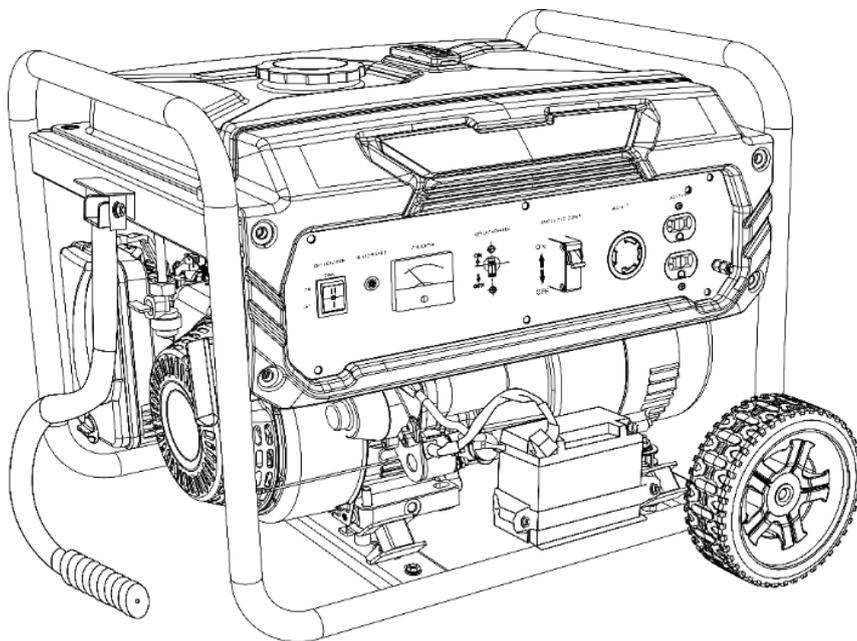




# **PH6250.1 / PH6250.1ES**

## **Operator Manual**



### **PORTABLE GASOLINE GENERATOR**

**IMPORTANT** – Please make sure everyone using this equipment reads and understands these instructions and any additional instructions provided before using it.

Record the model and serial numbers of your Generator below:

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

# FOREWORD

Thank you for purchasing the Promate PH6250.1 series. This operator manual is for proper handling, minor checking, and generator maintenance. Before using your generator: Please read these instructions completely and carefully to operate it safely and make the best use of it. Due to constant efforts to improve our products, certain procedures and specifications are subject to change without notice, if you have any questions, please contact Promate Service.

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# 1. SAFETY PRECAUTIONS

This manual provides safety information for the Promate PH6250.1 series, including preparation, operation, and maintenance instructions. Before running this generator, please read and observe all warnings and instructions provided both on the generator labels and in this instruction manual. Failure to follow the guidelines below may cause personal injury.

**DANGER, WARNING, CAUTION, and NOTICE** are used throughout this manual to highlight important information. Be sure that everyone who operates, maintains, or is around the generator understands the meaning of this safety information.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.



## **⚠ WARNING**

### **EXHAUST PRECAUTIONS**

- Never inhale exhaust gasses. They contain carbon monoxide, a colorless, odorless, and extremely dangerous gas that can cause unconsciousness or death.
- Never operate the generator indoors or in a poorly ventilated area, such as a tunnel, cave, etc. Practice extreme care when operating the generator near people or animals. Keep the exhaust pipe free of unwanted objects.

## **⚠ WARNING**

### **REFUELING PRECAUTIONS**

- Refueling should be done outside or in a well-ventilated area. Before refilling, turn off the generator. **DO NOT** overfill the tank. If fuel is spilled, wipe it away carefully before starting the engine.

## **⚠ WARNING**

### **WHEN CHARGING THE BATTERY**

- Battery electrolyte contains sulfuric acid which is a harmful chemical. Be careful of your eyes, skin, and clothing. In case of any contact especially in the eyes, wash thoroughly with water and get prompt medical attention.
- Charge the battery in a fully ventilated area.
- Check the polarity of the battery.

### **OTHER SAFETY PRECAUTIONS**

#### **Be careful of hot parts.**

The muffler and other engine parts become very hot while the engine is running or just after use. Operate the engine in a safe area and keep children away while the engine is in use.

#### **WHERE TO USE THE GENERATOR**

**DO NOT** use near flammables. Use it at least 1 meter away from buildings or any other facilities.

#### **WHEN USING THE GENERATOR**

- **DO NOT** tip or move.
- **DO NOT** cover it with a box or fence it off.

When using the generator set, **DO NOT** unscrew the dipstick; oil splatter can cause scalding. Avoid touching the generator in the rain or touch it with wet hands.

To prevent electric shock, ground the generator from the ground terminal.

