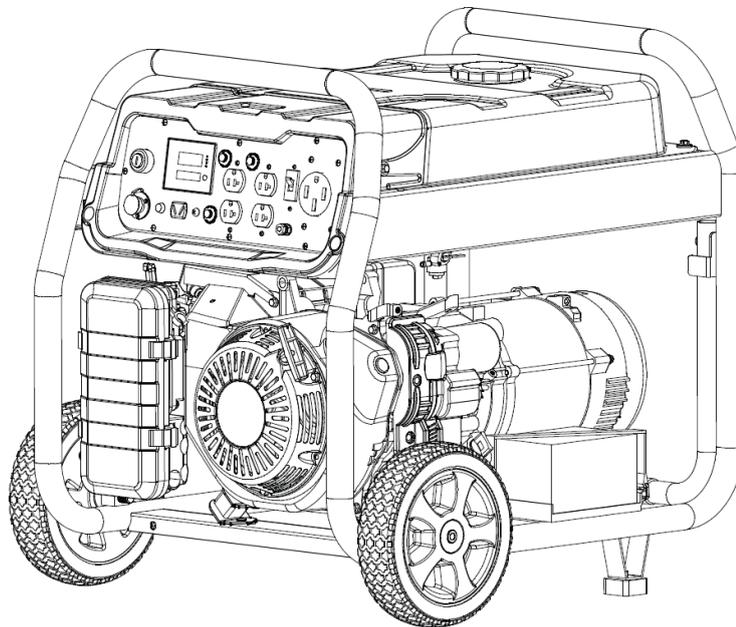


Promate[®]

PM12500ES

Operator Manual



PORTABLE GASOLINE GENERATOR

IMPORTANT – Please make sure everyone who uses this equipment reads and understands these instructions as well as 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 Promate PM12500ES. This operator manual is for proper handling, minor checking and maintenance of the PM12500ES. Before using your generator: Please read these instructions completely and carefully in order 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 Promate PM12500ES including preparation, operation, and maintenance instructions. Before running this generator, please read and observe all warnings and instructions that are provided both on the generator labels and in this instruction manual. Failure to follow the guidelines below may cause personal injury.

The terms **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** are used throughout this manual to highlight important information. Make 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 which can cause unconsciousness or death.
- Never operate the generator indoors or in a poorly ventilated area, such as 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 are 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.

DO NOT unscrew the dipstick; oil splatter can cause scalding. Avoid touching the generator in the rain or touch wet hands.

To prevent electric shock, grounding 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.

