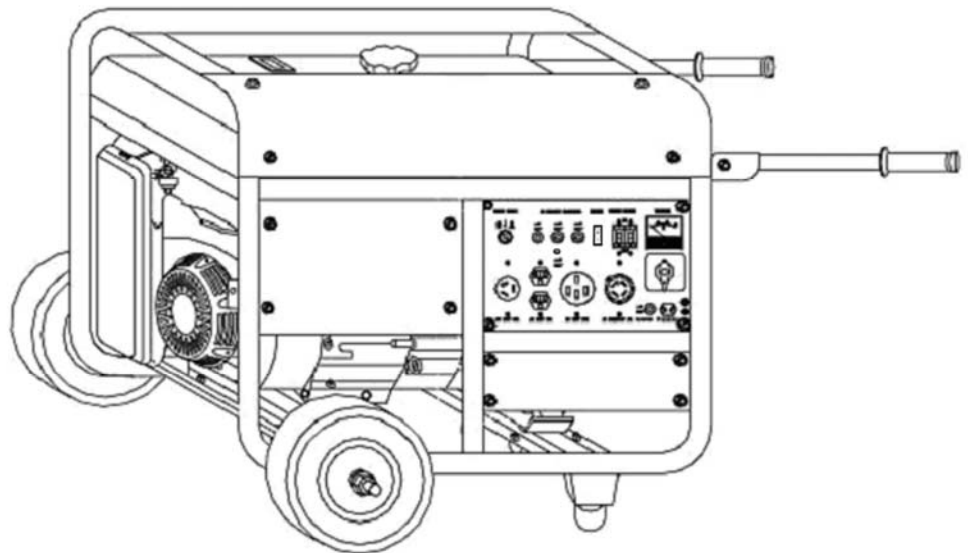




XP10000E

Gasoline Powered Generator

Owner's Manual





Max Tool Customer Service

customer_service@maxtool.com
or call 1-800-629-3325 (option 3) Monday -Thursday 6am to 7pm, Friday 6am to 5:30pm. PST

Product Support (Product: information, application, service info & warranty questions)






support@maxtool.com
or call 1-800-629-3325 (option 3) Monday -Thursday 6am to 7pm, Friday 6am to 5:30pm. PST

This manual provides information regarding the operation and maintenance of these products. We have made every effort to ensure the accuracy of the information in this manual. We reserve the right to change this product at any time without prior notice.

	WARNING:	
<p>The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.</p>		

WARNING:

The generator is a potential source of electrical shock if misused. Do not expose the generator to moisture, rain or snow. Do not let the generator get wet, and do not operate it with wet hands.

 WARNING	
	<p>GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. YOU COULD BE BURNED OR SERIOUSLY INJURED IF THE GASOLINE IS IGNITED.</p> <p>BEFORE REFUELLING, STOP THE ENGINE AND KEEP HEAT, SPARKS AND FLAME AWAY. HANDLE FUEL ONLY OUTDOORS. DO NOT FILL THE FUEL TANK ABOVE THE UPPER LIMIT LINE. WIPE UP SPILLS IMMEDIATELY.</p>
	<p>EXHAUST CONTAINS POISONOUS CARBON MONOXIDE GAS THAT CAN BUILD UP TO DANGEROUS LEVELS IN CLOSED AREAS.</p> <p>BREATHING CARBON MONOXIDE CAN CAUSE UNCONSCIOUSNESS OR DEATH.</p> <p>NEVER RUN THE GENERATOR IN A CLOSED, OR EVEN PARTLY CLOSED AREA WHERE PEOPLE MAY BE PRESENT.</p>
	<p>IMPROPER CONNECTIONS TO A BUILDING CAN ALLOW ELECTRICAL CURRENT TO BACK FEED INTO UTILITY LINES, CREATING AN ELECTROCUTION HAZARD.</p> <p>CONNECTIONS TO A BUILDING MUST ISOLATE GENERATOR POWER FROM UTILITY POWER AND COMPLY WITH ALL APPLICABLE LAWS AND ELECTRICAL CODES.</p>
	<p>THE GENERATOR IS A POTENTIAL SOURCE OF ELECTRICAL SHOCK IF NOT KEPT DRY.</p> <p>DO NOT EXPOSE THE GENERATOR TO MOISTURE, RAIN OR SNOW. DO NOT OPERATE THE GENERATOR WITH WET HANDS.</p>

These labels warn you of potential hazards that can cause serious injury. Read them carefully.

SAFETY INFORMATION

Read and understand this instruction manual before operating your generator. You can help prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures.

Operator Responsibility

- ◆ Know how to stop the generator quickly in case of emergency.
- ◆ Understand the use of all generator controls, output receptacles, and connections.
- ◆ Do not let children operate the generator without parental supervision.

Carbon Monoxide Hazards

- ◆ Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.
- ◆ If you run the generator in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from accumulating, provide adequate ventilation.

Electric Shock Hazards

The generator produces enough electric power to cause a serious shock or electrocution if misused. Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution. Keep the generator dry. If the generator is stored outdoors, unprotected from the weather, check all of the electrical components on the control panel, before each use. Moisture or ice can cause a malfunction or short circuit in electrical components, which could result in electrocution. Do not connect to a building electrical system unless a qualified electrician has installed an isolation switch.

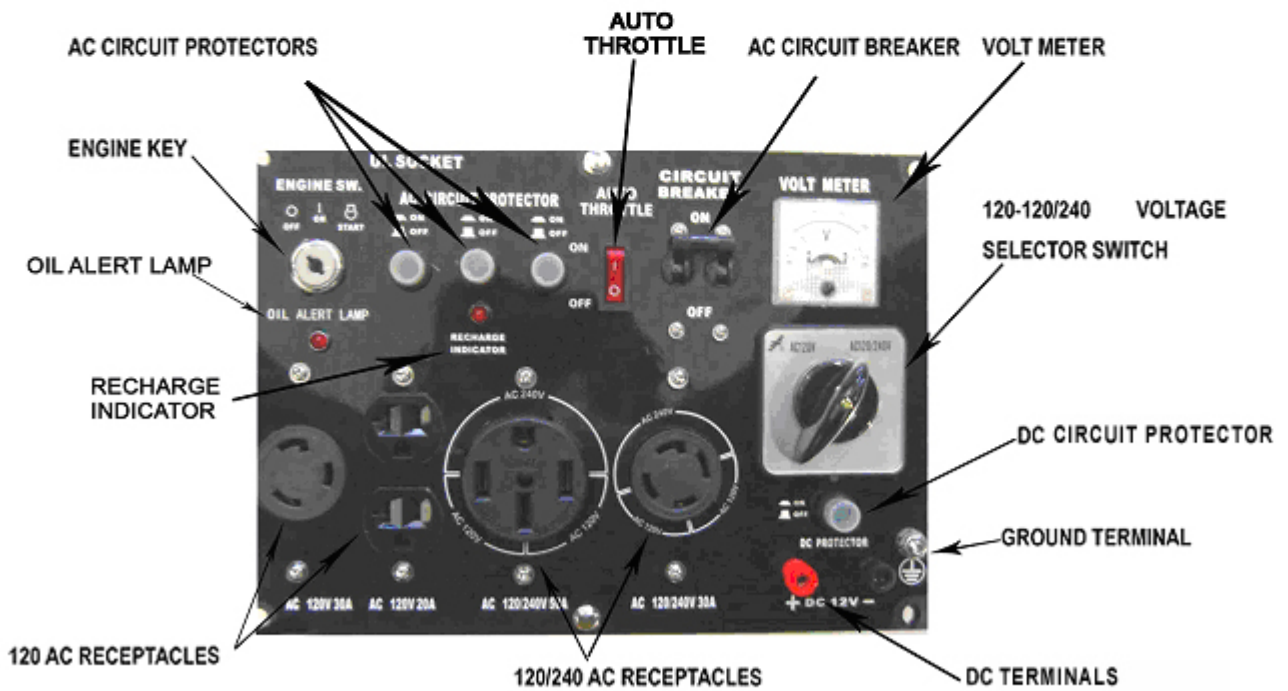
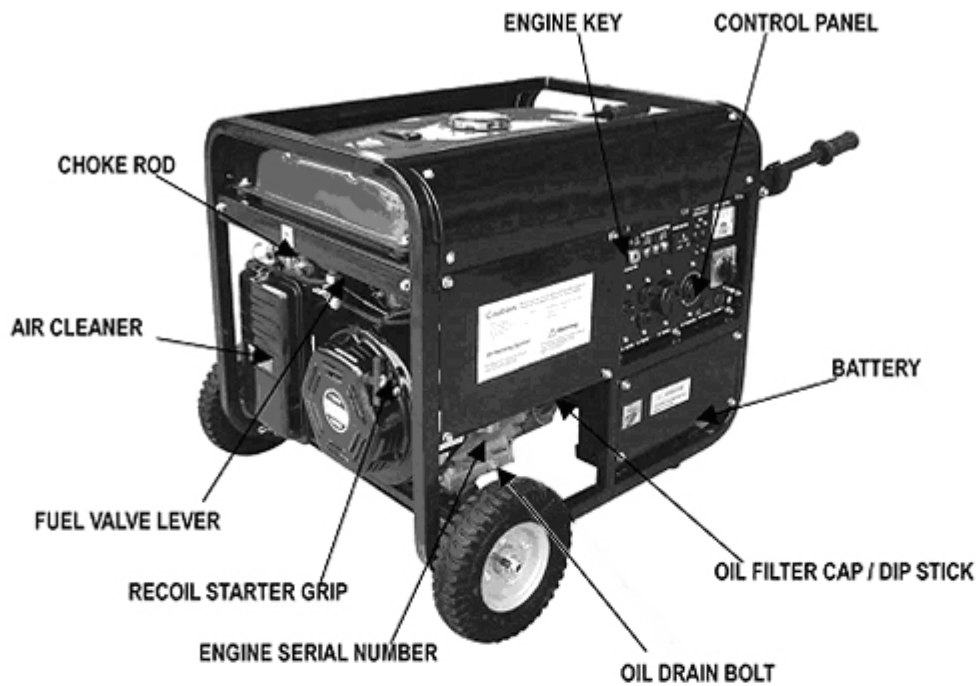
Fire and Burn Hazards

