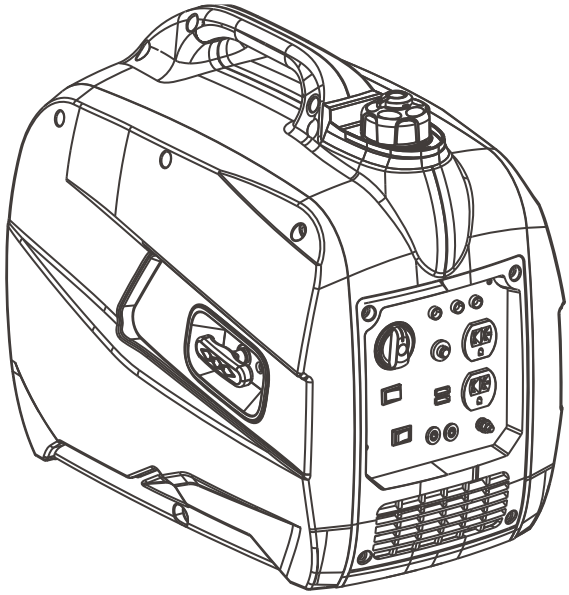
MODEL 56225i

2250 WATT INVERTER GENERATOR

bit.ly/wenvideo



For replacement parts visit
WENPRODUCTS.COM

EPA CERTIFIED
CARB COMPLIANT

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)**

techsupport@wenproducts.com

WENPRODUCTS.COM

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

TABLE OF CONTENTS

KEY SPECIFICATIONS

Wattage	1800 Rated Watts, 2250 Surge Watts
Frequency	60Hz
Rated Voltage	AC: 120V, DC: 5V
Rated Amperage	AC: 15A, DC: 1A (Top), 2.1A (Bottom)
Engine	OHV, 4 stroke, single cylinder, 79.7cc
Fuel Tank Capacity	1 US gallon (3.8 L), 87 octane minimum
Oil Capacity	11.8 fl. oz. (0.35 L)
Half-Load Run Time	6 hours
Dimensions	19 x 11.5 x 18.2 in. (L x W x H)
Weight	48.5 lbs

Your WEN 56225i generator is compatible with the WEN 56421 Parallel Connection Kit and the WEN 55201 Magnetic Oil Dipstick, availble at **wenproducts.com**

INTRODUCTION

THANKS FOR PURCHASING THE WEN GENERATOR.

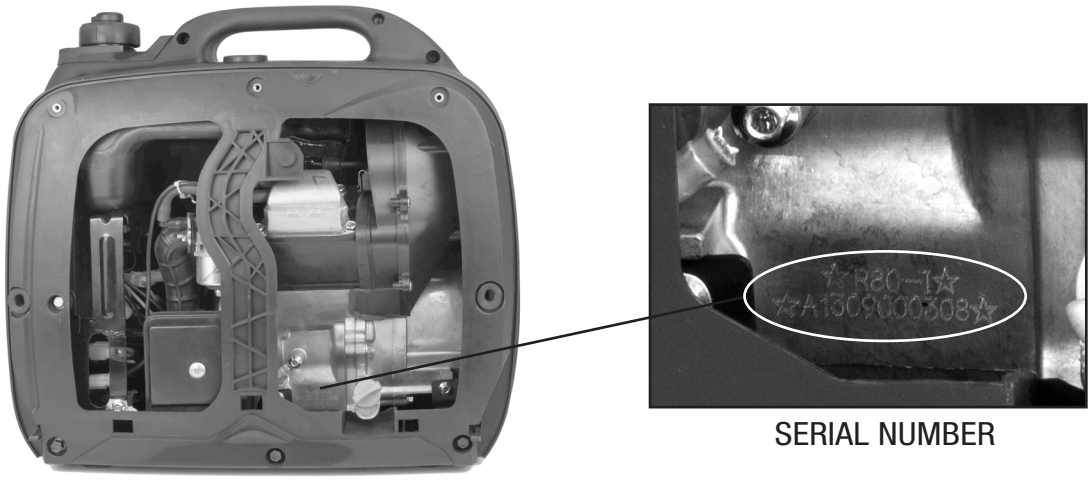
Refer to the illustration below for the location of the serial number. Record the generator information in the spaces provided below. If assistance for information or service is required, please contact the Customer Service Help Line by calling 800-232-1195, M-F 8-5 CST; you will be asked to provide the following generator information when calling.

GENERATOR MODEL NUMBER: WEN 56225i

DATE OF PURCHASE: _____

PURCHASED FROM: _____

SERIAL NUMBER: _____



SERIAL NUMBER

SERVICE RECORD

Record the service dates of your generator in the chart below. Please perform maintenance checks and operations according to the “MAINTENANCE” section of the manual.

Service Record	Date	Date	Date	Date	Date	Date
Change Oil						
Change Spark Plug						
Clean Fuel Tank						
Clean Air Cleaner						
Clean Spark Arrestor						

TO MAXIMIZE THE LIFESPAN OF YOUR GENERATOR:
We recommend running your generator at least ONCE A MONTH for 15 to 30 minutes. Start the generator according to the instructions and plug a small load in to make sure the outlet is producing electricity.

SAFETY INFORMATION

⚠ **WARNING:** Before operating the generator, make sure to read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire or serious injury.

SAFETY INTRODUCTION

Safety is a combination of common sense, staying alert, and knowing how your tool works. This manual contains important information regarding the generator's potential safety concerns, as well as preparation, operation, and maintenance instructions. Before operating this generator, be sure to read and observe all warnings and instructions both on the generator labels and in this instruction manual. Failure to follow all instructions listed below may result in personal injury.

NOTE: 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.

SAVE THESE INSTRUCTIONS - 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.

SAFETY SYMBOLS

The purpose of following safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

⚠ **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.

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).

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.

GENERATOR SAFETY WARNINGS

⚠ 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**: **RISK OF EXPLOSION. HIGHLY FLAMMABLE**: 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.
- Empty fuel tank before storing or transporting the generator.
- Before transporting, turn fuel valve to OFF and disconnect spark plug wire.

⚠ **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 all applicable laws and electrical codes and 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.

⚠ **California Proposition 65 WARNING:** This product contains chemicals and produces exhaust known to the State of California to cause cancer, birth defects and other reproductive harm.

GENERATOR SAFETY WARNINGS

⚠ **WARNING:** Do not let comfort or familiarity with the product replace strict adherence to product safety rules. Failure to follow the safety instructions may result in serious personal injury.

OPERATING ENVIRONMENT

1. Using a generator indoors can kill you in minutes. Only use a generator outside and far away from windows, doors and vents.

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. A nearby open flame can lead to explosion even if it isn't directly in contact with gasoline.

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 to maximize safety (see "GROUND THE GENERATOR" section on page 13).

2. Do not overfill fuel tank, as gasoline may expand during operation. Do not fill to the very top of the tank. Leave room for gasoline expansion. Always check for spilled fuel before operating.

3. If any part of the generator or electrical device is broken, damaged, or defective, make sure it is repaired or replaced before operation. Service should only be performed by a qualified technician. Do not use receptacles or cords that show signs of damage, such as broken or cracked insulation.

4. Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. Extension cords with in-line GFCIs are recommended for these operations to maximize safety.

5. NEVER connect the generator to a building's electrical system without consulting a qualified electrician. Such connections must comply with local electrical laws and codes. Failure to comply can create a backfeed, which may result in serious injury or death to utility workers.

GENERATOR SAFETY WARNINGS

GENERATOR OPERATION

1. Only use the generator for its intended purposes. Modifying or using the generator for operations for which it was not designed may cause hazards and personal injury.

2. Do not touch bare wires or receptacles (outlets).

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

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

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

6. 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.

7. Do not touch HOT PARTS. This generator produces heat when running. Temperatures near exhaust can exceed 150º F (65º C). Allow generator to cool down after use before touching engine or areas of the generator that become hot during use.

8. Turn off all connected electrical devices before stopping the generator.

9. 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.

10. Turn the engine switch to “OFF” position when the engine is not running.

11. Empty fuel tank before storing or transporting the generator. Do not store generator or gasoline near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions. Store the generator and fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

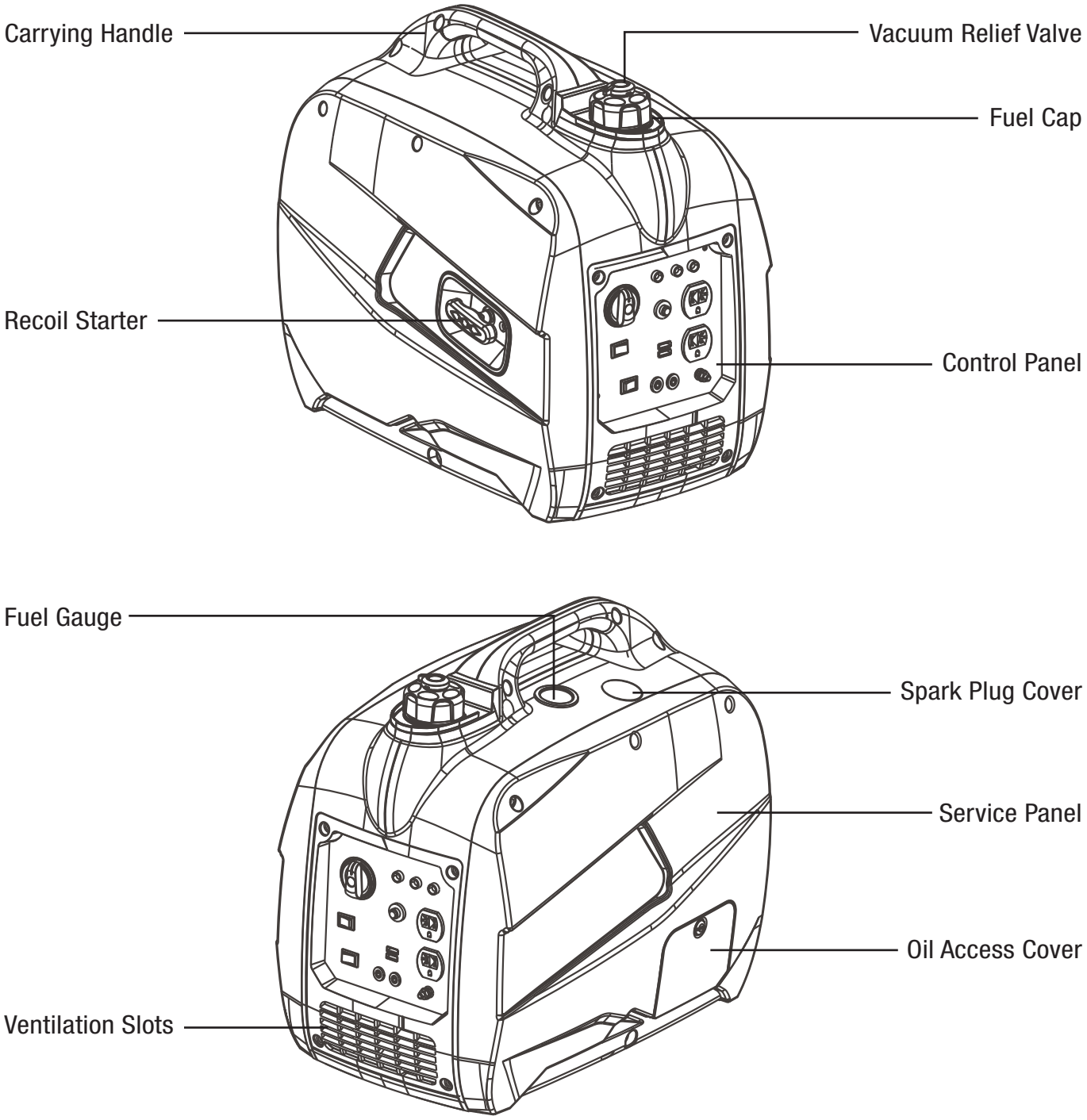
CAUTION: Misuse of this generator can damage it or shorten its lifespan.

TO MAXIMIZE THE LIFESPAN OF YOUR GENERATOR:
We recommend running your generator at least once a month for 15 to 30 minutes. Start the generator according to the instructions and plug a small load in to make sure the outlet is producing electricity.
If you do not run it often, it will greatly shorten the generator’s lifespan and void the warranty.