PM1250ES

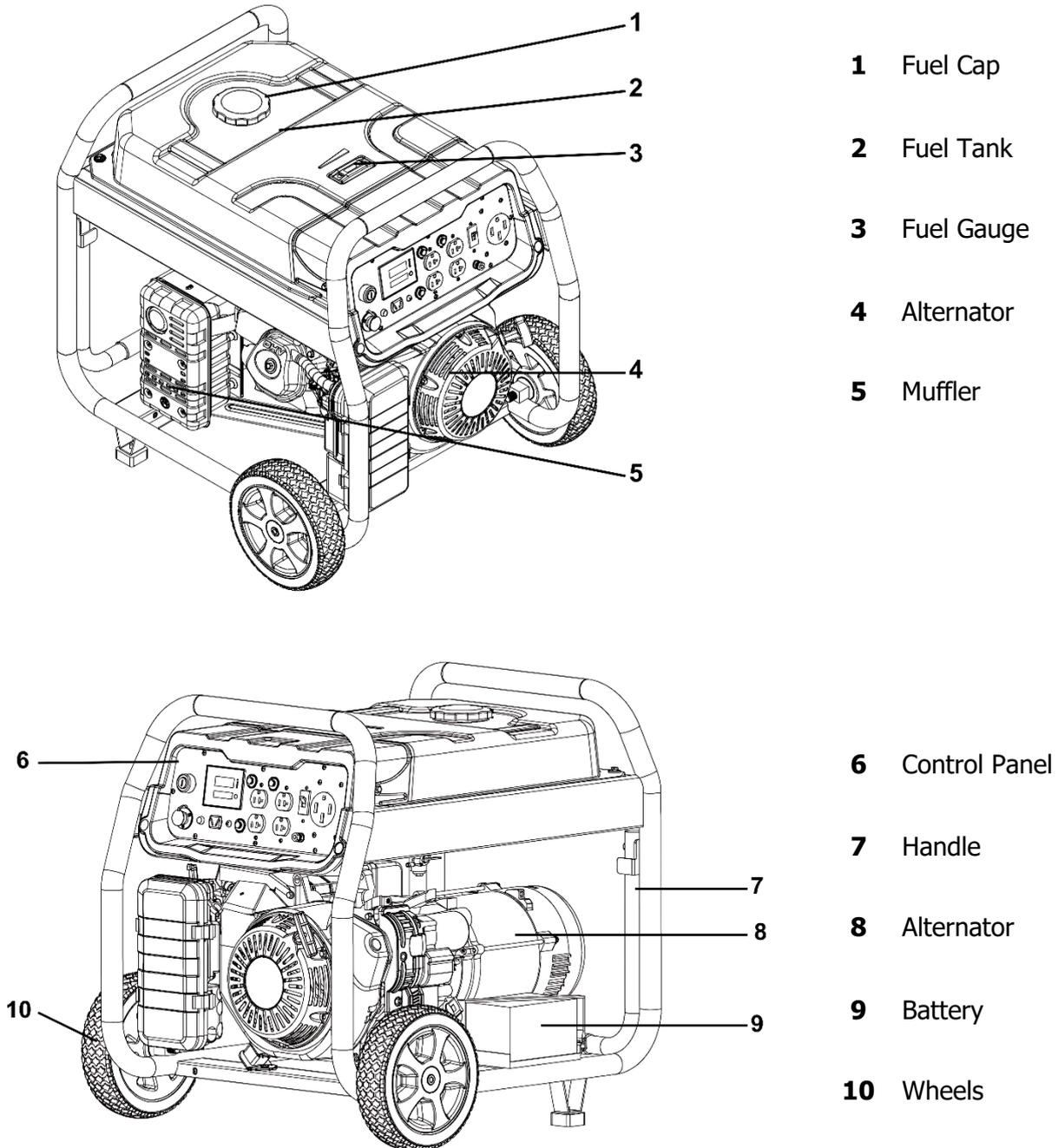


Diagram 1: Generator Parts

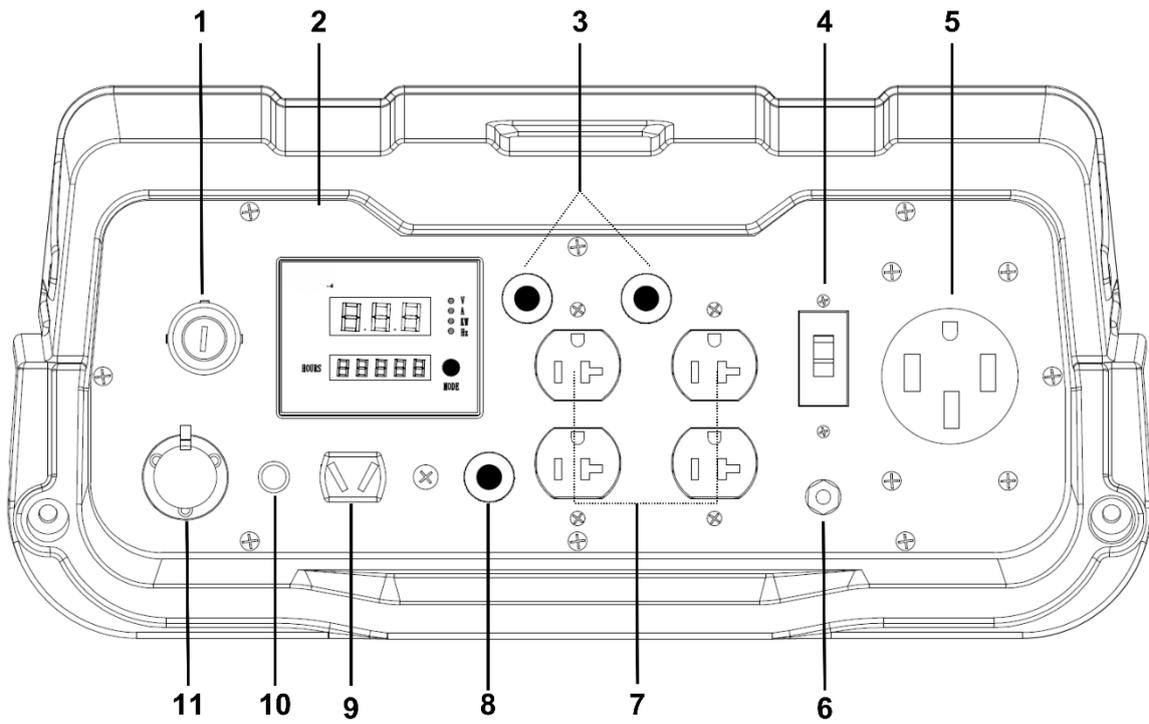


Diagram 2: Control Panel Features

- | | | | |
|----------|---------------------|-----------|----------------------|
| 1 | Engine Switch | 7 | Duplex Receptacle |
| 2 | 5 in 1 LED Display | 8 | Power Indicator Lamp |
| 3 | Circuit Breaker 20A | 9 | DC Receptacle |
| 4 | Circuit Breaker | 10 | DC Reset |
| 5 | 50A 230V Receptacle | 11 | ATS Port |
| 6 | Grounding Terminal | | |

3.SPECIFICATIONS

Table 1. General Specifications

Model	PM12500ES
Surge Power	12500W
Rated Power	10000W
Rated AC Voltage	230V
Rated AC Current	43.47A
Rated Frequency	60Hz
Phase	Single
Engine Displacement	500 CC OHV
Starting System	Recoil Start, Electric Start
Low Oil Shutdown	Yes
Oil Type	10W-30
Spark Plug OEM Type	F7TC
Valve Exhaust Clearance	0.006~0.008 inch (0.15~0.2 mm)
Battery Specification	12V,12Ah
Oil Capacity	1.2L
Fuel Tank Capacity	28L
Fuel Type	Unleaded Gasoline
Maximum Ambient Temperature	104°F (40°C)
Unit Dimensions	720 x 530 x 610 mm
Unit Dimension with Box	740 x 550 x 645 mm
Net Weight	88kg
