near exhaust can exceed 1500 F (650 C). Do not touch hot surface.



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

HIGH ALTITUDE OPERATION ABOVE 5000 FEET

The fuel system on this generator may be affected by operation at high altitudes. This engine may require a high altituge carburetor kit to ensure proper operation at altitudes higher than 5000 feet (1500 meters) above sea level. At elevations above 7000 feet, the engine may experience a decrease in performance, even with the proper altitude kit.

The high altitude kit can be ordered from wenproducts.com by searching the model number 56500-HA. The kit should be installed by a qualified mechanic. The service center nearest you can be located at http://www.wenproducts.com/store/service-centers. Operating this generator without the high altitude kit may increase the engine's emissions and decrease both fuel economy and performance.

IMPORTANT: Be sure to UNINSTALL the high altitude kit when operating at altitudes below 5000 feet. Engines with the high-altitude kit installed operated at lower altitudes could cause severe engine damage and affect emissions compliance.



WARNING: To prevent serious injury from fire, follow the kit installation procedures in a well-ventilated area away from ignition sources. Shut off the engine off and wait for it to cool before proceeding. Warranty will be void if adjustments are not made for high altitude use.

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) 232-1195 M-F 8-5 CST for customer service.

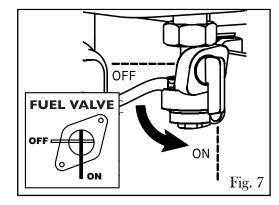
STARTING THE GENERATOR

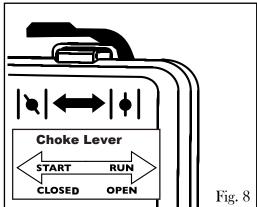
To start the generator, perform the following steps:

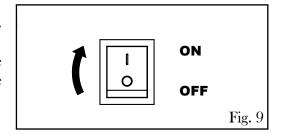
- 1. Place the generator outside on a dry, level surface. Allow at least two feet of clearance on all sides of the generator.
- 2. Check there is sufficient level of oil in the crankcase. Add oil if necessary (refer to "Add/Check Oil" on page 10).
- 3. Check there is sufficient level of gasoline in the fuel tank. Add fuel is necessary (refer to "Add/Check Gasoline" on page 11).
- 4. To maximize safety, make sure the generator is properly grounded (Refer to "Ground the Generator" on page 11).
- 5. Make sure all electrical devices are unplugged from the generator during ignition. Otherwise it will be difficult for the engine to start.
- 6. Turn the fuel valve to the ON position (Fig. 7).
- 7. Move the choke lever to the CLOSED position (Fig. 8).
- 8. Set the engine switch on the control panel to the ON position (Fig. 9).
- 9. Pull on the recoil starter handle (Fig. 10) 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.
- 10. If engine fails to start, repeat step 9.

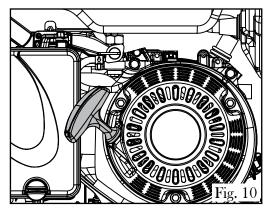
NOTE: After repeated failed attempts to start the engine, please consult the troubleshooting guide before attempting again. If problems persist please call (800) 232-1195 M-F 8-5 CST.

- 11. Once the engine has started, slowly return the choke lever all the way to the OPEN position (Fig. 8).
- 12. 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.









OIL LEVEL SHUTDOWN

The generator is equipped with a low oil pressure shutoff that will automatically stop the engine when the oil level is too low to protect the unit from damage. The oil level of the engine should be checked before each start to ensure that the engine crankcase contains sufficient lubricant.

USING THE GENERATOR

DETERMINING ELECTRICAL DEVICES

Rated (Running) Wattage: 4500W. The rated wattage is the wattage that the generator can produce on a continuous basis. The total running wattage requirement of the electrical devices connected to the generator should not exceed the rated wattage of the generator 4500W.

Surge Wattage: 5000W. 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 wattage of each electrical device should be listed 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 x Amperes. Use the chart below only as an estimated reference. However, do not solely rely on this chart - all electronics and appliances are built differently. These are not standard wattages across the board, only estimations. Always check the wattage listed on the electrical device before consulting this chart.

Tool or Appliance	Rated (Running) Watts	Surge (Starting) Watts
Electric water heater (40 Gal)	4000	0
Hot plate	2500	0
Saw - radial arm	2000	2000
Electric stove (each element)	1500-2800	0
Saw - circular	1500	1500
Air compressor (1 HP)	1500	3000
Window air conditioner	1200	1800
Saw - miter	1200	1200
Microwave	1000	0
Well water pump	1000	1000
Saw - reciprocating	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 / VCR	100	0
Common light bulb	75	0

Fig. 11 - Estimated wattage requirements of common electrical devices

USING THE GENERATOR

CALCULATING THE TOTAL WATTAGE

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 (4500W) 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 (4500W) 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).

