APG3006

Owner's Manual

1050 WATT PORTABLE GENERATOR

READ AND SAVE THESE INSTRUCTIONS!

HAVE QUESTIONS OR NEED SERVICE	DES QUESTIONS BESOIN D'UNE RÉPARATION	PREGUNTAS O NECESITA SERVICIO
DO NOT RETURN TO STORE	NE PAS RETOURNER AU MAGASIN	POR FAVOR NO REGRESE A TIENDA
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1050W 4 Stroke Generator

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SPECIFICATION

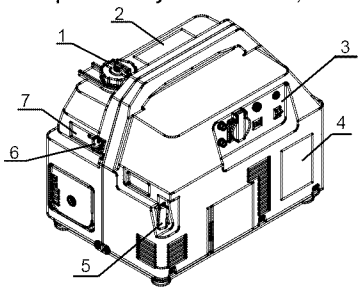
GENERATOR	TYPE	Single-phase, brushless
	Voltage	120V
	Max Power	1050w
	Rated Power	950kw
ENGINE	Type	1-cylinder, 4-stroke, forced air cooling gasoline engine
	Displacement	80.7 cc
	Rated Power	1.32kw/3600rpm
	Fuel	Unleaded gasoline
	Oil	SAE 10W-30
UNIT	Oil capacity	13.5 oz.
	Fuel tank capacity	1.1-gallons
	Dimensions (L_W_H)	17.3"_12.6"_16.1"
	Noise	<=65dB(A)
	Net weight	56 lbs.

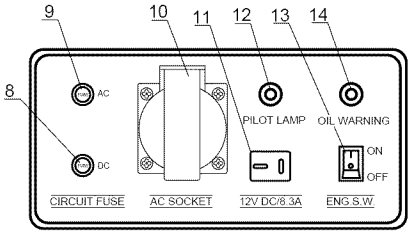
WARNING! READ AND UNDERSTAND ALL SAFETY PRECAUTIONS IN THIS MANUAL BEFORE OPERATING. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, AND/ OR VOIDING OF YOUR WARRANTY. ALL POWER AMERICA WILL NOT BE LIABLE FOR ANY DAMAGE BECAUSE OF FAILURE TO FOLLOW THESE INSTRUCTIONS.

1050W 4 Stroke Generator

Description

This generator is powered by an air-cooled, four-stroke, OHV engine.





1. Fuel tank cap
2. Safty label
3.Control panel
4.Generator nameplate
5. Starting handle
6. Fuel petcock
7. Carburetor choke lever
8. DC circuit fuse
9. AC circuit fuse
10. AC output socket
11. DC output socket
12. Pilot lamp
13. Engine ignition switch
14.Oil warning indicator lamp

UNPACKING

When unpacking the generator, carefully inspect for any damage that may have occured during shipment. Make sure any loose fittings, bolts, etc., are tightened before putting unit into service.

GENERAL SAFETY

1. Before starting or servicing any generator, read and understand all instructions. Failure to follow safety precautions or instructions can cause equipment damage and/or serious personal injury. Retain all manuals for future reference.

2. Never use this generator for any application other than that specified by the manufacturer. Never operate this generator under conditions not approved by the manufacturer. Never attempt to modify this generator to perform in any manner not intended by the manufacturer.

3. For maintenance and repairs, use only products and parts recommended by the manufacturer.

4. Be sure that the generator is properly grounded to an external ground path prior to operation. Refer to the section entitled "Grounding Instructions" for proper grounding procedures.

5. Be sure that the generator is operated only by persons who have read and understand these instructions.

6. Be sure that the generator is placed on a flat level surface prior to and during operation. The generator must not slide or shift during operation.

7. Keep all persons away from the generator during operation.

8. Do not allow persons wearing loose clothing or jewelry to start or operate the generator. Loose clothing or jewelry may become entangled in moving components causing equipment damage and/or personal injury.

9. While in operation, keep all persons away from the immediate area surrounding your generator.

⚠ WARNING

Do not operate this generator on wet surfaces or in the rain.