Gross Weight	92kg

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.

Package Inclusions

1 PC	Operator Manual
1 PC	Handle Assembly
2 PCS	Wheels
2 PCS	Wheel Axle
1 PC	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 PM12500ES require some assembly prior to usage.

Assembling the Accessory Kit

The wheels included with this generator are specifically designed to enhance mobility and ease of transport on flat, stable surfaces such as driveways, patios, or job sites. However, they are not engineered for over-the-road use or towing behind vehicles. Transporting the generator on public roads or rough terrain using the built-in wheels may result in damage to the unit and void the warranty.

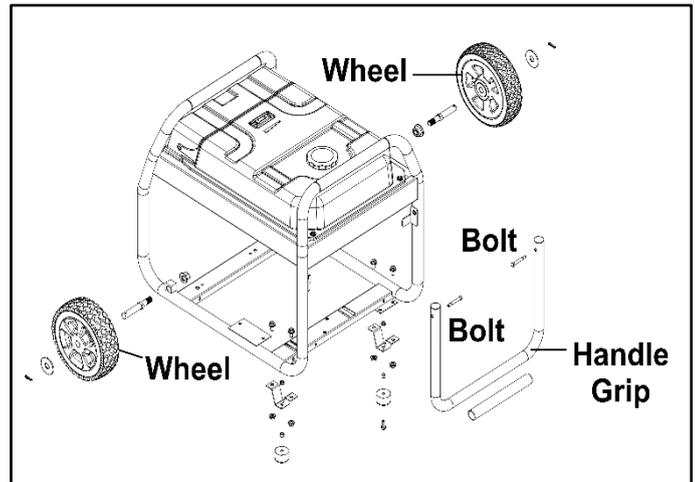


Diagram 3. Wheel / Handle Assembly

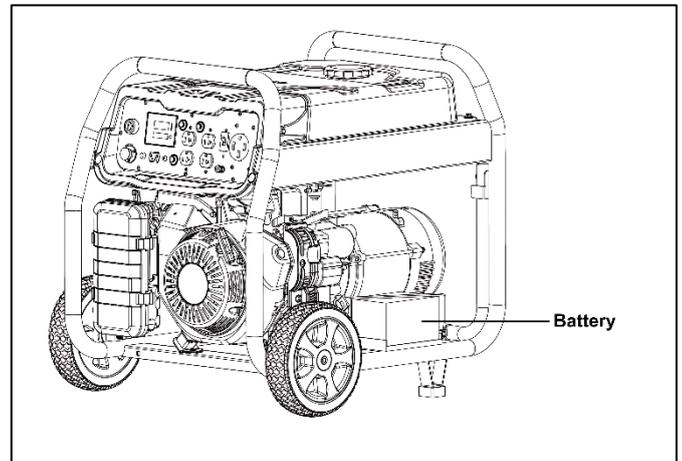


Diagram 4. Battery Assembly

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 3** 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.
3. Refer to **Diagram 3** 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 a 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 5**).

