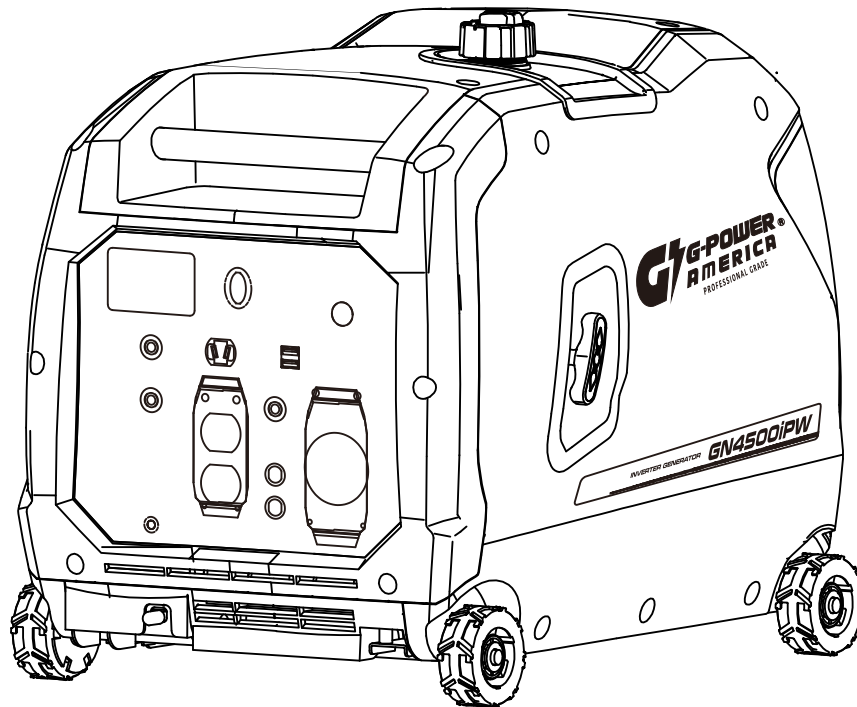




We Power Your World!

*Owner's Manual of Generator for*

**GN4500iPW  
GN4500iePW**



Green-Power America, LLC

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# WARRANTY STATEMENT

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## WARRANTY POLICY -- GENERATOR

### Two(2)-YEAR LIMITED WARRANTY or One(1)-YEAR LIMITED WARRANTY

**Green-Power America, LLC (GPA) provides Two(2)-Year or One(1)-Year (GPD1500 and GN1750D) limited factory warranty once consumers buy the generator from GPA or any of GPA partners in the United States.**

#### **1, Warranty Quali cations**

Green-Power America, LLC (GPA) will register this warranty upon receipt of your Warranty Registration Card / Warranty Registration on Web and a copy of your sales receipt from one of GPA's retail locations as proof of purchase. GPA strongly recommend consumer keeps the purchasing receipt as a proof. Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

#### **2, Clarification of Two(2)-Year Limited Warranty or One(1)-Year Limited Warranty**

- ✓ Two(2)-Year Limited Warranty: For household use, from the original date of purchase, the warranty is clocked and the parts and repairing labor will be free in the 1st year, and parts only will be free in the 2nd year.  
If the product is used for commercial or industrial purpose, including but not limited to be used in commercial or industrial site, rental and any other types of income earning, the original Two(2)-Year Warranty will be expired and becomes Ninety(90) days instead, the parts will be free during this period.
- ✓ One(1)-Year Limited Warranty (Apply to GPD1500, GN1750D): For household use only, from the original date of purchase, the warranty is clocked and the parts will be free in the 1st year.  
If the product is used for commercial or industrial purpose, including but not limited to be used in commercial or industrial site, rental and any other types of income earning, the original One(1)-Year Warranty will be expired and becomes Thirty(30) days instead, the parts will be free during this period.

# WARRANTY STATEMENT

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**GPA will provide all parts for replacement in whole lifetime of the product, material cost and transportation cost will apply if it is beyond of warranty period or not covered by the warranty policy.**

### 3, Repair/Replacement Warranty

GPA warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of the 1st year from the original date of purchase for Two(2)-Year Warranty items household use. Parts are always free during warranty period. Transportation charges for the unit repair or replacement under this warranty will be sole responsibility of the consumer. This warranty only applies to the original purchaser only and is not transferable.

Contact GPA's Service Center and GPA will troubleshoot any issue via phone (Toll-Free: 888-834-4218) or e-mail ([service@green-poweramerica.com](mailto:service@green-poweramerica.com)). If the issue is not fixed, GPA will, at its option, authorize evaluation, repair or replacement of the defective parts or components at a GPA Service Center. GPA will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

### 4, Return Policy and Procedure

#### ✓ Defective Return

If the defective unit can not be repaired by the authorized repair center and the unit was within one (1) year, GPA will make a decision, on GPA sole options, either replace it with an equivalent or return it to GPA and consumer will get refund. The refund amount will be determined by the used time as below:

- Within thirty (30) days from the original purchasing date, full amount will be refunded.
- For Two(2)-Year Warranty items household use only, from thirty-one (31 days) but within one (1) year from the original purchasing date, the refund proportion will be determined by 100% minuses its actual using months divided by twelve (12).

Formula: Refund Proportion =  $100\% - \text{number of used month} / 12 * 100\%$

#### ✓ Remorse Return

If consumer wants to return due to consumer's mind changing or any other non-quality reason, which is called **Remorse Return**, and the unit is in its original packing condition or consumer opened the original package but never fill the fuel and/or oil into the unit,

## WARRANTY STATEMENT

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and the unit could be repacked properly, within thirty (30) days from the original purchasing date, GPA will provide a Return Goods Authorization number (RGA #) to the retailer to accept the return for refund. Consumer will pay the return freight and 15% of the retail price (excluding tax) for re-stock fee. The consumer should contact the retailer with GPA's RGA# and will get remaining amount refunded after the return is received by GPA. The return address will be noted by GPA when the RGA# is provided.

### **Attention please:**

**Do Not Return The Unit To The Place Of Purchase even** unless the retailer / distributor has a certain agreement with GPA in written.

**All refund will be issued in terms of Credit Memo (CM) to the retailer/distributor, and the consumer will get refund from the original store.**

### **5, Warranty Exclusions**

This warranty does not cover the following repairs and equipment:

✓ Normal Wear and Tear

Products with mechanical and electrical components need periodic parts and service to perform well, including but not limited, filter elements, o-rings, spark plug, rubber mounts, etc. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

✓ Installation, Use and Maintenance

--This warranty will not apply to parts and/or any labor of installation.

--This warranty will not apply to parts and/or any labor if the product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the product's limits, modified, installed improperly or connected incorrectly to any electrical component.

--Normal maintenance is not covered by this warranty and is not required to be performed at a facility or by a person authorized by GPA.

\* Except as otherwise stipulated in any of the following enclosed Emission Control System Warranties (if applicable) for the Emission Control System: U.S. Environment Protection Agency (EPA), California Air Resources Board (CARB) and/or Environment Canada (EC).

✓ Other Exclusions

This warranty excludes:

–Cosmetic defects such as paint, decals, etc.

–Accessory parts such as starting batteries, tools and storage covers.

## WARRANTY STATEMENT

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- Failures due to acts of God and other force majeure events which beyond the manufacturer's control.
- Problems caused by parts that are not original Green-Power America (GPA) parts.

When applicable, this warranty does not apply to products used for prime power in place of a utility.

### **6, Limits of Implied Warranty and Consequential Damage**

Green-Power America (GPA) disclaims any obligation to cover any loss of time, freight, or any incidental or consequential claim by anyone due to using this generator. **THIS WARRANTY AND THE ATTACHED U.S. EPA, CARB and/or EC EMISSION CONTROL SYSTEM WARRANTIES (IF APPLICABLE) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

A unit provided as a replacement will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

**This warranty gives you certain legal rights which may change from State to State. Your State may also have other rights you may be entitled to that are not listed within this warranty.**

### **Contact Information**

[www.green-poweramerica.com](http://www.green-poweramerica.com)

Customer Service

Mon – Fri 8:00 AM – 5:00 PM (EST)

**Toll Free:** 1-888-834-4218

**Service Email:** [service@green-poweramerica.com](mailto:service@green-poweramerica.com)

## GENERATOR IDENTIFICATION

If assistance for information or service is required, please contact the Customer Service Help Line by calling 888-834-4218 ; 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: \_\_\_\_\_

GENERATOR MODEL NUMBER: \_\_\_\_\_

ENGINE SERIAL NUMBER: \_\_\_\_\_



Serial Number

## SERVICE RECORD

Record Service Dates:

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

NOTE: WE SUGGEST RUNNING YOUR GENERATOR AT LEAST ONCE A MONTH IN ORDER TO MAXIMIZE THE LIFESPAN OF THE GENERATOR.

# INTRODUCTION

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Thank you for purchasing a GREEN-POWER AMERICA Generator. This manual provides information regarding the safe operation and maintenance of this product. Every effort has been made to ensure the accuracy of the information in this manual. GREEN-POWER AMERICA reserves the right to change this product, manual and specifications at any time without prior notice.

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



This manual contains special messages to bring attention to potential safety concerns 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 888-834-4218

## NOTICE REGARDING EMISSIONS

Engines that are certified to comply with U.S. CARB 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

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Before operating this generator read and observe all warnings, cautions, and instructions both on the generator and in this owner's manual.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur.

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



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

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

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

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

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



## SAFETY INFORMATION

For any questions regarding the hazard and safety notices listed in this manual or on the product, please call 888-834-4218 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.

### **GENERATOR SAFETY RULES:**

- 1) Do not operate near open flame.
- 2) Do not smoke near generator.
- 3) Always operate on a firm, level surface.
- 4) 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.
- 5) Do not overfill fuel tank. Gasoline may expand during operation. Do not fill to the top of the tank. Allow for expansion.
- 6) Always check for spilled fuel before operating.
- 7) Empty fuel tank before storing or transporting the generator.
- 8) Do not use in rainy conditions.
- 9) **ALWAYS** ground the generator before using it (see the "Ground the Generator" portion of the "Generator Preparation" section).
- 10) Generator should only be plugged into electrical devices, either directly or with an extension cord. **NEVER** connect 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.
- 11) 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.
- 12) Do not touch bare wires or receptacles (outlets).
- 13) Do not allow children or non-qualified persons to operate the generator.

# SAFETY INFORMATION

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## GENERATOR SAFETY RULES (CONTINUED):

- 14) Do not touch hot surfaces. Pay attention to warning labels on the generator identifying hot parts of the machine.
- 15) Allow generator to cool down after use before touching engine or areas of the generator that become hot during use.
- 16) Only use generator for its intended purposes.
- 17) Operate only on dry, level surfaces.
- 18) Allow generator to run for several minutes before connecting electrical devices.
- 19) Shut off and disconnect any malfunctioning devices from generator.
- 20) Do not exceed the wattage capacity of the generator by plugging in more electrical devices than the unit can handle.
- 21) Do not turn on electrical devices until after they are connected to the generator.
- 22) Turn off all connected electrical devices before stopping the generator.
- 23) Turn the engine switch to "OFF" position when the engine is not running.

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



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

**SAVE THESE INSTRUCTIONS** - This manual contains important instructions for the GREEN-POWER AMERICA generator that should be followed during installation and maintenance of the generator.

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

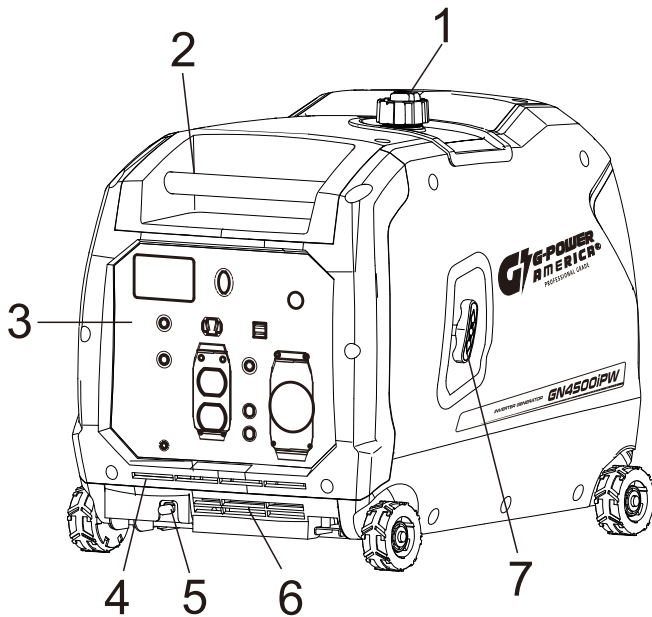
For power outages, permanently installed stationary generators are better suited for providing backup power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing of the components, possibly leading to a generator failure.