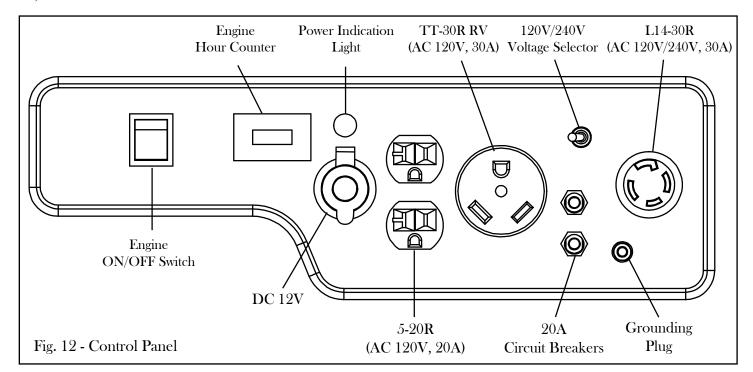
CONNECTING ELECTRICAL DEVICES

1. 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 control panel (Fig. 12) before connecting electrical devices. Do not connect 50Hz loads to the generator.

- 2. Make sure that all devices are turned off. Start plugging in each electric device, from the highest wattage to the lowest. Check the power indicator light to ensure the generator is producing power.
- 3. Do not overload the generator or individual panel receptacles. If an overload occurs, the power indicator light will turn off. Unplug all electrical devices and then press the circuit breaker to reset. Check the total wattage of the devices and reduce the load if it exceeds the capacity of the generator. Then plug the loads back in one by one.

NOTE: If the circuit breaker does not reset, wait several minutes and try again. If the power light still does not come on, call the customer service number for further instructions.



NOTE: Do not exceed 30A on the TT-30R receptacle and do not exceed 20A on the 5-20R receptacle.

USING 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 Fig. 13 for recommended cords based on the power requirement of the electrical device.

Device Re	quirements	Max. Cord Length (ft) by Wire Gauge				
Amps	Watts (120V)	#8 wire	#10 wire	#12 wire	#14 wire	#16 wire
2.5	300	NR	NR	NR	375	250
5	600	NR	NR	300	200	125
7.5	900	NR	350	200	125	100
10	1200	NR	250	150	100	50
15	1800	NR	150	100	65	NR

^{*}NR = Not Recommended

Fig. 13 - Maximum Extension Cord Lengths by Power Requirement

STOPPING THE GENERATOR

SHUTTING OFF THE GENERATOR

- 1. Turn off all electrical devices and then unplug the devices from the generator. Unplugging running devices can cause damage to the generator.
- 2. Turn the engine switch to the OFF position.
- 3. Turn the fuel valve to the OFF (horizontal) position.
- 4. Drain the carburetor (See "Draining the Carburetor" on Page 19).



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 (over 2 months) with fuel in the fuel tank. Refer to "Storing the Generator" on page 22.

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 Figure 14.

CAUTION: Never perform maintenance operations while the generator is running. Before maintaining or servicing the generator, turn OFF the generator, disconnect all devices and allow the generator to cool down.

If there are any questions about the maintenance procedures listed in this manual, please call (800) 232-1195 M-F 8-5 CST or email techsupport@wenproducts.com.

Recomm Maintenance		Each 8 hours or daily	Every 25 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every year	As necessary
Engine oil	Check level	X					
Engine on	Replace		X*	X*			X
Air filter	Check			X*	X		
All lines	Clean			X *			
Spark plug	Check/clean/ regap				X		
	Change					X	X
Fuel tank	Check level	X					
	Drain					X	
Carburetor	Drain	X					

Fig. 14 - Recommended Maintenance Schedule

IMPORTANT REMINDER FROM YOUR FRIENDS AT WEN:

- Drain your carburetor after every use (see page 19) to prevent it from clogging.
- Do not store the generator with fuel inside the tank for more than 2 months. The fuel will go bad.
- Run the generator for at least 15 minutes every month to maximize its lifespan. The generator needs your attention, love and care.

CLEANING THE GENERATOR

Keep the generator clean to prevent improper operation or machine damage from dirt and debris. Inspect all ventilation openings on the generator. These openings must be kept clean and unobstructed. If the generator becomes dirty, use a damp cloth to wipe exterior surfaces. Use a soft bristle brush to loosen dirt and oil and use a vacuum to pick up loose dirt. Use low pressure air (not to exceed 25 PSI) to blow away dirt.

CAUTION: 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 corrosion or a short circuit.

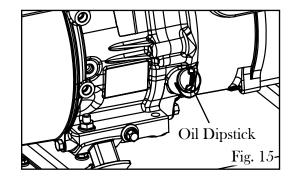
^{*} Clean/change more often under dusty conditions or operating under heavy load.



WARNING: Make sure the generator is shut off before performing any inspection or maintenance procedures.