KNOW YOUR GENERATOR

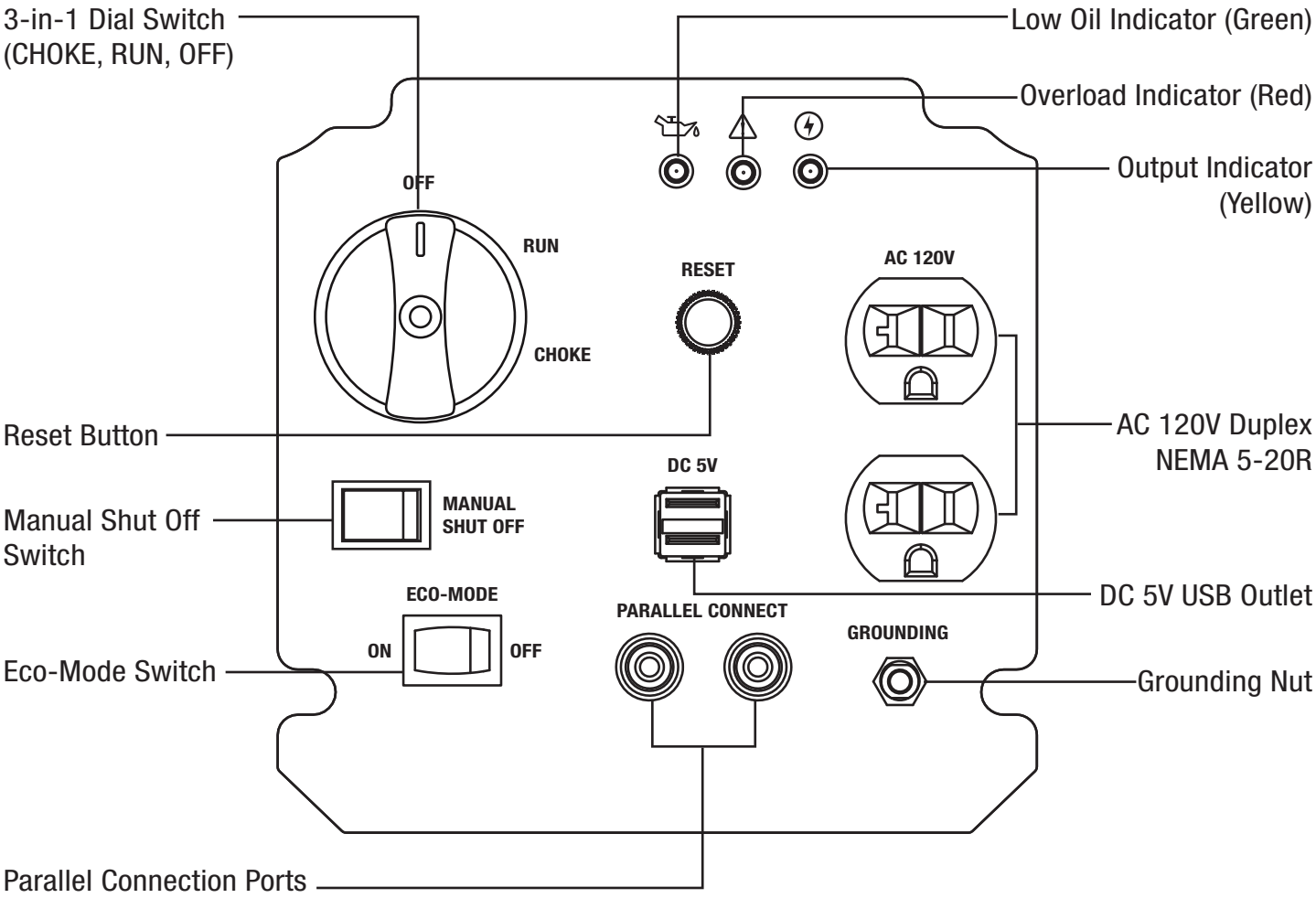
Place the generator packaging on a sturdy, flat surface. Carefully unpack the generator and all accessories from the box, making sure it is completely empty before discarding the package.

Use the illustration below to become familiar with all the components and controls 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 us at techsupport@wenproducts.com.



KNOW YOUR GENERATOR

CONTROL PANEL



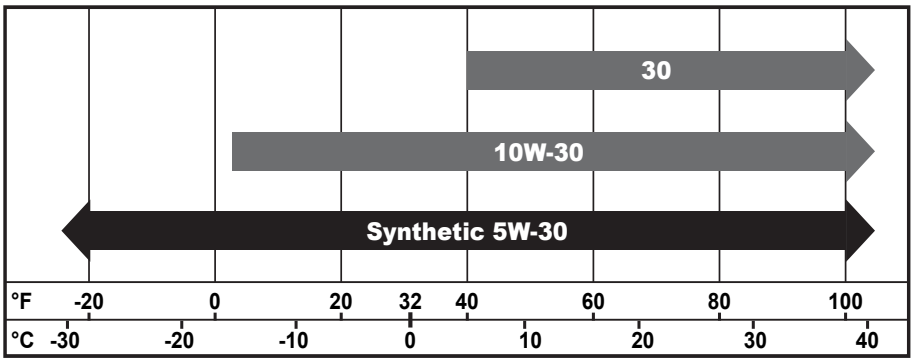
GENERATOR PREPARATION

The following section describes the necessary steps to prepare the generator for use. If you are unsure about how to perform any of the steps 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. User must add the proper amount of oil before operating the generator for the first time. The oil capacity of the engine crankcase is **11.8 fl. oz** (0.35 L).

ENGINE OIL RECOMMENDATIONS - 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 that matches the expected operating temperature. For general use (above 40° F), we recommend 30W engine oil.



- 30W 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 - Oil Recommendation Chart

To add oil, follow these steps:

1. Place the generator on a level surface. Make sure the engine is OFF before adding or checking oil.

CAUTION: Keep the generator level! Tilting the generator to assist in filling will cause oil to flow into the engine areas and will cause damage.

2. Using a coin, turn the oil access cover screw 1/4 turn clockwise, then remove the access cover from the service panel. Then, unscrew the oil dipstick from the engine.

3. Using an oil funnel or appropriate dispenser, slowly add oil into the oil fill (Fig. 2), being careful not to overfill the unit. 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).

4. Reinstall the oil dipstick and firmly tighten it. Wipe clean any spilled oil.

5. Reinstall the oil access cover. Using a coin, turn the screw 1/4 turn counterclockwise to secure it in place.

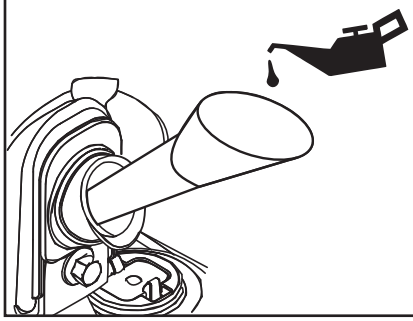


Fig. 2

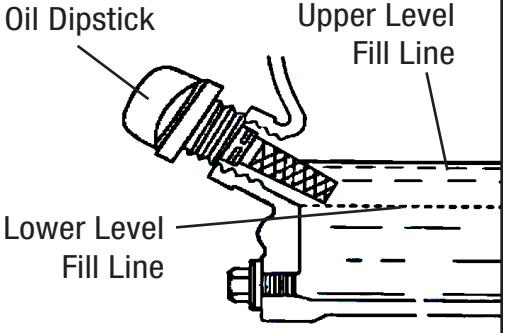


Fig. 3

GENERATOR PREPARATION

For subsequent operation, the oil level should be checked before each use, or after every 8 hours of operation. The generator is equipped with a low-oil sensor and will NOT start without a sufficient amount of oil.

To check oil level (before every subsequent start):

1. Place the generator on a level surface. Make sure the engine is OFF before adding or checking oil.

2. Open the oil access cover. Remove and wipe the dipstick with a clean rag.

3. Insert the dipstick into the oil fill without screwing it in. Remove the dipstick to check the oil mark (Fig. 4).

If the oil mark covers less than one half of the dipstick, slowly add oil until the oil mark reaches to the top of the dipstick (or when you can see the oil coming halfway up the oil fill threads).

4. Wipe clean any oil leaks and firmly tighten the dipstick. Reinstall the oil access cover.

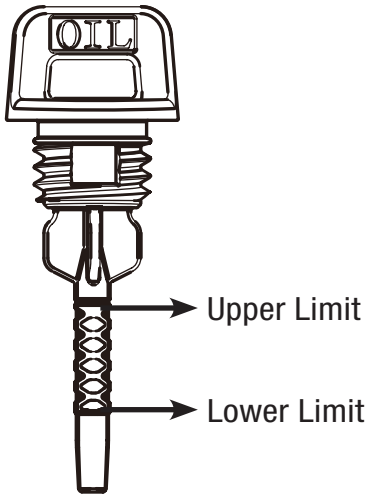


Fig. 4

OIL LEVEL SHUTDOWN

To protect the unit from damage, the generator is equipped with a low-oil-pressure shutoff that will automatically stop the engine when the oil level is too low. The low oil indication light (yellow) will turn on to remind you that the engine oil level is low and need to be refilled.

The oil level of the engine should be checked before each start to ensure that the engine crankcase contains sufficient lubricant.

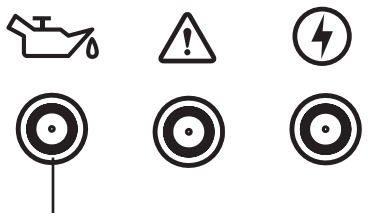


Fig. 5

TIP: Your WEN generator is compatible with the **WEN 55201** Magnetic Oil Dipstick (not included), available for purchase at **wenproducts.com**. The dipstick's industrial-strength magnetic tip will collect metal shavings from your generator's oil tank to help preserve the engine and extend your generator's lifespan.

GENERATOR PREPARATION

STEP 2 - ADD/CHECK FUEL

⚠ **GASOLINE 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.

- Do not operate near open flame.
- Do not smoke near the 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. Fuel 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 to prevent spilling.

Use ONLY fresh (within 30 days from purchase), lead-free gasoline with a **minimum of 87 octane rating.** The generator performs best with ethanol-free gasoline. DO NOT use gasoline with over 10% ethanol. The capacity of the fuel tank is **1 gallon**. DO NOT mix oil with gasoline.

To add gasoline, follow these steps:

1. Make sure the generator is shut OFF and on a level surface. Unscrew the fuel cap (Fig. 6) and set it aside. The fuel cap may be tight and hard to unscrew.

2. Slowly add unleaded gasoline to the fuel tank. Be careful not to overfill.

NOTE: Do not fill the fuel tank to the very top. If you do so, gasoline will expand and spill during use, even with the fuel cap in place.

4. Reinstall fuel cap and wipe clean any spilled gasoline with a dry cloth.

To check fuel level (before every subsequent start):

Before starting the generator, check the fuel gauge to see if there is sufficient fuel inside the tank. “E” indicates Empty and “F” indicates Full. Refill the fuel tank as necessary.

IMPORTANT:

- Never use an oil/gasoline mixture.
- Never use old gasoline.
- Keep gasoline away from sparks, open flames, pilot lights, heat and other sources of ignition.
- Avoid getting dirt or water into the fuel tank.
- Gasoline can age in the tank and make starting difficult. Never store generator for more than 2 months with fuel in the tank.

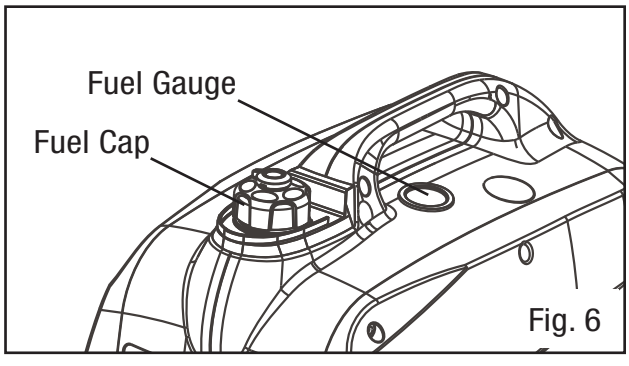


Fig. 6

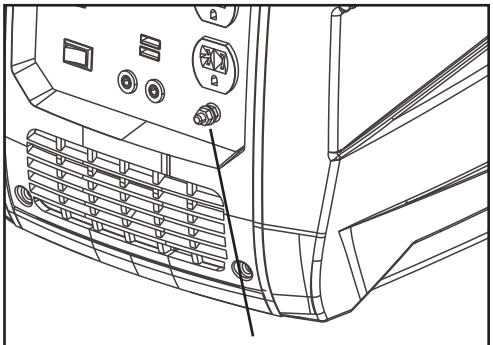
GENERATOR PREPARATION

STEP 3 - GROUND THE GENERATOR

To reduce the risk of electric shock and to maximize safety, the generator should be properly grounded.

Ground the generator by tightening the grounding nut on the front control panel (Fig. 7) 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 with the generator.



Grounding Nut

Fig. 7

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

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

HIGH ALTITUDE OPERATION ABOVE 3000 FEET

The fuel system on this generator may be affected by operation at high altitudes. Proper operation can be ensured by installing an altitude kit at altitudes higher than 3000 feet above sea level. At elevations above 8000 feet, the engine may experience a decrease in performance, even with the proper altitude kit. Operating this generator without said kit may increase the engine's emissions and decrease both fuel economy and performance.

This kit should be installed by a qualified mechanic. You can order the kit at **wenproducts.com** by searching part **56200i-HA36** for 3000 to 6000 feet above sea level or **56200i-HA68** for 6000 to 8000 feet above sea level. Refer to the instructions included with your altitude kit for more information about installation.

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

CAUTION: Engines with the high-altitude kit installed operated at lower altitudes could cause severe engine damage and affect emissions compliance. Be sure to UNINSTALL the high altitude kit when operating at altitudes below 2000 feet.

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.** 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:** DO NOT operate generator 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. 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:** This generator produces powerful voltage, which can result in electrocution.

⚠ **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:** Generator should ONLY be connected to electrical devices, either directly or with an extension cord. NEVER CONNECT TO A BUILDING ELECTRICAL SYSTEM without a qualified electrician and connected to a transfer switch as a separately derived system. 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.

To maximize safety, ALWAYS ground the generator before using it (see the "GROUND THE GENERATOR" section on page 13).

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.

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

STARTING YOUR 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.

Before starting the generator, check the following:

1. Place the generator outside on a dry, level surface. Allow at least two feet of clearance on all sides of the generator.