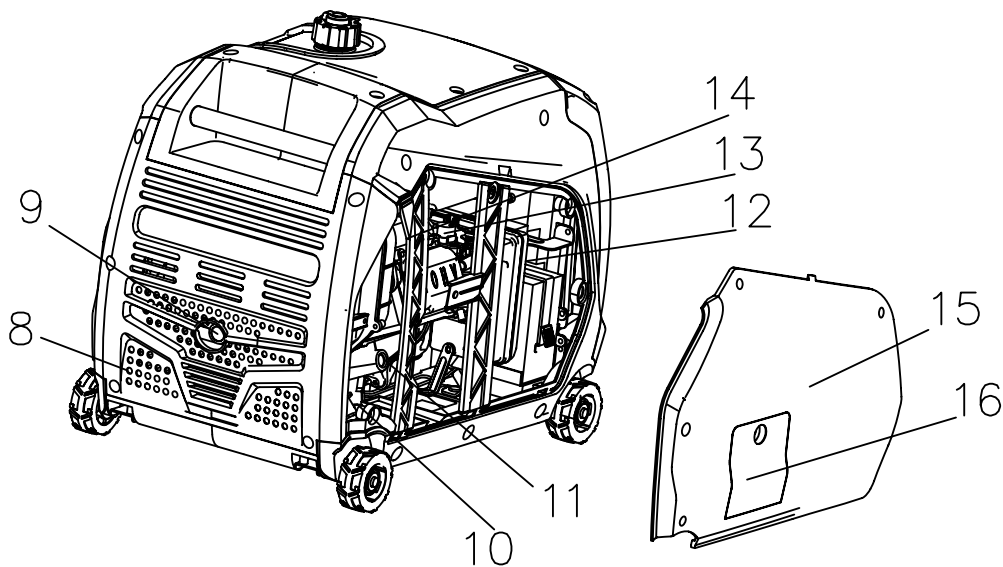
**WARNING:** If this generator is used as a supply for a building's wiring system, the generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with the National Electrical Code, NFPA 70. The generator shall be connected to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

## GENERATOR COMPONENTS

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

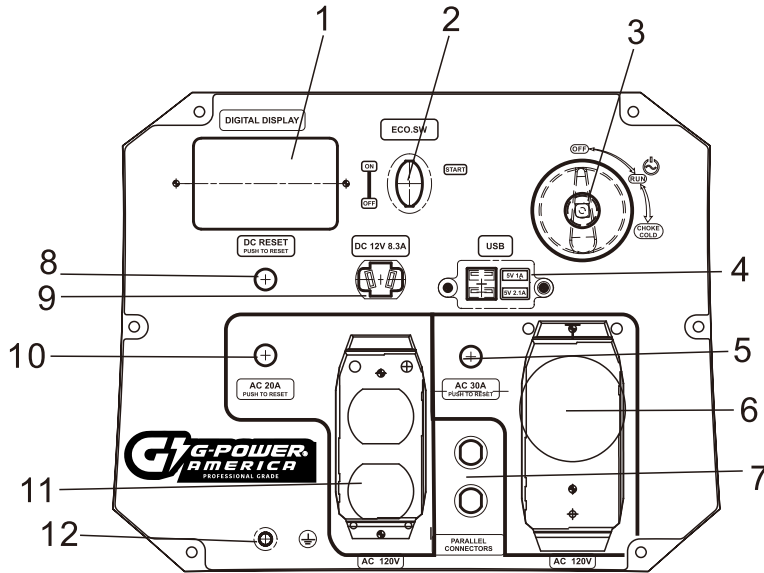


- (1) Fuel tank cap
- (2) Handle
- (3) Control panel assembly
- (4) Battery
- (5) Brake handle
- (6) Inverter assembly
- (7) Recoil starter
- (8) Air breather
- (9) Muffler
- (10) Oil drain plug
- (11) Engine oil dipstick
- (12) Air filter
- (13) Carburetor
- (14) Spark plug
- (15) Service cover
- (16) Engine oil observation window



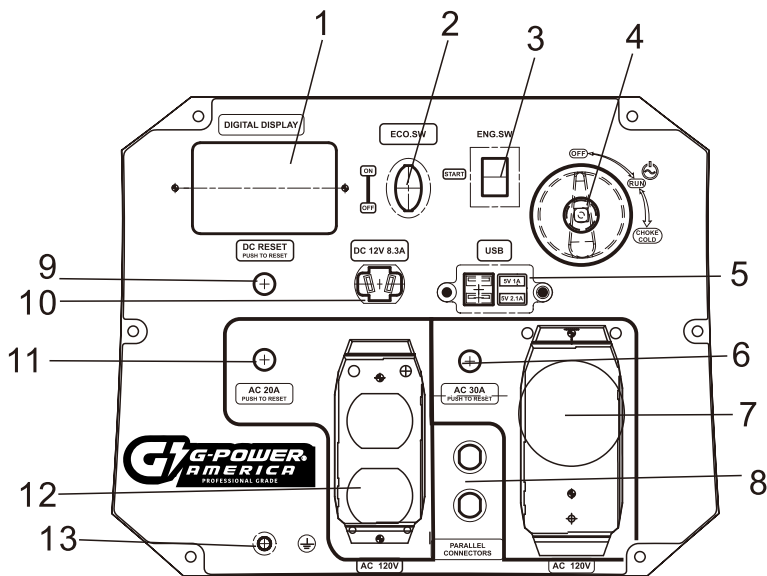
## GENERATOR COMPONENTS

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



**Panel for GN4500iPW**

- (1) Digital display
- (2) ECO.SW
- (3) 3-in-1 combination switch
- (4) USB 5V
- (5) AC Protector 30A
- (6) AC Socket 120V
- (7) Parallel connectors
- (8) DC Reset
- (9) DC Socket 12V 8.3A
- (10) AC Protector 20A
- (11) AC Socket 120V
- (12) Ground terminal



**Panel for GN4500iePW**

- (1) Digital display
- (2) ECO.SW
- (3) Engine switch
- (4) 3-in-1 combination switch
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- (6) AC Protector 30A
- (7) AC Socket 120V
- (8) Parallel connectors
- (9) DC Reset
- (10) DC Socket 12V 8.3A
- (11) AC Protector 20A
- (12) AC Socket 120V
- (13) Ground terminal

# GENERATOR PREPARATION

## USING THE GENERATOR FOR THE FIRST TIME

**CAUTION:** The following section describes the necessary steps to prepare the generator for use. If after reading this section, you are unsure about how to perform any of the steps please call 888-834-4218 for customer service. Failure to perform these steps properly can damage the generator or shorten its life.

### STEP 1 - ADD 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 0.58 quarts (0.55 liters). For general use (above 40° F), we recommend 30W, 4-stroke engine oil.

To add oil, follow these steps:

Note: make sure the generator is on a level surface. Tilting the generator to assist in filling will cause oil to flow into the engine areas and will cause damage. Keep the generator level!

1. Remove the side cover of the generator that features the small oil label on it (same side as recoil starter) using a screwdriver.
2. Remove the dipstick from the engine (Fig. 2).
3. Add oil slowly, being careful not to overfill the unit. Fill the crank case to the upper fill line so the oil lands about halfway up the dipstick threads (Fig. 2).
4. To check the oil level, wipe the dipstick with a clean rag. Insert the dipstick into the oil fill opening without screwing it in. Remove the dipstick to check the oil mark.
5. Slowly add more oil and repeat step 4 until the oil mark reaches to the top of the dipstick (Fig. 2). Do not overfill the crankcase. The generator is equipped with a low-oil sensor and will not start without a sufficient amount of oil.

6. Check for oil leaks and firmly tighten the dipstick. Replace the side panel upon completion.

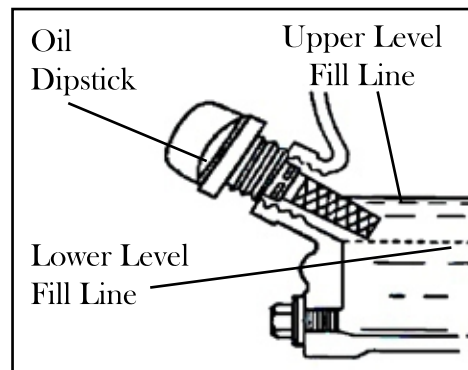
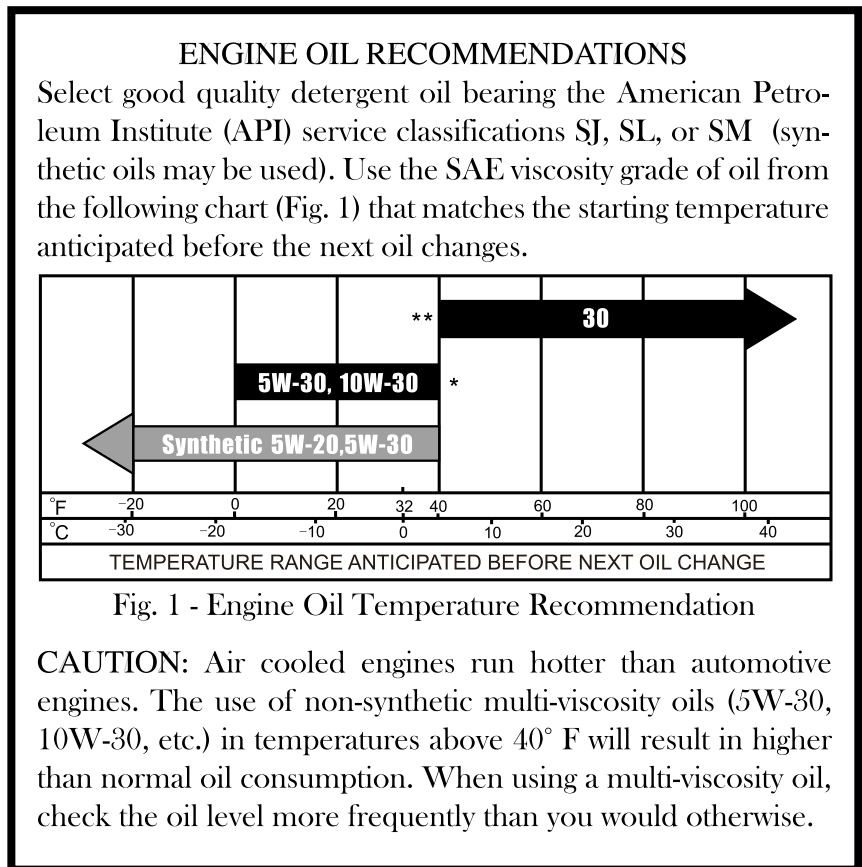


Fig. 2 - Oil Fill Opening, Dipstick and Oil Level

# GENERATOR PREPARATION



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

## Step 2 - ADD GASOLINE

Use fresh (within 30 days from purchase), lead-free gasoline with a minimum of 87 octane rating. Do not mix oil with gasoline.

To add gasoline, follow these steps:

1. Make sure the generator is on a level surface.
2. Unscrew fuel cap and set aside.

**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 1.85 gallons.

**NOTE:** Do not fill the fuel tank to the very top. Gasoline will expand and spill over during use even with the fuel cap in place.

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

## STEP 3 - GROUND THE GENERATOR

Ground the generator by tightening the grounding nut on the front control panel against a grounding wire (Fig. 3). 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.