CHECKING/ADDING THE OIL

Check the oil level of the generator according to the Recommended Maintenance Schedule in Fig. 14. The oil level should be checked before each use or every 8 hours of operation. The oil capacity of the generator engine is 33.8 fl. ounces. Add oil when the oil level is low. For proper type and weight of oil refer to "add oil" portion of the "Generator Preparation" section on page 10. The generator is equipped with an automatic shutoff to protect it from running on low oil. To check the oil level:



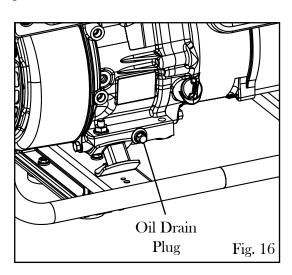
- 1. Make sure the generator is on a level surface. Do not tilt the generator to assist in filling as oil will flow into engine areas and cause damage. Keep generator level!
- 2. Remove the dipstick (Fig. 15) and wipe it with a clean rag.
- 3. Insert the dipstick into the oil fill opening without screwing in. Remove the dipstick to check the oil mark. Add oil if the oil mark covers less than one half of the dipstick.
- 4. Using a funnel or appropriate dispenser, slowly add more oil. Repeat step 2 until the oil mark reaches the top of the dipstick (and you can see oil coming up the threads of the oil fill). Do not over fill the crankcase.
- 5. Reinstall dipstick and wipe clean any spill oil with a rag.

DRAINING/CHANGING THE OIL

Change the oil according to the Recommended Maintenance Schedule in Fig. 14. Change the oil more often if operating under heavy load or high ambient temperatures. It is also necessary to drain the oil from the crankcase if it has become contaminated with water or dirt. Changing the oil when the engine is warm allows for complete drainage. Drain the oil from the generator according to the following steps.

- 1. Place generator on elevated platform such as table or desk. Prepare a container underneath the oil drain plug next to the oil dipstick to catch the oil as it drains.
- 2. Unscrew oil drain plug (Fig. 16) and allow the oil to drain from the engine completely.
- 3. Reinstall the oil drain plug and tighten it securely. Wipe clean any oil spillage.

NOTE: NEVER dispose of used motor oil in the trash or down a drain. Please call a local recycling center or auto garage to arrange proper oil disposal.



DRAINING THE CARBURETOR

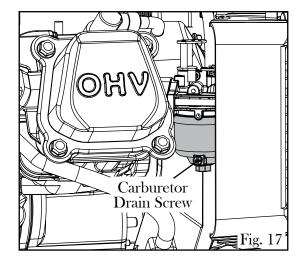
Draining the carburetor is recommended after every use to prevent the fuel from clogging up the carburetor. The carburetor can be accessed from the backside of the generator between the engine and the air filter (Fig. 17).

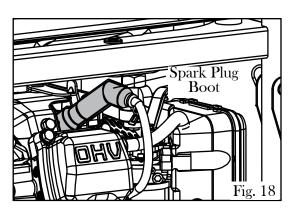
- 1. Turn the fuel valve to OFF position to prevent gasoline from draining from the fuel tank.
- 2. Open up the carburetor drain screw (Fig. 17) with a screwdriver and drain out any gasoline that has built up inside.
- 3. Once the fuel has drained, close the drain plug with the screw-driver. NOTE: Make sure to drain your carburetor before storing the generator for long periods of time.

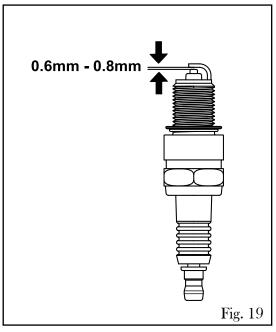


The spark plug is important for proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped. Refer to Recommended Maintenance Schedule in Figure 14 for maintaining the spark plug. To inspect the spark plug:

- 1. Clean and remove the spark plug boot (Fig. 18). Be careful not to tear any insulation or wire.
- 2. Use the spark plug wrench provided to unscrew and remove the spark plug from the engine.
- 3. Visually inspect the spark plug for cracks or excessive electrode wear. If the electrodes are worn, burned or porcelain is cracked, replace with a F6TC (NGK BP6ES) spark plug (Part No. 56500-138), available at wenproducts.com
- 4. 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.
- 5. Measure the plug gap with a wire gauge (Fig. 19). The gap should be 0.6 to 0.8 mm (0.024 to 0.031 in). Carefully adjust the gap if necessary.
- 6. Screw the spark plug back into the spark plug hole by hand. After the spark plug is properly seated, use the provided spark plug wrench to tighten it.







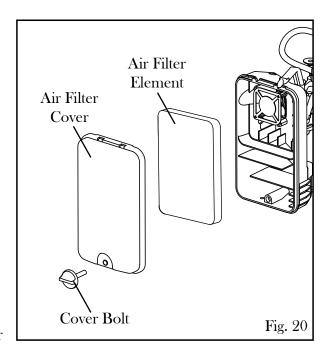
NOTE: The spark plug torque is 9 - 12 n.m (7 - 8 ft.lb). The recommended tightening of spark plug is ½ to ¾ of a turn after spark plug gasket contacts spark plug hole. DO NOT over-tighten the spark plug.