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

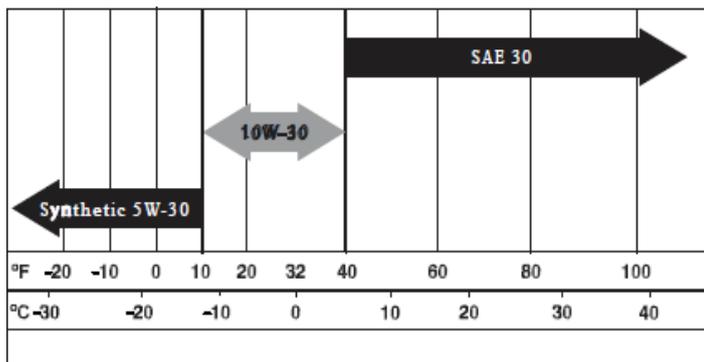


Diagram 5. Expected Operating Temperature

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.

To add the engine oil:

- 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 not to overfill.
- Install oil fill cap and 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 fuel 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.

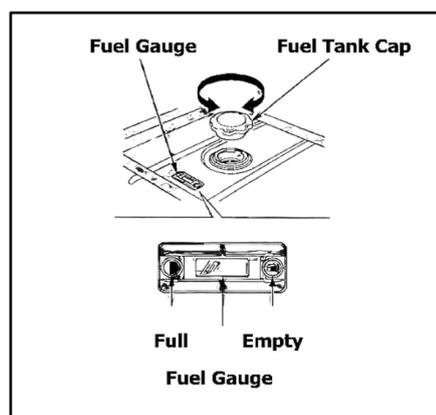


Diagram 6. Oil Fill Location

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.

1. Remove the fuel tank cap.
2. Slowly pour fuel into receptacle while minding the fuel gauge. Stop when full.
3. Wipe any fuel spills and screw fuel tank cap back on.

4.5 Grounding the Generator

The National Electrical Code mandates that the frame and any external electrically conductive parts of this generator be properly connected to a suitable earth ground. Proper grounding helps prevent electric 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.

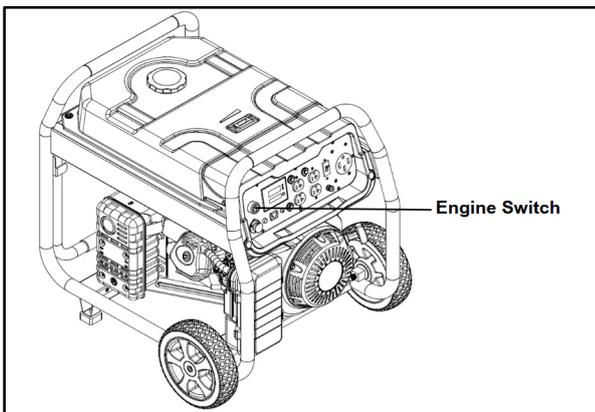


Diagram 7. Engine Switch Location

Turn the Engine Switch to "ON" position.

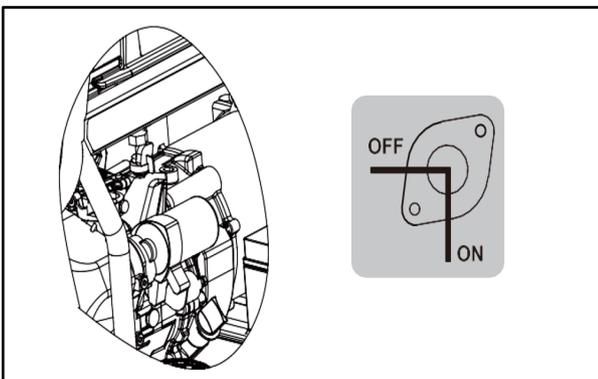


Diagram 8. Fuel Switch Location

Turn the Fuel Switch to "ON" position.