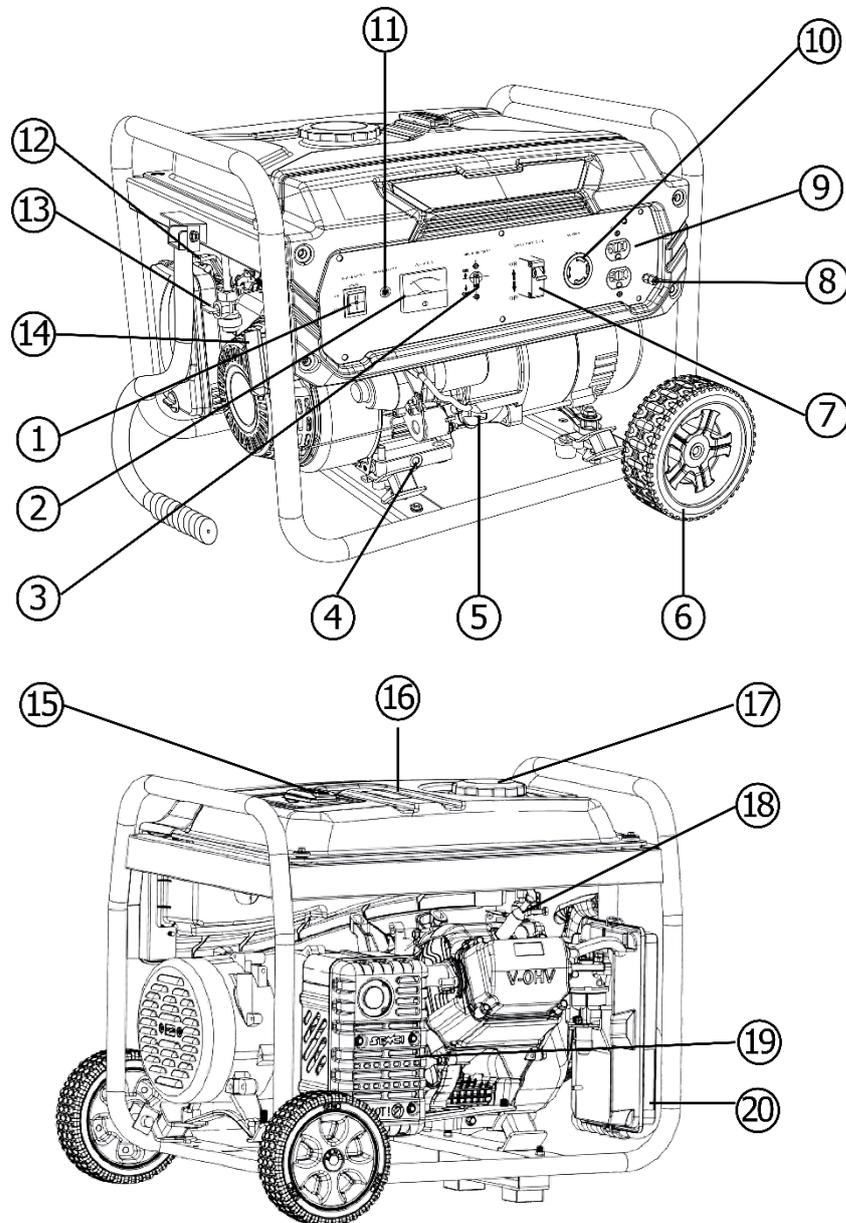
Avoid using generators on soft ground.

Never connect the generator to the wiring of your provider.

## 2. CONTROLS AND FEATURES

Read this owner's manual before operating your generator. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

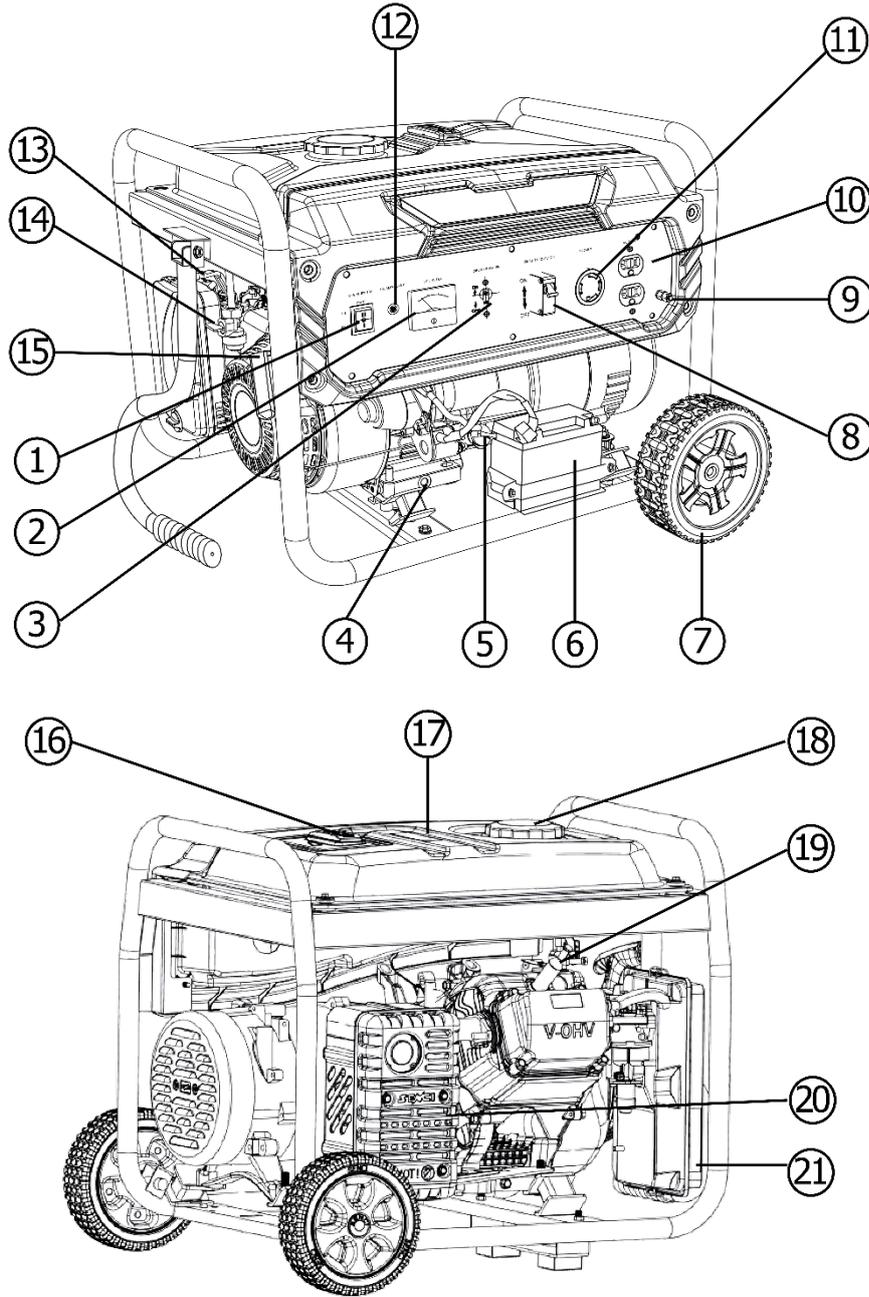
**Model: PH6250.1**



**Diagram 1. PH6250.1 Generator Parts**

<b>1</b>	Engine Switch	<b>11</b>	Oil Alert Lamp
<b>2</b>	Voltmeter	<b>12</b>	Choke Lever
<b>3</b>	AC Circuit Breaker	<b>13</b>	Fuel Switch
<b>4</b>	Oil Drain Plug	<b>14</b>	Recoil Starter
<b>5</b>	Oil Fill Cap/Dipstick	<b>15</b>	Fuel Gauge
<b>6</b>	Wheel	<b>16</b>	Fuel Tank
<b>7</b>	Circuit Protector	<b>17</b>	Fuel Tank Cap
<b>8</b>	Grounding Terminal	<b>18</b>	Spark Plug
<b>9</b>	230V Duplex Receptacle 20A	<b>19</b>	Muffler
<b>10</b>	230V Twistlock Receptacle 30A	<b>20</b>	Air Cleaner