7. Reinstall the spark plug boot.

AIR FILTER MAINTENANCE

Routine maintenance of the air filter helps maintain proper airflow to the carburetor. Occasionally check that the air filter is free of excessive dirt. The air filter should be checked every 50 hours of use. Refer to Recommended Maintenance Schedule in Fig. 14.

- 1. Unscrew the cover bolt (Fig. 20) and remove the air filter cover. Remove the air filter element from the casing.
- 2. Check and clean the foam air filter element as described in step 3 below. Good elements can be washed, dried and reused. If the element is damaged, replace it with a new one.
- 3. Wash the air filter element in warm soapy water. Squeeze it thoroughly dry in a clean cloth. Saturate the element in clean engine oil and squeeze off excess oil in a clean abosrbent cloth. A small amount of oil in the element is normal and necessary for the engine to work properly.



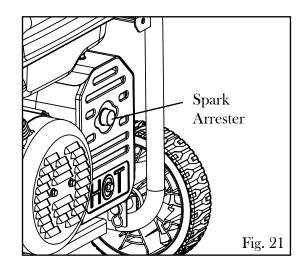
4. Reinstall the air filter element. Close the cover and secure it with the cover bolt.

CAUTION: Running the engine with dirty, damaged or missing air filter element result in possible danger and cause the engine to wear out prematurely.

SPARK ARRESTER MAINTENANCE

It is recommended to inspect and clean the spark arrester every 200 hours of operation.

- 1. The spark arrester is located outside the muffler, which gets very hot during operation. Allow the engine to cool completely before servicing the spark arrester.
- 2. Remove the two screws holding the cover plate that retains the end of the spark arrester to the muffler.
- 3. Remove the spark arrester screen.
- 4. Carefully clean and remove the carbon deposits from the spark arrester screen with a wire brush. Replace the spark arrester if it is damaged.
- 5. Reinstall the spark arrester in the muffler and secure it in place with the screws.



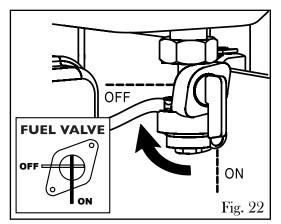
STORAGE & TRANSPORT

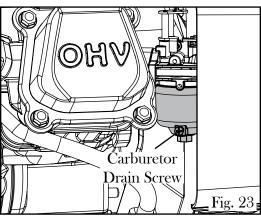
DRAINING THE FUEL TANK

Drain the fuel tank every year and before storing the generator for longer than one to two months. Refer to Recommended Maintenance Schedule in Figure 14. To drain the fuel tank:

- 1. Turn the fuel valve to the OFF position (Fig. 22).
- 2. Prepare a suitable container under the carburetor for catching the drained fuel.
- 3. Open up the carburetor drain screw (Fig. 23) with a screwdriver. Gasoline will start to drain from the carburetor.
- 4. Open the fuel valve by turning it to the ON position to let the fuel drain completely from the fuel tank.
- 5. Once the fuel has drained, shut off the fuel valve and close the carburetor drain screw with the screwdriver.
- 6. Store the emptied gasoline in a suitable place. DO NOT store flammable materials near the gasoline.

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





STORAGE & TRANSPORT

STORING THE GENERATOR

Shut off the generator and allow the unit to cool to room temperature before storage. Never place any type of storage cover on the generator while it is still hot. Do not obstruct any ventilation openings. Store the generator and fuel in a cool and dry location, away from sources of heat, open flames, sparks or pilot lights. Follow the procedures below for properly storing your generator.

For Short Periods (30 to 60 Days):

- Drain the carburetor (see page 19).
- Gasoline stored over 30 days can go bad and damage fuel system components. Add fuel stabilizer, following the suggested portions and instructions of your preferred stabilizer. Run the engine for 2 to 3 minutes, allowing the fuel stabilizer to mix with the gasoline and circulate through the carburetor, and then top off with fuel. NOTE: Filling the fuel tank full reduces the amount of air in the tank and helps fight deterioration of fuel.

For Extended Periods (Over 60 Days):

- Drain the carburetor (see page 19).
- Drain the fuel tank (see Draining the Fuel Tank on page 21). NEVER store with fuel in the tank for more than two months.
- Change engine oil (see Draining the Oil on page 18).

IMPORTANT: Run the generator ONCE A MONTH for 15 minutes. This is necessary for prolonging the lifetime of your generator and ensure that the generator can function properly for your next operation. Afterwards, shut off and drain the carburetor. Store the generator with a dry carburetor.

TRANSPORTING THE GENERATOR

- Tighten the fuel cap and turn the fuel valve to OFF position.
- Drain the fuel tank if possible (see Draining the Fuel Tank).
- Keep the generator upright. Never place the generator on its side or upside down. Doing so will make it difficult to start.