- ◆ The exhaust system gets hot enough to ignite some materials.
 - Keep the generator at least 3 feet (1 meter) away from buildings and other equipment during operation.
 - Do not enclose the generator in any structure.
 - Keep flammable materials away from the generator.
- ◆ The muffler becomes very hot during operation and remains hot for a while after stopping the engine.
 - Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoors.
- ◆ Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks where the generator is refueled or where gasoline is stored. Refuel in a well-ventilated area with the engine stopped.
- ◆ Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the generator.

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COMPONENT IDENTIFICATION



Engine Key

To start and stop the engine.

Key position:

OFF: To stop the engine. Key can be removed / inserted.

ON: To run the engine after starting, or to pull start the unit.

START: To start the engine by operating the starter motor.



WARNING:

Do not turn the key switch to START position when the engine is running to prevent damage to the starting motor.

Recoil Starter

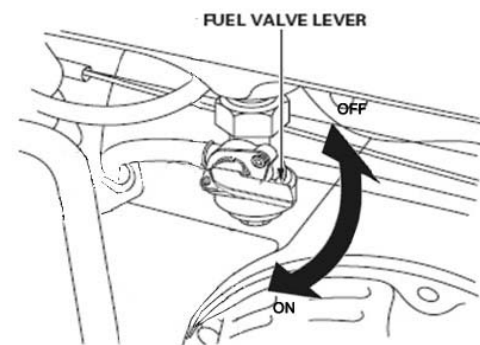
To start the engine, turn the key to on, pull the starter grip lightly until resistance is felt, then pull briskly.

WARNING:

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

Fuel Valve Lever

The fuel valve is located between the fuel tank and carburetor. When the valve lever is in the ON position, fuel is allowed to flow from the fuel tank to the carburetor. Be sure to return the fuel valve lever to the OFF position after stopping the engine.



Choke Rod

The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke rod manually. Pull the rod out toward CLOSED to enrich the mixture for cold starting

Voltage Selector Switch

The voltage selector switch switches the main power carrying windings of the generator to produce "120V" or "120/240V". If a 240V appliance is connected to the 4-prong receptacles, the switch must be in the "120/240V" position. If only a 120V appliance is being connected select the "120V" position.

Switch Position

120/240V: The 120V and 120/240V receptacles can be used simultaneously.

120V: Do not use the 120/240V twist lock receptacle in this position. The most power will be available at the 50A 120/240V receptacle.

WARNING:

Change the Voltage Selector Switch after turning the AC circuit breaker to OFF. The generator may be damaged if the Voltage Selector Switch is changed with the breaker in the ON position.

Ground Terminal

The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle.

DC Receptacle

The DC receptacle may ONLY be used for charging 12 volt automotive type batteries. The battery must be connected to the generator DC receptacle with the proper polarity (battery positive to generator positive (+) and battery negative to the generator negative (-).

WARNING:

Do not start the vehicle while the battery charging cable is connected and the generator is running. The vehicle or the generator may be damaged.

DC Circuit Protector

The DC circuit protector automatically shuts off the DC battery charging circuit when the DC charging circuit is overloaded, when there is a problem with the battery, or when the connections between the battery and the generator are improper.

Oil Alert System

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will automatically stop the engine (the engine switch will remain in the ON position). The Oil Alert system should not take the place of checking the oil level before each use.

If the engine stops and will not restart, check the engine oil level before troubleshooting in other areas.

AC Circuit Breaker

The AC circuit breaker will automatically switch OFF if there is a short circuit or a significant overload of the generator at the receptacle. If the AC circuit breaker is switched OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before switching the AC circuit breaker ON again. The AC circuit breaker may be used to switch the generator power ON or OFF.

AC Circuit Protector

The AC circuit protectors will automatically switch OFF if there is a short circuit or a significant overload of the generator at the 20A 120V, 30A 120V plug. If an AC circuit protector switches OFF automatically, check that the appliance is working properly and does not exceed the rated load capacity of the circuit before resetting the AC circuit protector ON.



WATTAGE REFERENCE CHART

Electric equipment, especially engines produce strong current when being started. The table below offers references when you connect those installations to generator.

Tool or Appliance	Rated* (Running) Watts	Additional Surge (Starting) Watts
Essentials		
Light Bulb-75 watt	75	-
Deep Freezer	500	800
Sump Pump	800	1200
Refrigerator/Freezer-18 Cu. Ft.	800	1600
Water Well Pump-1/3 HP	1000	2000
Heating/Cooling		
Window Air Conditioner-10000 BTU	1200	1800
Window Fan	300	600
Furnace Fan Blower-1/2 HP	800	1300
Kitchen		
Microwave Oven-1000 watt	1000	2000
Coffee Maker	1500	-
Electric Stove- Single Element	1500	-
Hot Plate	2500	-
Family Room		
DVD/CD Player	100	-
VCR	100	-
Stereo Receiver	450	-
Color Television- 27"	500	-
Personal Computer w/17" Monitor	800	-
Other		
Security System	180	-
AM/FM Clock Radio	300	-
Garage Door Opener- 1/2 HP	480	520
Electric Water Heater- 40 Gallon	4000	-
DIY / Job Site		
Quartz Halogen Work Light	1000	-
Airless Sprayer- 1/3 HP	600	1200
Reciprocating Saw	960	960
Electric Drill- 1/2 HP	1000	1000
Circular Saw- 7 1/4"	1500	1500
Miter Saw- 10"	1800	1800
Table Planer- 6"	1800	1800
Table Saw / Radial Arm Saw- 10"	2000	2000
Air Compressor- 1- 1/2 HP	2500	2500

*Wattages listed are approximate only. Check tool or appliance for actual wattage.