**Model: PH6250.1ES**



**Diagram 2. PH6250.1ES Generator Parts**

<b>1</b>	Engine Switch	<b>8</b>	Circuit Protector	<b>15</b>	Recoil Starter
<b>2</b>	Voltmeter	<b>9</b>	Grounding Terminal	<b>16</b>	Fuel Gauge
<b>3</b>	AC Circuit Breaker	<b>10</b>	230V Duplex Receptacle 20A	<b>17</b>	Fuel Tank
<b>4</b>	Oil Drain Plug	<b>11</b>	230V Twistlock Receptacle 30A	<b>18</b>	Fuel Tank Cap
<b>5</b>	Oil Fill Cap/Dipstick	<b>12</b>	Oil Alert Lamp	<b>19</b>	Spark Plug
<b>6</b>	Battery	<b>13</b>	Choke Lever	<b>20</b>	Muffler
<b>7</b>	Wheel	<b>14</b>	Fuel Switch	<b>21</b>	Air Cleaner

### 3. SPECIFICATIONS

**Table 1. General Specifications**

<b>Model</b>	PH6250.1	PH6250.1ES
<b>Surge Power</b>	6250W	
<b>Rated Power</b>	5000W	
<b>Rated AC Voltage</b>	230V	
<b>Rated DC Voltage</b>	N/A	
<b>Rated Frequency</b>	60 Hz	
<b>Phase</b>	Single Phase	
<b>Engine Type</b>	4 Stroke, Single Cylinder, forced Air Cooling, OHV	
<b>Starting System</b>	Recoil Starter	Recoil/Electric Starter
<b>Low Oil Shutdown</b>	Yes	
<b>Oil Type</b>	Unleaded Gasoline	
<b>Spark Plug OEM Type</b>	F7TC, BPR4ES or Champion RN14YC	
<b>Fuel Tank Capacity</b>	15L	
<b>Battery Specifications</b>	N/A	12V, 7Ah battery
<b>Unit Dimensions</b>	600 x 450 x 470 mm	
<b>Box Dimensions</b>	615 x 465 x 495 mm	
<b>Net Weight</b>	52.2 KGS	54.2 KGS
<b>Gross Weight</b>	55.5 KGS	57.2 KGS

## 4. BEFORE OPERATION

### 4.1 Unpacking

- Set the carton on a rigid flat surface.
- Remove everything from carton except generator.
- Open carton completely by cutting each corner from top to bottom.
- Leave the generator on carton to install wheel kit.

#### 4.1.1 Package Inclusions

<b>1 PC</b>	Operator Manual
<b>1 PC</b>	Handle Assembly
<b>2 PCS</b>	Wheels
<b>2 PCS</b>	Wheel Axle
<b>1 PC</b>	Hardware Bag (1 spark plug socket, 1 extension housing)

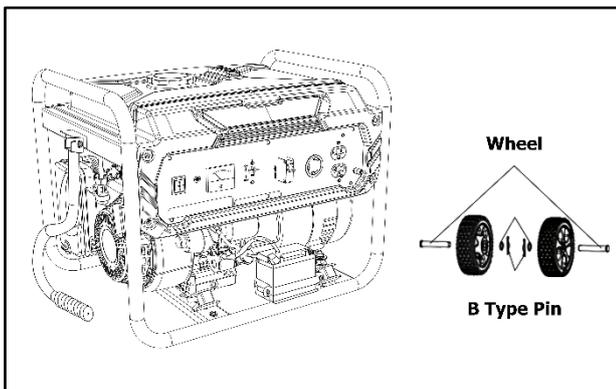
**Notice:** The contents of this manual are for reference purposes only and may not correspond to any specific model.

### 4.2 Assembly

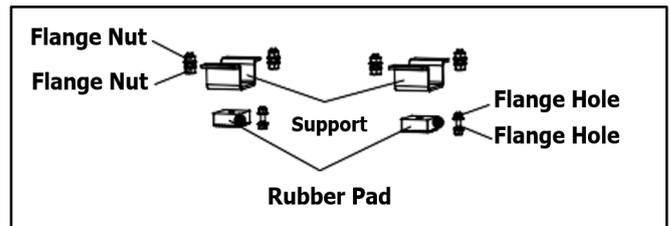
Promate PH6250.1 and PH6250.1ES require some assembly prior to usage.

#### 4.2.1 Assembling the Accessory Kit

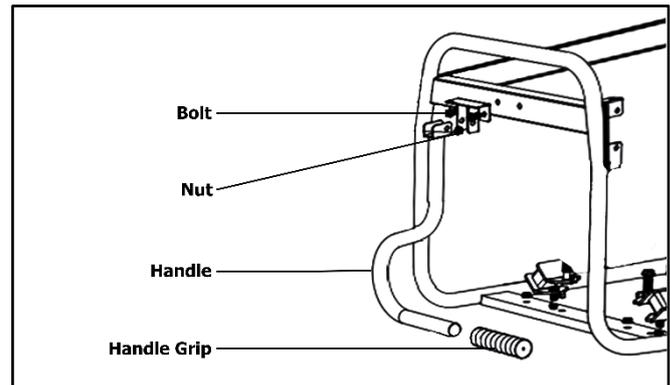
**Notice:** Wheels are designed to greatly improve the portability of the generator but are NOT intended to over-the-road use.