2. Make sure all electrical devices are unplugged from the generator during ignition. Otherwise it will be difficult for the engine to start.

3. To maximize safety, check that the generator is properly grounded (see “GROUND THE GENERATOR” section).

4. Check there is sufficient level of oil in the crankcase. Add oil if necessary (refer to “ADD/CHECK OIL” section).

5. Make sure there is sufficient level of gasoline in the fuel tank. Add fuel if necessary (refer to “ADD/CHECK FUEL” section).

To start the generator, perform the following steps:

1. Turn the ECO-MODE (Fig. 8 - 1) switch to “OFF” during starting.

2. Open the vacuum relief valve (Fig. 9) on top of fuel cap by rotating it clockwise to the “ON” position. This will allow fuel to flow.

3. Turn the 3-in-1 dial switch (Fig. 8 - 2) to the “CHOKE” position.

4. Place one hand on the generator to hold it in place, and pull on the recoil starter handle slowly until a slight resistance is felt (Fig. 10). Then pull quickly to start the engine. Return cord gently into the machine. Never allow the cord to snap back.

5. If engine fails to start, repeat step 4.

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.

6. After the engine has started, turn the 3-in-1 switch (Fig. 8 - 2) to the “RUN” position. The output indicator (green) will light up.

7. Allow the generator to run for several minutes before attempting to connect any electrical devices. This allows the generator to stabilize its speed and temperature.

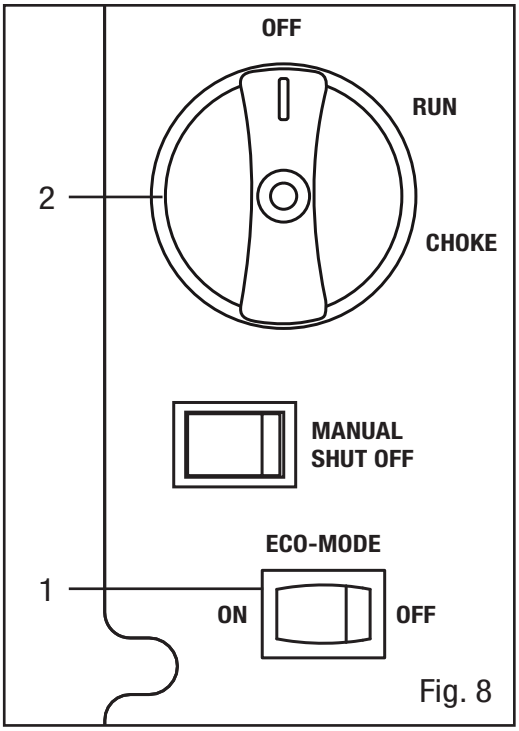


Fig. 8

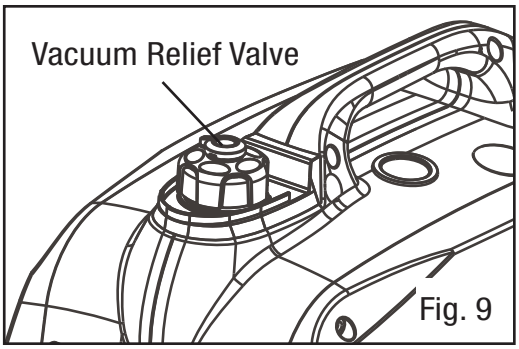


Fig. 9

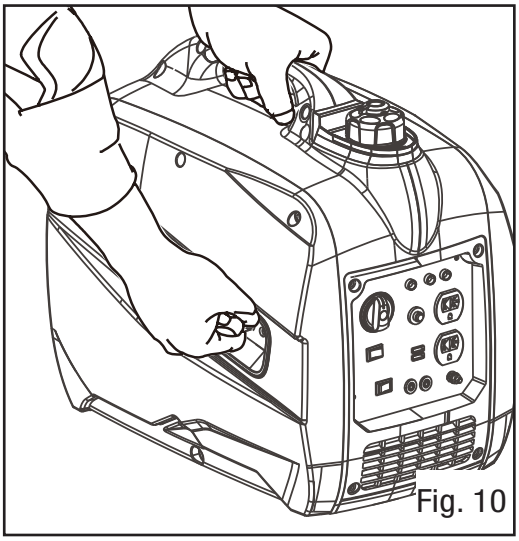


Fig. 10

CALCULATING THE WATTAGE OF YOUR DEVICE(S)

Connect electrical devices running on AC current according to their wattage requirements. Calculate the running wattage and starting wattage of the device(s) you wish to connect, and MAKE SURE that they are within the capacity of your generator.

<table>
<tr><td rowspan="3">Generator Wattage Capacity</td><td>Generator Running (Rated) Watts</td><td>Generator Starting (Surge) Watts</td></tr>
<tr><td>1800W</td><td>2250W</td></tr>
<tr><td>What this means:
The generator can produce a maximum of 1800W on a continuous basis to supply the running wattage requirement of your electronic device(s).</td><td>What this means:
Some devices such as box fans require short bursts of extra power in addition to the rated wattage listed by the device to start their motors.

The generator can produce a maximum wattage of 2250W for a short period of time (seconds) to cover the extra starting power requirement of your electronic device(s).</td></tr>
<tr><td rowspan="3">Electronic Device Wattage Calculation</td><td colspan="2">Find the wattage information of each device you plan to connect. The information should be listed on the device or in its instruction manual, or you may refer to Fig. 11.

The wattage can be calculated using this equation:
Watts = Volts x Amperes</td></tr>
<tr><td>To calculate the total running watts of your devices:

+ Add up the running wattages of all the device(s) you plan to connect

= The total running wattage

This wattage should NOT exceed the generator’s running wattage of 1800W.

It is recommended to maintain a load at or below 1620W (90% of the generator’s rated output) to ensure steady voltage output and to prolong the generator’s lifespan.</td><td>To calculate the total starting watts of your devices:

+ Add up the total running wattage of all the device(s) you plan to connect

+ Add the single highest ADDITIONAL starting wattage out of the device(s) you plan to connect

= The total surge (starting) wattage

This wattage should NOT exceed the generator’s starting wattage of 2250W.</td></tr>
<tr><td colspan="2">If any of either of the total calculated running watts or starting watts is higher than the capacity of your generator, adjust the load until both wattage requirements are met. Otherwise you will overload the generator, and cause damage to the engine and your electrical device(s).</td></tr>
</table>

USING THE GENERATOR

The chart below serves as a reference for the estimated wattage requirements of common electrical devices. However, do not solely rely on this chart - all electronics and appliances are built differently. Always check the wattage listed on the electrical device before consulting this chart.

Tool or Appliance	Rated (Running) Watts	Additional Starting Watts
Saw - circular	1500	0
Space heater	1300	0
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
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
Inflator	50	150

Fig. 11 - Estimated wattage requirements of common electrical devices

Once the total wattage of your electronic device(s) have been calculated, follow the instructions on the following pages to properly connect the device(s) to the generator.

USING THE GENERATOR

KNOW YOUR CONTROL PANEL

Become familiar with the functions and capacity of each component on the control panel.

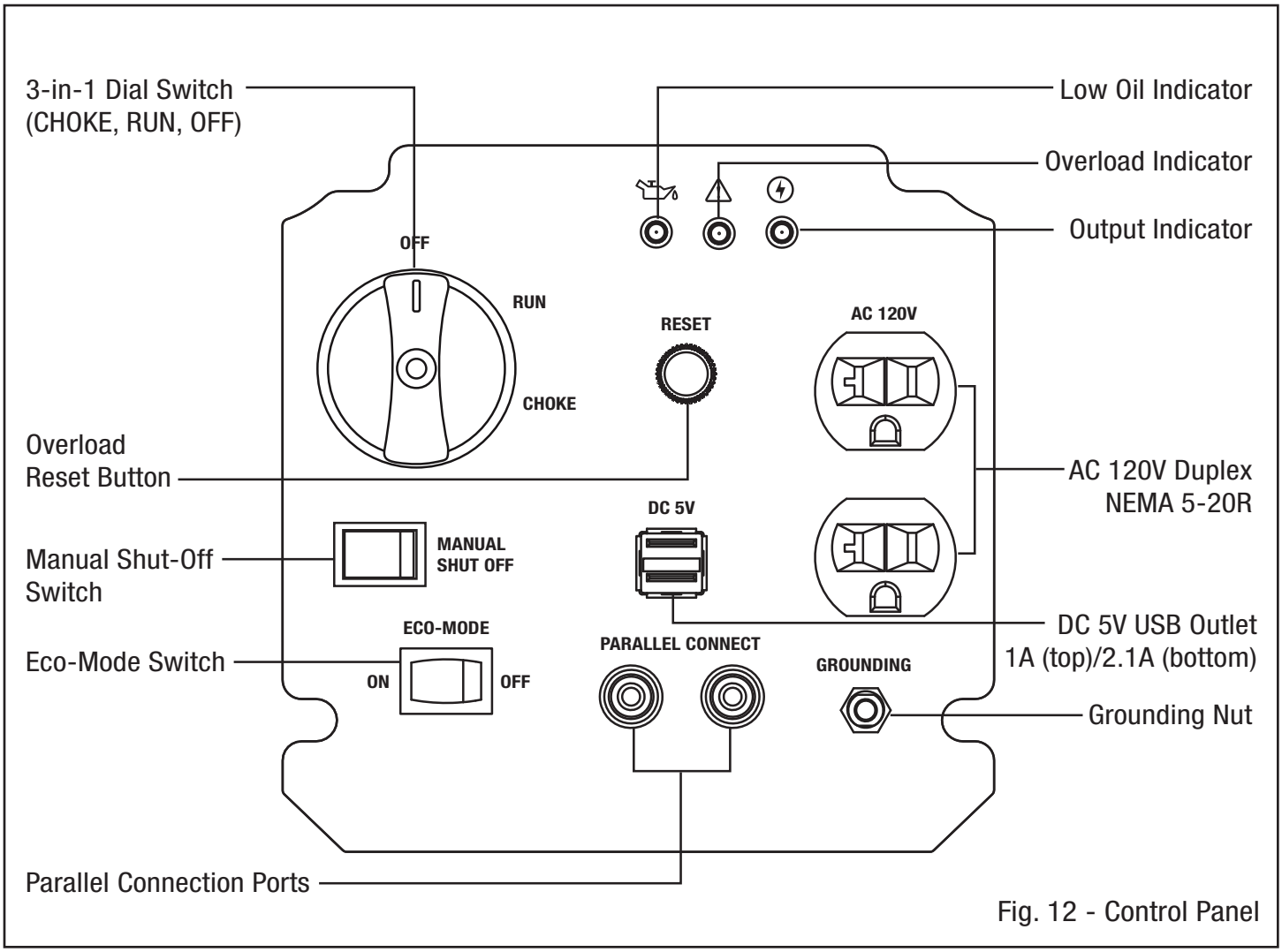


Fig. 12 - Control Panel

NOTE: When operating a single generator, DO NOT exceed **15A** (1800 running watts) on the NEMA 5-20 receptacles. The NEMA 5-20R capable of connecting devices up to 20A ONLY when two generators are parallel connected (see “PARALLEL OPERATION”).

ECO-MODE SWITCH

This generator is equipped with an Eco-Mode Idle Control Switch. Engaging this switch allows the system to regulate the engine speed and automatically adjust its fuel consumption to match the required load. When the electrical load changes, the generator engine will automatically speed up and slow down as needed. This reduces fuel consumption and noise levels, while extending runtime and engine’s lifespan.

Keep this switch engaged ONLY when the power load requirement is LESS THAN **1350W** (75% of the rated watts). Do not engage the Eco-Mode Switch when the total load is more than 1350W. The generator engine must run at full speed to supply power for anything over 1350W.

USING THE GENERATOR

CONNECTING ELECTRICAL DEVICES

CAUTION: Become familiar with the markings on the panel before connecting electrical devices. The 120V AC receptacles are for connecting electrical devices that run on 120V, 60 Hz, single phase, AC current. DO NOT connect 50Hz or 3-phase loads to the generator.

Follow the steps below to properly connect your device(s) to the generator:

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

2. Select the device with the highest wattage, and make sure it is turned off. Plug the device into the generator and then turn the device on. Allow the engine to stabilize.

3. Repeat step 2 to plug in each additional device. DO NOT attempt to plug in or start multiple devices at the same time.

PARALLEL OPERATION

The parallel connection ports allow you to connect two WEN generators to increase the total available electrical power. The **WEN 56421 Parallel Connection Kit** can be purchased from **wenproducts.com**. Follow the instructions included with your parallel connection kit for proper installation and operation.

IN CASE OF OVERLOAD

If your generator becomes overloaded from too much drawn wattage, the overload indicator (red) on the control panel will light up, and the overload reset button on your control panel may activate and cut off the output. When an overload occurs, reduce the load by turning off and unplugging your electronic device(s), then press the reset button to reset your generator. If no power is produced after resetting, restart your generator.

- 4% to 10% over rated watts: overload light will flash to indicate overload
- 10% to 18% over rated watts: overload light will stay on for 16 seconds, and then output will be cut off
- More than 18% over rated watts: overload light will stay on for 3 seconds, and then output will be cut off

SOME NOTES ABOUT POWER CORDS

Long or thin extension cords can drain the power provided to your electrical devices. Refer to the following chart in determining the necessary gauge extension cord for each of your devices. Round up to the higher amperage in the chart to maximize safety.