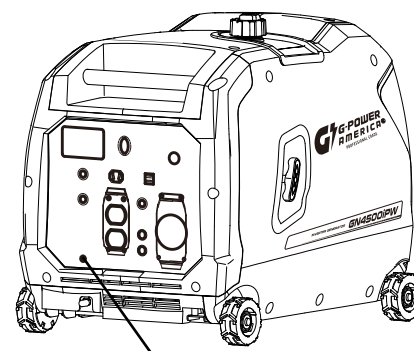
Grounding codes can vary by location. Contact a local electrician to check the area codes.

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

### IMPORTANT:

- Never use an oil/gasoline mixture.
- Never use old gasoline.
- Avoid getting dirt or water into the fuel tank.
- Gasoline can age in the tank and make starting difficult. Never store generator for extended periods of time with fuel in the tank.

Fig. 3



Grounding Nut



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

## 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 888-834-4218 for customer service.



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

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

Generator should only be plugged into electrical devices, either directly or with an extension cord. **NEVER** connect to a building electrical system without a qualified electrician. Such connections must comply with local electrical laws and codes. Failure to comply can create a back-feed, which may result in serious injury or death to utility workers.

Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.

Do not use in rainy or wet conditions. Do not touch bare wires or receptacles (outlets). Do not allow children or non-qualified persons to operate.

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

# STARTING THE GENERATOR

## STARTING THE ENGINE (FIG. 4)

To start the generator, perform the following steps:

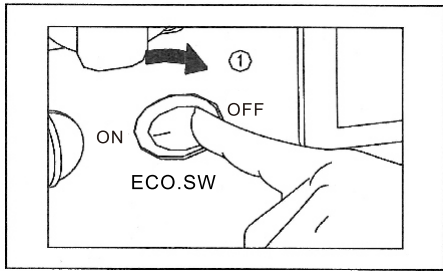


Fig. 4A

1. Unplug all electrical devices from the generator during starting. Otherwise it can be difficult to start the engine.

2. To maximize safety, make sure the generator is properly grounded (Refer to “Ground the Generator”).

3. Check the oil and fuel levels.

4. Put the ECO. switch to “OFF” position (Fig. 4A)

5. Combination switch to “CHOKE” position.

A. open the fuel

B. open the ignition system

C. Choke closed

Notice: If start generator when the engine is hot, do not close choke Put the combined switch to “ON” position (Fig. 4B).

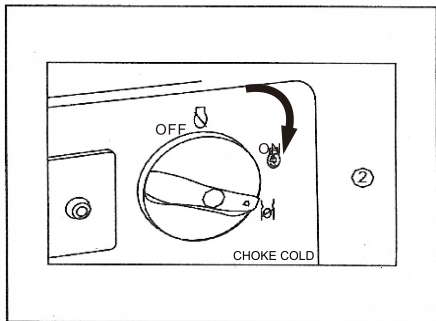


Fig. 4B

## 6. Electric start-GN4500iePW

Press the button on the control panel to “ON” position.

If generator is electrical

start, when press the button to position, the generator will start. In order to lengthen the life of generator, every time when press the button do not over 3 seconds. And the interval time should be more than 10 seconds between two start. (Fig. 4C)

## Recoil start-GN4500iPW

Pull the starting handle slightly first. When you feel the recoil force, pull the starting handle forceful. (Fig. 4D)

**Notice:** Hold the handle of inverter generator when pull the starting handle. It is to prevent the generator tip-off.

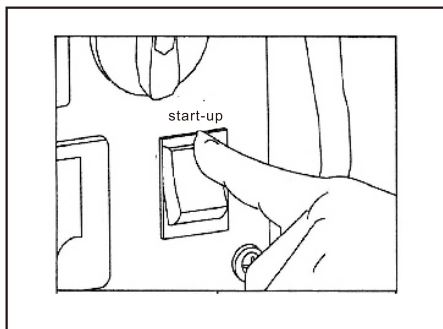


Fig. 4C

## ECO-MODE IDLE SWITCH

This generator is equipped with an Eco-Mode Idle Control Switch. Engaging the switch automatically adjusts the engine to match the 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. Keep this switch engaged when the power load requirement is less than 1000W. Do not engage the Idle Control Switch when the total load is more than 1000W. The generator engine must run at full speed to supply power for anything over 1000W. (Fig. 4E)

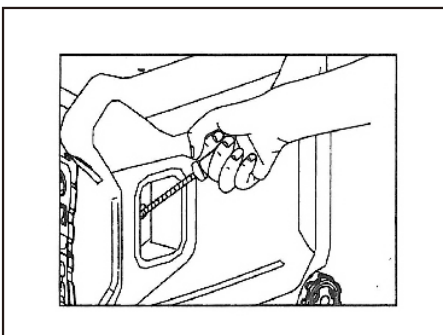


Fig. 4D

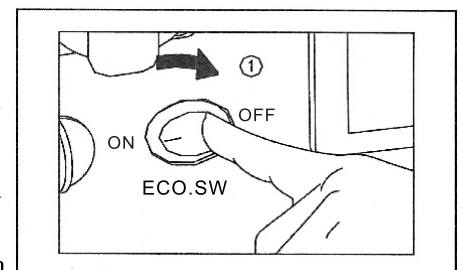


Fig. 4E



## STARTING THE GENERATOR

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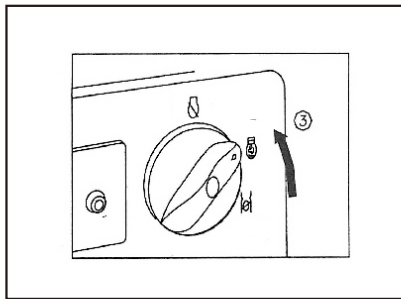


Fig. 4F

7. Preheat the generator and then put the combination switch to on position.

Notice:

When start the generator, if the ESC switch is on "O" position, generator cannot connect any load.

When the environment temperature is lower than ( 32F), the RPM of engine is 3600 rpm, preheat time is 5 mins. When environment temperature is lower than 5 C (41F), the RPM of engine is 3600 rpm, preheat time is 3 mins. After running above mentioned preheat time, generator can work when ESC switch is on "ON" position.(Fig. 4F)

## STOPPING THE GENERATOR

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### TO STOP THE GENERATOR

1. Turn off all electrical devices prior to unplugging them from the generator. Unplugging running devices can cause damage to the generator. (Fig. 4G)

2. Push the button to the OFF position, turn the knob to OFF position. (Fig. 4H)

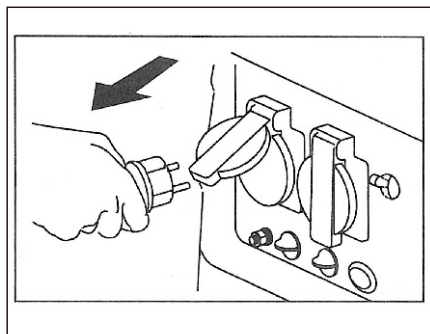


Fig. 4G

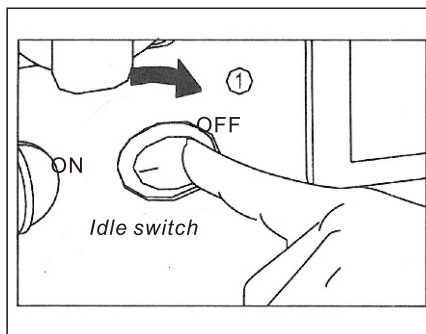


Fig. 4H

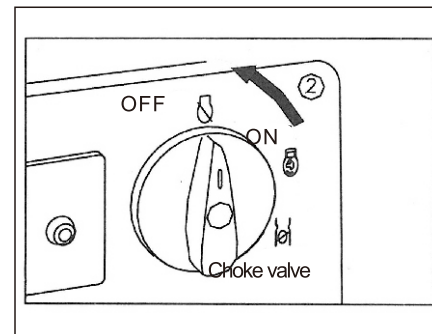


Fig. 4H

# STOPPING THE GENERATOR

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

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

## SUBSEQUENT STARTING OF THE GENERATOR

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If this is not the first time using the generator, the user should take the following steps to prepare it for operation.

**IMPORTANT:** At this point the user should be familiar with the procedures described in the sections titled “Starting the Generator” and “Generator Preparation.” If the user has not yet read these sections, go back and read them now.

### **Step 1 - CHECK THE OIL**

Oil consumption is normal during generator use. The generator is equipped with a low oil pressure shutoff to protect it from damage. The oil level of the engine should be checked before each use to ensure that the engine crankcase contains sufficient lubricant.

To check or add oil, follow these steps:

1. Make sure the generator is on a level surface. Access the oil dipstick by removing the side panel’s oil cover using a coin.
2. Remove the oil filler/dipstick cap and check the oil level.
3. If oil level is below the second thread from the lip of the oil fill opening, slowly add oil until the engine crankcase is filled.
4. Reinstall and tighten oil cap before starting the engine.

#### **IMPORTANT:**

- Use only **UNLEADED** gasoline.
- Do not use old gasoline.
- Never use an oil/gasoline mixture.
- Avoid getting dirt or water into the fuel tank.

### **Step 2 - CHECK THE FUEL LEVEL**

Before starting the generator, check to see that there is sufficient gasoline in the fuel tank. Add additional gasoline as necessary but leave sufficient room in the tank for expansion.

## SUBSEQUENT STARTING OF THE GENERATOR

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### Step 3 - GROUND THE GENERATOR



**WARNING:** Failure to properly ground the generator increases the chances of electric shock.

Ground the generator by tightening the grounding nut on the front control panel against a grounding wire (Fig. 3). 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 rod are not included in generator contents. Grounding codes can vary by location. Contact a local electrician for area codes.

## USING THE GENERATOR

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

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

Connect electrical devices running on AC current according to their wattage requirements. The chart in Figure 5 shows the rated and surge wattage of the generator.

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

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

Item	Running wattage	Starting wattage
GN4500iPW	3600w	4500w
GN4500iePW	3600w	4500w

Fig. 5 - Generator Wattage

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

$$\text{Watts} = \text{Volts} \times \text{Amperes}$$

**NOTE: WE SUGGEST RUNNING YOUR GENERATOR AT LEAST ONCE A MONTH IN ORDER TO MAXIMIZE THE LIFESPAN OF THE GENERATOR.**

## USING THE GENERATOR

If the electrical specifications are not available for your electronic devices, estimate the watts requirement of the device by using the chart in Figure 6.

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

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

Fig. 6 - Estimated wattage requirements of common electrical devices	Tool or Appliance	Rated (Running) Watts	ADDITIONAL SURGE WATTS
	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

Note: The above wattage figures are estimates. Check the wattage listed on the electrical device before consulting this chart. Once the electrical devices have been chosen, connect them according to the following procedure:

1. Plug in each electrical device, making sure that the device is turned off.
2. Check the overload light and power indicator light. If the overload light is on, unplug the electronics, then re-start the generator before plugging the load back in. If the reset button 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.

## USING THE GENERATOR

---

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

### SOME NOTES ABOUT POWER CORDS

Long or thin cords can drain the power provided to an electrical device by the generator. When using such cords, allow for a slightly higher rated wattage requirement by the electrical device. See Figure 7 for recommended cords based on the power requirement of the electrical device.

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

\*NR = Not Recommended

Fig. 7 - Maximum Extension Cord Lengths by Power Requirement

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

## MAINTENANCE/CARE

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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 8.

If there are any questions about the maintenance procedures listed in this manual, please call 888-834-4218

**CAUTION:** Never perform maintenance operations while the generator is running.

Schedule of regular maintenance		Each time of use	20 h or the first month of first-time use(3)	50 h or every 3 months (3)	100 h or every 6 months(3)	300 h or every year(3)
Engine oil	Check oil level	○				
	Change		○		○	
Air filter	Check	○				
	Clean			○ (1)		
Spark arrester	Clean					
Spark plug	Clean				○	Change
Valve clearance	Readjust					○ (2)
Cylinder head	Wash	Every 300h (2)				
Fuel tank and strainer	Wash	Every 2 years (2)				

## MAINTENANCE/CARE

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Fuel tube	Change	Every 2 years (2)
Cylinder head, piston	Remove carbon deposit	Every 125 hours
These maintenance items should be performed by a dealer authorized by the company unless the user has appropriate tools and maintenance capacities		

Fig. 8 - Recommended maintenance schedule

- \* Clean/change more often under dusty conditions or operating under heavy load.
- \* These items are to be performed by an authorized distributor
- \* In case the generator is used frequently, the maintenance intervals above shall be abided by to ensure the generator's long service.