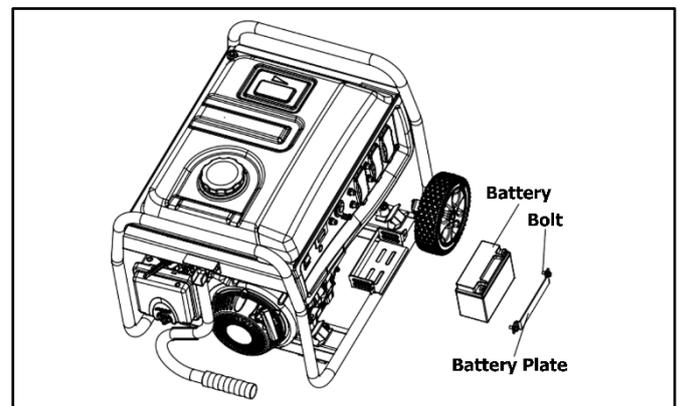
**Diagram 3. Wheel Assembly**



**Diagram 4. Wheel Bumpers Assembly**



**Diagram 5. Handle Assembly**



**Diagram 6. Battery Assembly**

1. Refer to **Diagram 3** to install the wheels.
  - Slide the axle through the frame brackets.
  - Slide on the hub, wheel and flat washer, then insert the cotter pin through the wheel axle hole.
  - Bend the cotter pin tabs outward to lock the pin in place.
2. Refer to **Diagram 4** to install the wheel bumpers.
  - Insert an M6 bolt through the rubber bumper and insert an M8 bolt through the bottom of the bumper bracket. Secure the bolt with an M8 flange nut.
  - Install an M8 bolt through the generator

frame and through top of the bumper bracket. Secure the bolt with an M8 flange nut.

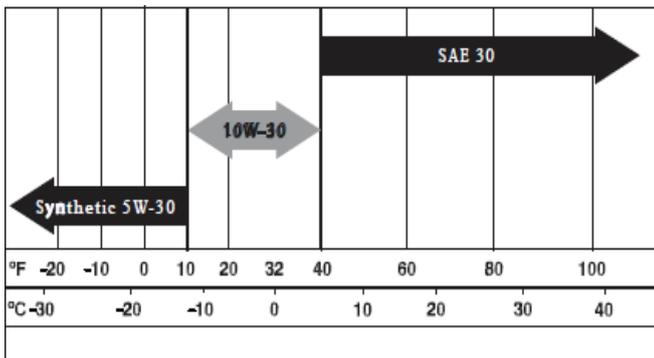
3. Refer to **Diagram 5** to install the handle assembly.

- Insert the handle bracket onto the generator frame and secure with two M8 bolts and two M8 flange nuts.
- Align the handle assembly holes with the handle bracket holes and secure with one M8 bolt and one M8 flange nut.

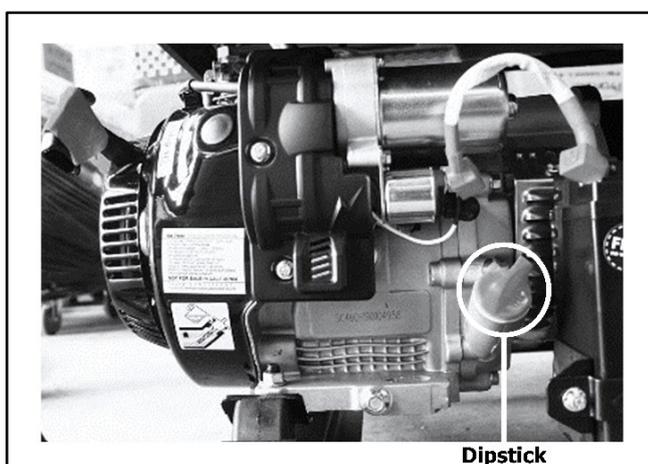
### 4.3 Adding the Engine Oil

Please ensure the generator is filled with the appropriate oil before starting. Avoid using specialized additives. Choose the oil viscosity grade based on the expected operating temperature (**Diagram 7**).

Above 40F	SAE 30
Below 40 F and down to 10 F	10W-30
Below 10 F	Synthetic 5W-30



**Diagram 7. Expected Operating Temperature**



Dipstick

**Diagram 8. Dipstick Location**

**Notice:** Improper handling of the generator may cause damage and reduce its lifespan. **DO NOT** attempt to crank or start the engine until it has been properly serviced with the recommended oil, as this may lead to engine failure.

- Place generator on a flat, level surface.
- Clean area around oil fill and remove oil fill cap / dipstick. Wipe dipstick clean.
- Slowly fill engine with oil through the oil fill opening until it reaches the full mark on the dipstick. Stop filling occasionally to check oil level. Be careful do not over fill.
- Install oil fill cap and finger tighten securely
- Check engine oil level before starting each time thereafter.

### 4.4 Adding the Fuel

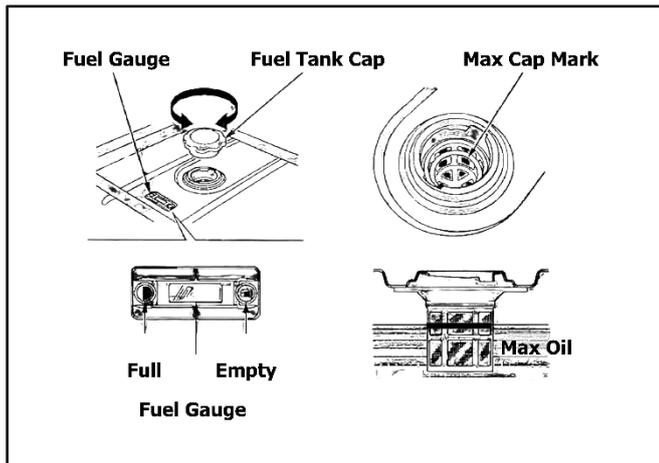
#### **⚠ WARNING**

- Never refuel the tank indoors.
- Avoid filling the fuel tank while the engine is running or hot.
- Always **TURN OFF** the generator and let the engine cool completely before refueling.
- Take care not to spill gasoline on a hot engine.
- Keep fuel away from sparks, open flames, pilot lights, heat sources, and other potential ignition points.
- **DO NOT** smoke or light a cigarette while refueling. Fuel is highly flammable, and its vapors are explosive.
- Use regular unleaded gasoline for the generator engine. Avoid fuels with more than 10% ethanol and never use E85 fuel.
- Do not mix oil with gasoline.
- Secure the fuel cap and clean up any spilled gasoline promptly.