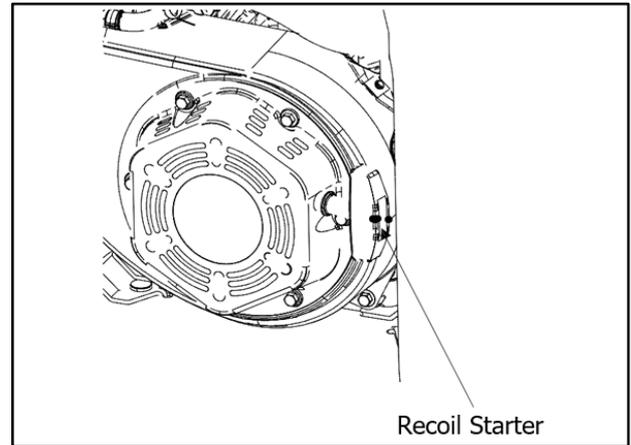


Diagram 9. Recoil Starter Location

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.

Notice: Promate PM12500ES is equipped with an auto choke function.

⚠ 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 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.

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: When connecting items to the generator, always start with the device that requires the highest power consumption. This helps manage the overall load more effectively and prevents sudden surges that could damage the generator or connected devices. As you add each load, you can monitor real-time power usage through the wattmeter displayed on the LCD Digital Display, ensuring that the total load remains within the generator's capacity.

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.

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, i.e., 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

Promate PM12500ES is equipped with a low oil level sensor that shuts down the engine automatically when the oil level drops below a specified level. Check the oil level if an automatic shutdown occurs.

5.5 Automatic Transfer Switch (ATS)

The Promate PM12500ES is equipped with an ATS input connector port. Only use a Promate-

approved ATS (sold separately). Follow the ATS maintenance guidelines installation.

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

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

6.2 General Recommendations

The warranty of the generator does not cover items that have been subjected to owner's abuse or negligence. Make periodic maintenance as specified 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, 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 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.

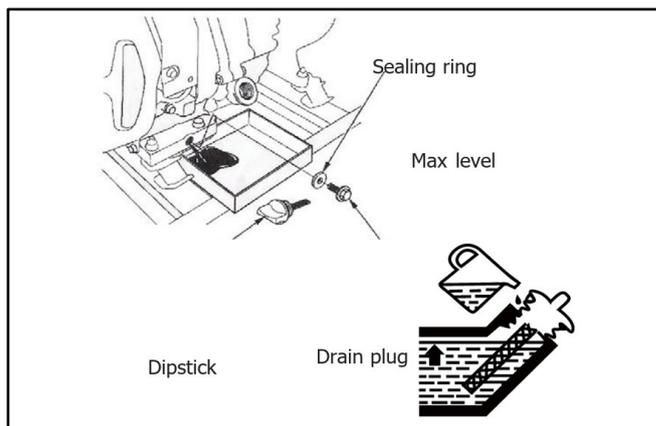


Diagram 10. Change Oil Guidelines

⚠ 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 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). Clean the air filter cover before reinstalling it.

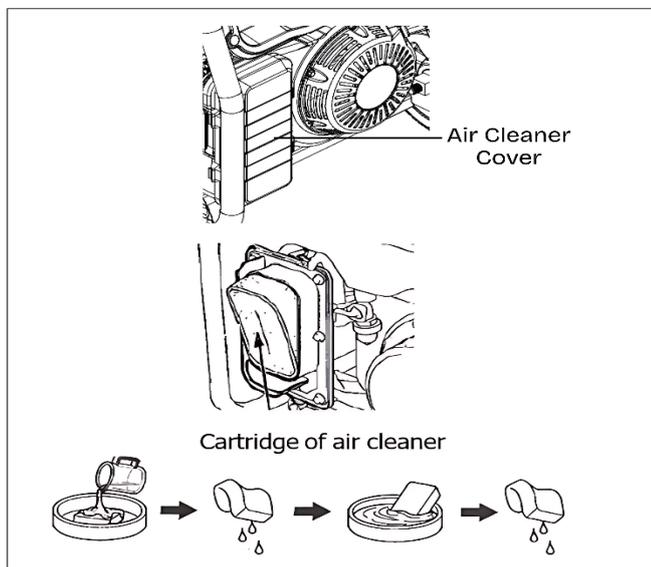


Diagram 11. Air Filter Maintenance Guidelines

6.4 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.

7. 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.

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

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.