Device Requirements		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

Fig. 13 - Power Cord Requirement Guide

SHUTTING OFF THE GENERATOR

⚠ **CAUTION:** Unplugging running devices can cause damage to the generator. Never stop the engine with electrical devices connected and running.

OPTION 1: FUEL SHUT OFF (RECOMMENDED)

1. Turn off all electrical devices prior to unplugging them from the generator. Unplugging running devices can cause damage to the generator.

2. Allow generator to run at no load for a few minutes to stabilize internal temperatures.

3. Turn the engine switch to the “OFF” position (Fig. 14 - 1).

4. Close the vacuum relief valve on the top of the fuel cap by rotating it counterclockwise to the “OFF” position.

5. The engine will continue to run until the majority of the fuel in the carburetor is consumed. The engine will then shut off automatically. This helps prevent the carburetor from being clogged by stale fuel, extending your generator’s lifespan.

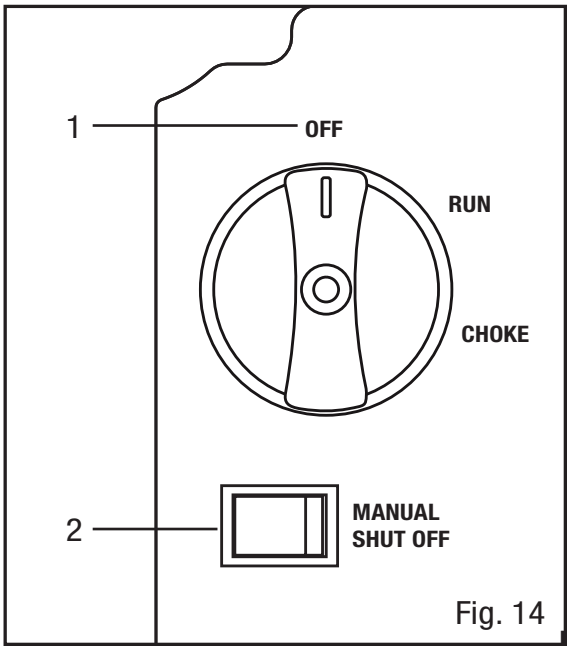


Fig. 14

OPTION 2: MANUAL SHUT OFF (IN CASE OF EMERGENCY)

1. Turn off all electrical devices prior to unplugging them from the generator. Unplugging running devices can cause damage to the generator.

2. Press the “MANUAL SHUT OFF” switch and hold it down in the “OFF” position for about 10 seconds until the engine shuts off.

⚠ **WARNING:** Allow the generator to cool down 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”.

MAINTENANCE

RECOMMENDED MAINTENANCE SCHEDULE

Proper routine maintenance of the generator will help prolong the life of the machine. Please perform maintenance checks and operations according to the Maintenance Schedule in Fig. 15. 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.

⚠ **WARNING:** 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.

Recommended Maintenance Schedule		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					
	Replace		x*	x*			x
Air Filter	Check			x*	x		
	Clean			x*			
Spark Plug	Check/clean/ regap				x		
	Change					x	x
Fuel Tank	Check level	x					
	Drain					x	x
Carburetor	Drain	x					x
Spark Arrestor	Check/Clean				x		

Fig. 15 - Recommended Maintenance Schedule

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

IMPORTANT GENERATOR MAINTENANCE TIPS:

- Drain your carburetor after each use and before storage 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.

NOTE: Failure to properly maintain the generator will void the warranty.

MAINTENANCE

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.

⚠ **WARNING:** 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.

CHECKING/ADDING OIL

Check the oil level before each use and every 8 hours of operation (refer to Fig. 15).
The oil capacity of the generator engine is **11.8 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. This is a critical step for proper engine starting. The generator is equipped with an automatic shutoff to protect it from running on low oil.

To check the oil level and add oil:
1. Make sure the generator is on a level surface. Do not tilt the generator, as oil will flow into engine areas and cause damage. Keep generator level!

2. Using a coin, turn the oil access cover screw 1/4 turn clockwise, then remove the access cover from the service panel. Clean around the oil fill. Remove the dipstick and wipe the 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 (Fig. 16). 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 (you can see oil coming up the threads of the oil fill). Do not over fill.

5. Reinstall dipstick and wipe clean any spilled oil with a rag. Reinstall the oil access cover.

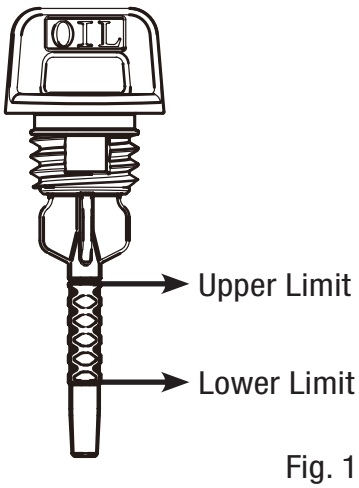


Fig. 16

TIP: Your WEN generator is compatible with the **WEN 55201** Magnetic Oil Dipstick (not included), available for purchase at **wenproducts.com**. The dipstick's industrial-strength magnetic tip will collect metal shavings from your generator's oil tank to help preserve the engine and extend your generator's lifespan.

DRAINING THE CARBURETOR

We recommended draining the carburetor after every use (not necessary if the generator is shut off using the "FUEL OFF" option), and before storing the generator. Draining the carburetor can prevent the fuel from clogging up the carburetor and preventing the generator from starting.

1. Place generator on elevated platform such as table or desk.

2. Using a Phillips-head screwdriver (not included), remove the service panel by unscrewing the three Phillips-head screws (Fig. 17 - 1) along the upper edge.

3. The carburetor (Fig. 18 - 1) can be accessed from the back-side of the generator between the engine and the air filter. Locate the transparent tube (Fig. 18 - 2) from the carburetor that extends down through the bottom of the generator.

4. Prepare an approved gasoline-storage container and direct the end of the drain tube into the containe.

5. Open up the carburetor drain screw (Fig. 19) with a flat-head screwdriver (not included) and drain out any gasoline that has built up inside the carburetor through the drain tube into the approved gasoline-storage container.

6. Once the fuel has drained, tighten the drain screw with the screwdriver.

NOTE: Make sure to drain your carburetor before storing the generator for long periods of time.

7. Reinstall the service panel.

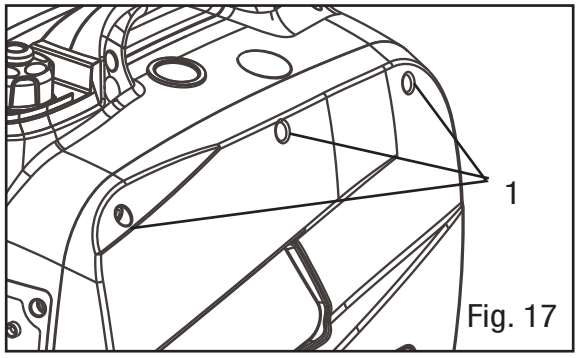


Fig. 17

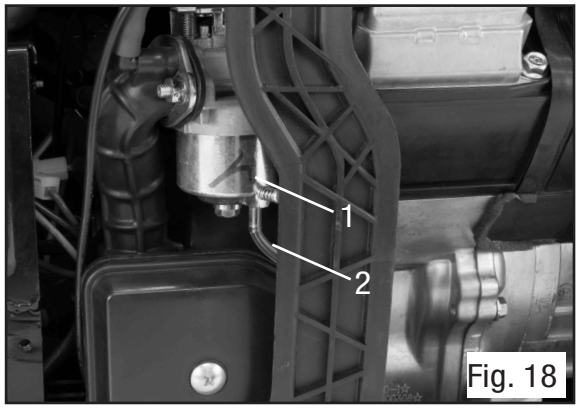


Fig. 18

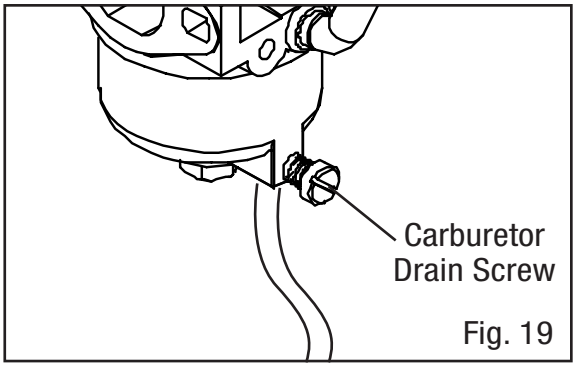


Fig. 19

AIR FILTER MAINTENANCE

Check every 50 hours of operation (refer to Fig. 15 - Recommended Maintenance Schedule).
Routine maintenance of the air filter helps maintain proper airflow to the carburetor. Occasionally check that the air cleaner is free of excessive dirt.

To inspect and clean the air filter:
1. Using a Phillips-head screwdriver (not included), remove the service panel by unscrewing the three Phillips-head screws (Fig. 17 - 1) along the upper edge.

2. Take the cover off of the air cleaner assembly by unscrewing the middle screw (Fig. 20). Remove the air filter element. Wipe excessive oil and any dirt from inside of the air filter casing.

3. Check and clean the foam air cleaner element. Good elements can be washed in soapy water, dried and reused. A small amount of oil in the element is normal and necessary for the engine to work properly.

Fig. 20

If the air filter element has been damaged, replace it with a new one. Replacement air filters can be ordered from **wenproducts.com** by searching part no. **56200-1407B**.

4. Reinstall the air cleaner element, air cleaner cover and service panel.

⚠ **WARNING:** Running the engine with a dirty, damaged or missing air filter element can result in danger to the operator and cause the engine to wear out prematurely.

DRAINING/CHANGING OIL

Change the oil according to the Recommended Maintenance Schedule in Fig. 15.
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.

1. Close the gas cap and vacuum relief valve.

2. Place generator on elevated platform such as table or workbench Prepare a gasoline-approved container to catch the oil as it drains.

NOTE: To avoid possible oil spills from the carburetor bowl, drain the caburetor (see page 23) before draining oil.

3. Using a coin, turn the oil access cover screw 1/4 turn clockwise, then remove the access cover from the service panel. Remove the dipstick and tilt the generator towards you and allow the oil to drain from the engine completely.

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.

4. Using a funnel or appropriate dispenser, add 11.8 oz of clean engine oil (see engine oil recommendations on page 10) until you can see oil coming up the threads of the oil fill. Do not over fill.

5. Reinstall the oil dipstick and tighten it securely. Wipe clean any oil spillage and reinstall the oil access cover.

SPARK PLUG MAINTENANCE

Refer to Recommended Maintenance Schedule in Fig. 15 for maintaining the spark plug.
The spark plug is important for proper engine operation. Check the spark plug regularly to maintain proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped.

To inspect or replace the spark plug:

1. Using a Phillips-head screwdriver (not included), remove the service panel by unscrewing the three Phillips-head screws along the upper edge.

2. Pull on the spark plug boot (Fig. 21) to remove it. Be careful not to tear any insulation or wire.

3. Remove the spark plug rubber cover on the top of the generator next to the fuel gauge. Insert the included spark plug wrench through the spark plug access hole to unscrew and then carefully remove the spark plug from the engine (Fig. 22). **TIP:** 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.

4. Visually inspect the spark plug. If it is cracked or chipped, or if the electrodes are worn or burned, discard it and replace with a new spark plug.

We recommend replacing with a **NGK CR5HS/Torch A5RTC** spark plug (part no. **56200-0806**), available for purchase at **wenproducts.com**.

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. Measure the plug gap with a spark plug gap gauge. The gap should be **0.6-0.7 mm (0.024-0.028 in).** (Fig. 23). Carefully adjust the gap if necessary.

7. 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** (15 ft-lb torque/20.33 Nm) after spark plug gasket contacts spark plug hole.