10. Be sure all powered devices are shut off prior to connecting them to the generator.

11. Keep the generator clean and well maintained at all times.

12. Be sure that all tools and appliances are in good repair and are properly grounded. Use devices that have three prong power cords. If a extension cord is used, be sure that it has three prongs for proper grounding.

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Description

13. Never operate the generator with damaged, broken or missing parts. DO NOT operate the generator while any of the protective shrouds or guards are removed.

14. Do not refill the fuel tank while the engine is running. Use precautions to prevent fuel spillage during refills. Be sure the fuel tank cap is securely in place before starting the engine. Allow engine to cool for at least two minutes before refueling.

15. Be sure to store gasoline in clean containers that do not contain water, dirt or rust because this will cause the engine to shut down.

⚠ WARNING

Never operate this generator in an explosive atmosphere, inside your home or basement, or any other poorly ventilated area.

⚠ CAUTION

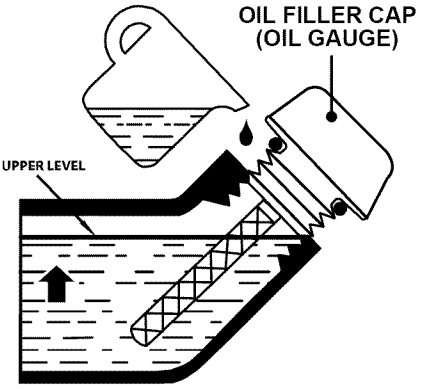
Shut off the generator engine and disconnect the spark plug wire before performing any service or maintenance to the unit.

OPERATION

PRE-OPERATION

1. Check fuel level before starting your generator. Always use clean, unleaded, mid-to-premium grade gasoline for best results. Do not overfill and allow some space at the top of the tank for expansion. We recommend that you use unleaded fuel because it produces fewer engine and spark plug deposits and extends the life of exhaust system components. Using lower octane gasoline can cause persistent "pinging" or heavy "spark knock" which, if severe, can lead to engine damage. If "spark knock" or "pinging" occurs at a steady engine speed under normal load, change brands of gasoline.

2. Check oil level before starting the engine. The oil level should be positioned between the lower and upper marks of the oil fill cap shown.



⚠ CAUTION

- **The generator is shipped from the factory without oil in the engine crankcase.**
- **Engine oil is a major factor affecting engine performance and service life. Detergent oils and vegetable oils are not recommended.**
- **Use premium quality 4-stroke motor oil. Do not add commercial additives to the recommended oil and do not mix gasoline with the oil.**
- **SAE 10W-30 is recommended for general, all-temperature use.**

3. Only after the generator has stabilized and is running smoothly should an appliance or tool be plugged into the AC outlet of the generator.

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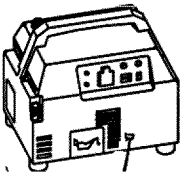
Grounding

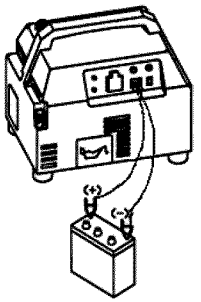


1. Use the ground terminal on the generator to connect the unit to a suitable ground source. Securely fasten the end terminal of the ground wire terminal on the generator.

2. A 10-gauge copper wire should be used to connect the ground terminal of the generator to the grounding rod. A wire that is too thin may not provide sufficient electrical current carrying capacity to be an adequate ground path.

3. The other end of the ground wire must be securely fastened to an approved ground source. Refer to the local regulations for ground source information. If not sure of regulations or procedures, obtain assistance from a qualified (licensed or certified) electrical technician.

DC APPLICATION



1. The DC output is designed for charging a 12-volt battery only.

2. The "+" (positive) terminal or the battery must be connected to the DC "+" terminal on the generator, and the "-"(negative) terminal of the battery must be connected to the DC "-" terminal on the generator.

STARTING

1. Remove all electrical loads from the generator.
2. Set the fuel switch to the open (ON) position.
3. Turn the engine switch in "ON" position.
4. Move the choke/run lever to the choke position.
5. Pull the starter rope with a brisk smooth motion.
6. Return choke/run lever to the switch to the run position.
7. After starting the generator, allow the engine to run for 2-3 minutes to stabilize before applying a load.