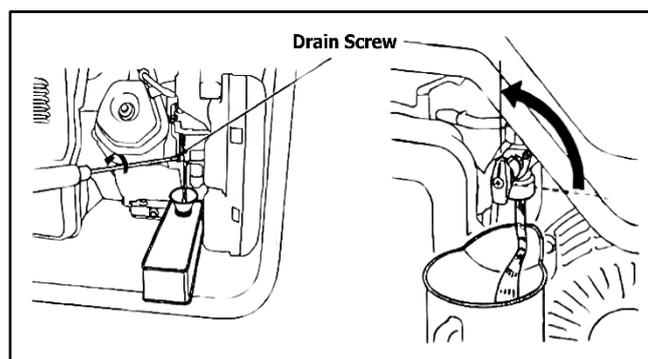


Diagram 12. Draining Guidelines

- 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.

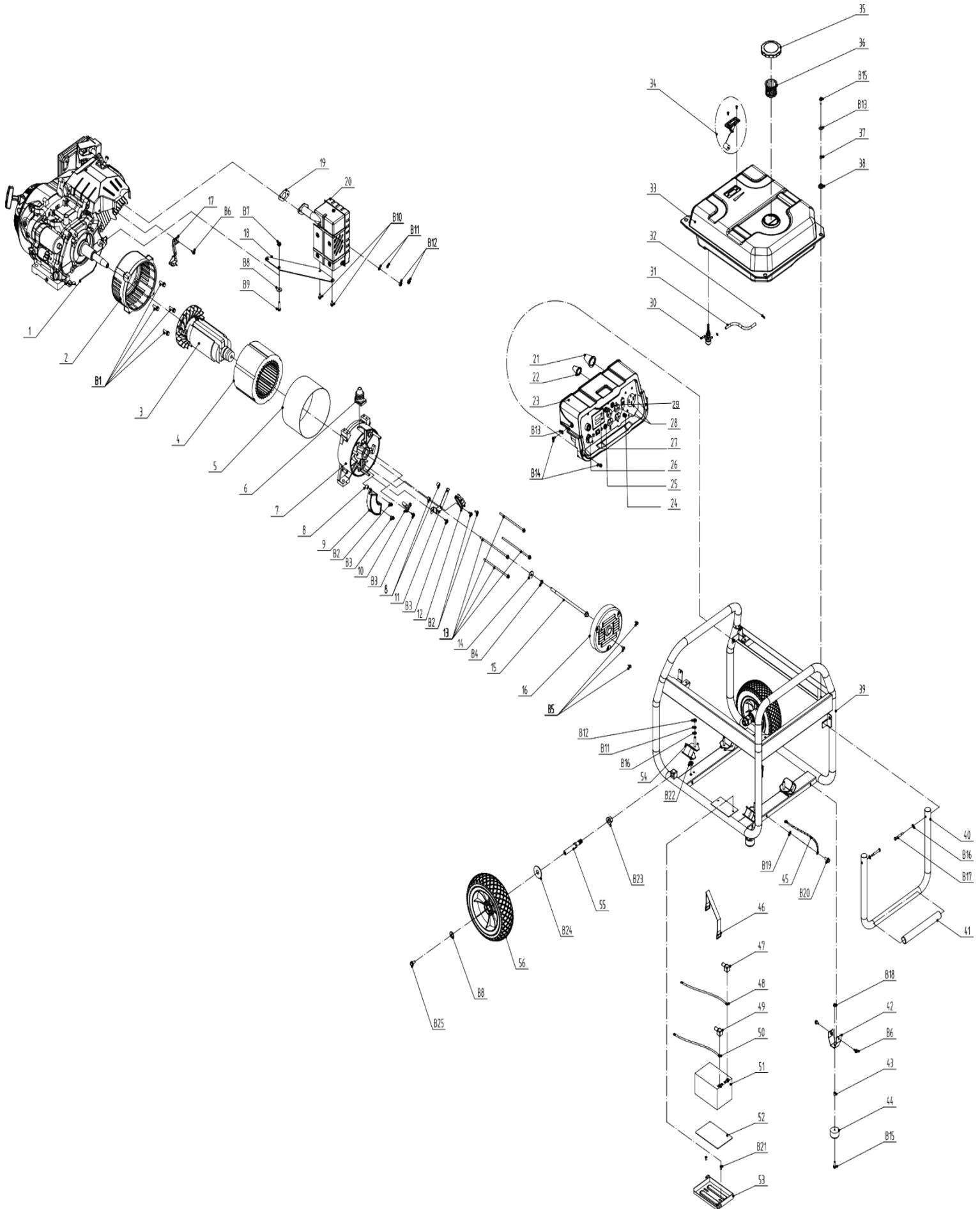


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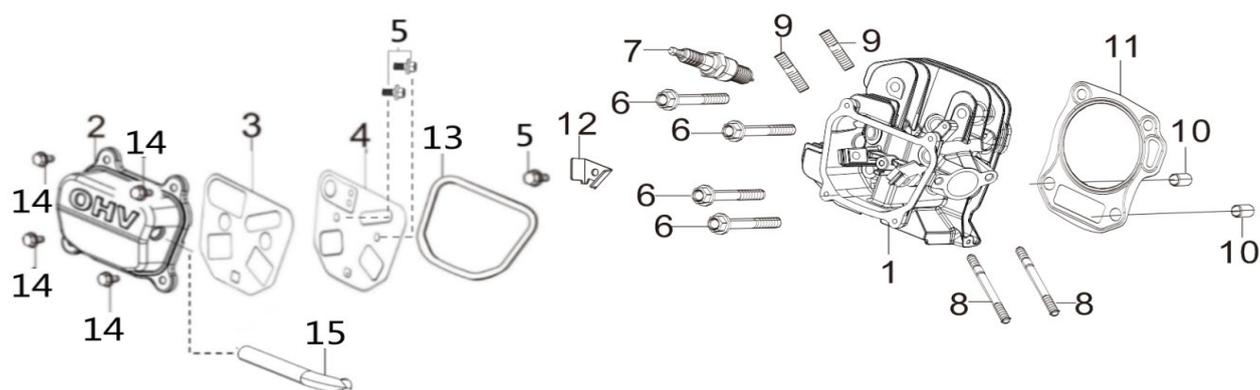
9. EXPLODED VIEW DIAGRAM & PART LIST



PART NO.	PART NAME	QTY
1	Engine	1
2	Front Cover	1
3	Alternator Rotator	1
4	Alternator Rotator	1
5	Alternator Protective Tape	1
6	Outgoing Line Rubber	1
7	Rear Cover	1
8	AVR Wiring Board Pad Set	3
9	AVR Voltage Regulator	1
10	Brush Assy	1
11	AVR Wiring Board Fixed Bracket	1
12	Wiring Board	1
13	190 Stator Bolt	4
14	Rotator Bolt Plain Washer	1
15	190 Rotator Center Bolt	1
16	End Cover	1
17	Generator Air Filter Bracket	1
18	Square Silencer Bracket	1
19	Exhaust Vent Gasket	1
20	Square Silencer	1
21	Rubber Con-shaped Sleeve	1
22	Panel Outlet sheath	1
23	Panel Rear Cover	1
24	Grounding Nut	1
25	Indicator Lamp	1
26	Engine Switch	1
27	5 in 1 LCD Display	1
28	Sockets	1
29	Circuit Breaker	2
30	Gasoline Generator Oil Switch	1
31	Fuel Pipe	1
32	Oil Pipe Clamp	2
33	Gasoline Generator Fuel Tank	1
34	Fuel Indicator Assy	1
35	Generator Fuel Tank Cover	1
36	950 Fuel Filter Net	1
37	Gasoline Fuel Tank Sleeve	4
38	Gasoline Fuel Tank Shock Absorber	4
39	Frame	1
40	Handle Round Tube	1