8. Reinstall the spark plug boot, spark plug rubber cover, and service panel.

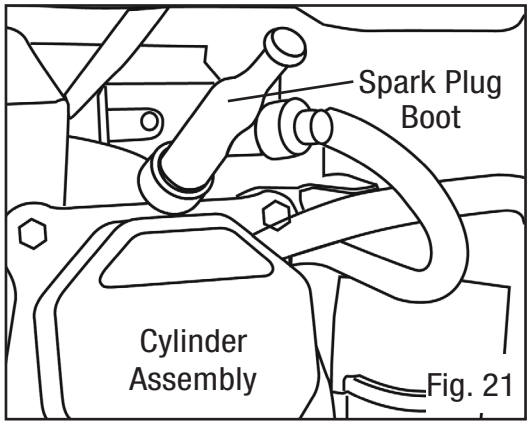


Fig. 21

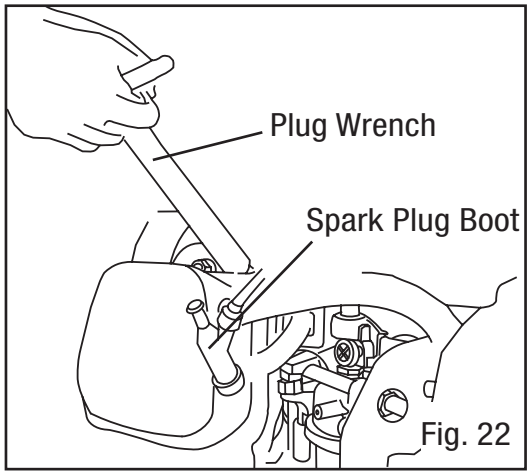


Fig. 22

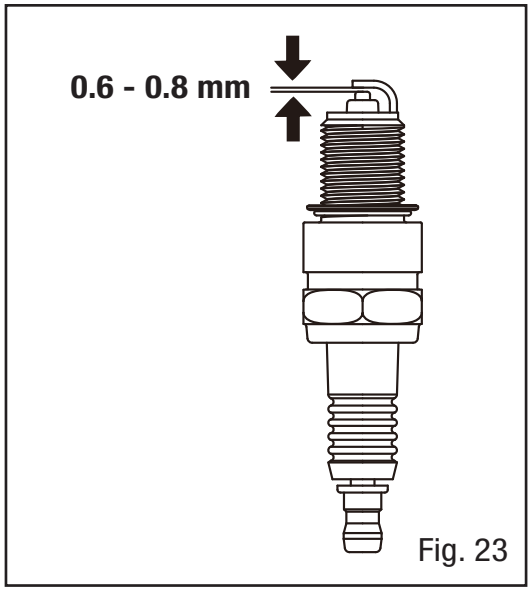


Fig. 23

MAINTENANCE

SPARK ARRESTOR MAINTENANCE

Inspect and clean the spark arrestor every 100 hours of operation.
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. To inspect and clean the spark arrester:

1. Remove the screw that secures the spark arrestor to the muffler.

2. Remove the spark arrestor screen (Fig. 24).

3. Carefully clean and remove the carbon deposits from the spark arrestor screen with a wire brush. Replace the spark arrestor if it is damaged (replacement spark arrestors can be purchased from **wenproducts.com** by searching the part no. **56225i-1509**).

4. Reinstall the spark arrestor in the muffler and secure it in place with the screw.

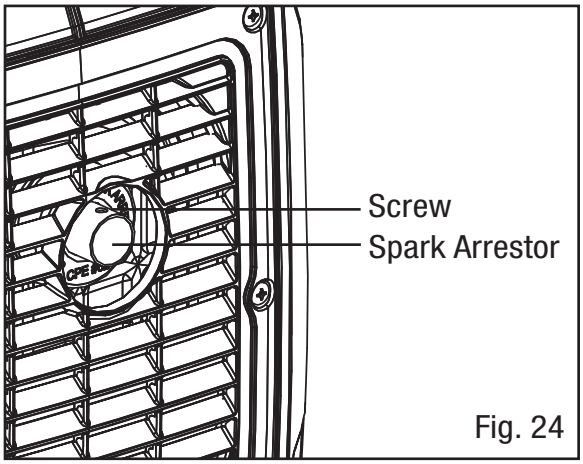


Fig. 24

DRAINING THE FUEL TANK

Drain and clean the fuel tank each year, or before storing the generator for longer than two months.

To drain the fuel tank and carburetor:
1. Using a Phillips-head screwdriver (not included), remove the service panel by unscrewing the three Phillips-head screws (Fig. 17 - 1) along the upper edge.

2. Locate the carburetor (Fig. 18 - 1) and the transparent drain tube (Fig. 18 - 2) from the carburetor that extends down through the bottom of the generator.

3. Prepare an approved gasoline-storage container and direct the end of the transparent tube into the container.

4. Remove the fuel cap and turn the 3-in-1 switch to the “RUN” position. Fuel will start draining from the carburetor and fuel tank through the drain tube. **NOTE:** The draining process may take a few hours, depending on the amount of fuel in your gas tank.

5. Once fuel is completely drained, reinstall the fuel cap and turn the 3-in-1 switch to “OFF” position. Tighten the drain screw with the screwdriver and reinstall the service panel.

6. Store the emptied gasoline in a suitable place. DO NOT store flammable materials near the gasoline.

CAUTION: Store the emptied gasoline in a suitable place. Never store fuel for more than 2 months.

TRANSPORTATION & STORAGE

TRANSPORTING THE GENERATOR

To prevent fuel spillage when transporting, be sure to perform the following:

1. Tighten the fuel cap and turn the vacuum relief valve to “OFF”.
2. Set the engine switch to “OFF”.
3. Drain the fuel tank if possible (see “DRAINING THE FUEL TANK”).
4. Keep the generator upright. Never place the generator on its side or upside down - doing so will make it difficult to start.

⚠ **WARNING:** Avoid direct sunlight inside a vehicle. If the generator is left in an enclosed vehicle for many hours, the high temperature could cause the fuel to vaporize and result in a possible explosion.

STORING THE GENERATOR

Shut off the generator and allow the unit to cool to room temperature before storing it. NEVER place any type of storage cover on the generator while it is still hot. Do not obstruct any ventilation openings.

Follow the procedures below for properly storing your generator. We highly recommend running your generator once a month for 15 to 30 minutes. Plug in a small load in to ensure there is proper power output.

For Short Periods (30 to 60 Days):	**For Extended Periods (Over 60 Days):**
Add fuel stabilizer: Follow the suggested portions and instructions of your preferred stabilizer. Run the engine for 15 to 20 minutes, allowing the fuel stabilizer to mix with the gasoline and circulate through the carburetor, and then top off with fuel. Filling the fuel tank full reduces the amount of air in the tank and helps fight deterioration of fuel.	• Drain the fuel tank and carburetor (see “DRAINING THE FUEL TANK”). NEVER store generator with fuel in the tank for more than two months. • Change the engine oil (see “CHANGING OIL”).

⚠ **WARNING:** Store the generator upright in a cool and dry location, away from sources of heat, open flames, sparks or pilot lights.

PRODUCT DISPOSAL

Do not dispose of used generator or parts with your 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 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/fuel disposal.

TROUBLESHOOTING GUIDE

⚠ **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 will not start.	Engine switch is set to OFF.	Set engine switch to ON.
	Fuel valve is turned to OFF.	Turn fuel valve to ON.
	Oil is low.	Add or replace oil.
	Engine is out of fuel.	Add fuel.
	Engine is filled with contaminated or old fuel.	Drain fuel in the tank. Fill with fresh fuel.
	Spark plug is dirty or broken.	Clean or replace the spark plug.
	Carburetor is air locked.	Shut off the fuel valve. Remove the bolt from the bottom of the carburetor. Take off the carburetor bowl to allow it to reset. Replace carburetor bowl and reinstall the bolt.
Engine runs but there is no electrical output.	Circuit breaker has been tripped due to overload.	Turn off and unplug all electrical devices. Wait 5 minutes, 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.
	Bad connecting cords/wires.	Check the power cords and extension cords. Do not use if any cord is damaged. Replace damaged cords immediately.
	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.	Turn off and unplug all electrical devices. Wait 5 minutes, then press the circuit breaker to reset. Reduce load as necessary, then plug devices back in one by one.
	Short circuit in one of the devices.	Try disconnecting any faulty or short-circuited electrical loads.
	Air filter is dirty.	Clean or replace the air filter element.
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 a consistent fuel/air mixture.	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. 3. Check if the spark arrester is blocked. Clean with metal brush as necessary. 4. Use “gunk remover” spray on the carburetor jets.

SPECIFICATIONS

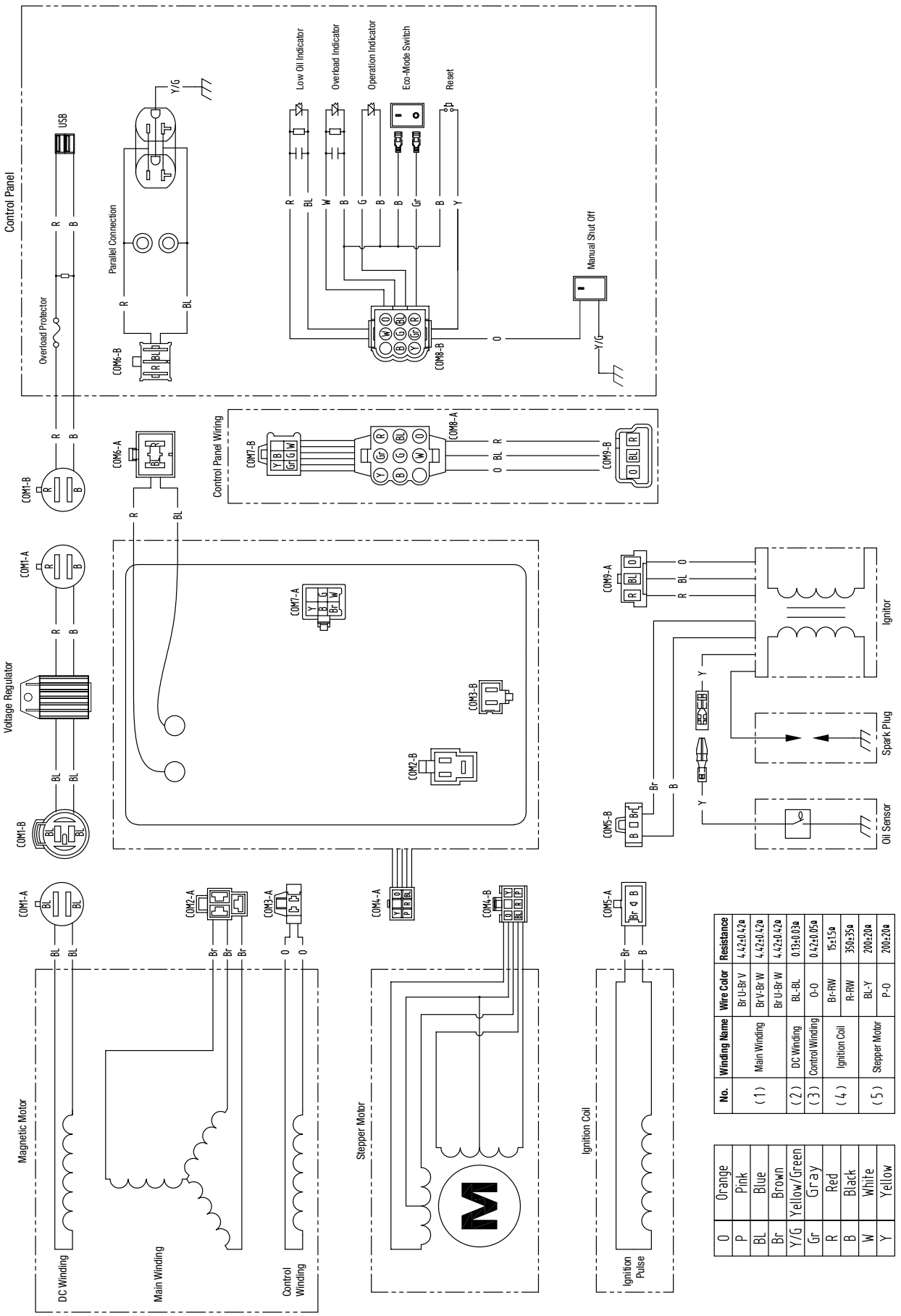
GENERATOR

Rated Wattage	1800 Watts
Surge Wattage	2250 Watts
Rated Voltage	AC: 120V, DC: 5V
Rated Amperage	AC: 15A, DC: 1A (Top), 2.1A (Bottom)
Phase	Single
Frequency	60Hz
Product Dimensions	Length: 19 in.
	Width: 11.5 in.
	Height: 18.2 in.
Product Net Weight	48.5 lbs

ENGINE

Engine Type	4-stroke, OHV, single cylinder with forced air cooling system
Engine Displacement	79.7 cc
Fuel Tank Capacity	1 US gallon (3.8 L), 87 octane minimum
Oil Capacity	11.8 fl. oz. (0.35 L)
Half-Load Run Time	6 hours
Lubrication System	Splash Lubrication
Noise rating: (tested from 22 ft away with an ambient dB rating of 44 dB)	52 dBA at no load 53 dBA at 1/4 load 54 dBA at 1/2 load 57 dBA at 3/4 load
Spark Plug Type	NGK CR5HS/Torch A5RTC
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-lbs

WIRING DIAGRAM



No.	Winding Name	Wire Color	Resistance
(1)	Main Winding	Br-U-Br-V	4.42±0.42Ω
		Br-V-Br-W	4.42±0.42Ω
		Br-U-Br-W	4.42±0.42Ω
(2)	DC Winding	BL-BL	0.13±0.03Ω
(3)	Control Winding	O-O	0.42±0.05Ω
(4)	Ignition Coil	Br-RW	15±15Ω
		R-RW	350±35Ω
(5)	Stepper Motor	BL-Y	200±20Ω
		P-O	200±20Ω

O	Orange
P	Pink
BL	Blue
Br	Brown
Y/G	Yellow/Green
Gr	Gray
R	Red
B	Black
W	White
Y	Yellow

EXPLODED VIEW & PARTS LIST

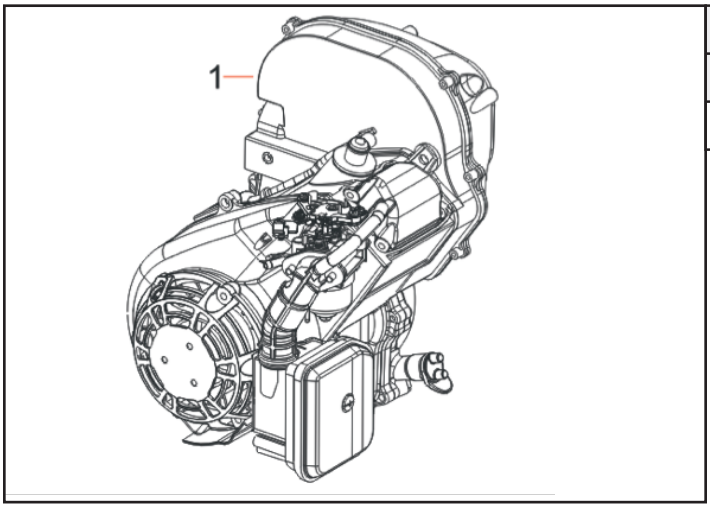


Fig. 1 - Engine			
No.	**Part No.**	**Description**	**Qty.**
Fig. 1-1	56225i-0101	Engine Assembly	1