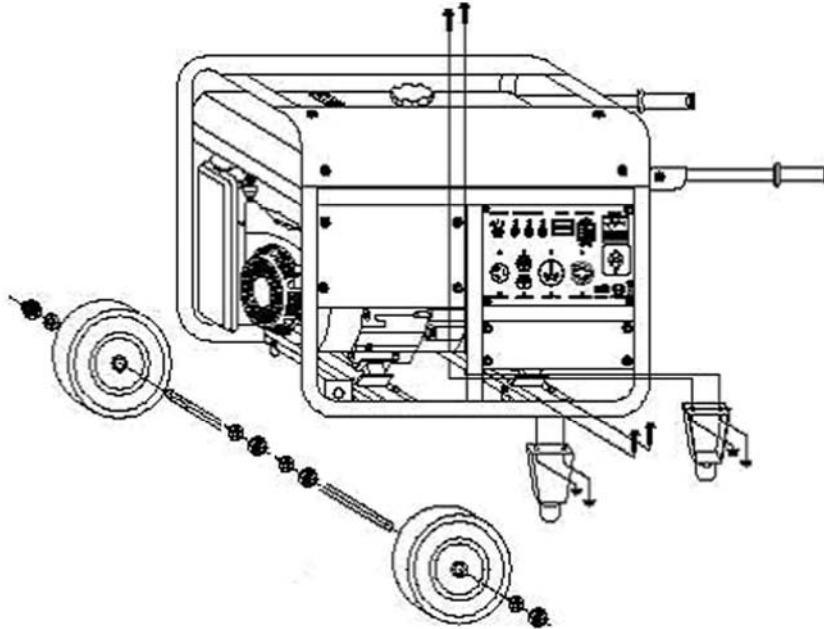
SPECIFICATIONS

Generator	Model	XP10000E		
	Frequency	60 HZ		
	Max. AC Output	10000 Watt		
	Rated AC Output	8000 Watt		
	Run Time	8 hour		
Engine	Model	XP16HPE		
	Type	Air Cooled, OHV, 4-Stroke		
	Displacement	419 cc		
	Output	16.0 HP / 3600 rpm		
	Fuel	Unleaded Gasoline		
	Fuel Tank Capacity	8.3 Gallon		
	Decibel	<72 dBA		
	Oil Alert	Standard		
	Battery	12V 18A/hr		
	Fuel Gauge	Standard		
	Air Cleaner	Standard		
	Silencer	Standard		
	Standard Features	Voltmeter	Standard	Receptacle 2 × NEMA 5-20R 1 × NEMA 5-30R 1 × NEMA L14-30R 1 × NEMA 14-50R Plug(Not included with your generator)
		Voltage Selector	Standard	
DC Circuit Breaker		Standard		
DC Receptacle		Standard		
AC Circuit Breaker		Standard		
AC Circuit Protector		Standard		
AC Receptacle		2 Pole 120V AC 3 Pole 120V/240V AC		
Dimensions	Length	34"	2 × NEMA 5-20P 1 × NEMA 5-30P 1 × NEMA L14-30P 1 × NEMA 14-50P	
	Width	27"		
	Height	32"		
	Gross Weight	240 lbs.		

ASSEMBLY

Wheel Kit Installation

- 1 Install the axle assembly on the generator.
- 2 Install the two wheels on the axle shaft using the flange nuts.
- 3 Install the two stands on the under frame using the flange nuts.



Starter Cables Connection

- 1 Route the starter cable under the tank.
- 2 Connect the starter cable to the battery positive (+) terminal first, then to the negative (−) terminal. When disconnecting, disconnect at the battery negative (−) terminal first.

WARNING:

Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

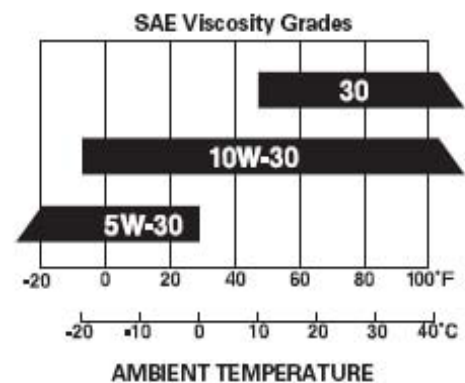
PRE-OPERATION CHECK

Engine Oil

WARNING:

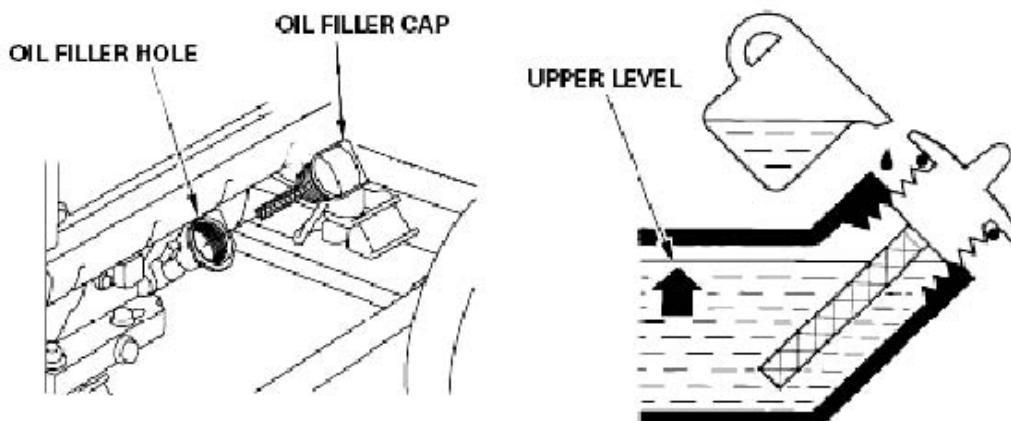
Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended.

- ◆ Check the oil level BEFORE EACH USE with the generator on a level surface and the engine stopped.
- ◆ Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SJ.



Always check the API SERVICE label on the oil container to be sure it includes the letter SJ.

- ◆ SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



- 1 Remove the oil filler cap and wipe the dipstick clean.
- 2 Check the oil level by inserting the dipstick into the filler neck without screwing it in.
- 3 If the level is low, fill to the top of the oil filler neck with the recommended oil.

Fuel

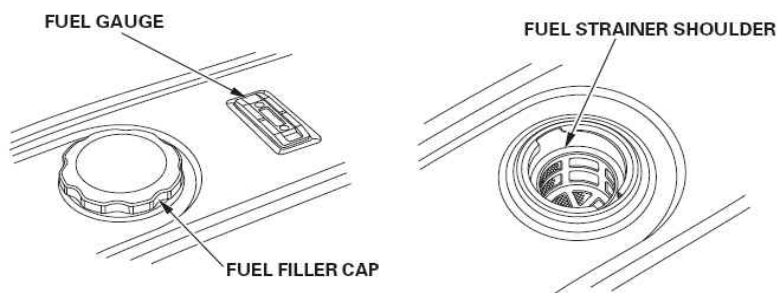
- ◆ Check the fuel gauge, and refill the tank if the fuel level is low.
- ◆ Refuel carefully to avoid spilling fuel. Do not fill above the shoulder of the fuel strainer.

WARNING:

Gasoline is highly flammable and explosive, and you can be burned or seriously injured when refueling.

- Stop engine and keep heat, sparks, and flame away.
- Refuel only outdoors.
- Wipe up spills immediately.
- ◆ Use unleaded gasoline with a octane rating of 86 or higher.
- ◆ This engine is certified to operate **ONLY** on unleaded gasoline.

Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life. Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.



STARTING THE ENGINE / STOPPING THE ENGINE

Starting the Engine

- 1 Make sure that the AC circuit breaker is in the OFF position. The generator may be hard to start if a load is connected.
- 2 Turn the fuel valve lever to the ON position.
- 3 The choke will need to be closed, pull the choke rod out to the CLOSED position.
- 4 Connect the battery cables to the generator.
- 5 Turn the engine switch to the START position and hold it there for 5 seconds or until the engine starts.

WARNING:

Operating the starter motor for more than 5 seconds can damage the motor. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.

If the speed of the starter motor drops after a period of time, it is an indication that the battery should be recharged.

When the engine starts, allow the engine switch to return to the ON position.

Push the choke to the OPEN position as the engine warms up.

Stopping the Engine

In an emergency:

To stop the engine in an emergency, move the engine switch to the OFF position.

In normal use:

- 1 Turn the AC circuit breaker to the OFF position. Disconnect DC battery charging cables.
- 2 Turn the engine switch to the OFF position.
- 3 Turn the fuel valve lever to the OFF position.

OPERATING INSTRUCTIONS

Connections to a Building Electrical System

Connections for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power, and must comply with all applicable laws and electrical codes. A transfer switch, which isolates generator power from utility power, is prerequisite.

WARNING:

Improper connections to a building electrical system can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored. Consult the utility company or a qualified electrician.

Ground System

The portable generators have a system ground that connects generator frame components to the ground terminals in the AC output receptacles. The system ground is not connected to the AC neutral wire.

AC Applications

Before connecting an appliance or power cord to the generator:

- ◆ Make sure that it is in good working order. Faulty appliances or power cords can create a

potential for electrical shock.

- ◆ If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.
- ◆ Make sure that the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

WARNING:

Substantial overloading will open the circuit breaker. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit breaker or circuit protector OFF, but will shorten the service life of the generator.

AC Operation

- 1 Start the engine .
- 2 Turn the voltage selector switch to either position.

With the voltage selector switch in the “120/240V” position, you can use the 120V and 120/240V receptacles simultaneously. If you require more 120V only power, then select the "120V only" position, this will disable the 120/240V twist lock plug.

- 3 Switch the AC circuit breaker ON.
- 4 Plug in the appliance.

Most motorized appliances require more than their rated power for startup.

Do not exceed the current limit specified for any one receptacle. If an overloaded circuit causes the AC circuit breaker or AC circuit protector to switch OFF, reduce the electrical load on the circuit, wait a few minutes and then reset the AC circuit breaker or AC circuit protector.

AC Receptacle Selection

The generator has two separate main power producing circuits. These two circuits supply equal power to different receptacles shown when the voltage selector switch is in the 120/240V position.