⚠ CAUTION

NEVER attempt to modify or adjust either the engine speed or the output voltage of your generator when it works normally.

Never operate your generator under these conditions:	Operate your generator only after you have:
1. Rain or inclement weather 2. Excessive vibration 3. Sparking 4. Electric output loss 5. Changing or fluctuating engine speed 6. Overheating in connected equipment 7. Damaged receptacles 8. Engine misfire 9. Damaged, broken or missing parts 10. Shrouds/guards removed	1. Read and understand these instructions 2. Clear immediate area of all persons 3. Properly grounded the generator 4. Properly grounded any tools or appliances that you'll be operating 5. Placed the generator on a flat, level surface 6. Placed the generator in a well ventilated area

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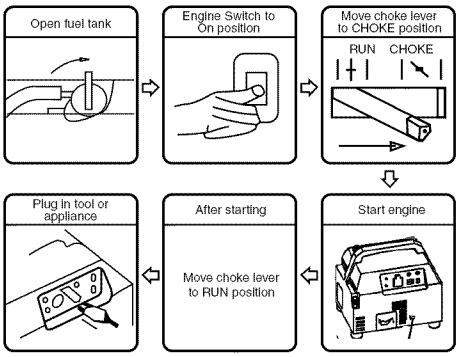
Operation



ENGINE BREAK-IN

The break-in period for the generator's engine is the first 25 hours of operation. During this timeframe, DO NOT exceed 75% of the generator's load limit. In other words, the maximum load during this break-in period should be no more than 700 watts.

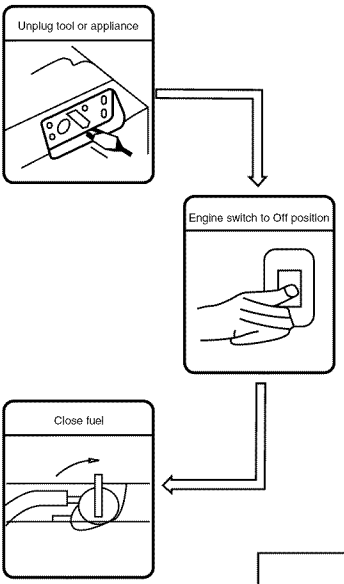
⚠ CAUTION

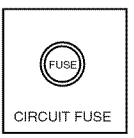
ALWAYS check the oil level before starting. When checking the oil, screw in the dipstick slowly until it bottoms. If running the generator for extended periods of time, check the oil level every eight hours or at least daily. Change oil after the first 8 hours of operation; thereafter, change the oil every 50 hours of operation. If operating the generator under heavy load or in high ambient temperature, change the oil every 25 hours of operation.

GENERATOR SHUT-OFF

1. Remove all electrical load devices from the generator.
2. Allow the engine to run for 2-3 minutes with no electrical load.
3. Turn engine switch off. This will stop the engine.
4. Set the fuel switch to closed (OFF) position.
5. Verify that the generator has completely stopped.
6. Allow the unit to cool before placing in storage.

LOAD AND PROTECTOR





1. Total combined load through any combination of receptacles must not exceed rated power of generator.
2. Reduce load if AC fuse or DC fuse melt and change another fuse.

NOTE:

Power draw can be calculated by multiplying volts and amps. The resulting number is wattage. Never exceed the posted maximum wattage for the generator or any individual receptacle. Refer to owner's manuals and product tags to determine the wattage of electrical load devices. Long power cords and extension cords draw additional power. Keep cord lengths at a minimum.

ESTIMATED POWER USAGE

Load Device	Watts	Load Device	Watts
Computer	300	Hand Vacuum	500
CD Player	100	Power Drill	500
VCR	100	Hedge Trimmer	500
Radio	100	Weed Wacker	500
Television	300	Coffee Maker	1200
Microwave	800	Outdoor Lights	75-150
Blender	800	Bug Light	50
Receiver	420	Cooker/Frying Pan	200

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Maintenance

INFREQUENT USAGE

If the generator is used infrequently, starting difficulties may occur. To help prevent this from happening, the generator should be started and run for approximately 30 minutes each week.