PRODUCT DISPOSAL

Used generators should not be disposed of together with household waste. This product contains electrical or electronic components that should be recycled. Please take this product to your local recycling facility for responsible disposal and to minimize its environmental impact.

DO NOT dispose of used oil or fuel in the trash or down a drain. Please contact your local recycling center or auto garage to arrange proper oil disposal.

SPECIFICATIONS

Rated Wattage	4500 Watts
Surge Wattage	5000 Watts
Phase	Single
Frequency	60Hz
Rated Voltage	AC: 120V/240V, DC: 12V
Rated Amperage	AC: 40A/20A, DC: 9A
	Length: 26.2 in.
Dimensions	Width: 17.7 in.
	Height: 18.7 in.
Weight	121 lbs

ENGINE

Engine Type	4 stroke, OHV, single cylinder with forced air cooling system
Engine Displacement	272cc
Engine Speed	3600 RPM
Fuel Tank Capacity	3.4 gallons (87 octane minimum)
Oil Capacity	33.8 fl.oz.
Lubrication System	Splash lubrication
Half-Load Run Time	7.5 hours
Noise Rating	68 d B at 22 feet
Spark Plug Type	F6TC/ NGK BP6ES
Spark Plug Gap	0.6 - 0.8 mm (0.024 - 0.031 in)
Spark Plug Torque	9 - 12 n.m (7 - 8 ft.lb)
Intake Valve Gap	0.1 - 0.15mm (SAE 0.00394 - 0.00591)
Exhaust Valve Gap	0.15 - 0.20 mm (SAE 0.00591 - 0.00787)

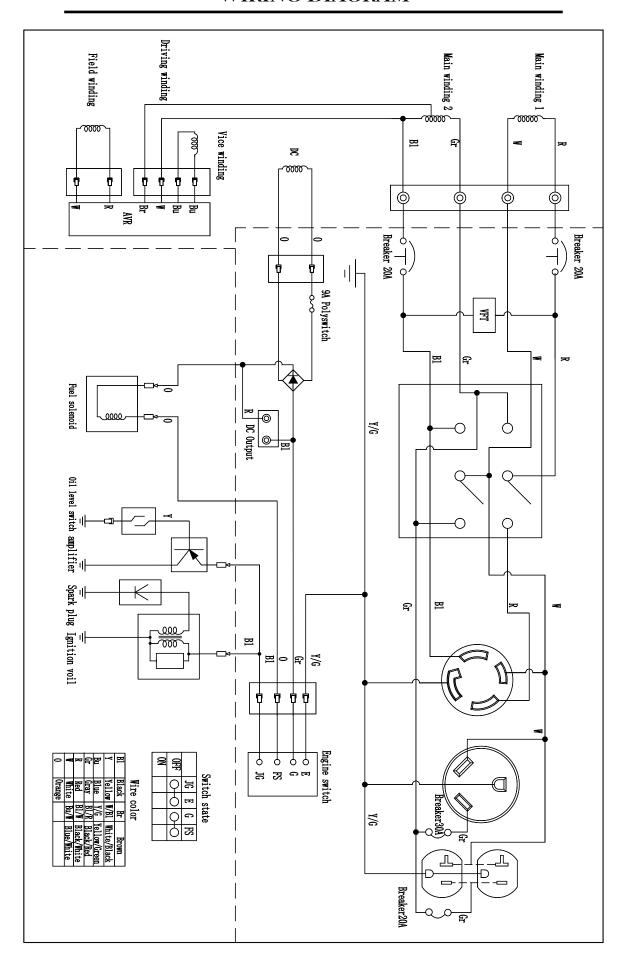
TROUBLESHOOTING



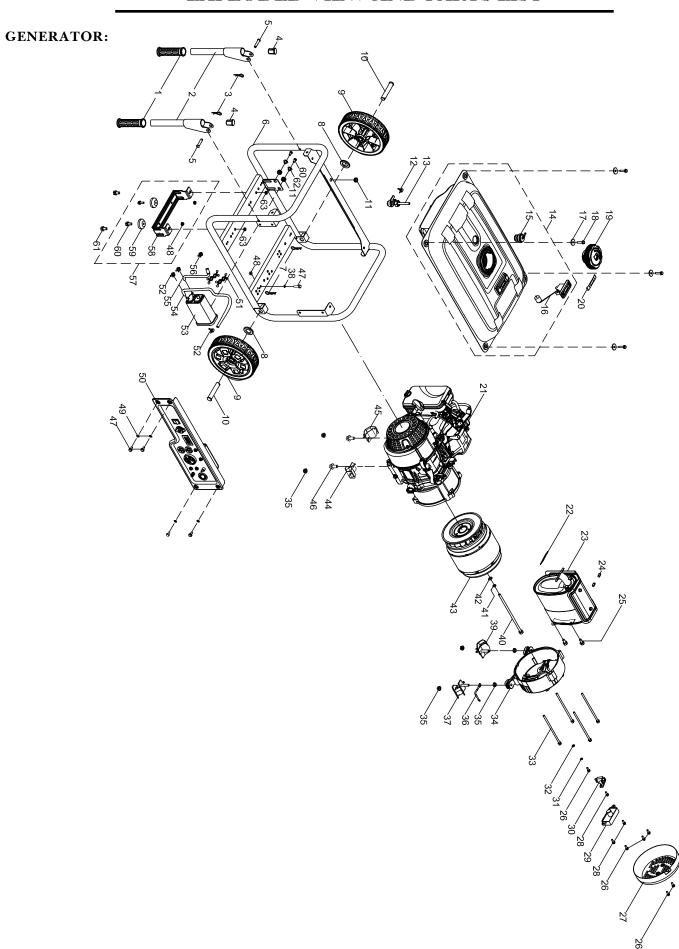
WARNING: Stop using the generator immediately if any of the following problems occur or risk serious personal injury. If you have any questions, please contact our customer service at (800) 232-1195, M-F 8-5 CST or email us at techsupport@wenproducts.com.