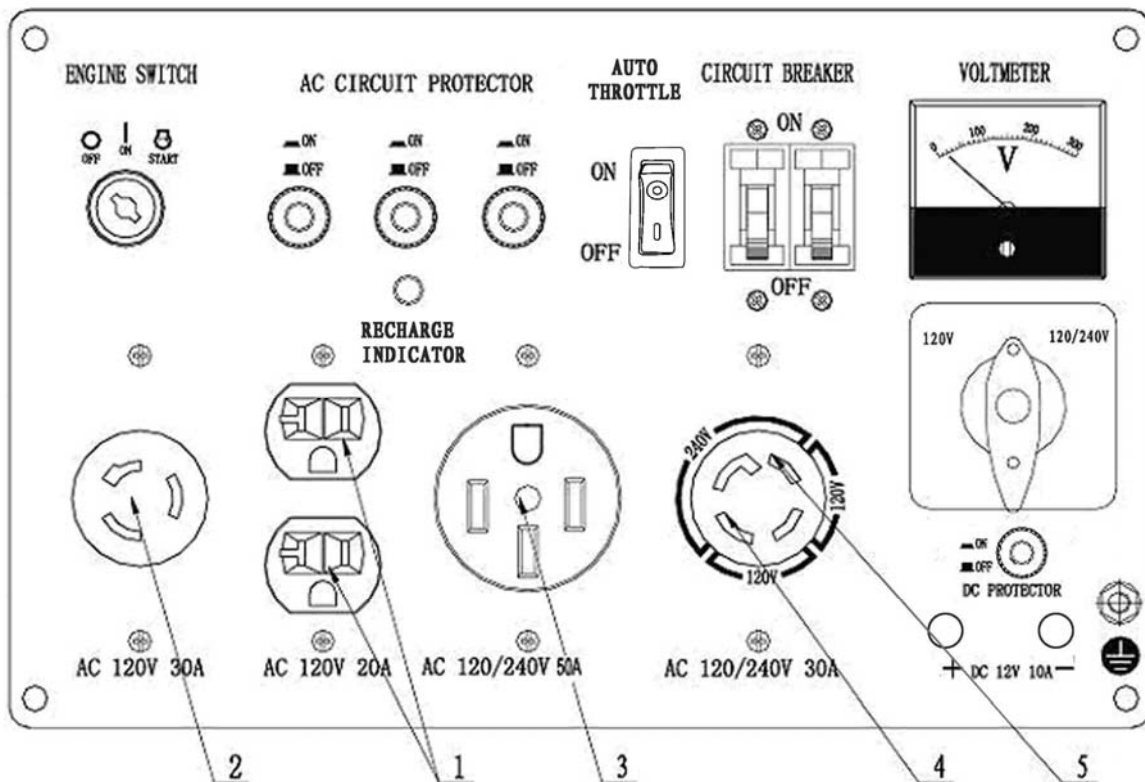
When two or more receptacles are used; prevent overloading by dividing the load between the two power circuits.

The chart below shows the rated load in amperes that can be connected to each receptacle to balance the generator.

The total rated ampere draw is 65A in 120V ONLY.

Main Power Circuit	Receptacles Powered by Each Main Circuit	Power Distribution
Main Circuit 1	2 and 5	2+5=32.5 A Rated
Main Circuit 2	1 and 4	1+4=32.5 A Rated

The table shows the specifications when the 120/240V locking plug receptacle is used for 120V.



DC Operation

The DC terminals may ONLY be used for charging 12 volt automotive type batteries.

Connecting the battery cables:

- 1 Before connecting the battery charging cables to a battery that is installed in a vehicle, disconnect the vehicle ground battery cable from the battery negative (–) terminal.

WARNING:

- ◆ Batteries give off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using batteries.
 - ◆ Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.
- 2 Connect the positive (+) battery cable to the battery positive (+) terminal.
 - 3 Connect the negative (–) battery cable to the battery negative (–) terminal.
 - 4 Connect the plug of the battery cable to the generator DC receptacle.
 - 5 Start the generator.

WARNING:

Do not start the vehicle while the battery charging cable is connected and the generator is running. The vehicle or the generator may be damaged. An overloaded DC circuit, excessive current draw by the battery, or a wiring problem will trip the DC circuit protector. If this happens, wait a few minutes before pushing in the circuit protector to resume operation.

Disconnecting the battery cables:

- 1 Stop the engine.
- 2 Disconnect the plug of the battery cable to the generator DC receptacle
- 3 Disconnect the other end of the negative (–) battery cable from the battery negative (–) terminal.
- 4 Disconnect the other end of the positive (+) battery cable from the battery positive (+) terminal.

- 5 Reconnect the vehicle ground battery cable to the battery negative (–) terminal.

High Altitude Operation

At high altitude, the standard carburetor air/fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions. High altitude performance can be improved by specific modifications to the carburetor. If you always operate your generator at altitudes above 5,000 feet (1,500 meters), have a dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life. Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

WARNING:

When the carburetor has been modified for high altitude operation, the air/fuel mixture will be too lean for low altitude use. Operation at altitudes below 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage.

MAINTENANCE

The Importance of Maintenance.

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

WARNING:

Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously injured or killed.

Always follow the inspection and maintenance recommendations and schedules in this instruction manual.

Maintenance Safety

- ◆ Make sure the engine is off before you begin any maintenance or repairs.
- ◆ Let the engine and exhaust system cool before touching.
- ◆ To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

Maintenance Schedule

Remember that this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

REGULAR SERVICE PERIOD (2)			Before each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs
ITEM Performed at every indicated month or operating hour interval, whichever comes first.							
●	Engine oil	Check	○				
		Change		○		○	
●	Air cleaner	Check	○				
		Clean			○(1)		
●	Sediment cup	Clean				○	
●	Spark plug	Clean-Adjust				○	
		Replace					○
●	Spark arrester	Clean				○	
●	Idle speed	Check-Adjust					○
●	Valve clearance	Check-Adjust					○
●	Combustion chamber	Clean	After every 500 Hrs.				
●	Fuel tank and filter	Clean				○	
●	Fuel tube	Check	Every 2 years(replace if necessary)				

(1) Service more frequently when used in dusty areas.

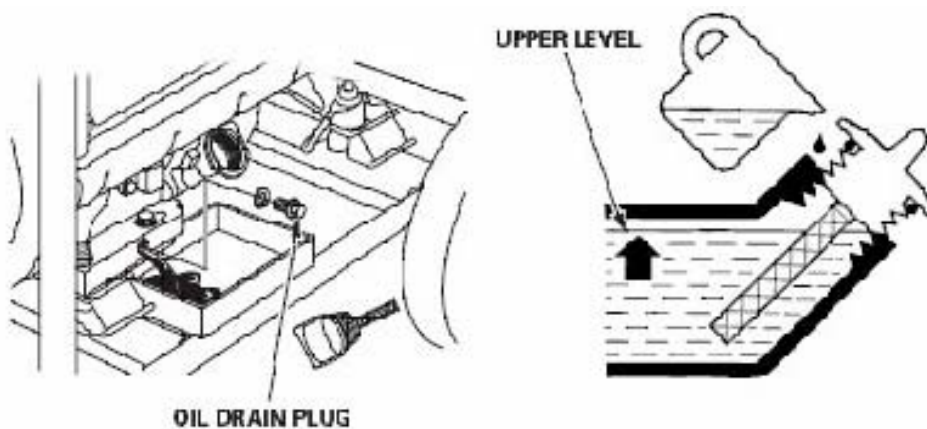
(2) For commercial use, log hours of operation to determine proper maintenance intervals.

Engine Oil Change

Drain the oil while the engine is warm to assure rapid and complete draining.

- 1 Remove the drain plug and sealing washer, remove the oil filler cap, and drain the oil.
- 2 Reinstall the drain plug and sealing washer. Tighten the plug securely.
- 3 Refill with the recommended oil and check the oil level.

Wash your hands with soap and water after handling used oil.