# MAINTENANCE

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## CLEANING THE GENERATOR

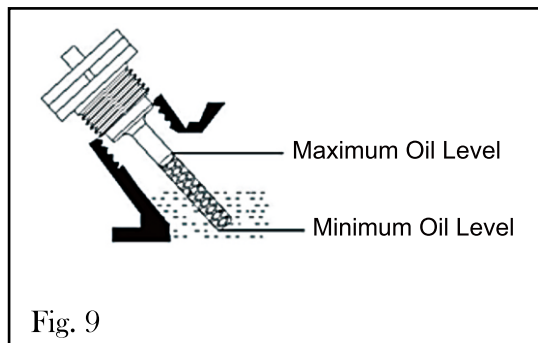
Never clean the generator when it is running! Never clean with a bucket of water or a hose. Water can get inside the working parts of the generator and cause corrosion or a short circuit.

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

## CHECKING THE OIL

Check the oil level of the generator according to the Recommended Maintenance Schedule in Fig. 9. The generator is equipped with an automatic shutoff to protect it from running on low oil. The generator should be checked before each use for proper oil level. This is a critical step for proper engine starting. To check the oil level:

1. Make sure the generator is on a level surface.
2. Open the side panel that features the small oil fill label on it (same side as recoil starter) using a screwdriver. Clean around the oil fill. Remove dipstick and wipe the dipstick with a clean rag. 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.
3. Slowly add more oil and repeat step 2 until the oil mark reaches to the top of dipstick (Fig. 10). Do not over fill the crankcase.
4. Reinstall oil dipstick and side panel.



## MAINTENANCE & CARE

### CHANGING/ADDING OIL

Change the oil according to the Recommended Maintenance Schedule in Figure 9. Change the oil when the engine is warm. This will allow for complete drainage. Change 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. The oil capacity of the generator engine is 0.58 qts. 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.

1. Place generator on elevated platform such as table or desk. Put a container next to it to hold the used oil. Turn the vacuum relief valve to “OFF” position.

2. Unscrew the dipstick from the engine and set aside.

3. Tilt the generator so the used oil flows from the engine into the container. Tilt some more to ensure all oil is out of the crankcase.

4. Fill the crankcase with fresh oil and reinstall the dipstick. Clean any oil spillage before closing the side panel.

To refill the crankcase with oil, follow these steps:

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

2. Remove the dipstick from the engine.

3. Using a funnel or appropriate dispenser, add the correct amount of oil into the crankcase. The engine is equipped with a low oil pressure sensor and will not start if the amount of oil is insufficient.

4. Reinstall dipstick.

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 oil disposal.

### AIR CLEANER MAINTENANCE

Routine maintenance of the air cleaner helps maintain proper airflow to the carburetor. Occasionally check that the air cleaner is free of excessive dirt. Refer to Recommended Maintenance Schedule in Figure 8.

1. Remove the side panel opposite of the recoil starter by unscrewing the screws around the outside edge.

2. Take the cover off of the air cleaner assembly by unscrewing the middle screw in order access the foam air cleaner assembly (Fig. 10).

3. Check and clean the foam air cleaner element. Replace with a new one if the element is damaged. Good elements can be washed in soapy water, dried and reused. There is no need to add oil to the element. Wipe off excessive oil from the air cleaner case. Small amount of oil in the element is normal and necessary for the engine to work properly.

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

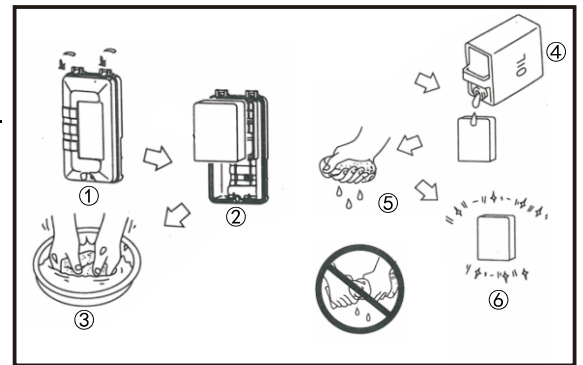


Fig. 10

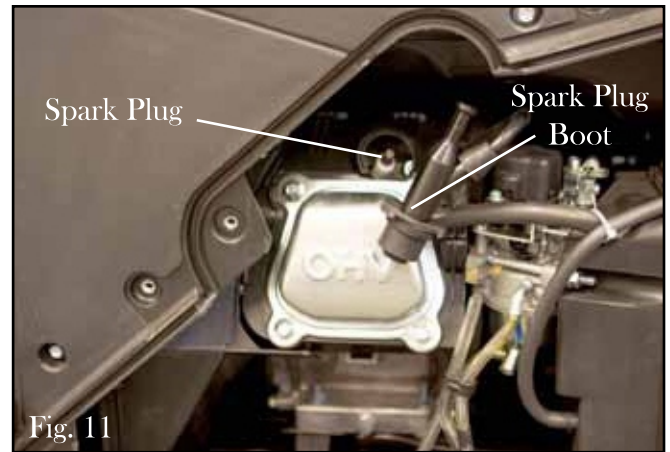


## MAINTENANCE & CARE

### SPARK PLUG MAINTENANCE (Fig. 11)

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 8. To inspect the spark plug:

1. Remove side panel.
2. Remove spark plug boot. Be careful not to tear insulation or wire.
3. Unscrew the spark plug from the engine using the spark plug wrench provided. There is limited space for the wrench to turn. Use both rows of holes in the spark plug wrench to gain leverage to loosen the plug.
4. Visually inspect the spark plug for cracks or excessive electrode wear. Replace as necessary.
5. Measure the plug gap with a wire gauge. The gap should be 0.6 - 0.7 mm (0.024 - 0.028 in).
6. 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.
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  $\frac{1}{2}$  to  $\frac{3}{4}$  of a turn after spark plug gasket contacts spark plug hole. Reinstall the spark plug boot and control panel.

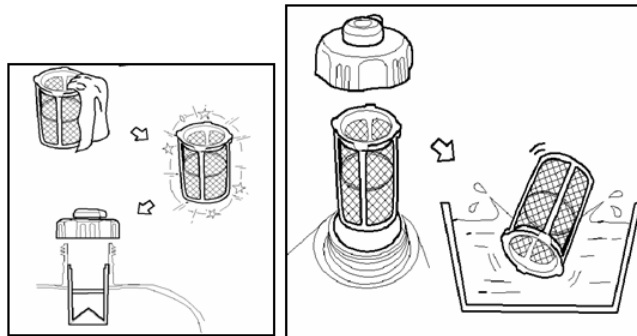


### DRAINING THE FUEL TANK

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

1. Remove the fuel cap; carefully turn the generator over to pour the gasoline in the fuel tank to appropriate container.
2. Start generator without any device connected to it until it stops. This burns out the fuel in the carburetor and fuel line.
3. Store the emptied gasoline in a suitable place.

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



## STORAGE & TRANSPORT PROCEDURES

---

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

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

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

When transporting generator:

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

## SPECIFICATIONS

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### DC output

Rated Voltage	12 VDC
Rated Amperage	8.3 A
Rated Wattage	100 W
USB Charger	5V, 1 A & 2.1 A

### AC output

Running Wattage	3600 Watts
Starting Wattage	4500 Watts
Rated Voltage	120 V
Rated Amperage	30 A
Frequency	60 Hz
Phase	Single
Dimensions	27.4x20.7x23.8 inch
Weight (GN4500iPW/GN4500iePW)	42kg/46 kg

### Engine

Engine type	4 stroke, OHV, single cylinder with forced air cooling system
Spark plug gap	0.6 - 0.7 mm (0.024 - 0.028 in)
Spark plug torque	1/2 - 3/4 turn after gasket contacts base or 15 ft.lb
Displacement	212 cc
Fuel tank capacity	2.6 Gal
Oil capacity	1.27PT
Run time on 50% load	Round to 8hrs

# TROUBLESHOOTING

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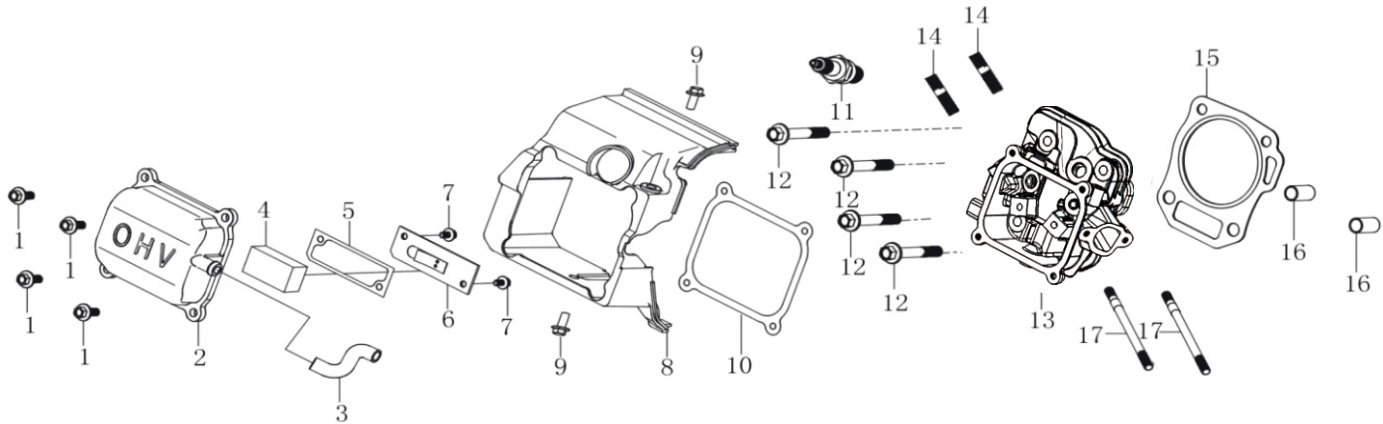
**IMPORTANT:** If trouble persists, please call our customer help line at 888-834-4218 Central Time.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Engine will not start	Engine switch in "OFF" position	Set engine switch to "CHOKE" position.
	Engine is filled with contaminated or old fuel	Change the fuel in the tank.
	Not enough oil in crankcase	Add or replace oil.
	Air cleaner is dirty.	Clean or replace air cleaner.
	Spark plug is dirty.	Clean spark plug.
	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level surface to prevent low oil shutdown from triggering.
	Engine needs maintenance	Get a professional engine tune-up at an authorized small engine repair shop
Generator was tilted when adding oil, or shipped side-down	Remove spark plugs, turn off engine switch then pull recoil starter four times to remove oil form the combustion chamber.	
Engine stops	Not enough oil in crankcase	Add or change oil
	Engine is out of fuel	Add fuel.
Blue smoke in exhaust	Generator inclined, oil entered combustion chamber	Move generator to a level position
	Too much oil was added to the crankcase.	Drain excessive oil.
Generator runs but does not support all electrical devices connected.	Bad connecting wires/cables.	If using an extension cord, try a different one.
	Bad electrical device connected to generator.	Try connecting a different device
	Generator is overloaded, Overload light is on	Perform these steps: 1. Turn off all electrical devices. 2. Unplug all electrical devices. 3. Shut down the engine. 4. Wait several minutes and then start the engine. 5. Try connecting fewer electrical loads to the generator.
	Short in one of the connected devices.	Try disconnecting any faulty or short-circuited electrical loads.