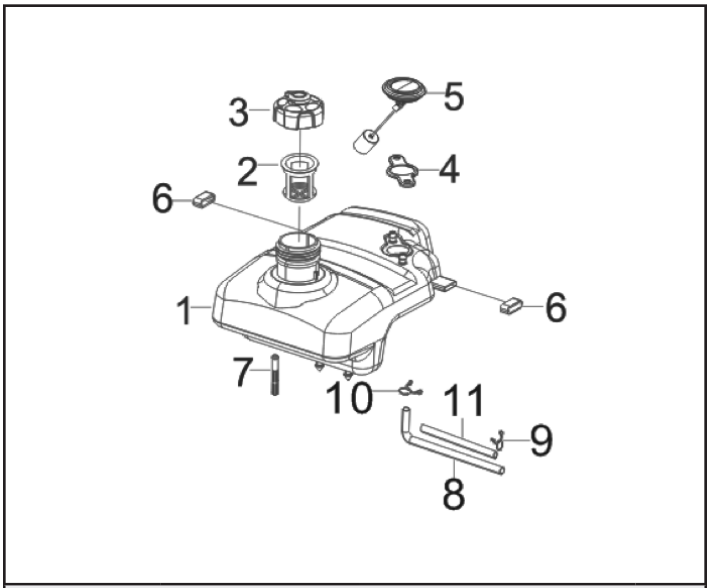


Fig. 2 - Fuel Tank Assembly			
No.	**Part No.**	**Description**	
Fig. 2-1	56200-0201	Tank, Fuel	1
Fig. 2-2	56200-0202	Fuel Filter	1
Fig. 2-3	56200-0203	Cover, Fuel Tank	1
Fig. 2-4	56200-0204	Clamp Oil Seal	1
Fig. 2-5	56200-0205	Fuel Gauge	1
Fig. 2-6	56200-0206	Bush	2
Fig. 2-7	56200-0207	Element, Strainer	1
Fig. 2-8	56200-0208	Tube, Fuel	1
Fig. 2-9	56200-0209	Collar	1
Fig. 2-10	56200-0210	Collar	1
Fig. 2-11	56200-0211	Jacket, Rubber	1

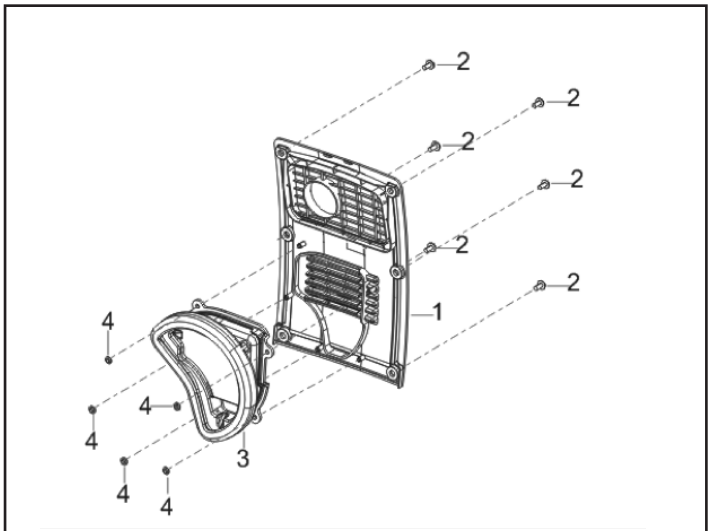


Fig. 3 - Muffer Cover			
No.	**Part No.**	**Description**	**Qty.**
Fig. 3-1	56200-0301	Cover, Muffler Side	1
Fig. 3-2	56200-0302	Washer & Screw Component	6
Fig. 3-3	56200-0303	Cushion, Joint Rubber	1
Fig. 3-4	56200-0304	Clip, Spring	5

EXPLODED VIEW & PARTS LIST

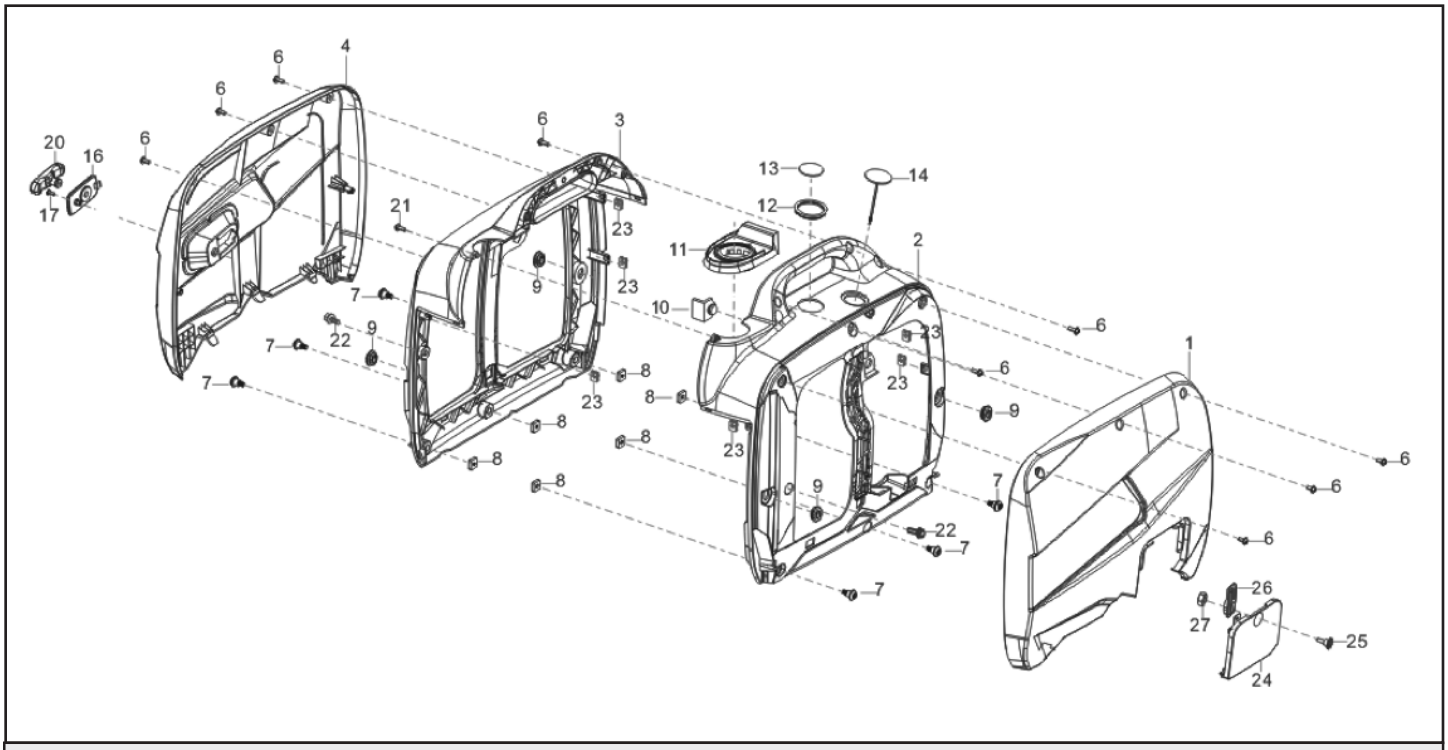


Fig. 4 - Side Casing

No.	Part No.	Description	Qty.
Fig. 4-1	56200-0401B	Side Panel (Right)/Service Panel	1
Fig. 4-2	56200-0402	Shell, Right	1
Fig. 4-3	56200-0403	Shell, Left	1
Fig. 4-4	56200-0404B	Side Panel (Left)	1
Fig. 4-6	56200-0406	Bolt	9
Fig. 4-7	56200-0407	Bolt	6
Fig. 4-8	56200-0408	Stud	6
Fig. 4-9	56200-0409	Fuel Tank Rubber Sleeve	4
Fig. 4-10	56200-0410	Rubber Washer	1
Fig. 4-11	56200-0411	Gas Tank Opening	1
Fig. 4-12	56200-0412	Jacket, Rubber	1
Fig. 4-13	56200-0413	Fuel Gauge	1

No.	Part No.	Description	Qty.
Fig. 4-14	56200-0414	Jacket, Rubber	1
Fig. 4-16	56200-0416B	Guide Starting Rope	1
Fig. 4-17	56200-0417	Screw	1
Fig. 4-20	56200-0420	Starter Cable Handle	1
Fig. 4-21	56200-0421B	Screw	1
Fig. 4-22	56200-0422	Bolt	2
Fig. 4-23	56200-0423	Nut	6
Fig. 4-24	56200-0424B	Oil Access Cover	1
Fig. 4-25	56200-0425B	Bolt	1
Fig. 4-26	56200-0426B	Lever	1
Fig. 4-27	56200-0427B	Nut	1

EXPLODED VIEW & PARTS LIST

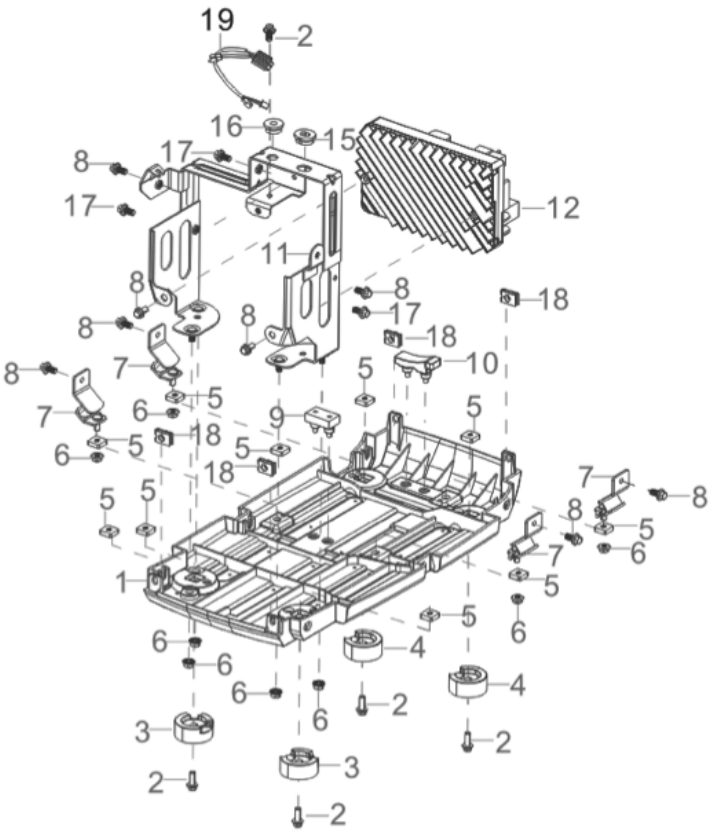


Fig. 5 - Base Plate/inverter			
No.	**Part No.**	**Description**	**Qty.**
Fig. 5-1	56200-0501	Plate, Bottom	1
Fig. 5-2	56200-0502	Bolt	5
Fig. 5-3	56200-0503	Seat, Frame	2
Fig. 5-4	56200-0504	Seat, Frame	2
Fig. 5-5	56200-0505	Nut	10
Fig. 5-6	56200-0506	Nut	8
Fig. 5-7	56200-0507	Cushion, Engine Frame	4
Fig. 5-8	56200-0508	Bolt	8
Fig. 5-9	56200-0509	Bracket, Cushion Rubber	1
Fig. 5-10	56200-0510	Bracket, Cushion Rubber	1
Fig. 5-11	56200-0511	Support, Inverter	1
Fig. 5-12	56225i-0512	Inverter	1
Fig. 5-15	56200-0515	Sleeve, Fuel Tank Rubber	1
Fig. 5-16	56200-0516	Sleeve, Fuel Tank Rubber	1
Fig. 5-17	56200-0517	Bolt	3
Fig. 5-18	56200-0518	Nut	4
Fig. 5-19	56225i-0519	Voltage Regulator	1