#### **⚠ CAUTION**

- Ensure there is enough space for fuel expansion.
- Overfilling the fuel tank may cause fuel to spill onto a hot engine, potentially resulting in a fire or explosion. If fuel spills, wait for it to evaporate before starting the engine.
- Regularly inspect the fuel lines, tank, cap, and fittings for cracks or leaks, and replace

them if needed.



**Diagram 9. Fueling Guidelines**

**Notice:** It is important to prevent gum deposits from forming in fuel system parts such as the carburetor, fuel hose or tank during storage. Alcohol-blended fuels (called gasohol), ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage.

Acidic gas can damage the fuel system. The fuel should be emptied before storage of 30 days or longer. See the **"Storage"** section. Never use engine or carburetor cleaner products in the fuel tank as permanent damage may occur.

#### 4.5 Grounding the Generator

The National Electrical Code mandates that the frame and any externally electrically conductive parts of this generator be properly connected to a suitable earth ground.

Proper grounding helps prevent electrical shocks in the event of a ground fault in the generator or connected devices. It also assists in dissipating static electricity, which can accumulate in ungrounded equipment.

## 5. OPERATION

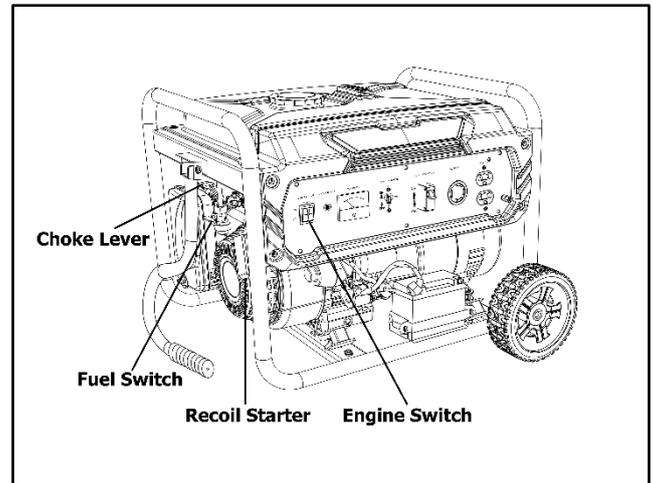
### 5.1 Starting the Generator

**⚠ WARNING**

Never start or stop the engine with electrical devices plugged into the receptacles and turned on.

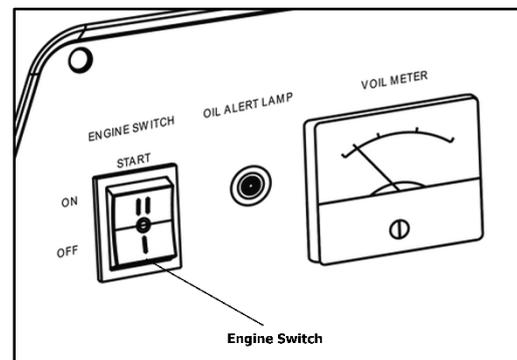
Unplug all electrical devices from the unit's receptacles before starting the engine.

Ensure the unit is positioned on a level surface.



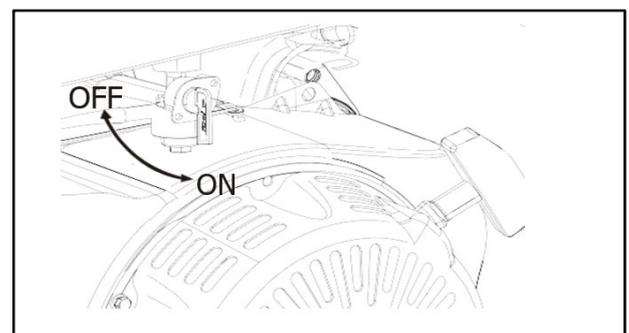
**Diagram 10. Starting Guidelines**

Turn the Engine Switch to **"ON"** position.



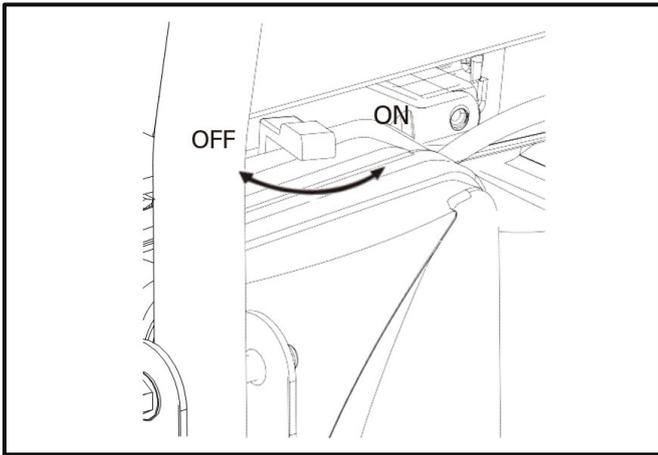
**Diagram 11. Engine Switch Location**

Turn the Fuel Switch to **"ON"** position.



**Diagram 12. Fuel Switch Location**

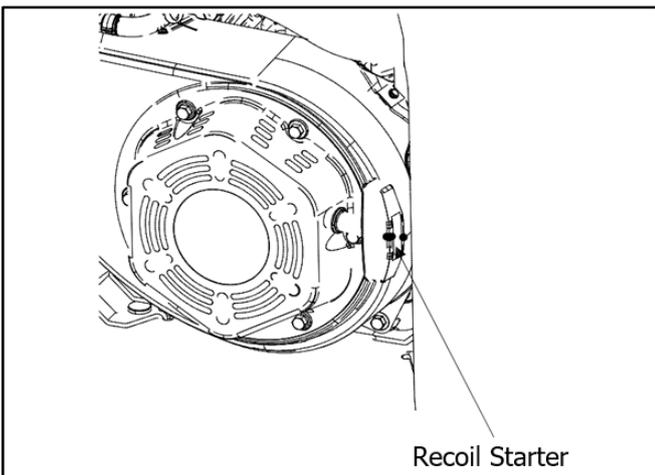
Move the engine choke lever to the "OFF" position.