**NOTE: WE SUGGEST RUNNING YOUR GENERATOR AT LEAST ONCE A MONTH IN ORDER TO MAXIMIZE THE LIFESPAN OF THE GENERATOR.**

# EXPLODED VIEW AND PARTS LIST

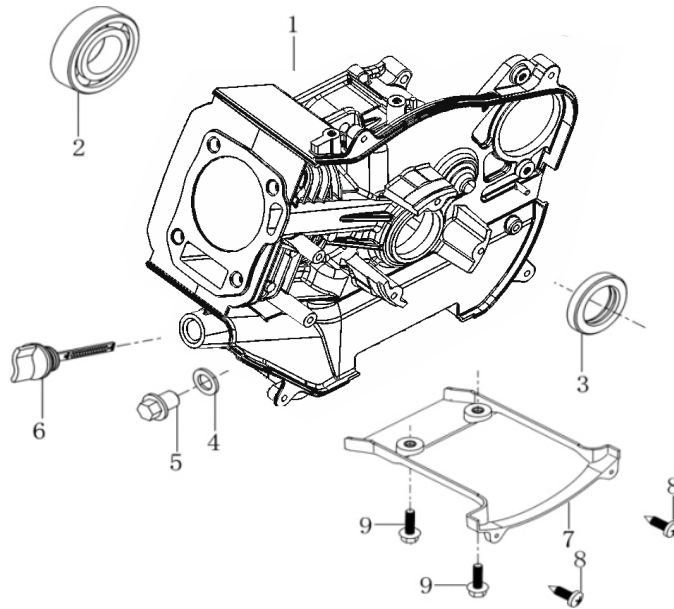
## FIG. 1 CYLINDER HEAD



Item	Stock #	Description	Qty
Fig. 1-1	5787.06020.00.01	BOLT ,FLANGE M6X20	4
Fig. 1-2	T70.0001.001.00.01	COVER , HEAD	1
Fig. 1-3	T70.2370.001.00.00	TUBE , BREATHER	1
Fig. 1-4	165.7080.001.00.00	FILTER, HEAD COVER	1
Fig. 1-5	T70.7061.001.00.01	GASKET, CAP, BREATHER	1
Fig. 1-6	T70.7061.001.00.00	CAP, BREATHER CHAMBER	1
Fig. 1-7	5789.05012.00.01	BOLT ,FLANGE M5X12	2
Fig. 1-8	T70.2190.001.00.00	SHROUD COMP	1
Fig. 1-9	5787.06012.00.01	BOLT , FLANGE , 6X12	2
Fig. 1-10	T70.3000.001.00.00	PACKING , HEAD COVER	1
Fig. 1-11	168.2160.004.00.00	PLUG , SPARK	1
Fig. 1-12	5789.08060.00.01	BOLT , FLANGE ,M8X60	4
Fig. 1-13	T70.0010.C01.00.00	HEAD COMP ,CYLINDER	1
Fig. 1-14	0900.08035.00.01	BOLT , STUD , EX. M8X35	2
Fig. 1-15	T70.3020.001.00.00	GASKET , CYLINDER	1
Fig. 1-16	168.3170.002.00.00	PIN,DOWEL10*14	2
Fig. 1-17	0900.06095.00.01	BOLT,STUD,IN M6X95	2

# EXPLODED VIEW AND PARTS LIST

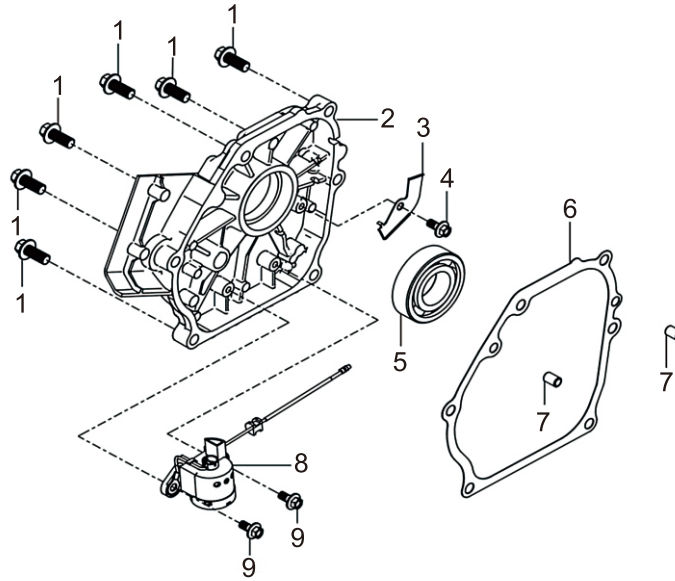
## FIG. 2 CRANKCASE



Item	Stock #	Description	Qty
Fig. 2-1	T70.1000.001.00.00	CRANK CASEBE	1
Fig. 2-2	168.0270.002.00.00	ARING 6205	1
Fig. 2-3	168.3150.001.00.00	OIL SEAL 25×41.25×6	1
Fig. 2-4	168.1260.001.66.00	WASHER,DRAIN PLUG 10×16×1.5	1
Fig. 2-5	168.1250.001.00.20	BOLT ,DRAIN PLUG M10×1.25×15	1
Fig. 2-6	T70.1230.001.16.00	CAP ASSY.	1
Fig. 2-7	T70.2230.001.00.00	WIND GUIDE	1
Fig. 2-8	0845.42013.00.01	SELT THREADING SCREW	2
Fig. 2-9	5789.05012.00.01	SCREW,PAN	2

# EXPLODED VIEW AND PARTS LIST

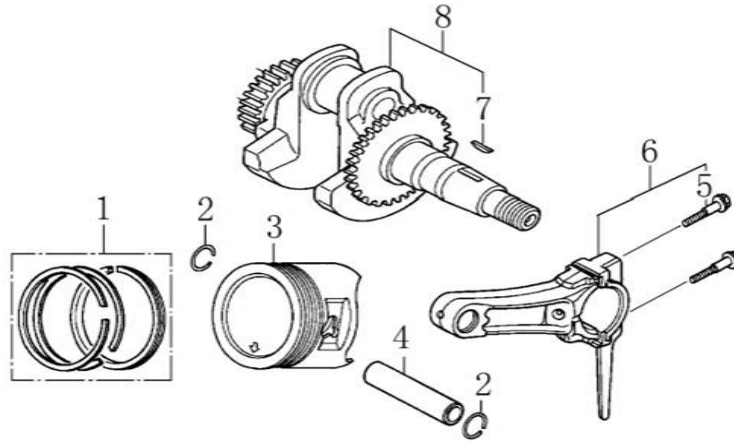
## FIG. 3 CRANKCASE COVER



Item	Stock #	Description	Qty
Fig. 3-1	5787.08030.00.01	BOLT ,FLANGE M8×30	6
Fig. 3-2	T70.1010.001.00.00	COVER ,CRANKCASE	1
Fig. 3-3	T70.2090.001.00.00	PLATE	1
Fig. 3-4	5787.06012.00.01	BOLT , FLANGE M6×12	1
Fig. 3-5	168.0270.002.00.00	BEARING 6205	1
Fig. 3-6	T70.3040.001.00.00	PACKING ,CASE COVER	1
Fig. 3-7	168.3170.001.00.00	PIN ,DOWEL 8×14	2
Fig. 3-8	148.1020.001.00.00	OIL LEVEL SWITCH	1
Fig. 3-9	5787.06014.00.01	BOLT , FLANGE M6×14	2

# EXPLODED VIEW AND PARTS LIST

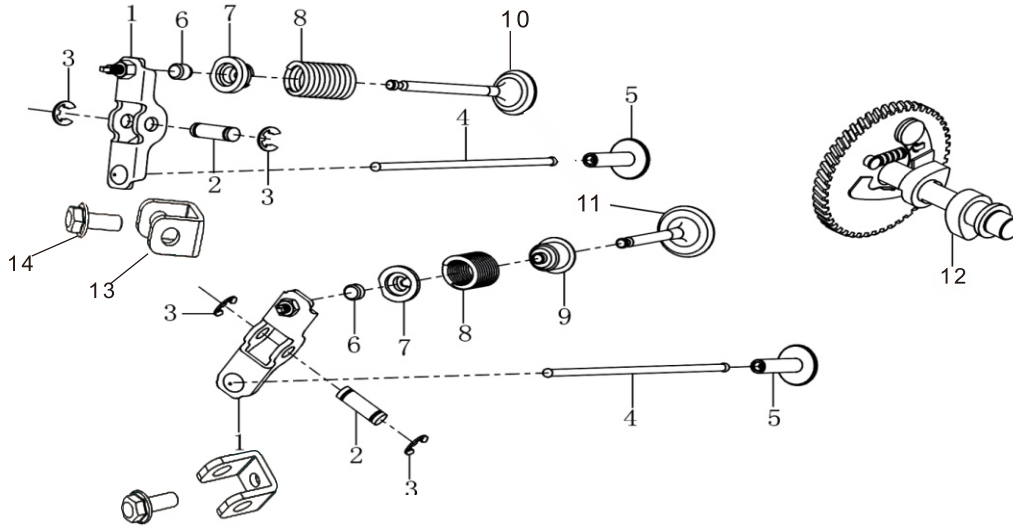
## FIG. 4 CRANKSHAFT/PISTON



Item	Stock #	Description	Qty
Fig. 4-1	T70.0210.001.00.00	RING SET	1
Fig. 4-2	168.0230.001.00.00	CLIP , PISTON PIN	2
Fig. 4-3	T70.0200.001.00.00	PISTON	1
Fig. 4-4	168.0220.001.00.00	PIN , PISTON	1
Fig. 4-5	168.0190.001.00.01	BOLT,CONNECTING ROD	2
Fig. 4-6	168.0190.001.00.00	ROD ASSY ., CONNECTING	1
Fig. 4-7	T70.0180.001.60.01	KEY	1
Fig. 4-8	T70.0180.001.60.00	CRANKSHAFT COMP	1

## EXPLODED VIEW AND PARTS LIST

### FIG. 5 ROCKER,CAMSHAFT

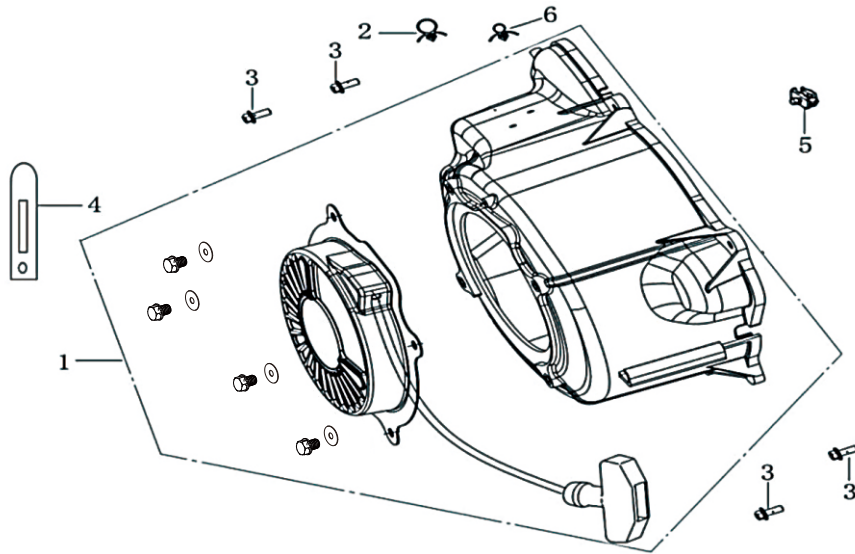


Item	Stock #	Description	Qty
Fig. 5-1	165.0100.001.00.00	ARM COMP.	2
Fig. 5-2	165.0100.001.00.01	VALVE ROCKER SHAFT	2
Fig. 5-3	487.1176.001.00.00	LOCKER	4
Fig. 5-4	165.0160.001.00.00	ROD,PUSH	2
Fig. 5-5	F68.1030.001.00.00	LIFTER VALVE	2
Fig. 5-6	168.0090.001.00.00	CAP,EXHAUST VALVE	2
Fig. 5-7	168.0070.001.00.00	RETAINER, VALVE SPRING	2
Fig. 5-8	165.0040.001.00.00	SPRING , VALVE	2
Fig. 5-9	165.0085.001.00.00	SEAL,GUIDE	1
Fig. 5-10	T70.0030.001.00.00	EXHAUST VALVE	1
Fig. 5-11	T70.0020.001.00.00	INTAKE VALVE	1
Fig. 5-12	F68.1040.001.60.00	CAMSHAFT ASSY.	1
Fig. 5-13	165.0100.001.00.02	ROCKER ARM BRACKET	2
Fig. 5-14	5787.06012.00.01	BOLT ,FLANGE M6×20	2