Air Cleaner Service

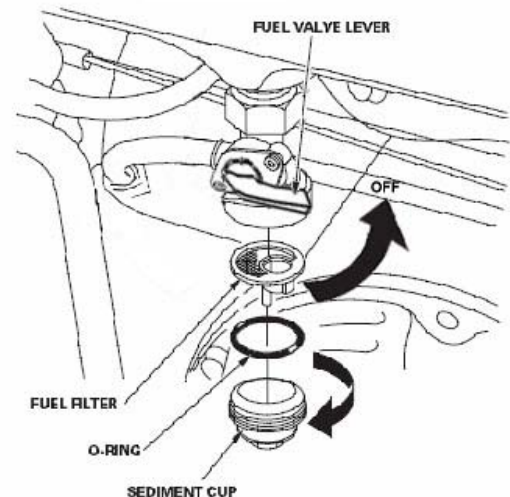
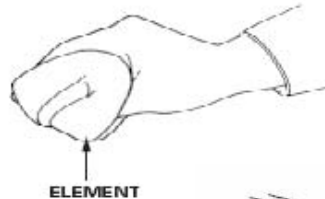
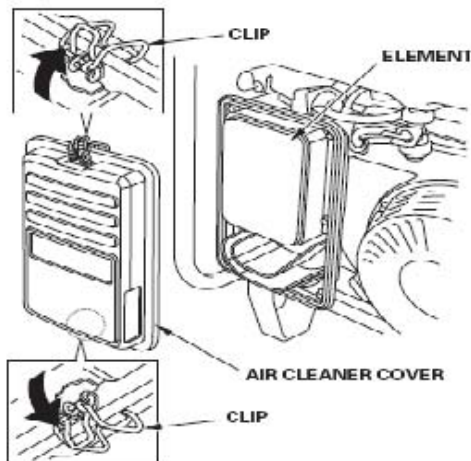
A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty

areas.

WARNING:

Never run the generator without the air filter. Rapid engine wear will result.

- 1 Unsnap the air cleaner cover clips, remove the air cleaner cover, and remove the element.
- 2 Wash the air cleaner element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flashpoint solvent. Allow the air cleaner element to dry thoroughly.
- 3 Soak the air cleaner element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial startup if too much oil is left in the air cleaner element.
- 4 Reinstall the air cleaner element and the cover.



Fuel Sediment Cup Cleaning

The sediment cup prevents dirt or water, which may be in the fuel tank from entering the carburetor. If the engine has not been running for a long time, the sediment cup should be cleaned.

- 1 Turn the fuel valve lever to the OFF position. Remove the sediment cup, O-ring, and filter.
- 2 Clean the sediment cup, O-ring, and filter in nonflammable or high flash point solvent.
- 3 Reinstall the filter, O-ring, and sediment cup.
- 4 Turn the fuel valve lever ON and check for leaks.

Spark Plug Service

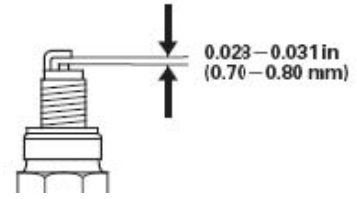
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits. If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

- 1 Remove the spark plug cap.
- 2 Clean any dirt from around the spark plug base.
- 3 Use a spark plug wrench to remove the spark plug.
- 4 Visually inspect the spark plug. Discard it if the insulator is cracked, chipped or fouled.
- 5 Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode.

The gap should be: 0.028 0.031 in (0.70 0.80 mm)

- 6 Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
- 7 After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

—If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 —1/4 turn after the spark plug seats to compress the washer.



WARNING:

The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine. Never use spark plugs which have an improper heat range.

STORAGE

Before storing the unit for an extended period:

- ◆ Be sure the storage area is free of excessive humidity and dust.
- ◆ Service according to the table below:

STORAGE TIME	TO PREVENT HARD STARTING RECOMMENDED SERVICE PROCEDURE
Less than 1 month	No preparation required
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner.
2 months to 1 year	Fill with fresh gasoline and add gasoline conditioner. Drain the carburetor float bowl. Drain the fuel sediment cup.
1 year or more	Fill with fresh gasoline and add gasoline conditioner. Drain the carburetor float bowl. Drain the fuel sediment cup. Remove the spark plug and put a tablespoon of engine oil into the cylinder head. Pull recoil starter slowly to distribute the oil evenly in the cylinder. Reinstall the spark plug. Change the engine oil. After removal from storage, drain the stored gasoline into a suitable container and fill with fresh gasoline before starting.

TROUBLESHOOTING

Note: Troubleshooting problems may have similar causes and solutions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The engine will not start	Is there fuel in the tank?	Refill the fuel tank.
	Is there enough oil in the engine?	Add the recommended oil.
	Is the spark plug in good condition?	Readjust gap and dry the spark plug. Replace it if necessary.
	Is the fuel reaching the carburetor?	Clean the fuel sediment cup.
No electricity at the AC receptacles	Is the AC circuit breaker ON?	Turn the AC circuit breaker ON.
	Check the electrical appliance or equipment for any defects.	<ul style="list-style-type: none"> • Replace the electrical appliance or equipment. • Take the electrical appliance or equipment to an electrical shop for repair.

EASY START INSTRUCTION

- 1) Fill with at least 1 gallon of fresh gas or until gas shows on the gauge.
- 2) Fill engine case with (10-30w) motor oil until you can see oil reach the top of dipstick threads. Replace oil cap/dipstick, low oil kill switch is now activated.
- 3) Turn on/off switch to ON position (located on control panel).
- 4) Turn fuel control valve to ON position.
- 5) Pull (CHOKE) lever out to the choke on position. Turn Key to Start or pull Recoil Start Rope (complete easy pulls) until generator starts.
- 6) After starting push (CHOKE) level in (slowly). If engine dies complete the above procedures. If Choke is left on and engine dies your spark plug could be fouled and may need to be cleaned.
- 7) Before plugging load into receptacles make sure you Circuit Breaker Switch is in the ON position.

GENERATOR ASSEMBLY AND MOUNTING

Generator is supplied with a wheel kit. If you want to install the wheel kit on your unit, please follow the instructions below. If you will not be using the wheel kit, skip this section.

1. Place the bottom of the generator cradle on a flat, even surface. Temporarily place unit on blocks to ease assembly.
2. Secure the support leg to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see figure 22).
3. Secure the axle to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see figure 23).
4. Slide a wheel over the axle, then secure the wheel with a retaining pin. (see figure 24, Figure 25, Figure 26).
5. Position the handles on the cradle and attach with cap screws (M8 X 16) and lock nuts (M8) (Figure 27, Figure 28).
5. Check that all fasteners are tight.



Figure 22



Figure 23

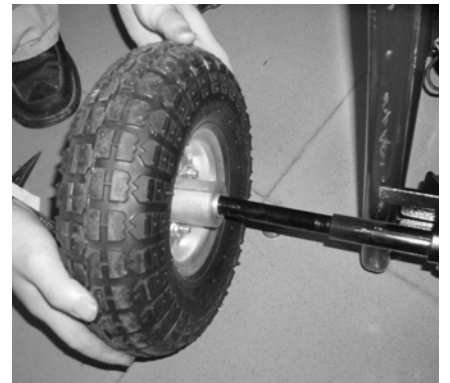


Figure 24



Figure 25



Figure 26

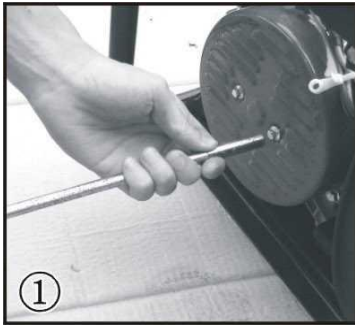


Figure 27



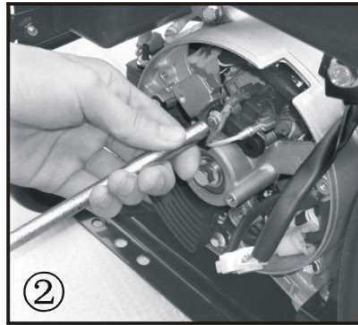
Figure 28

CHANGE THE CARBON-BRUSH



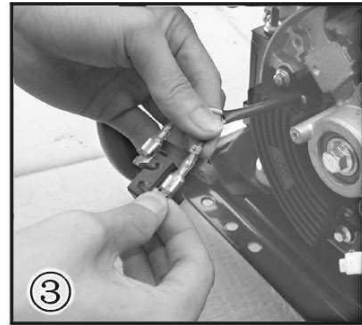
①

Remove the 2 bolts (M5x12) on the generator back-cover



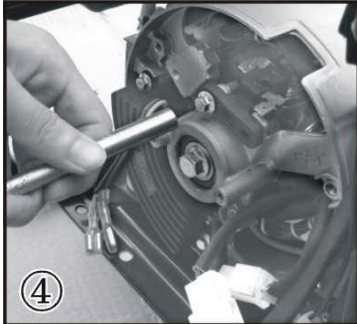
②

Remove the bolt (M5x16) holding the carbon brush.



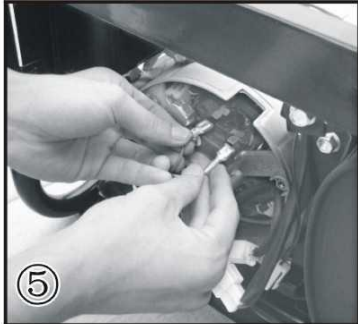
③

Remove the 2 wires from the AVR on the carbon brush.