EXPLODED VIEW & PARTS LIST

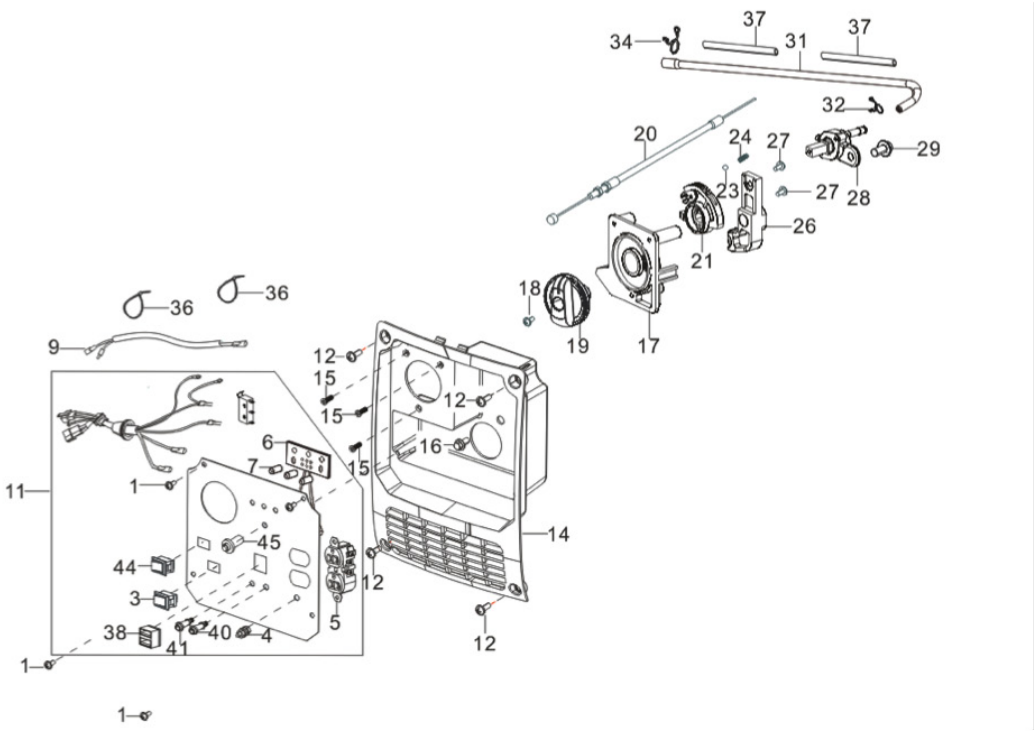


Fig. 6 - Control Panel

No.	Part No.	Description	Qty.
Fig. 6-1	56200-0601B	Screw	4
Fig. 6-3	56225i-0603	Eco-Mode Idle Switch	1
Fig. 6-4	56200-0604	Grounding Terminal	1
Fig. 6-5	56200-0605	120 Volt Duplex Receptacle	1
Fig. 6-6	56200-0607B	Indicator Light Seat	1
Fig. 6-7	56200-0606B	Indicator Light	3
Fig. 6-9	56225i-0609	Control Panel Wiring	1
Fig. 6-11	56225i-0611	Control Panel Assembly	1
Fig. 6-12	56225i-0612	Washer and Screw, M5x16	4
Fig. 6-14	56200-0614	Seat, Panel	1
Fig. 6-15	56200-0615	Screw	3
Fig. 6-16	56200-0617	Bolt	1
Fig. 6-17	56225i-0617	Control Box	1
Fig. 6-18	56225i-0618	Screw M4x16	1
Fig. 6-19	56225i-0619	Knob	1

No.	Part No.	Description	Qty.
Fig. 6-20	56200-0620	Handle Choke	1
Fig. 6-21	56200-0621B	Cover Plate	1
Fig. 6-23	56200-0623	Ball, Steel	1
Fig. 6-24	56200-0624B	Spring, Stopper Adjusting	1
Fig. 6-26	56225i-0626	Bracket, Fuel Cock	1
Fig. 6-27	56225i-0627	Screw M4.2x16	2
Fig. 6-28	56200-0628	Cock Assy, Fuel	1
Fig. 6-29	56200-0629	Bolt	1
Fig. 6-31	56200-0631	Tube, Fuel	1
Fig. 6-32	56200-0632	Collar	2
Fig. 6-34	56200-0634	Collar	1
Fig. 6-36	56200-0636	Band	2
Fig. 6-37	56200-0637	Jacket, Rubber	2
Fig. 6-38	56225i-0638	USB Charger	1
Fig. 6-40	56200-0640	Parallel Kit Socket	1
Fig. 6-41	56200-0641	Parallel Kit Socket	1
Fig. 6-44	56225i-0644	Manual Shut Off Switch	1
Fig. 6-45	56225i-0645	Reset Button	1

EXPLODED VIEW & PARTS LIST

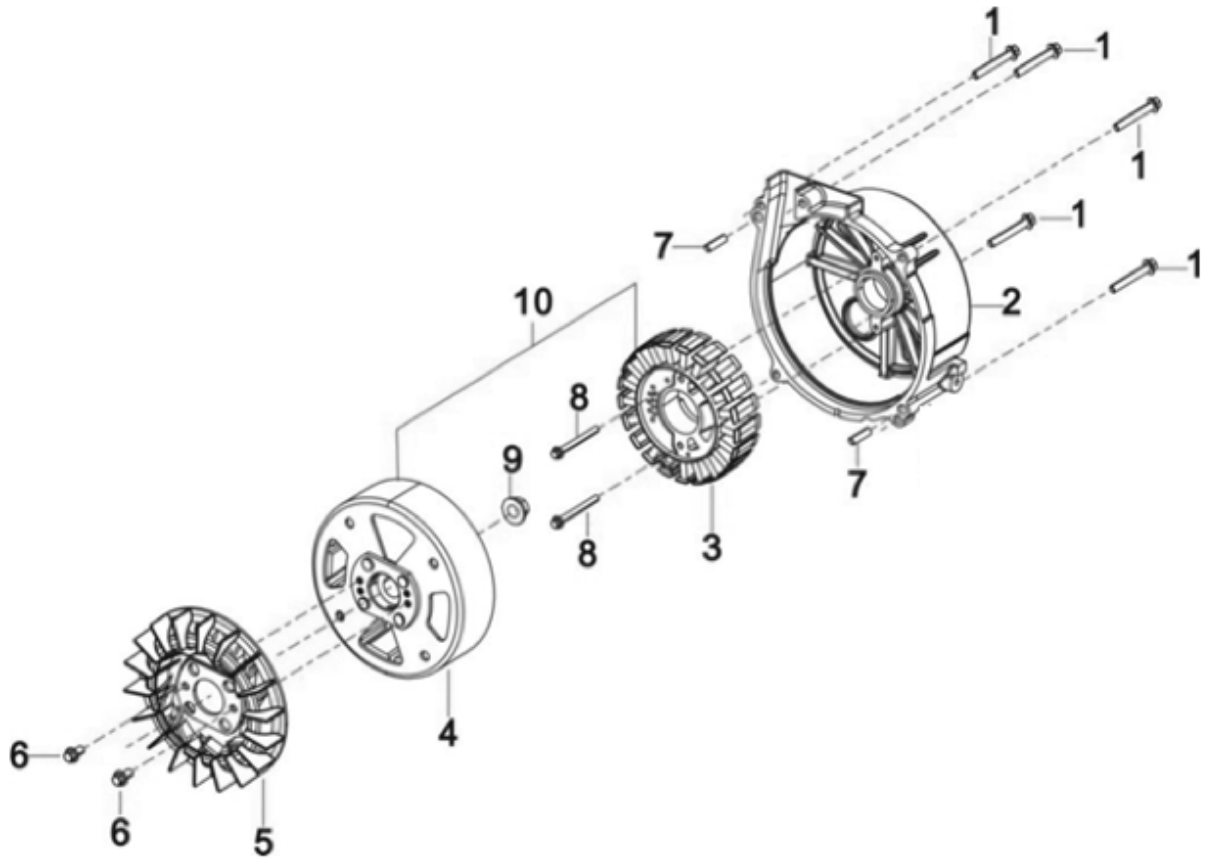


Fig. 7 - Rotor/Stator Assembly			
No.	**Part No.**	**Description**	**Qty.**
Fig. 7-1	56200-0701	Bolt	5
Fig. 7-2	56200-0702	Shroud, Motor	1
Fig. 7-3	56225i-0703	Stator Assembly	1
Fig. 7-4	56200-0704	Rotor Assembly	1
Fig. 7-5	56200-0705	Impeller	1
Fig. 7-6	56200-0706	Bolt	2
Fig. 7-7	56200-0707	Pin	2
Fig. 7-8	56200-0708	Bolt	2
Fig. 7-9	56200-0709	Nut	1

EXPLODED VIEW & PARTS LIST

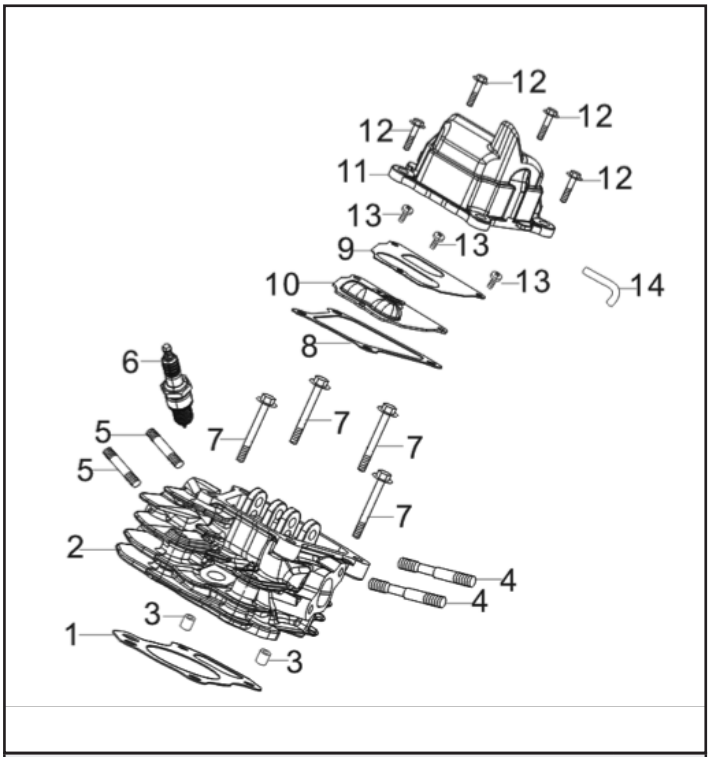


Fig. 8 - Cylinder Head Assembly

No.	Part No.	Description	Qty.
Fig. 8-1	56200-0801	Gasket, Cylinder Head	1
Fig. 8-2	56200-0802	Head Subassembly, Cylinder	1
Fig. 8-3	56200-0803	Pin	2
Fig. 8-4	56200-0804	Stud	2
Fig. 8-5	56200-0805	Stud	2
Fig. 8-6	56200-0806	Spark Plug	1
Fig. 8-7	56200-0807	Bolt, Cylinder Head	4
Fig. 8-8	56200-0808	Gasket, Cylinder Head Cover	1
Fig. 8-9	56200-0809	Piece, Breath	1
Fig. 8-10	56200-0810	Gasket, Breath Groove	1
Fig. 8-11	56200-0811	Cover Subassembly, Cylinder Head	1
Fig. 8-12	56200-0812	Bolt	4
Fig. 8-13	56200-0813	Screw	3
Fig. 8-14	56200-0814	Tube, Breather	1

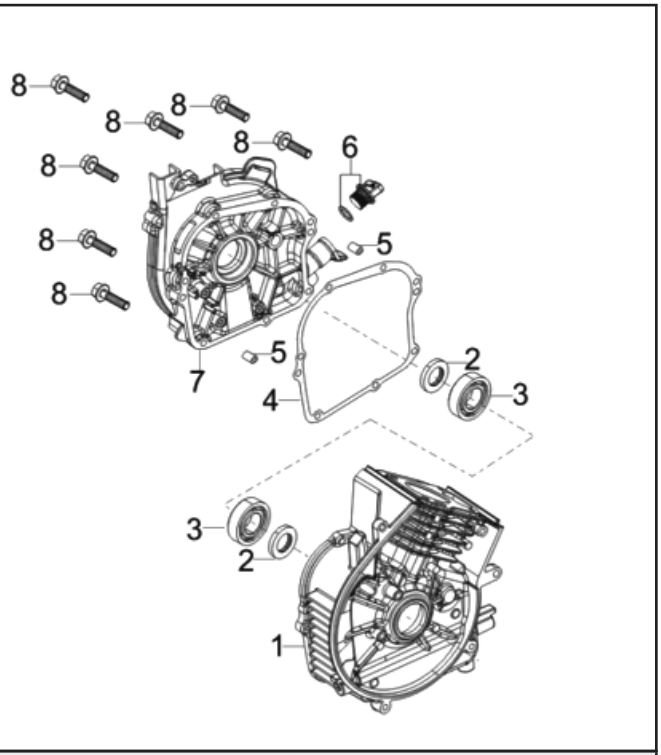


Fig. 9 - Crankcase Assembly

No.	Part No.	Description	Qty.
Fig. 9-1	56200-0901	Crankcase Subassembly	1
Fig. 9-2	56200-0902	Oil-Seal	2
Fig. 9-3	56200-0903	Bearing	2
Fig. 9-4	56200-0904	Gasket, Crankcase	1
Fig. 9-5	56200-0905	Pin	2
Fig. 9-6	56200-0906	Oil Dipstick	1
Fig. 9-7	56200-0907	Cover, Crankcase	1
Fig. 9-8	56200-0908	Bolt	7