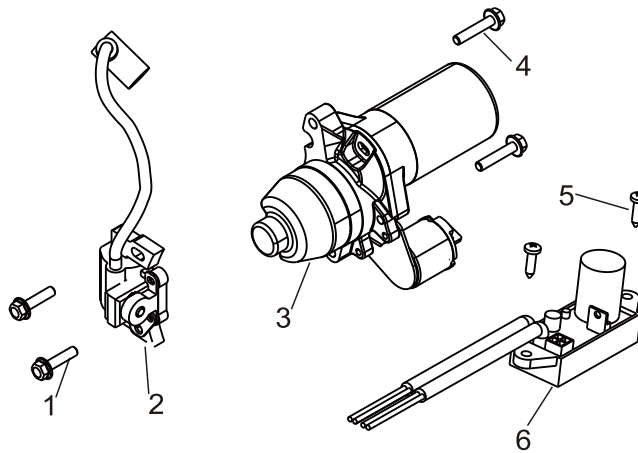
# EXPLODED VIEW AND PARTS LIST

## FIG. 6 STARTER SUBASSEMBLY



Item	Stock #	Description	Qty
Fig. 6-1	T70.2000.001.00.00	COVER COMP., FAN	1
Fig. 6-2	5787.06020.00.01	BOLT ,FLANGE M6×20	4

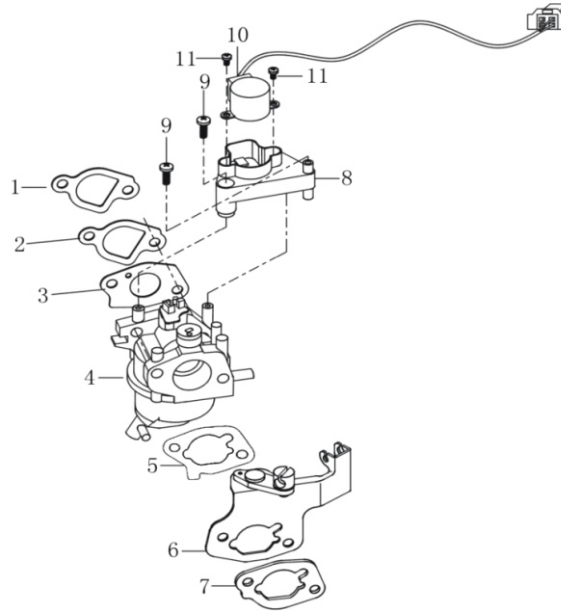
## FIG. 7 IGNITION COMP/STARTER MOTOR.



Item	Stock #	Description	Qty
Fig. 7-1	5787.06025.00.01	BOLT, FLANGE M6×25	2
Fig. 7-2	487.2110.002.00.00	COIL ASSY., IGNITION	1
Fig. 7-3	T70.2070.A01.00.00	STARTER MOTOR (THIS PART JUST FOR GN4500iePW)	1
Fig. 7-4	5787.06030.00.01	BOLT, FLANGE M6×30	2
Fig. 7-5	0845.42016.00.01	SELF TAPPING SCREW ST4.2*16	2
Fig. 7-6	487.2110.003.00.00	LIGHTER	1

# EXPLODED VIEW AND PARTS LIST

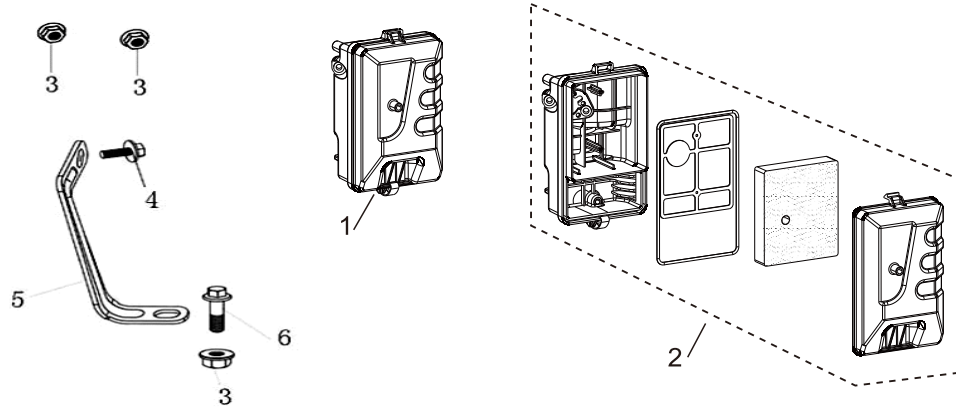
## FIG.8 CARBURETOR



Item	Stock #	Description	Qty
Fig. 8-1	T70.3060.001.00.00	INLET GASKET	1
Fig. 8-2	T70.2300.001.00.00	CARBURETOR BLOCK	1
Fig. 8-3	T70.3080.001.00.00	PACKING ., CARBURETOR	1
Fig. 8-4	T70.2260.001.00.00	CARBURETOR	1
Fig. 8-5	T70.3101.001.00.00	DAMPER BRACKET GASKET	1
Fig. 8-6	T70.3219.001.00.00	BRACKET CHOKE	1
Fig. 8-7	T70.3090.001.00.00	AIR FILTER GASKET	1
Fig. 8-8	487.1531.001.00.00	BRACKET, ELETROMOTOR	1
Fig. 8-9	0818.04010.00.01	SCREW , TAPPING , M4*10	2
Fig. 8-10	T70.4000.001.00.00	SPEED VARIABLE STEPPER MOTOR	1
Fig. 8-11	0818.04008.10.01	SCREW, M4*5(S=6)	2

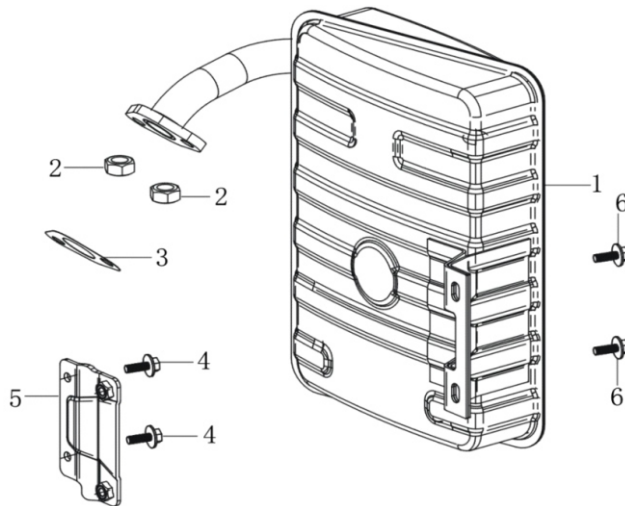
## EXPLODED VIEW AND PARTS LIST

### FIG. 9 AIR CLEANER



Item	Stock #	Description	Qty
Fig. 9-1	T70.2280.001.00.00	AIR CLEANER	1
Fig. 9-2	T70.2280.001.00.01	FILTER, OUTER	1
Fig. 9-3	6177.06000.00.01	NUT, FLANGE	3
Fig. 9-4	5787.06012.00.01	BOLT, FLANGE	1
Fig. 9-5	T70.2290.001.00.00	STAY, AIR CLEANER	1
Fig. 9-6	5787.06012.00.01	BOLT, FLANGE, M6x12	1

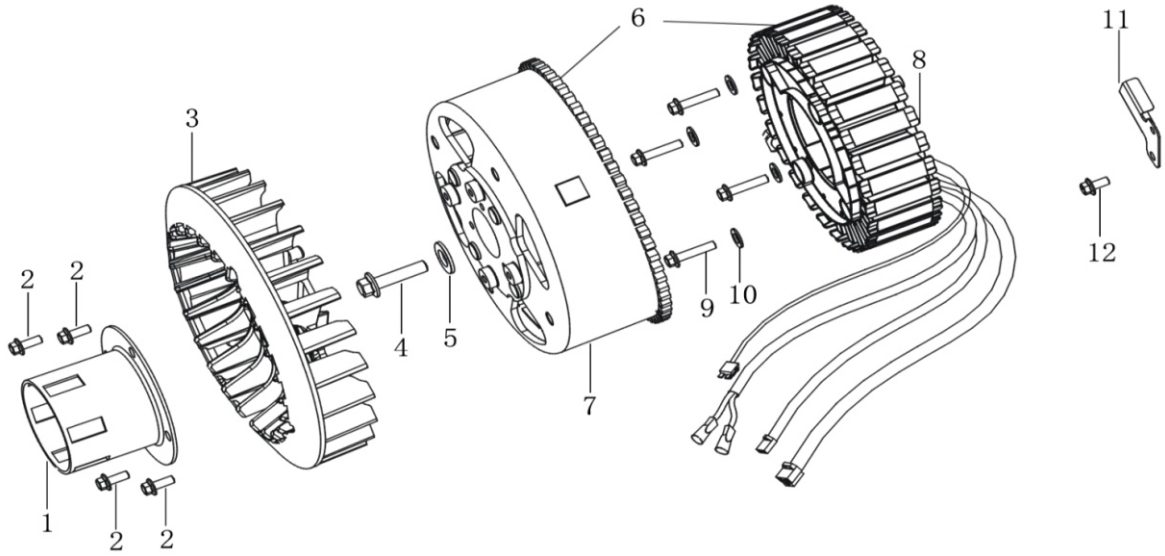
### FIG. 10 MUFFLER



Item	Stock #	Description	Qty
Fig. 10-1	T70.2400.001.00.00	MUFFLER COMP	1
Fig. 10-2	6177.08000.00.01	NUT M8	2
Fig. 10-3	T70.3100.001.00.00	GASKET , MUFFLER	1
Fig. 10-4	5787.06012.00.01	BOLT, FLANGE M6X12	2
Fig. 10-5	T70.2403.001.00.00	MUFFLER BRACKET	1
Fig. 10-6	5787.08014.00.01	BOLT, FLANGE M8*14	2

# EXPLODED VIEW AND PARTS LIST

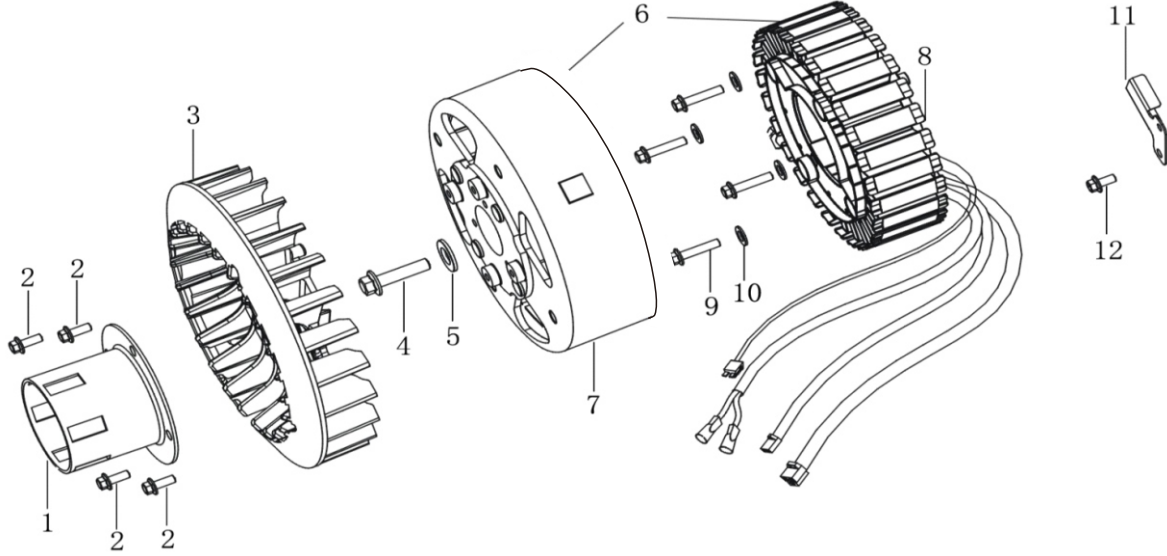
**FIG. 11 ROTOR.STATOR-GN4500iePW**



Item	Stock #	Description	Qty
Fig. 11-1	T70.2020.001.00.00	PULLEY, STARTER	1
Fig. 11-2	5787.06014.00.01	BOLT,FLANGE M6×14	4
Fig. 11-3	T70.2030.001.63.00	MOTOR FAN	1
Fig. 11-4	5787.08030.00.01	BOLT,FLANGE M8×30	1
Fig. 11-5	T70.4100.001.00.00	WASHER 8*34*4	1
Fig. 11-6	487.4000.005.00.00	ALTERNATOR ASSY.	1
Fig. 11-7	487.4000.005.00.01	MOTOR ROTOR	1
Fig. 11-8	487.4000.005.00.02	MOTOR STATOR	1
Fig. 11-9	0070.06050.00.04	INNER SIX ANGLE SCREW	3
Fig. 11-10	0093.06000.00.01	WASHER,SPRING	3
Fig. 11-11	T70.2090.002.00.00	PRESSING LINE PLATE	1
Fig. 11-12	5787.06012.00.01	BOLT, FLANGE 6*12	1