PROBLEM	POSSIBLE CAUSE	SOLUTION
	Engine switch is set to OFF.	Set engine switch to ON.
	Fuel valve is turned to OFF.	Turn fuel valve to ON.
	Choke is open.	Close the choke.
	Engine is out of fuel.	Add fuel (see page 11).
	Engine is filled with con-	Drain the fuel in the tank (see page 21). Fill with fresh fuel
	taminated or old fuel.	(see page 11).
Engine will not start.	Spark plug is dirty.	Clean the spark plug (see page 19).
	Spark plug is broken.	Replace spark plug (see page 19).
	Oil level is low.	Add or replace oil (see page 18). This generator is equipped with a low oil sensor. The engine will not start unless the oil level is sufficient.
	Carburetor is air locked.	Shut off the fuel valve. Remove the nut from the bottom of the carburetor. Take off the carburetor to allow it to reset. Place the carburetor back and reinstall the nut.
Engine runs but there is no electrical output.	Circuit breaker has been	Disconnect all the loads. Wait for two minutes and push
	tripped due to overload.	the circuit breaker to the ON position to reset it.
	Bad connecting cords/wires.	Check the power cords and extension cords. Do not use if any cord is damaged. Replace damaged cords immediately.
o aip ai	Bad electrical device connected to the generator.	Try connecting a different device.
Generator runs but does not support all electrical devices connected.	Generator is overloaded.	Perform these steps: 1. Turn off all electrical devices. 2. Unplug all electrical devices. 3. Turn off generator. 4. Wait several minutes. 5. Restart generator. 6. Try connecting few electrical loads to the generator.
	Short circuit in one of the devices.	Try disconnecting any faulty or short-circuited electrical loads.
	The air filter is dirty.	Clean or replace the air filter element (see page 20).
Engine is "Hunting" during Operation (Engine RPM is fluctuating).	1. The fuel isn't running through the fuel valve. 2. The air filter is clogged. 3. The Muffler or spark arrester is blocked 4. There is gunk in the carburetor preventing the fuel/air to be consistent.	Turn off the generator and wait for it to cool down. Perform the following steps: 1. Check if the fuel is properly and consistently going through the fuel valve 2. Check for any blockage in the air filter. Check and clean the air filter as necessary (see page 20). 3. Check if the spark arrester is blocked. Clean with metal brush as necessary (see page 20). 4. Use "Gunk remover" spray on the carburator jets.