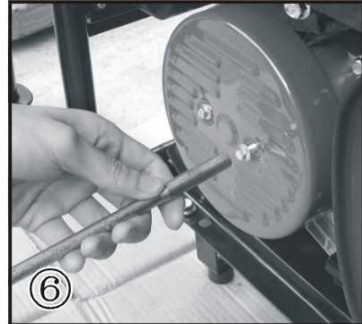
④

Install the new carbon brush with bolt (M5x16)



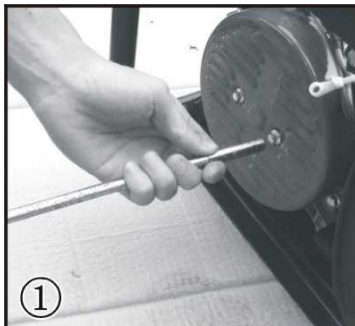
⑤

Insert and connect the 2 wires from the AVR, be sure to connect + and - correctly.



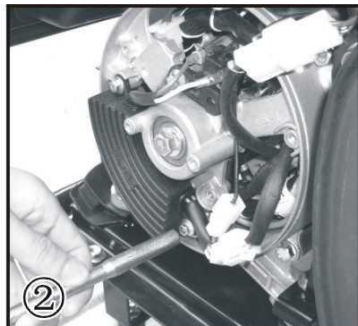
⑥

Replace the back cover of the generator and secure with the 2 bolts (M5x12)



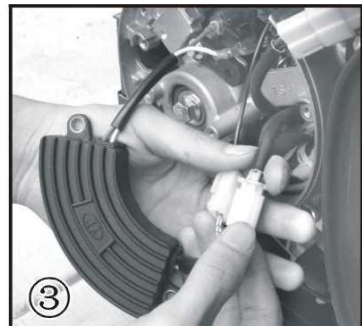
①

Remove the 2 bolts (M5x12) on the generator back cover.



②

Remove the 2 bolts (M5x16) holding the AVR.



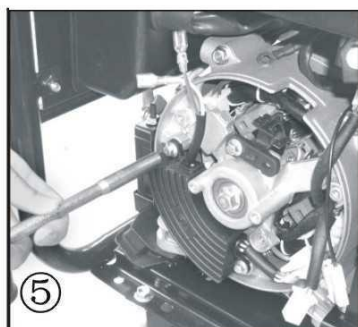
③

Disconnect the wire clip.



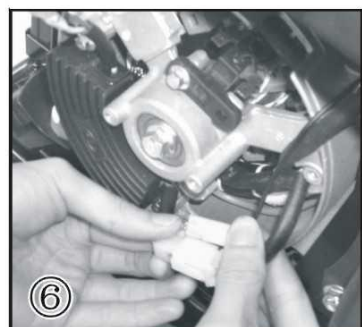
④

Remove the 2 wires of the AVR from the carbon brush.



⑤

Install the new AVR with the 2 bolts (M5x16).



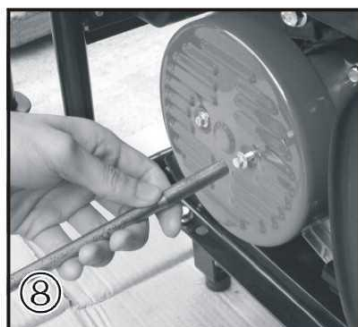
⑥

Reconnect the wire clip.



⑦

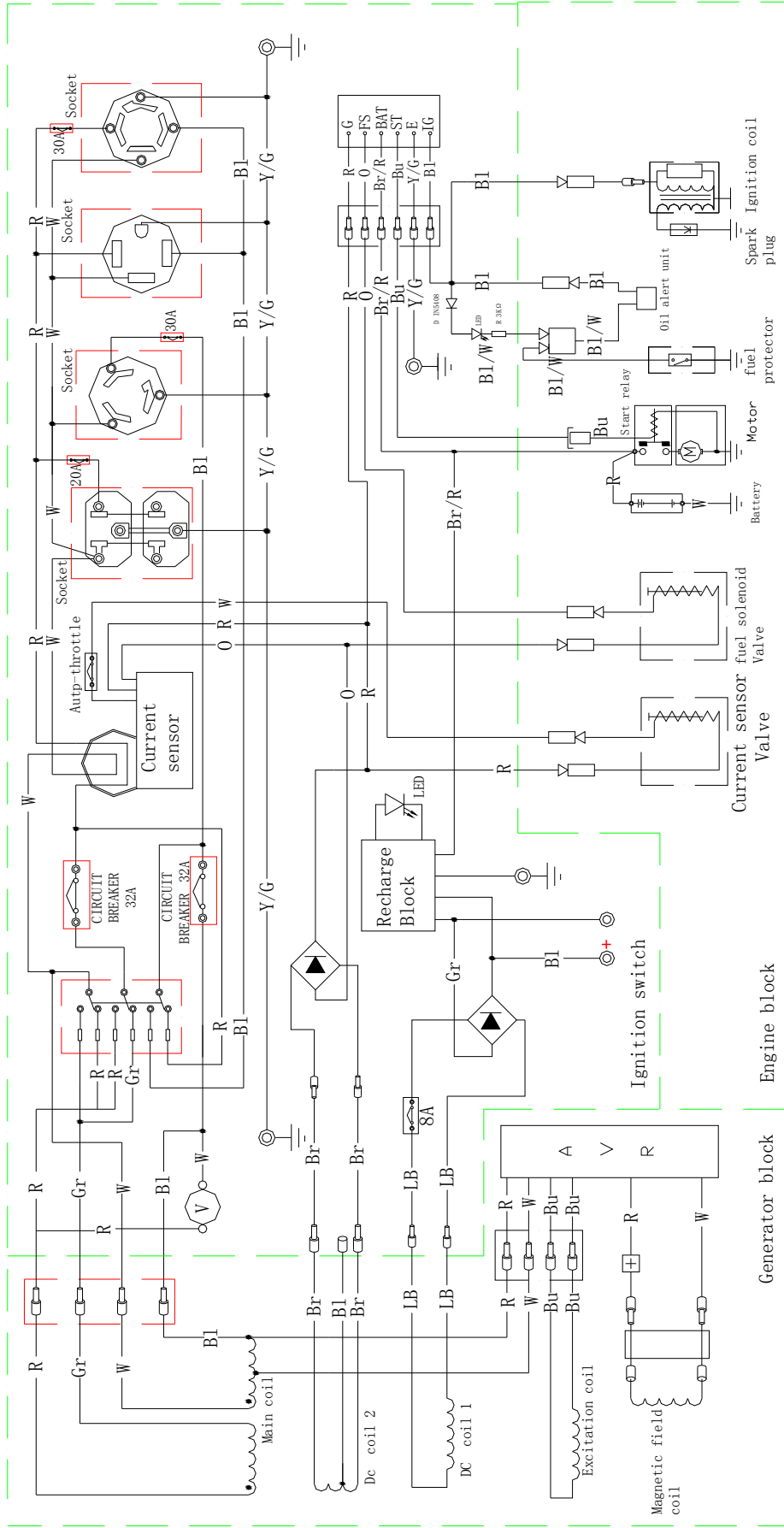
Connect the 2 wires to the carbon brush, be sure to connect the + and - correctly.



⑧

Replace the back cover of the generator and secure with the 2 bolts (M5x12).