# EXPLODED VIEW AND PARTS LIST

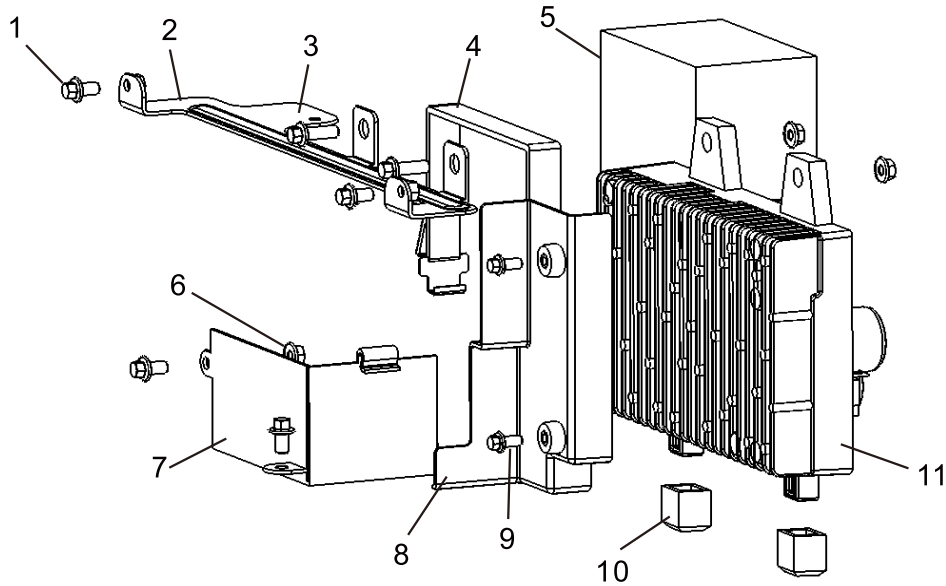
**FIG. 11 ROTOR.STATOR -GN4500iPW**



Item	Stock #	Description	Qty
Fig. 11-1	T70.2020.001.00.00	PULLEY, STARTER	1
Fig. 11-2	5787.06014.00.01	BOLT,FLANGE M6×14	4
Fig. 11-3	T70.2030.001.63.00	MOTOR FAN	1
Fig. 11-4	5787.08030.00.01	BOLT,FLANGE M8×30	1
Fig. 11-5	T70.4100.001.00.00	WASHER 8*34*4	1
Fig. 11-6	487.4000.006.00.00	ALTERNATOR ASSY.	1
Fig. 11-7	487.4000.006.00.01	MOTOR ROTOR	1
Fig. 11-8	487.4000.006.00.02	MOTOR STATOR	1
Fig. 11-9	0070.06050.00.04	INNER SIX ANGLE SCREW	3
Fig. 11-10	0093.06000.00.01	WASHER,SPRING	3
Fig. 11-11	T70.2090.002.00.00	PRESSING LINE PLATE	1
Fig. 11-12	5787.06012.00.01	BOLT, FLANGE 6*12	1

# EXPLODED VIEW AND PARTS LIST

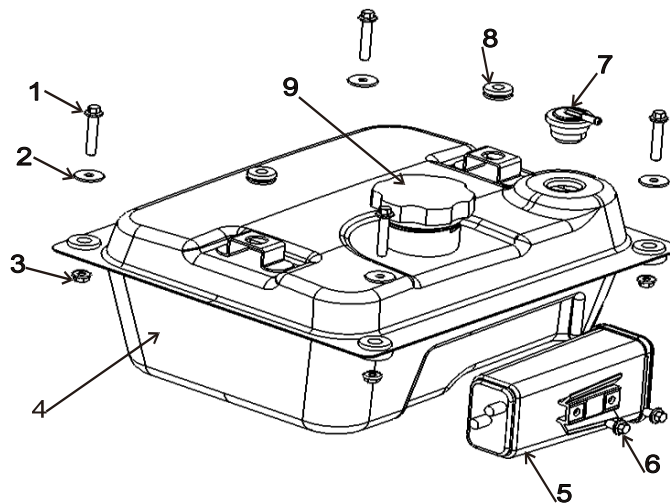
**FIG. 12 INVERTER ASSY**



Item	Stock #	Description	Qty
Fig. 12-1	5787.06012.00.01	BOLT ,FLANGE M6×12	5
Fig. 12-2	487.2471.001.00.00	INVERTER FIXING PLATE	1
Fig. 12-3	5787.06020.00.01	BOLT ,FLANGE M6×20	2
Fig. 12-4	487.4695.001.00.00	BATTERY 7AH <b>(THIS PART JUST FOR GN4500iePW)</b>	1
Fig. 12-5	487.2460.001.00.00	BATTERY 7AH	1
Fig. 12-6	6177.06000.00.01	DISC NUT M6	4
Fig. 12-7	487.3330.001.00.10	DISC NUT M6 <b>(THIS PART JUST FOR GN4500iePW)</b>	1
Fig. 12-8	487.6497.001.15.00	INVERTER DAMPER	1
Fig. 12-9	5789.05012.00.01	BOLT ,FLANGE M5×12	2
Fig. 12-10	487.8561.001V.00.00	INVERTER COVER	2
Fig. 12-11	487.2470.001.00.00	INVERTER	1

# EXPLODED VIEW AND PARTS LIST

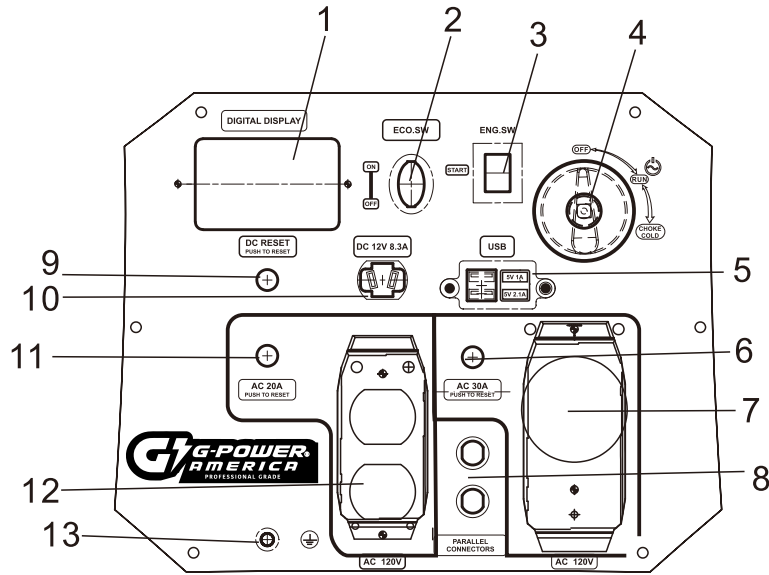
**FIG. 13 FUEL TANK**



Item	Stock #	Description	Qty
Fig. 13-1	5787.06040.00.01	BOLT ,FLANGE M6×40	4
Fig. 13-2	460.4100.001.20.00	FLAT PAD 6*25*1.5	4
Fig. 13-3	6177.06000.00.01	DISC NUT M6	4
Fig. 13-4	487.3200.003.00.00	TANK	1
Fig. 13-5	487.4440.001.00.00	CARBON CANISTER 380CC	1
Fig. 13-6	5787.06012.00.01	BOLT ,FLANGE M6×12	2
Fig. 13-7	188.3200.C01.00.01	CHECK VALVE	1
Fig. 13-8	467.5522.001.00.00	TANK SUPPORT PAD	2
Fig. 13-9	487.3200.003.00.01	TANK CAP	1

# EXPLODED VIEW AND PARTS LIST

**FIG. 14 CONTROL PANEL-GN4500iePW**

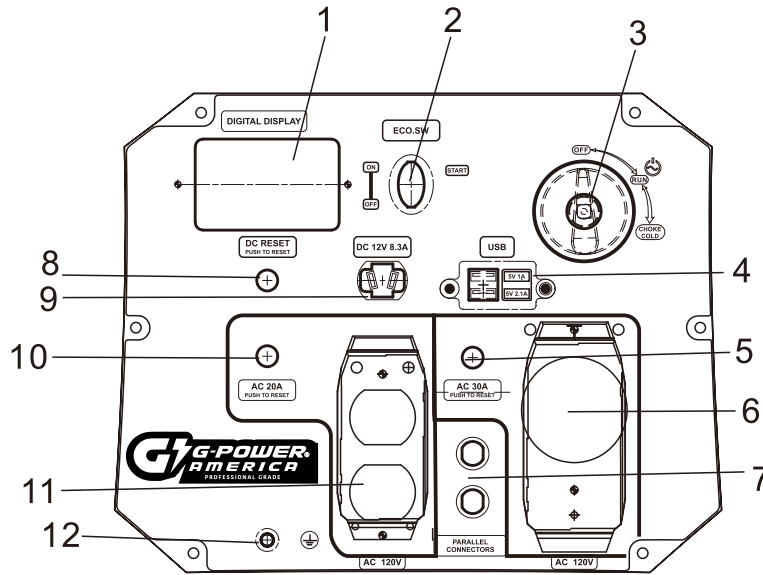


Item	Stock #	Description	Qty
Fig. 14-1	520.3385.007.00.00	DIGITAL DISPLAY	1
Fig. 14-2	520.3385.007.00.00	ECO.SW	1
Fig. 14-3	487.7744.001.D7.00	ENGINE SWITCH	1
Fig. 14-4	0818.05016.00.07	3-IN-1 COMBINATION SWITCH	1
Fig. 14-5	487.3370.007.00.01	USB 5V	1
Fig. 14-6	487.7590.001.00.00	AC PROTECTOR 30A	1
Fig. 14-7	487.3370.007.00.02	AC SOCKET 120V	1
Fig. 14-8	487.3370.007.00.03	PARALLEL CONNECTORS	1
Fig. 14-9	487.6854.001.00.00	DC RESET	1
Fig. 14-10	487.3370.007.00.04	DC SOCKET 12V 8.3A	1
Fig. 14-11	487.3370.007.00.07	AC PROTECTOR 20A	1
Fig. 14-12	487.3370.007.00.00	AC SOCKET 120V	2
Fig. 14-13	0818.05016.00.07	GROUND TERMINAL	1