STORAGE

If the generator is not going to be used for an extended period of time, the following procedures should be performed:

1. Drain all fuel from the tank, lines, and carburetor.

2. Drain oil while the engine is still warm.

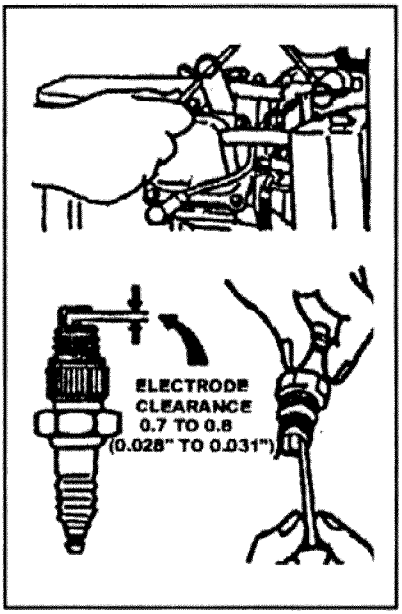
3. Remove spark plug. Clean off any carbon deposits. Check for discoloration - plug should be tan in color. Check the gap, it should be 0.7-0.8mm.

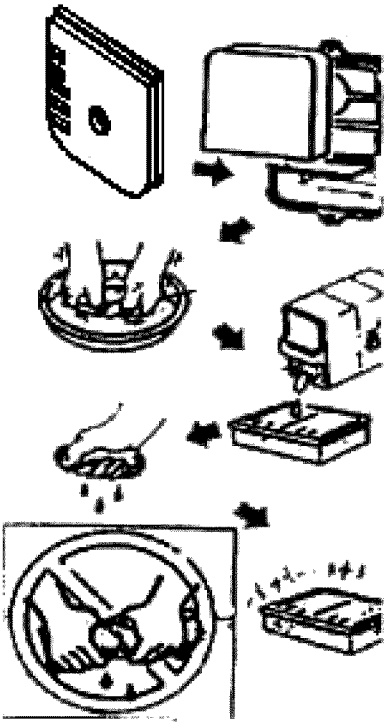
4. Pour approximately one teaspoon of oil into spark plug hole.

5. Pull starter cord several times to spread the oil throughout the cylinder.

6. Slowly pull the starter cord until resistance is left. This indicates that the piston is moving upward on the compression cycle, and the intake and exhaust valves are closed. The piston pushes a small amount of air from the spark plug hole on compression.

7. Remove air filter from the generator, gently wash in kerosene and let dry. Pour small amount of motor oil onto clean air filter, gently squeeze filter to uniformly distribute the oil, blot excess motor oil from air filter (do not twist filter), and replace the air filter.





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Maintenance

MAINTENANCE SCHEDULE

Part	Item	Before every starting	First month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every 12 Months or 300 hours
Spark plug	Check condition, adjust gap and clean. Replace or fill if necessary			•		
Oil	Check oil level. Replace or fill if necessary.	•				
Valve Clearance	Check and adjust					• (1)
Fuel Line	Check fuel hose for crack or damage. Replace if necessary.	•				
Exhaust System	Check for leakage. Retighten or replace gasket and bolts.	•				
Carburetor	Check choke lever operation.	•				
Cooling Fan	Check for damage.					•
Starting System	Check starter operation.	•				
Air Cleaner	Check and clean the element.			• (2)		
Generator Bolts	Check and tighten.				•	

(1) Valve clearance: Intake 0.13-0.20mm; exhaust 0.13-0.20mm
(2) Service more frequently when used in dusty areas.