**Diagram 13. Choke Lever Location**

For Recoil start, firmly grasp the recoil handle and pull slowly until increased resistance is felt.

Pull rapidly up and away.



**Diagram 14. Recoil Starter Location**

For electric start, turn and hold key in start switch to "START" position until generator starts. To prolong the life of starter components, **DO NOT** hold key in "START" position for more than 15 seconds, and pause for at least 1 minute between starting attempts.

When generator starts, move the choke lever to "1/2- CHOKE" position until the engine runs smoothly and then fully into "ON" position. If engine falters, move choke back out to "1/2- CHOKE" position until engine runs smoothly and then fully into "ON" position.

**Notice:** If battery is discharged, use manual starting instructions.

**Notice:** If engine fires, but does not continue to run, move choke lever to the OFF position and repeat starting instructions.

**⚠ WARNING**

Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.

Never start or stop the engine with electrical devices plugged in and turned on.

**Notice:** If the engine fails to start at 3 pulls, or if unit shuts down during operation, make sure that the unit is on a level surface and check for proper oil level in the crankcase. This unit may be equipped with a low oil protection device. If so, oil must be checked at proper level for engine to start and run.

**⚠ WARNING**

Exhaust heat and gases can ignite combustible materials or structures and may damage the fuel tank, leading to fire, serious injury, death, and/or property damage.

Contact with the muffler area can cause burns, resulting in serious injury. **DO NOT** touch hot parts or expose yourself to hot exhaust gases. Allow the equipment to cool completely before handling.

Maintain at least **5 feet** (152 cm) of clearance on all sides of the generator, including overhead.

For safety, contact **Promate Service** to acquire a spark arrester compatible with the exhaust system of this generator

Replacement parts must match the original components and be installed in the same position to ensure proper functionality.

**Notice:** Avoid overloading the generator or individual panel receptacles. Each outlet is equipped with push-to-reset circuit breakers for overload protection.

If the amperage rating of a circuit breaker is exceeded, the breaker will trip, cutting off electrical output to the affected receptacle.

## 5.2 Connecting Electrical Loads

- Allow the engine to run steadily and warm up for a few minutes after starting.
- Plug in and turn on the electrical loads.
- Calculate the total rated watts (or amps) of all the devices to be connected simultaneously. Ensure this total does not exceed:
  - (a) the generator's rated wattage/amperage capacity, or
  - (b) the circuit breaker rating of the receptacle providing the power.

**Notice:** Start the generator and allow the engine to stabilize before connecting any electrical loads. Ensure electrical loads are in the "OFF" position before connecting them, then turn them ON for operation.

Turn electrical loads OFF and disconnect them from the generator before shutting it down.

**NOTICE:** Exceeding the generator's wattage or amperage capacity may cause damage to the generator or connected devices. **DO NOT** exceed the generator's rated wattage or amperage capacity.

### **WARNING**

Overloading the generator beyond its rated wattage capacity can cause damage to both the generator and connected electrical devices. Follow these steps to prevent overloading:

1. Calculate the total wattage of all electrical devices to be connected simultaneously. Ensure this total **DOES NOT** exceed the generator's wattage capacity.
  - The rated wattage for lights can typically be found on the light bulbs.

- For tools, appliances, and motors, check the data label or decal affixed to the device.
- If the wattage is not listed, calculate it by multiplying the voltage by the amperage (**Volts × Amps = Watts**).

2. Be aware that some electric motors, such as induction types, require up to three times their running wattage to start. This surge typically lasts only a few seconds during startup.
  - Consider the high starting wattage when selecting devices to connect to the generator.
  - Calculate the starting wattage of the largest motor.
  - Add this to the running wattage of all other connected devices.

## 5.3 Stopping the Engine

Turn off all loads and unplug electrical devices from the generator panel receptacles. **NEVER** start or stop the generator while electrical devices are plugged in and turned on.

Let generator run at no-load for several minutes to stabilize the internal temperatures of engine.

Move the ON/OFF switch to "OFF" position. Close the fuel valve.

## 5.4 Low Oil Shutdown

PH6250.1 & PH6250.1ES is equipped with a low oil level sensor that shuts down the engine automatically when the oil level drops below a specified level. If the engine shuts down by itself and the fuel tank has enough gasoline, check engine oil level.

## 5.5 Operation on High Altitude

At altitudes above 5,000 feet (1,524 meters), gasoline with a minimum rating of 85 octane / 85 (89 RON) is acceptable. To maintain emissions compliance, a high-altitude adjustment is necessary. Operating without this adjustment may result in reduced performance, increased fuel consumption, and higher emissions. Contact Promate Service for information on high-altitude adjustments.

Using a high-altitude kit at altitudes below 2,500 feet (762 meters) is **NOT** recommended.

## 6. MAINTENANCE

### 6.1 Maintenance Schedule

Follow the calendar intervals shown below. More frequent service is required when operating in adverse conditions.

**Table 2. Maintenance Schedule**

<b>First 5 Hours</b>
<ul style="list-style-type: none"> <li>• Change the engine oil</li> </ul>
<b>Every 8 Hours or Daily</b>
<ul style="list-style-type: none"> <li>• Clean debris</li> <li>• Check the engine oil level</li> </ul>
<b>Every 25 Hours or Yearly</b>
<ul style="list-style-type: none"> <li>• Clean the engine air filter</li> </ul>
<b>Every 50 Hours or Yearly</b>
<ul style="list-style-type: none"> <li>• Change the engine Oil</li> </ul>
<b>Yearly</b>
<ul style="list-style-type: none"> <li>• Replace the engine air filter</li> <li>• Service the fuel valve</li> <li>• Service the spark plug</li> <li>• Inspect the muffler and spark arrester</li> <li>• Clean the cooling system</li> </ul>

### 6.2 General Recommendations

The warranty of the generator does not cover items that have been subjected to owner's abuse or negligence. To receive full value from the warranty, the owner must maintain the generator as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain the generator.