WIRING DIAGRAM

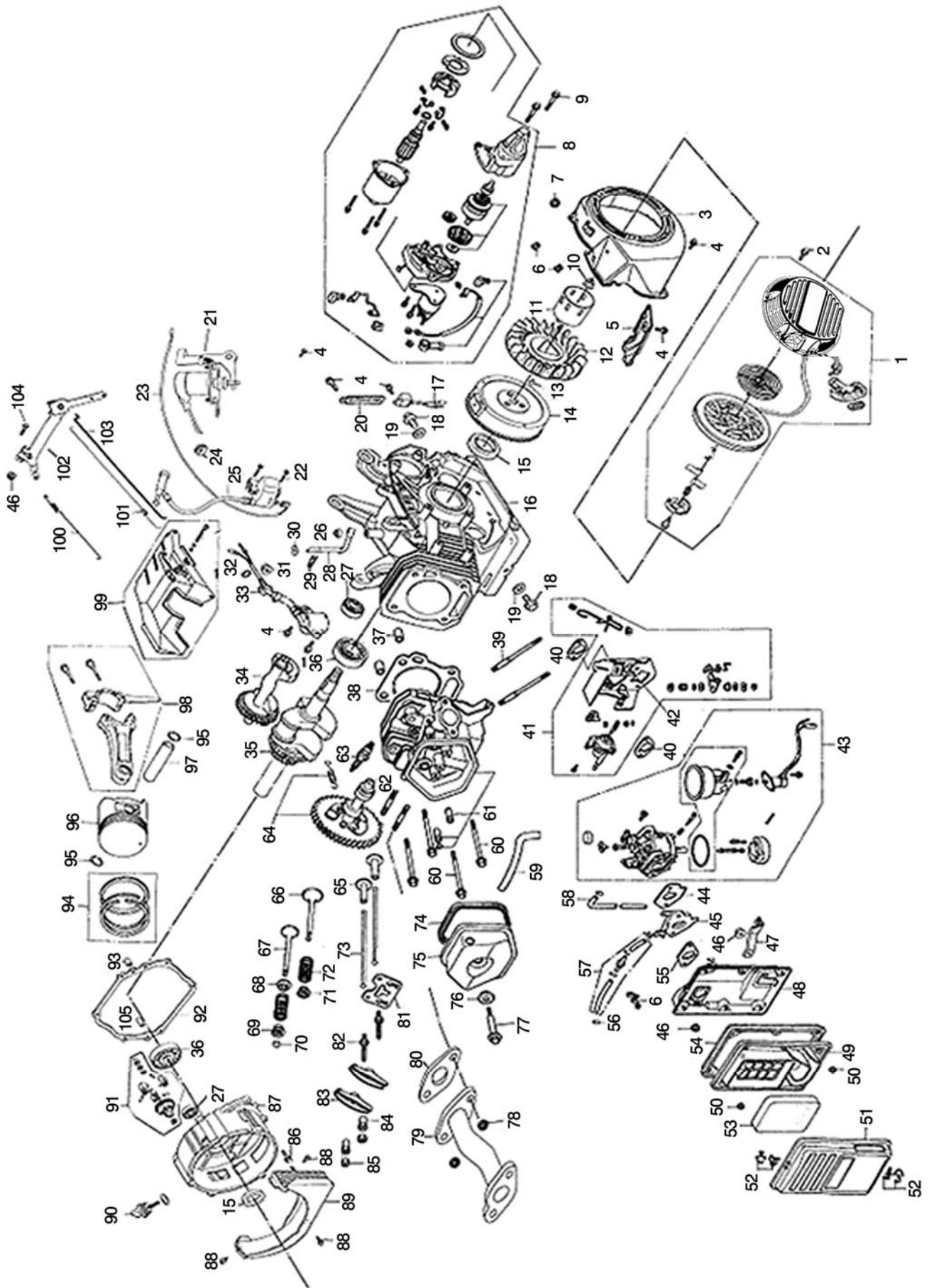


WIRING DIAGRAM OF 120V/240V GENERATOR SET

B1	Black	Br	Brown
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

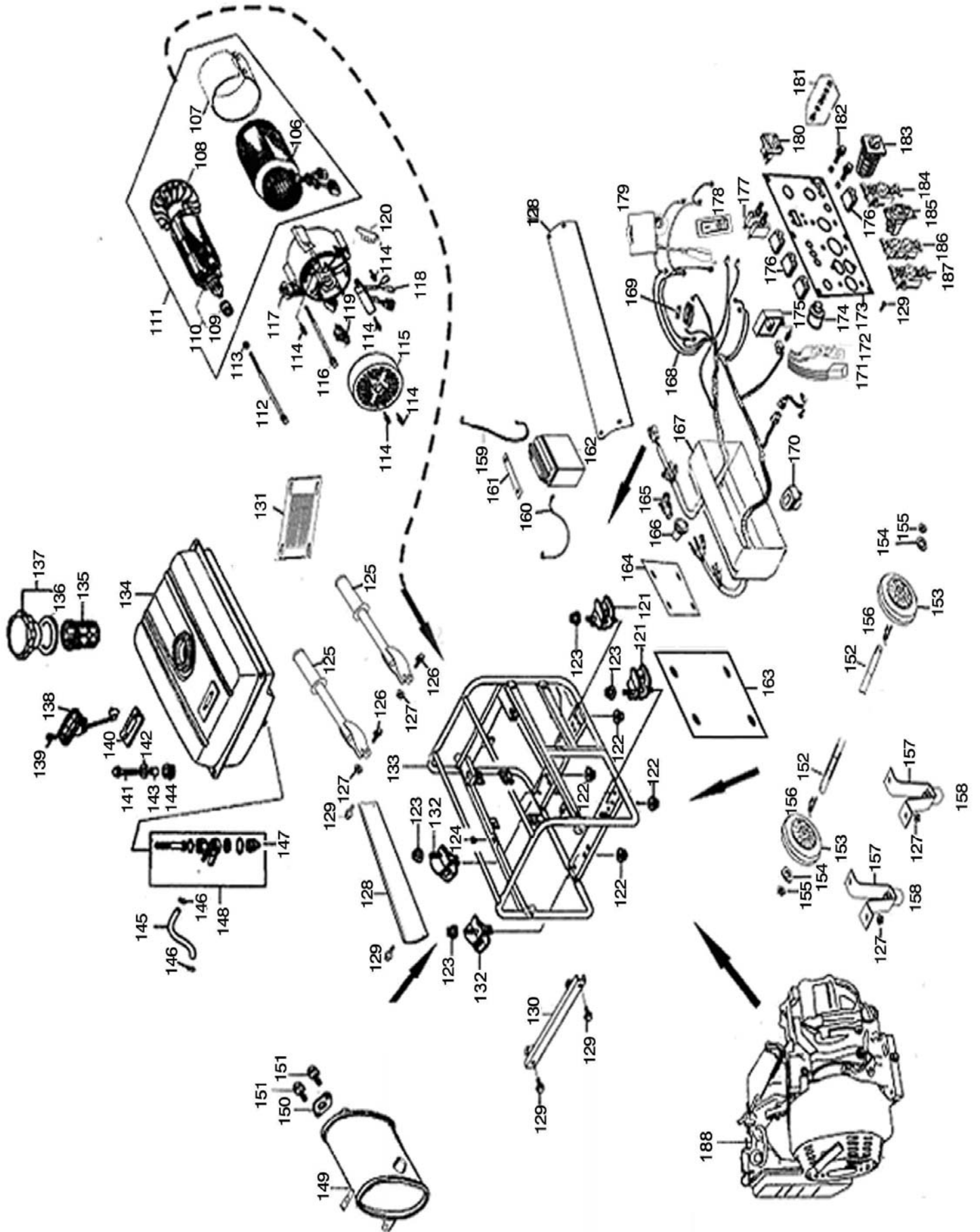
	IG	E	BAT	ST	FS	G
OFF	○	○				
ON	○	○				
Start						○