# EXPLODED VIEW AND PARTS LIST

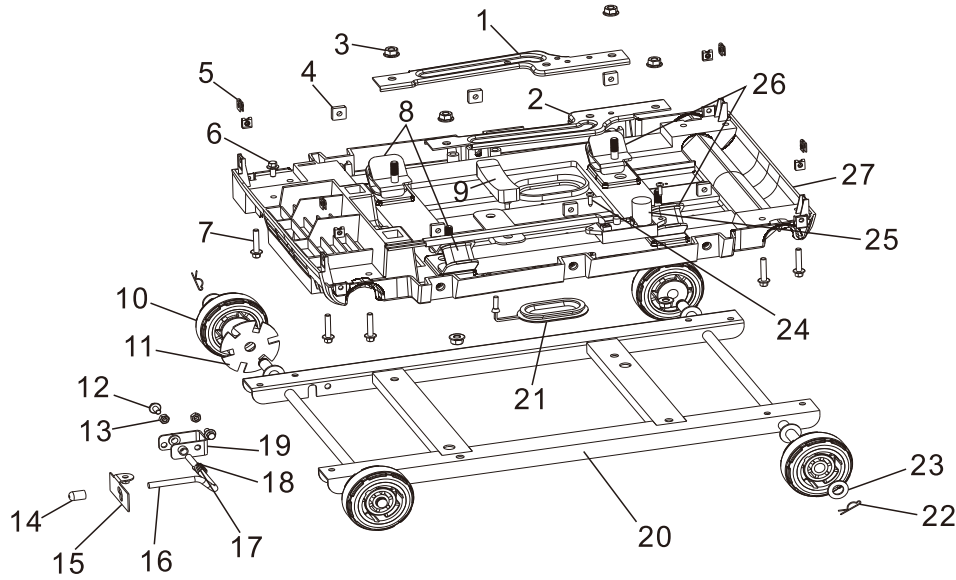
## FIG. 14 CONTROL PANEL-GN4500iPW



Item	Stock #	Description	Qty
Fig. 14-1	520.3385.007.00.00	DIGITAL DISPLAY	1
Fig. 14-2	520.3385.007.00.00	ECO.SW	1
Fig. 14-3	487.7744.001.D7.00	3-IN-1 COMBINATION SWITCH	1
Fig. 14-4	0818.05016.00.07	USB 5V	1
Fig. 14-5	487.3370.007.00.01	AC PROTECTOR 30A	1
Fig. 14-6	487.7590.001.00.00	AC SOCKET 120V	1
Fig. 14-7	487.3370.007.00.02	PARALLEL CONNECTORS	1
Fig. 14-8	487.3370.007.00.03	DC RESET	1
Fig. 14-9	487.6854.001.00.00	DC SOCKET 12V 8.3A	1
Fig. 14-10	487.3370.007.00.04	AC PROTECTOR 20A	1
Fig. 14-11	487.3370.007.00.07	AC SOCKET 120V	2
Fig. 14-12	487.3370.007.00.00	GROUND TERMINAL	1

# EXPLODED VIEW AND PARTS LIST

## FIG. 15 FRAME



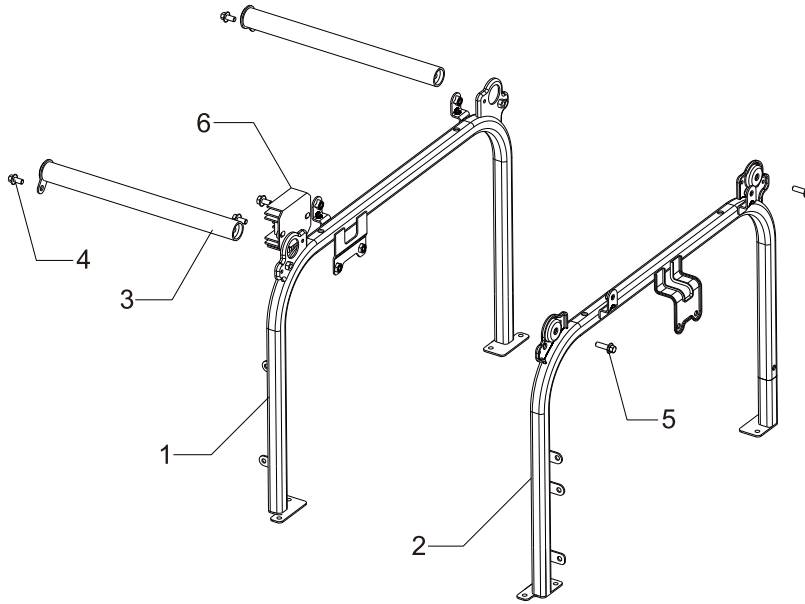
Item	Stock #	Description	Qty
Fig. 15-1	487.3340.001.00.00	Power plate 1	1
Fig. 15-2	487.3340.002.00.00	Power plate 2	1
Fig. 15-3	6177.08000.00.01	Disc nut M8	8
Fig. 15-4	467.5926.001.00.00	Square nut M6	6
Fig. 15-5	6178.05000.00.04	Clip nut M5	8
Fig. 15-6	5787.06012.00.01	BOLT,FLANGE M6×12	1
Fig. 15-7	5787.06030.00.01	BOLT,FLANGE M6×30	8
Fig. 15-8	487.3360.001.00.00	Shock pad 1	2
Fig. 15-9	487.3355.001.00.00	Dynamic support pad	1
Fig. 15-10	487.3332.001.00.00	Wheels 3 inches	4
Fig. 15-11	487.7721.002.00.00	Brake plate	1
Fig. 15-12	5787.06012.00.01	Six angle flange bolt M6*12	2
Fig. 15-13	0052.06000.00.02	Six angle nut M6	2
Fig. 15-14	487.7722.001.00.01	Brake pull sleeve	1
Fig. 15-15	487.7721.001.00.00	Brake gear plate	1
Fig. 15-16	487.2272.001.00.00	Brake rail	1
Fig. 15-17	487.1150.001.00.00	Brake spring	1
Fig. 15-18	487.1176.001.00.00	Open circlip	1
Fig. 15-19	487.7722.001.00.00	Brake mounting plate	1
Fig. 15-20	487.3532.001.00.00	Floor assembly	1
Fig. 15-21	487.3356.001.00.00	Chassis oil drain pad	1
Fig. 15-22	168.1120.001.00.00	Swing lever lock	4

## EXPLODED VIEW AND PARTS LIST

### FIG. 15 FRAME

Item	Stock #	Description	Qty
Fig. 15-23	460.4100.002.20.00	Flat washer 13*24*2	4
Fig. 15-24	0845.42016.00.01	Self tapping screw ST4.2*16	2
Fig. 15-25	487.2110.002.00.00	Igniter	1
Fig. 15-26	487.3360.003.00.00	Shock pad 3	2
Fig. 15-27	487.4085.001.00.00	chassis	1

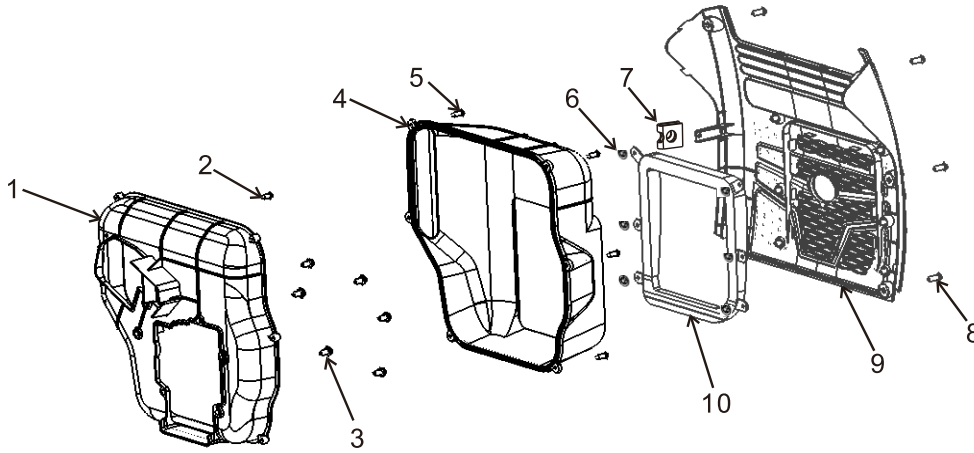
### FIG. 16 FRAME



Item	Stock #	Description	Qty
Fig. 16-1	487.3330.002.B6.00	FRAME	1
Fig. 16-2	5787.06012.00.01	BOLT,FLANGE M6×12	2
Fig. 16-3	5787.06020.00.01	BOLT,FLANGE M6×20	2
Fig. 16-4	487.4821.001.J6.00	HANDLE TUBE	2
Fig. 16-5	5787.06028.00.01	BOLT,FLANGE M6×28	4
Fig. 16-6	487.6854.002.00.00	VOLTAGE REGULATING RECTIFIER	1

# EXPLODED VIEW AND PARTS LIST

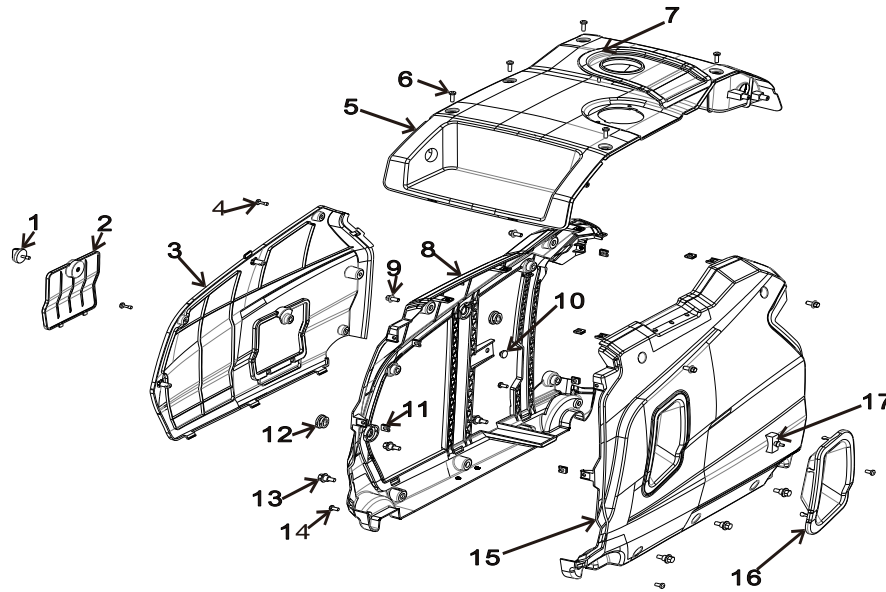
## FIG. 17 PROTECTOR, MUFFLER



Item	Stock #	Description	Qty
Fig. 17-1	T70.2435.001.00.00	Muffler rear cover	1
Fig. 17-2	0845.42013.00.01	Self tapping screw ST4.2*13	1
Fig. 17-3	5789.05012.00.01	BOLT,FLANGE M5×12	6
Fig. 17-4	T70.2402.001.00.00	Muffler front cover	1
Fig. 17-5	0845.42013.00.01	Self tapping screw ST4.2*13	6
Fig. 17-6	487.4100.001.00.00	Bearing thrust washer $\Phi 5X \Phi 14X0.4$	6
Fig. 17-7	6178.05000.00.04	Clip nut M5	1
Fig. 17-8	0818.05016.00.07	Cross recessed countersunk head screws (M5*16 Hei Xin)	5
Fig. 17-9	487.4060.001.04.00	Tail cover	1
Fig. 17-10	487.2450.001.00.00	Muffler insulation pad	1

# EXPLODED VIEW AND PARTS LIST

## FIG. 18 APPEARANCE COVER



Item	Stock #	Description	Qty
Fig. 18-1	487.5572.001.00.01	OIL WINDOW HANDLE	1
Fig. 18-2	487.5572.001.00.00	OIL WINDOW	1
Fig. 18-3	487.5576.003.00.00	MAINTENANCE COVER	1
Fig. 18-4	0949.05014.00.07	M5*14.5 SCREW	4
Fig. 18-5	487.5576.001.15.00	ON THE COVER	1
Fig. 18-6	0818.05016.00.07	CROSS RECESSED COUNTERSUNK HEAD SCREWS M5*16	5
Fig. 18-7	487.4482.001.00.00	OIL GUIDE RUBBER PAD	1
Fig. 18-8	487.5576.002.15.00	LEFT COVERP	1
Fig. 18-9	5787.06012.00.01	LATE BOLTM6*12	4
Fig. 18-10	487.6612.001.00.00	CRASH PAD (CYLINDER HEAD)	1
Fig. 18-11	6178.05000.00.04	CLIP NUT M5	12
Fig. 18-12	467.5522.002.00.00	TANK SUPPORT PAD B	2
Fig. 18-13	467.4789.001.00.00	STEP BOLT M6	6
Fig. 18-14	0818.05010.00.07	CROSS RECESSED COUNTERSUNK HEAD SCREWS M5*10/S=10.5	4
Fig. 18-15	487.5576.004.15.00	RIGHT COVER	4
Fig. 18-16	487.4629.001.00.00	HANDLE LIMIT PLATE	1
Fig. 18-17	487.6612.002.00.00	CRASH PAD (STARTING MOTOR)	1



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