EXPLODED VIEW & PARTS LIST

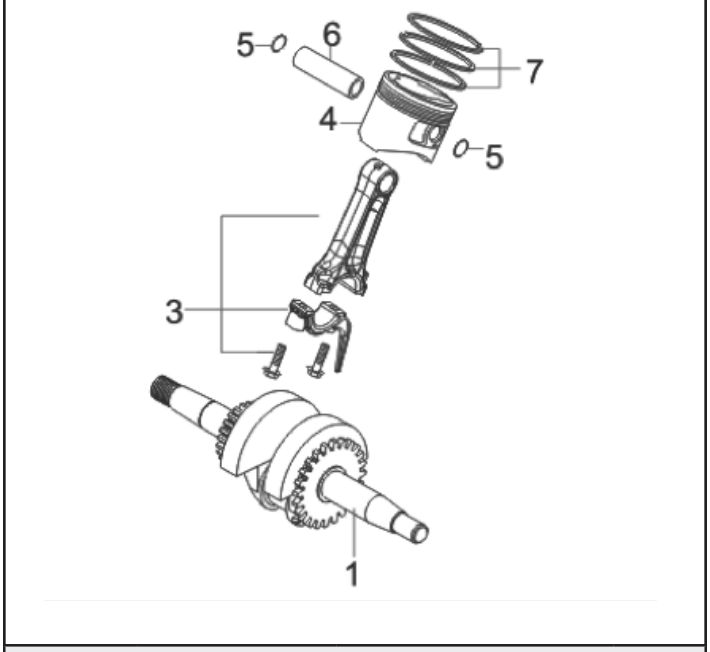


Fig. 10 - Piston Ring Set & Crankshaft

No.	Part No.	Description	Qty.
Fig.10-1	56200-1001	Crankshaft Assy.	1
Fig.10-2	56225i-1002	Rod, Connecting	1
Fig.10-3	56200-1003	Piston	1
Fig.10-4	56200-1004	Clip, Piston Pin	2
Fig.10-5	56200-1005	Pin, Piston	1
Fig.10-6	56200-1007	Ring Assy, Piston	1

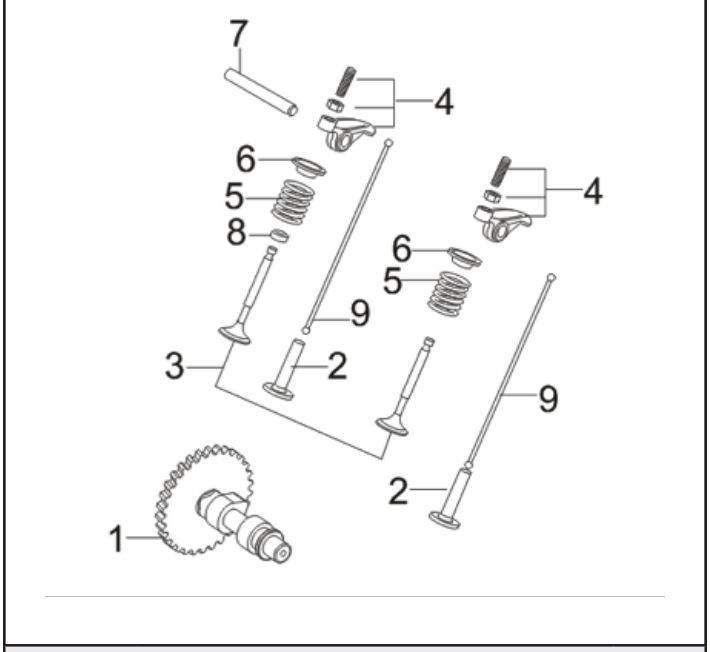


Fig. 11 - Valve Train/Camshaft Assembly

No.	Part No.	Description	Qty.
Fig.11-1	56225i-1101	Camshaft Assembly	1
Fig.11-2	56200-1103	Tappet, Valve	2
Fig.11-3	56200-1104.1	Inner Valve	1
	56200-1104.2	Outer Valve	1
Fig.11-4	56200-1105	Rocker Subassembly, Valve	2
Fig.11-5	56200-1106	Spring, Valve	2
Fig.11-6	56200-1107	Seat, Valve Spring	2
Fig.11-7	56200-1112	Shaft, Valve Rocker	1
Fig.11-8	56200-1113	Guide, Seal	1
Fig.11-9	56200-1114	Lifter, Valve	2

EXPLODED VIEW & PARTS LIST

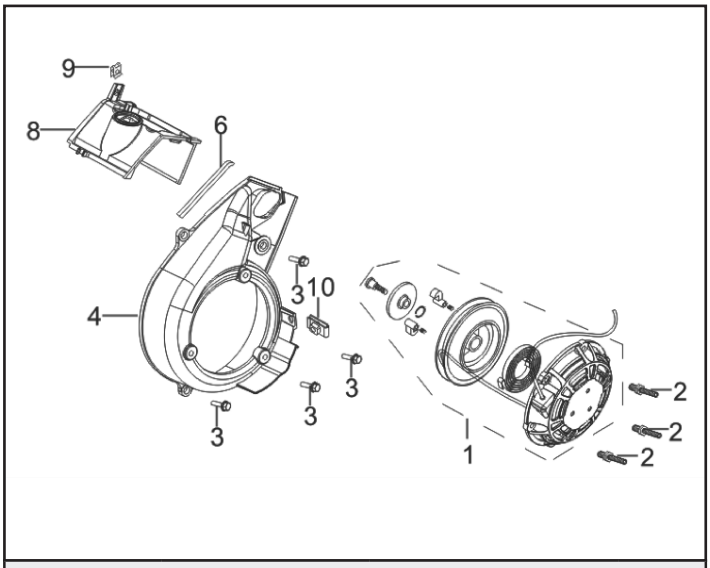


Fig. 12- Recoil Start Assembly

No.	Part No.	Description	Qty.
Fig.12-1	56225i-1201	Recoil Starter Assembly	1
Fig.12-2	56200-1202B	Bolt	3
Fig.12-3	56200-1203	Bolt	4
Fig.12-4	56200-1204	Shroud	1
Fig.12-6	56200-1206	Strip, Shroud Seal	1
Fig.12-8	56200-1208	Air Deflector, Cylinder Head	1
Fig.12-9	56200-1209B	Limit Card	1
Fig.12-10	56200-1210	Nut	1

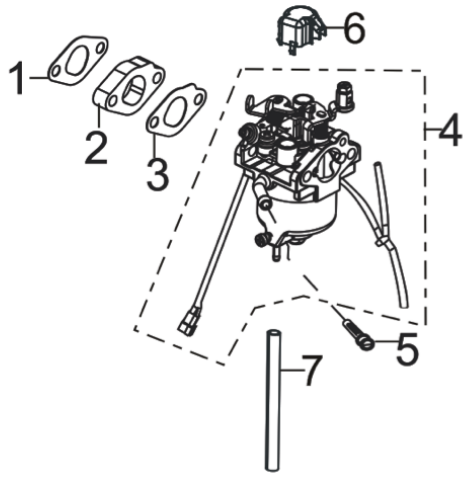


Fig. 13 - Carburetor Assembly

No.	Part No.	Description	Qty.
Fig.13-1	56200-1301	Gasket, Carburetor	1
Fig.13-2	56200-1302	Plate, Carburetor Insulator	1
Fig.13-3	56200-1303	Gasket, Carburetor Insulator	1
Fig.13-4	56200-1304B	Carburetor Assembly	1
Fig.13-5	56200-1305	Fuel Filter	1
Fig.13-6	56200-1306B	Cap	1
Fig.13-7	56200-1307B	Tube, Fuel	1

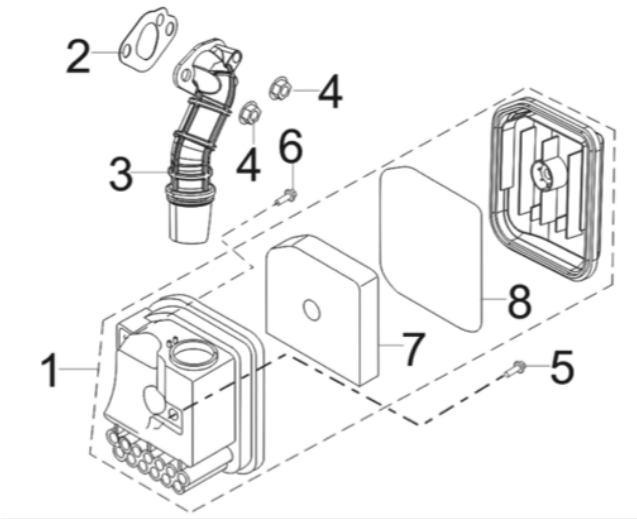


Fig. 14 - Air Filter Assembly

No.	Part No.	Description	Qty.
Fig.14-1	56200-1401	Cleaner, Air	1
Fig.14-2	56200-1402	Gasket, Air Cleaner	1
Fig.14-3	56200-1403	Duct, Air Cleaner Intake	1
Fig.14-4	56200-1404	Nut	2
Fig.14-5	56200-1405	Stud	1
Fig.14-6	56200-1406	Stud	1
Fig.14-7	56200-1407B	Element, Air Cleaner	1
Fig.14-8	56200-1408B	Ring, Seal	1

EXPLODED VIEW & PARTS LIST

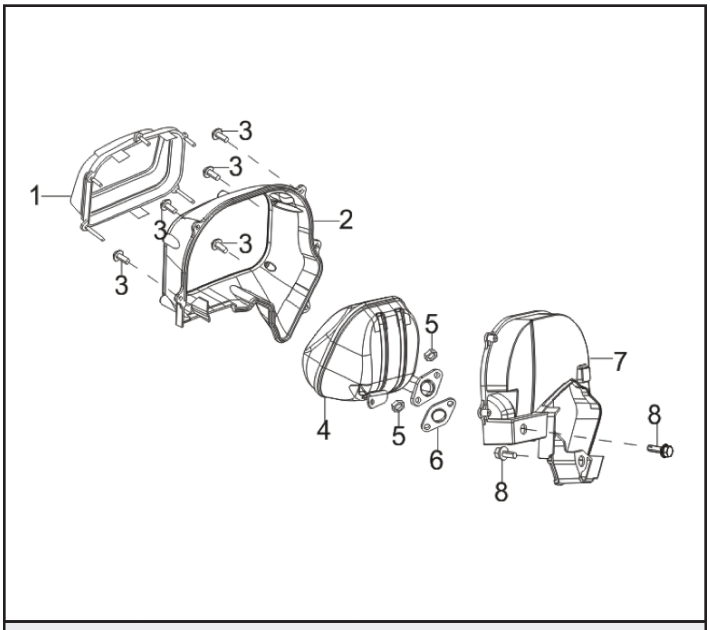


Fig. 15 - Muffler Assembly

No.	Part No.	Description	
Fig.15-1	56200-1501	Cover, Muffler Side	1
Fig.15-2	56200-1502	Shroud Muffler	1
Fig.15-3	56200-1503	Screw Cross Groove Pan	5
Fig.15-4	56200-1504	Muffler Assy.	1
Fig.15-5	56200-1505	Nut	2
Fig.15-6	56200-1506	Gasket, Exhaust Outlet	1
Fig.15-7	56200-1507	Muffler Shield	1
Fig.15-8	56200-1508B	Bolt	2
Fig.15-9	56225i-1509	Spark Arrestor (Not Shown)	1

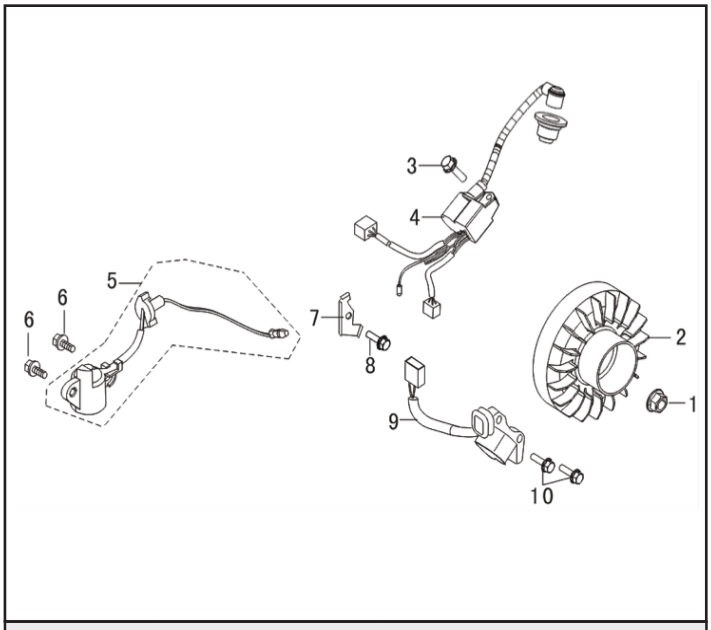


Fig. 16 - Flywheel/Ignition Coil

No.	Part No.	Description	
Fig.16-1	56200-1601	Nut, Flywheel	1
Fig.16-2	56200-1602	Flywheel Subassembly	1
Fig.16-3	56200-1603	Bolt	1
Fig.16-4	56225i-1604	Igniter	1
Fig.16-5	56200-1605	Sensor, Engine Oil	1
Fig.16-6	56200-1606	Bolt	2
Fig.16-7	56200-1607	Clamp	1
Fig.16-8	56200-1608	Bolt	1
Fig.16-9	56225i-1609	Ignition Coil	1
Fig.16-10	56200-1610	Bolt	2

NOTE: Replacement parts can be purchased from wenproducts.com, or by calling our customer service at (800) 232-1195, M-F 8-5 CST. Parts and accessories that wear down over the course of normal use are not covered by the two-year warranty.

WARRANTY STATEMENT

REMEMBER TO SAVE THE RECEIPT. 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.

NOTE: 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.

NOTES

THANKS FOR
REMEMBERING