All adjustments in the Maintenance section of this manual should be made at least once each season. Follow the requirements in the "**Maintenance Schedule**".

**Notice:** Replace the spark plug and air filter once a year. A new spark plug and a clean air filter ensure the proper fuel-air mixture, improving engine performance and longevity.

### 6.2.1 Generator Maintenance

Generator maintenance involves keeping the unit clean and dry. Operate and store the generator in a clean, d environment, avoiding exposure to excessive dust, dirt, moisture, or corrosive vapors.

Ensure that the cooling air slots are not obstructed by any foreign materials. Regularly inspect the generator for cleanliness, and clean it when dust, dirt, oil, moisture, or other substances are visible on its exterior.

#### **⚠ CAUTION**

Never insert any object or tool into the air cooling slots, even if the engine is not running.

**Notice: DO NOT** use a garden hose to clean the generator, as water can enter the engine's fuel system and cause issues. Additionally, if water enters through the cooling air slots, it may be trapped in the rotor and stator winding insulation's voids and crevices. Over time, this buildup of water and dirt can reduce the insulation resistance of the generator's internal windings.

### 6.2.2 Cleaning the Generator

- Use a damp cloth to wipe the exterior surfaces.
- A soft, bristle brush may be used to loosen caked on dirt, oil etc.
- A vacuum cleaner may be used to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and openings on the generator. These openings must be kept clean and unobstructed.

### 6.2.3 Engine Maintenance

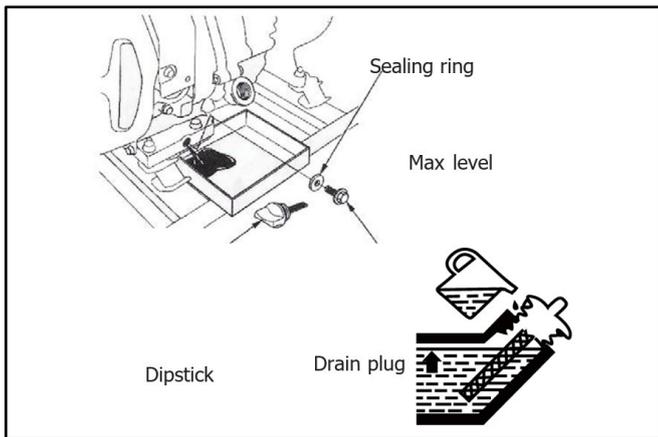
#### **⚠ WARNING**

Always disconnect the spark plug wire from the spark plug and keep the wire away from the spark plug when working on the generator.

### 6.2.4 Changing the Oil

Change the oil after the first eight hours of operation, then every 50 hours thereafter. If running this unit under dirty or dusty conditions,

or in extremely hot weather, to change the oil more often.



**Diagram 15. Change Oil Guidelines**

### **CAUTION**

Hot oil can cause burns. Allow the generator to cool before draining the oil, and avoid prolonged or repeated skin contact with the used oil. Wash any exposed areas thoroughly with soap.

To change the oil while the engine is still warm, follow these steps:

- Clean the area around the oil drain plug.
- Remove the oil drain plug and the oil fill plug to allow the oil to drain completely into a suitable container.
- Once the oil has fully drained, reinstall and securely tighten the oil drain plug.
- Fill the engine with the recommended oil (refer to "**Before Operation**" for oil recommendations).
- Clean up any spilled oil.
- Dispose of used oil at a proper collection center.

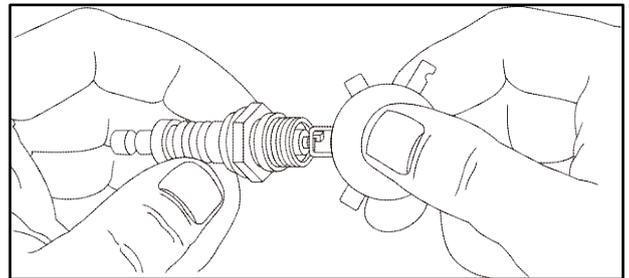
### **6.3 Spark Plug Maintenance**

Use spark plug F7TC, BPR4ES or Champion RN14YC. Replace the plug once each year. This will help the engine start easier and run better.

- Stop the engine and pull the spark plug wire off of the spark plug.
- Clean the area around the spark plug and

remove it from the cylinder head.

- Set the spark plug's gap to 0.70-0.80 mm (0.028-0.031 in.). Install the correctly gapped spark plug into the cylinder head and torque to 15 ft/lbs.



**Diagram 16. Correct Spark Plug Gap**

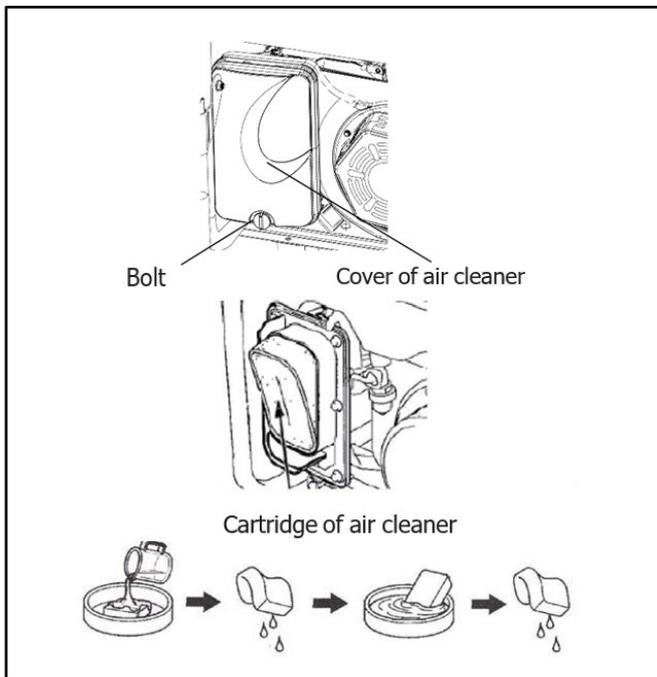
### **6.4 Spark Arrestor Maintenance**

- Turn off the generator and allow the engine and muffler to cool completely before servicing the spark arrestor (located on the back of the muffler).
- Remove the clamp and the spark arrestor screen.
- Clean the spark arrestor screen using a small wire brush.
- Replace the spark arrestor if it is damaged.
- To reinstall the spark arrestor screen, follow the reverse steps of removal.