WIRING DIAGRAM



EXPLODED VIEW AND PARTS LIST

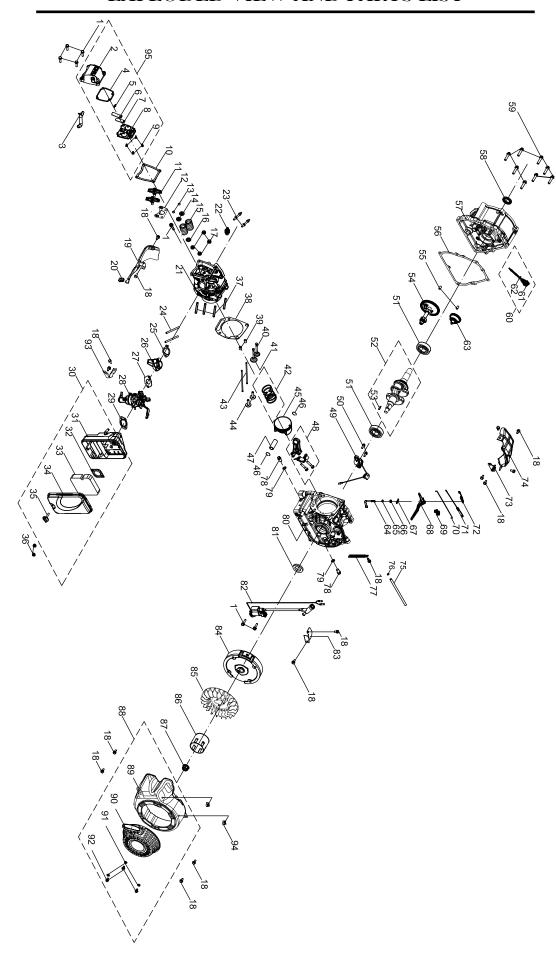


EXPLODED VIEW AND PARTS LIST

No.	Part No.	Description	Qty.
1		Handle Jacket	2
2	56500-001	Push Handle	2
4		Handle Plug	2
3	56500-004	Cotter Pin (Handle)	2
5	56500-005	Handle Axle, φ10×40	2
6	56500-006	Frame Assembly	1
7	56500-007	Cotter Pin (Wheel)	2
8	56500-008	Washer, φ17.5xφ30x3	2
9	56500-008	Wheel	2
10	56500-009	Wheel Axle, φ16×85	2
11	56500-010	Damping Pad	3
12	56500-011	Clamp	1
13	56500-012	Fuel Switch	1
14	56500-013	Fuel Tank	1
15	56500-014	Pressure Relief Valve	1
16	56500-015	Fuel Gauge	1
17	56500-016	Washer, φ6.5×2×φ25	4
18	56500-017	Bolt, M6×25	4
19	56500-018	Fuel Cap	1
20	56500-019	Fuel Gauge Label	1
21	56500-020	Engine	1
22	56500-023	Muffler Gasket	1
23	56500-024	Muffler	1
23	56500-024.1	Spark Arrester	1
24	56500-025	Nut, M8	2
25	56500-026	Bolt, M8×16	2
26	56500-027	Bolt, M5×14	5
27	56500-028	End Cover	1
28	56500-029	Bolt, M5×18	3
29	56500-030	Voltage Regulator	1
30	56500-031	Carbon Brush Set	1
31	56500-032	Washer A, φ6	1
32	56500-033	Washer B, φ5	1
33	56500-034	Bolt, M6×150	4
34	56500-035	Rear Bracket	1
35	56500-036	Nut, M8	8

No.	Part No.	Description	Qty.
36	56500-037	Reinforcement Support	1
37	56500-038	Damping Bracket (Right Rear)	2
38	56500-1038	Washer B, φ6	1
39	56500-039	Damping Bracket (Left Rear)	2
40	56500-040	Bolt, M10-1.25x225	1
41	56500-041	Washer A, φ10	1
42	56500-042	Washer B, φ10	1
43	56500-043	Alternator	1
44	56500-1044	Damping Bracket (Right Front)	1
45	56500-1045	Damping Bracket (Left Front)	1
46	56500-1046	Flange Bolt M8x16	2
47	56500-1047	Bolt M6x12	5
48	56500-044	Nut, M6	2
49	56500-045	Washer, M6	2
50	56500-046	Control Panel Assembly	1
51	56500-047	Clamp A	2
52	56500-052	Clamp A, Carbon Tank	3
53	56500-049	Carbon Tank	1
54	56500-050	Tube A, Carbon Tank	1
55	56500-051	Tube B, Carbon Tank	1
56	56500-053	Clamp B, Carbon Tank	2
57	56500-057	Support Base Assembly	1
58	56500-058	Support Base	1
59	56500-059	Damping Pad, Support Base	2
60	56500-054	Bolt, M6x18	2
61	56500-060	Bolt, M8x16	2
62	56500-055	Bushing	2
63	56500-056	Flanged Lock Nut, M8	2

ENGINE:



EXPLODED VIEW AND PARTS LIST

No.	Part No.	Description	Qty.
1	56500-017	Bolt, M6×25	7
2	56500-102	Valve Cover	1
3	56500-103	Breather Hose	1
4	56500-104	Gasket, Valve Cover	1
5	56500-105	Rivet, M3×8	2
6	56500-106	Breather Plate	1
7	56500-107	Breather Valve	1
8	56500-108	Inner Cover, Valve Cover	1
9	56500-109	Screw, M5×12	4
10	56500-110	Gasket, Valve Cover	1
11	56500-111	Rocker Arm Assembly	2
12	56500-112	Rocker Arm Base	1
13	56500-113	Valve Locker	4
14	56500-114	Valve Spring Seat	2
15	56500-115	Valve Spring	2
16	56500-116	Intake Valve Seal	1
N.P.	56500-116.1	Exhaust Valve Seal	1
17	56500-117	Nut, M8	4
18	56500-022	Bolt, M6×12	13
19	56500-119	Shroud	1
20	56500-1120	Shroud Mounting Clasp	1
21	56500-122	Cylinder Head	1
22	56500-123	Spark Plug F6TC (NGK BP6ES)	1
23	56500-124	Stud	1
24	56500-125	Stud, M6×90	2
25	56500-126	Gasket, Carburetor Insulator	1
26	56500-127	Insulator	1
27	56500-128	Gasket, Carburetor	1
28	56500-129	Carburetor	1
29	56500-130	Gasket Carburetor	1
30	56500-131	Air Filter Assembly	1
31	56500-132	Air Filter Base Assembly	1
32	56500-133	Air Filter Baffle	1
33	56500-134	Air Filter Element	1
34	56500-135	Air Filter Cover	1
35	56500-136	Bolt	1
36	56500-137	Nut, M6	2
37	56500-138	Stud, M8×60	4
38	56500-139	Gasket, Cylinder Head	1
39	56500-140	Pin,\phi10×14	2
40	56500-141	Intake Valve	2
41	56500-142	Exhaust Valve	1
42	56500-143	Piston Ring Set	1
43	56500-144	Push Rod	2
44	56500-145	Tappet	1
45	56500-146	Piston	1
46	56500-147	Circlip	2
47	56500-148	Piston Pin	1
48	56500-149	Connecting Rod Assembly	1