EXPLODED VIEW AND PARTS LIST



Item	Part	Qty	Description	Item	Part	Qty	Description
1	DJ188F-16121-C	1	Starter comp, recoil	43	DJ190FD-14100-A	1	Carburetor assy.
2	GBT5789-B6-8	3	Flange bolt M6×8	44	DJ188F-14003-B	1	Packing, carburetor
3	DJ188F-16120-A	1	Fan, cover comp	45	DJ188FD-14004-A	1	Insulator, carburetor
4	GBT5789-B6-12	13	Flange bolt M6×12	46	GBT6177/10-N-6	2	Flange nut M6
5	DJ188F-11012-A	1	Shroud comp	47	DF6500H-14205-A	1	Stay, air cleaner
6	DJ168F-11039-A	3	Clip. Wire darkness	48	DJ188FD-14203-A	1	Case comp, air cleaner
7	DJ168F-16118-A	1	Grommet drain hole	49	DJ188FD-14202-A	1	Retainer Filter Element
8	DJ188F-18600-A	1	Start motor	50	GB/T6177-2000	6	Flange nut M5
9	GBT16674	2	Flange bolt M8×35	51	DJ188FD-14204-A	1	Cover comp, air cleaner
10	GBT6177-N-14	1	Flange nut M14	52	DJ188FD-14207-A	2	Clip, air cleaner ware
11	DJ188F-16000-A	1	Pulley, starter	53	DJ188FD-14201-A	1	Element, air cleaner
12	DJ188F-16002-A	1	Fan, cooling	54	DJ188FD-14206-A	1	Seal, air cleaner
13	DJ168F-12104-A	1	Key	55	DJ188F-14005-A	1	Packing, insulator
14	DJ188F-16200-G	1	Flywheel comp	56	14601	4	Clip, tube
15	DJ188F-11014-A	2	Oil seal, 35×52×8	57	14013	1	Valve, dashpot check assy.
16	DJ190F-11100-D	1	Crank case assy.	58	14034	1	Tube, fuel φ45×165
17	DJ168F-18300-A	1	Amplifier	59	DJ188FD-11013-A	1	Tube, breather
18	DJ188F-11004-A	2	Bolt, drain lug	60	GBT5787-B10-80	4	Flange bolt M10×80
19	DJ188F-11005-A	2	Washer, drain lug	61	DJ188F-11200-B	1	Head comp, cylinder
20	DF2500H-34118-A	1	Clip, wire	62	DJ188F-14002-A	2	Bolt head, M8×48
21	34218-001	1	Idle Control Component	63	DJ168F-18500-A	1	Plug, spark
22	GBT5789-B6-25	2	Flange bolt M6×25	64	DJ190F-13100-C	1	Camshaft assy.
23	DJ188FB-18106-A	1	Cord stop switch	65	DJ190F-13009-A	2	Lifter, valve
24	DJ188F-11017-A	1	Grommet cord	66	DJ188F-13001-A	1	Valve, IN.
25	DJ188F-18100-C	1	Coil assy. ignition	67	DJ188F-13002-A	1	Valve, EX.
26	DJ188F-15009-A		Oil seal, Φ8×φ14×5	68	DJ188F-13011-A	1	Seat, valve spring
27	DJ188F-11014-A	2	Oil seal, Φ 35×Φ52×8	69	DJ188F-13005-A	1	Retainer, EX. Valve spring
28	DJ188F-15001-A	1	Shaft, governor arm	70	DJ188F-13006-A	1	Rotator, valve
29	DJ188F-15003-A	1	Pin, lock	71	DJ188F-13004-A	1	Retainer, IN. Valve spring
30	DJ188F-15002-A	1	Washer, Φ8×1	72	DJ188F-13003-A	2	Spring, valve
31	GB/T6177-2000	1	Flange nut M10	73	DJ190F-13008-A	2	Rod, push
32	DJ188F-18202-A	1	O-ring,14mm	74	DJ188F-11011-A	1	Exhaust piper
33	DJ188F-18200-A	1	Oil Sensor	75	DJ188F-11300-B	1	Cover comp, head
34	DJ188F-12004-A	1	Balancing Shaft	76	DJ188F-11016-A	1	Washer comp head cover
35	DJ190F-12100-BB	1	Crankshaft comp	77	DJ188F-11015-A	1	Bolt, head cover
36	GB276-89-6207	2	Radial ball bearing (6207)	78	GBT6175-N-8	2	Nut M8
37	DJ188F-11009-A	2	Pin, dowel, 12×20	79	DJ188FD-14009-B	1	Pipe comp EX.
38	DJ190F-11010-C	1	Casket, cylinder head	80	DJ188FD-14010-A	1	Casket (B) EX. Pipe
39	DJ188FD-14001-A	2	Bolt head, 8×106	81	DJ188F-13300-A	1	Plate, push rod guide
40	DJ188F-14027-A	2	Gasket,Air Cleaner	82	DJ188F-13202-A	2	Bolt, pivot
41	DJ188F-14012-A	1	Stay assy. Manual choke	83	DJ188F-13201-A	2	Arm, valve rocker
42	DJ188F-14501	1	Grommet fender	84	DJ168F-13203-A	2	Nut, Arm, valve rocker
85	DJ168F-13204-A	2	Nut, pivot adjusting	96	DJ190F-12001-B	1	Piston

86	GBT16674-B8-40	7	Flange bolt M8×40	97	DJ190F-12002-A	1	Pin, piston
87	DJ188FD-11001-B	1	Crankcase cover	98	DJ190F-12200-B	1	Connecting rod assy.
88	GBT818-S5-10	3	Flange bolt M5×10	99	DJ188FD-15200-A	1	Control assy.
89	DF3800H-11032-A	1	Fan cover	100	DJ188F-15007-A	1	Spring, governor
90	DJ188F-11007-A	1	Cap assy. oil filler	101	DJ188F-15008-A	1	Spring, throttle return
91	DJ188F-15100-A	1	Governor kit	102	DJ188F-15004-B	1	Arm, governor
92	DJ188F-11003-B	1	Packing, case cover	103	DJ188F-15006-A	1	Rod, governor
93	DJ168F-11002-B	1	Pin, dowel, 7×12	104	DJ188F-15005-A	1	Bolt, governor arm
94	DJ190F-12300-A	1	Ping set assy. piston	105	DJ168F-11002-C	1	Pin, dowel, 9×12
95	DJ188F-12003-A	2	Clip, piston pin				



Item	Part	Qty	Description	Item	Part	Qty	Description
106	DF9000H33120	1	Stator Assy.	148	1DF2500H-14302-A	1	Fuel Cock
107	DF9000H-33129	1	Stator cover	149	XP10000E-14405-A	1	Muffler
108	DF3800H33023-A	1	Generator fan	150	DJ188FD-14010-A	1	Gasket Exhaust Pipe
109	GB276-89-6207	1	Radial ball bearing (6207)	151	GB5787-1996	2	Flange bolt M8×25
110	DF9000H-33110-A	1	Rotor comp	152	DF6500H-31018-I	2	Wheel shaft
111	DF9000H-33104-A-23602	1	Stator & Rotor Assy.	153	DF6500H-31017-O	2	Wheels 10"
112	DF9000H-33003-A	1	Bolt M10×1.25×290	154	GB97.1-85	2	Washer φ20
113	GB/T97.1-1987	1	Plain washerφ10	155	GBT6187-N-12	2	Flange nut M12
114	GB/T820-1988	7	Flange bolt M5×12	156	DF2500H-31019-B	2	Φ3 Pin
115	DF3800H-33006-B	1	Generator end cover	157	DF6500H-31020-A	2	Foot
116	DF9000H-33013-A	4	Flange bolt M6×200	158	DF9000H-31204-A	2	Square Rubber Absorber
117	DF6500H-33005-A	1	Support stand	159	DFD2500H-31040-006	1	Negative Wire of battery
118	DF8000H-33011-A	1	Voltage Regulator	160	DFD2500H-31038-006	1	Positive wire of battery
119	DF6500H-33001-A	1	Brush assy.	161	DF3800H-31033-A	1	Foot
120	DF1800H-33002-A	1	Connecting Plate	162	31300-003	1	18Ah battery
121	DF3800H-31202-A	2	Bottom rubber B	163	XP10000E-31001-B	1	Protector panel side
123	GB6183-N-10	4	Flange nut M10	164	XP10000E-31002-B	1	Protector Battery side
124	DF2500H-14304-A	1	Rubber Screws, Fuel Tank	165	34109-A	1	Boot, AC output wire
125	XP10000E-31058-H	2	Hand push	166	34109-B	1	Boot, main wire harness
126	GB5789-86	10	Flange bolt M8×20	167	34102-A	1	Control panel case
127	GBT6183-N-8	6	Nut M x8	168	34212-A	1	Wire harness Assy.
128	DFD9000H-31009-B	2	Frame cover	169	34208-028	1	Fuse
129	GBT5789-86	26	Flange bolt M8 x 16	170	34109	1	Boot, switch wire
130	XP10000E-31105-F	1	Frame comp, side	171	34225	1	Charger
131	DFD9000H-31004-A	1	Protector frame side	172	34226-001	1	Charge Indicator
132	DF3800H-31201-A	2	Bottom rubber A	173	34101-A	1	Control Panel
133	XP10000E-31100-F	1	Frame comp	174	34244	1	Engine switch(Key)
134	DF3800H-14300-C	1	Fuel tank	175	34211	1	Diode assay
135	14307	1	Fuel filter	176	34028-028	4	AC protector
136	14310	1	Packing ring	177	34206-017	1	Circuit breaker
137	14306	1	Fuel filler cap comp	178	34203-005	1	Idle control switch
138	14303	1	Fuel sensor	179	34217-001	1	Current sensor
139	GB/T819-2000	2	Screw M5×10	180	34205-001	1	Voltmeter
140	14313	1	Casket fuel tank	181	34017	1	Earth Terminal Set
141	GB/T5787-1996	4	Flange bolt M6×22	182	GBT5789-B6-16	4	Bolt M6×16
142	DF2500H-14311-A	4	Washer	183	34202-025	1	Voltage selector
143	14305	4	Collar	184	34204-003	1	Receptacles (30A)
144	14304	4	Cushion	185	34204-004	1	Receptacles (50A)
145	DJ188FD-14007-C	1	Outlet Pipe	186	34204-005	1	Receptacles (20A)
146	DJ168F-14008-A	2	Tube Cock	187	34204-001	1	Receptacles (30A)
147	14308	1	Grommet	188	DJ190N-BD	1	Gasoline engine