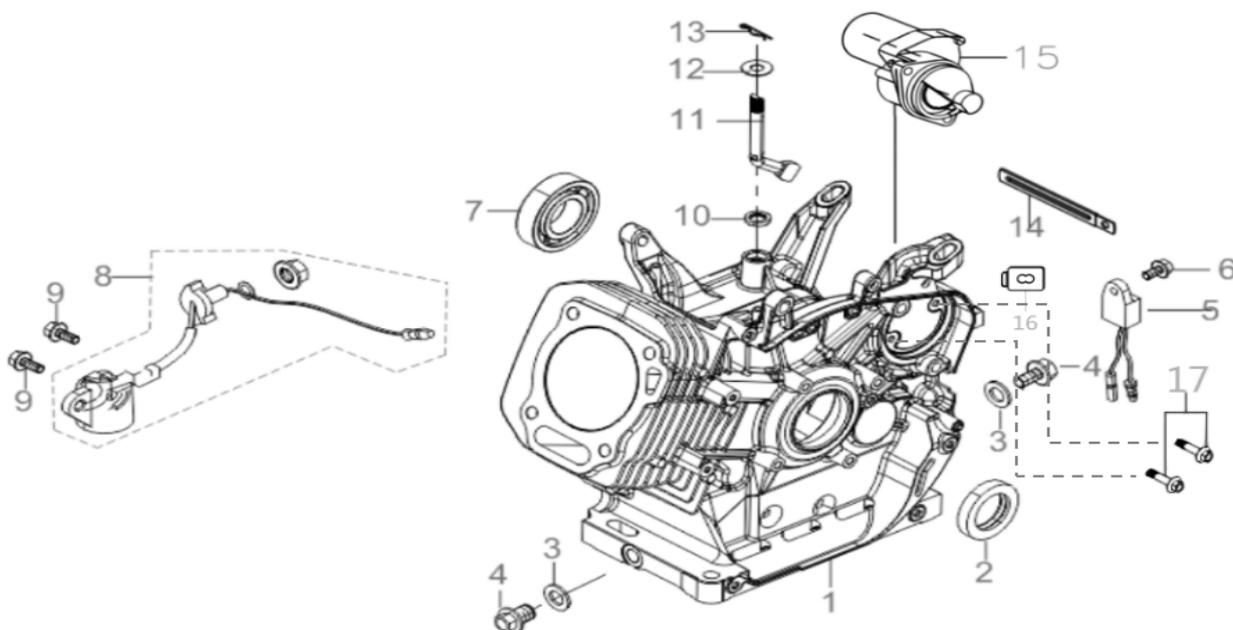
PART NO.	PART NAME	QTY
41	Linkage Lever Sleeve	1
42	10 Inch Foaming Wheels Bracket	2
43	Air Lead Plate Sleeve	2
44	Vibration Road Damping Pad Block	2
45	Ground Lead	1
46	12AH Battery Fix Rubber Strip	1
47	Black Battery Cable Sheath	1
48	Black Battery Line 6mm Square	1
49	Red Battery Cable Sheath	1
50	Red Battery Line 6mm Square	1
51	12AH Free Maintenance Battery	1
52	12AH Free Maintenance Battery Rubber Pad	1
53	12AH Battery Frame	1
54	LT6500 Alternator Damping Pad	4
55	10 Inch Foaming Wheels Shaft	2
56	10 Inch Foaming Wheels	2
B1	Flange Bolts GB5789	4
B2	Flange Bolts GB5789	3
B3	Flange Bolts GB5789	3
B4	Spring Washer GB93	10
B5	Flange Bolts GB5789	3
B6	Flange Bolts GB5789	5
B7	Flange Nut GB6111	1
B8	Flat Washer	3
B9	Flange Bolts GB5789	1
B10	Flange Bolts GB5789	2
B11	Spring Washer GB93	6
B12	Hexagon Nut GB6170	6
B13	Flat Washer GB96	6
B14	Flange Bolts GB5789	4
B15	Flange Bolts GB5789	6
B16	Flange Bolts GB97.2	8
B17	Bolts for 6 head end reaming	2
B18	Flange Nut GB6177	2
B19	Tooth Type Washer GB862.1	1
B20	Flange Bolts GB5787	1
B21	Cross recessed Pan Head Screw	2
B22	Flange Nut GB6177	4
B23	All Metal Six Angle Flange Lock Nut	2
B24	Flat Washer GB97.2	2
B25	Flange Bolts GB5789	2

Part 1: Head Subassembly, Cylinder/ Plug, Spark



PART NO.	PART NAME	QTY
1	HEAD SUBASSEMBLY, CYLINDER	1
2	COVER SUBASSEMBLY, CYLINDER HEAD	1
3	COVER	1
4	COVER	1
5	BOLT	3
6	BOLT, CYLINDER HEAD	4
7	PLUG, SPARK	1
8	STUD	2
9	STUD	2
10	PIN	2
11	GASKET, CYLINDER HEAD	1
12	METAL FLANGE	1
13	GASKET, CYLINDER HEAD COVER	1
14	BOLT	4
15	TUBE, BREATHER	1

Part 2: Crankcase



PART NO.	PART NAME	QTY
1	CRANKCASE SUBASSEMBLY.	1
2	SEAL, OIL	1
3	WASHER	2
4	BOLT, DRAIN PLUG	2
5	OIL SENSOR	1
6	BOLT	1
7	BEARING	1
8	SENSOR, ENGINE OIL	1
9	BOLT	2
10	WASHER	1
11	ARM, GOVERNOR	1
12	SEAL, OIL	1
13	PIN	1