No.	Part No.	Description	
49	56500-150	Oil Sensor	Qty.
50	56500-151	Bolt, M6×18	2
51	56500-1151	Crankshaft Bearing	2
52	56500-152	Crankshaft Assembly	1
53	56500-153	Woodruff Key	1
54	56500-155	Camshaft	1
55	56500-156	Pin,φ8×14	2
56	56500-157	Gasket, Crankcase	1
57	56500-158	Crankcase Cover	1
58	56500-159	Oil Seal, φ25×φ41.25×6	1
59	56500-160	Bolt, M8x35	1
60	56500-161	Dipstick Assembly	1
61	56500-163	Dipstick	1
62	56500-162	O-Ring, \$\phi15.8\times2.5\$	1
63	56500-164	Governor Gear	1
64	56500-165	Governor Gear Shaft	1
65	56500-166	O-Ring, \$\phi 5.2x1.9	1
66	56500-167	Oil Seal, φ6xφ11x4	1
67	56500-168	Cotter Pin	1
68	56500-169	Governor Lever	1
69	56500-170	Choke Linkage Lock Clamp	1
70	56500-171	Throttle Linkage	1
71	56500-172	Idle Spring	1
72	56500-173	Governor Spring	1
73	56500-174	Throttle Adjust Bracket Assembly	1
74	56500-175	Governor Gear Bracket Assembly	1
75	56500-176	Fuel Hose, φ4×φ10×126	1
76	56500-177	Clamp, Fuel Hose	1
77	56500-178	Clip	1
78	56500-179	Drainage Bolt	1
79	56500-180	Washer, φ10xφ16x1.5	1
80	56500-181	Crankcase	1
81	56500-182	Oil Seal, φ27×φ47×7	
82	56500-183	Ignition Module	
83	56500-184	Wire Board	
84	56500-185	Flywheel	1
85	56500-186	Cooling Fan	1
86	56500-187	Starter Cup	1
87	56500-188	Nut, M14×1.5	1
88	56500-189	Recoil Starter Assembly	1
89	56500-190	Blower Housing	1
90	56500-191	Recoil Starter	1
91	56500-192	Washer, φ6	3
92	56500-193	Bolt, M6×10	3
93	56500-1193	Air Filter Bracket	1
94	56500-1194	Clip	1
95	56500-	Valve Cover Assembly	1
	1195ASM	varve Gover Assembly	1

WARRANTY STATEMENT

Remember to save the receipt and to accurately fill out and mail the product registration card. Proof of purchase is required for all warranty work.

WEN® Generators are under warranty to be free from defects in materials and workmanship for a period of two (2) years from date of original purchase. Generators used for Commercial or Rental use have a warranty period of 90 days from date of original purchase. Keep purchase receipt and mail in the product registration card for proof of purchase.

WEN® will repair or replace, at its discretion, any part that is proven to be defective in materials or workmanship under normal use during the two (2) years warranty period. Warranty repairs or replacements will be made without charge for parts or labor. Parts replaced during warranty repairs will be considered as part of the original product and will have the same warranty period as the original product.

To exercise the warranty, DO NOT RETURN TO RETAILER. Instead, call the toll free Customer Service number at (800) 232-1195 and you will be instructed on where to take the generator for warranty service. Take the generator and proof of purchase (the receipt) to the repair facility recommended by the Customer Service Representative. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of purchase must be a direct vendor of Great Lakes Technologies, LLC. Third party vendors such as garage sales, pawn shops, resale shops, or any other secondhand merchant void the warranty included with this product. Contact techsupport@wenproducts.com or 1-800-232-1195 to make arrangements for repairs and transportation.

When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the warranty card and/or the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME INCLUDING BELTS, BRUSHES, BLADES, ETC.

The warranty does not extend to generators damaged or affected by fuel contamination, accidents, neglect, misuse, unauthorized alterations, use in an application for which the product was not designed and any other modifications or abuse. Labor for warranty parts is only covered for the contiguous United States (48 states).

WEN® is not liable for any indirect, incidental or consequential damages from the sale or use of this product. Any implied warranties are limited to two (2) years as stated in this written limited warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages. Some states do not allow limitation on the length of an implied warranty. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