### **6.5 Air Filter Maintenance**

A dirty air filter can cause the engine to run improperly and may lead to damage. Replace the air filter once a year, or clean/replace it more frequently if operating in dusty conditions.

- Remove the air filter cover.
- Wash the filter in soapy water and squeeze it dry with a clean cloth (DO NOT TWIST).
- Optionally, add a small amount of engine oil to the filter to prevent blockage during the winter season.
- Clean the air filter cover before reinstalling it.



**Diagram 17. Air Filter Maintenance Guidelines**

## 6.6 Valve Clearance Maintenance

After the first 50 hours of operation, check the engine's valve clearance and adjust it if necessary.

**Notice:** If you are unsure about performing this procedure or lack the proper tools, take the generator to the nearest Promate Service Center for valve clearance adjustment. This step is crucial for ensuring the generator's longevity.

## 6.7 General Maintenance

The generator should be started at least once every seven days and allowed to run for at least 30 minutes. If this is not possible and the unit must be stored for more than 30 days, follow the guidelines below to prepare it for storage.

## **⚠ WARNING**

Never store the engine with fuel in the tank indoors or in enclosed, poorly ventilated areas where fumes may come into contact with an open flame, spark, or pilot light, such as on a furnace, water heater, clothes dryer, or other gas appliance.

Avoid sparks or spray from the spark plug holes when cranking the engine.

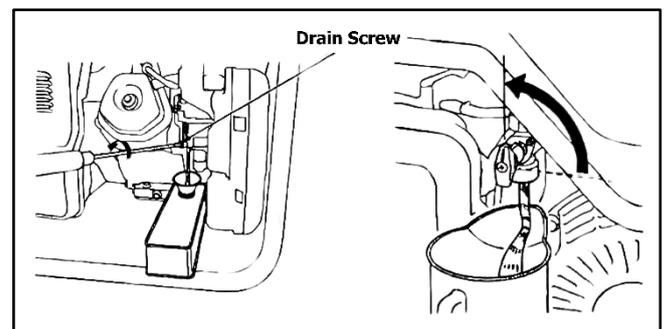
## **⚠ CAUTION**

Drain the fuel into an approved container outdoors, away from open flames. Make sure the engine is cool and refrain from smoking.

## 7. STORAGE

To prevent engine issues, the fuel system should be emptied before storing the generator for 30 days or more, following these steps:

- Drain all gasoline from the fuel tank.
- Start and run the engine until it stops due to lack of fuel.
- While the engine is still warm, drain the oil from the crankcase and refill with the recommended oil grade.
- Remove the spark plugs and pour about 1/2 ounce (15 ml) of engine oil into each cylinder. Cover the spark plug holes with a rag. Pull the recoil starter a few times to lubricate the piston rings and cylinder bore.



**Diagram 18. Draining Guidelines**

- Install and tighten the spark plugs, but do not connect the spark plug wires.
- Clean the outer surfaces of the generator and ensure that the cooling air slots and openings are clear and unobstructed.
- Store the generator in a clean, dry location.
- Do not store gasoline from one season to the next.
- Replace the gasoline can if it starts to rust. Rust and dirt in the gasoline can cause issues with the carburetor and fuel system.

- If possible, store the generator indoors and cover it to protect it from dust and dirt. **BE SURE TO EMPTY THE FUEL TANK.**
- Cover the unit with a suitable protective cover that does not retain moisture.

## 8. SERVICE INFORMATION

### HOW TO ORDER REPLACEMENT PARTS

Even quality-built equipment such as the generator you have purchased will need occasional replacement parts to maintain its good condition over the years.

To order replacement parts and consumable parts, please contact Promate Service and be ready with the following information:

1. Model No., Serial No. and all specifications that are shown on the Model No./Serial No. plate.
2. Part number or numbers as shown in the Parts List section.
3. A brief description of the trouble with the generator.

### LIMITED WARRANTY

#### Warranty Coverage:

Powertech Asia Pacific Inc., (the Company) warrants to the original retail customer that it will repair or replace, free of charge, any parts found by the Company or its authorized service representative to be defective in material or workmanship. This warranty covers the cost of replacement parts and labor for defects in material or workmanship.

#### Not Covered:

- a. Shipping/Handling charges for sending the product to the Company or its authorized service representative for warranty service. Shipping/Handling repaired or replaced products back to the customer; these charges must be borne by the customer.  
If a separate operator's manual and engine warranty from the engine manufacturer is included with this product, only that warranty will apply to the engine.

- b. Damage caused by abuse, accident, the effects of corrosion, erosion and normal wear and tear.
- c. Warranty is void if the customer fails to install, maintain and operate the product in accordance with the instructions and recommendations of the Company set forth in the owner's manual, or if the product is used as rental equipment.
- d. The Company will not pay for repairs or adjustments to the product, or for any costs of labor performed without the Company's prior authorization.
- e. Consumable parts such as battery, spark plugs, and air cleaner

**Warranty Period:** One (1) year from the date of purchase on products used solely for consumer applications; if a product is used for business or commercial applications, the warranty period will be limited to ninety (90) days from the date of purchase. For warranty service, the customer must provide dated proof of purchase and must notify the company within the warranty period.

EXCLUSIONS AND LIMITATIONS: THE COMPANY MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. THE WARRANTY SERVICE DESCRIBED ABOVE IS THE EXCLUSIVE REMEDY UNDER THIS WARRANTY; LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES IS EXCLUDED TO THE EXTENT PERMITTED BY LAW.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow a disclaimer of implied warranties or the exclusion or limitation of incidental and consequential damages, so the above disclaimers and exclusions may not apply.



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