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TroubleShooting

Problem	Possible Cause	Corrective Action
Zero output from receptacles	1. Engine speed is too slow	1. Adjust engine speed(ask repair shop for help)
	2. Open or shorted wiring	2. Clean and reconnect all wiring
	3. Faulty capacitor	3. Replace capacitor
	4. Open/ shorted rotor or stator windings	4.Test wiring resistance, replace winding if necessary
	5. Open rectifier	5. Test rectifier, replace if necessary
Low output voltage with no load	1. Engine speed is too slow	1. Adjust engine speed(ask repair shop for help)
	2. Open rectifier	2. Test rectifier, replace if necessary
	3. Faulty capacitor	3. Replace capacitor
	4.Open/shorted rotor or stator windings	4.Test winding resistance, replace winding if necessary
	5. Alternator not magnetized	5. Re-magnetize the alternator
High output voltage with no load	1. Faulty capacitor	1. Replace capacitor
	2. Engine speed is too fast	2. Adjust engine speed
Low output voltage under load	1. Open rectifier	1. Test rectifier, replace if necessary
	2. Engine speed is too low at full load	2. Adjust engine speed(ask repair shop for help)
	3. Excessive load applied	3. Reduce the applied load
Erratic output voltage	1. Dirty, corroded, or loose wiring connection	1. Referring to the wiring diagram, clean and reconnect all wiring
	2. Unbalanced load applied	2. Remove all loads, then apply each one individually to determine which one is causing erratic output.
Noisy operation	1. Loose generator or engine bolt	1. Tighten all mountings
	2. Short circuit in generator field or load	2. Test winding resistance, replace field winding if necessary; Test load devices for shorts. Replace defective load device
	3. Faulty bearing	3. Replace bearing
Engine won't start	1. No fuel	1. Check fuel
	2. Fuel switch is in closed position	2. Place fuel switch in open position
	3.Engine switch is in closed position	3. Place engine switch in open position
	4. Spark plug dirty or wrong gap	4. Clean spark plug. Adjust gap, replace if necessary
	5. Low cylinder compression	5. Check cylinder for leakage

Note: If the user is not comfortable performing any of the corrective actions mentioned in the Troubleshooting table, please seek the assistance of your local small engine repair shop.

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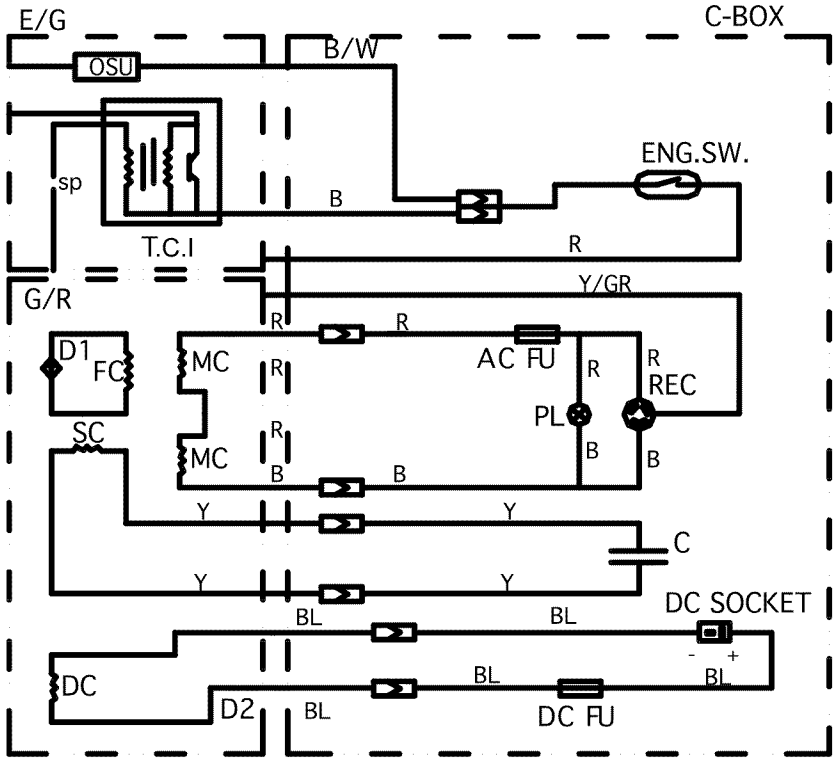
Wiring Diagram



E/G	ENGINE	MC	AC WINDING	B/W	BLACK AND WHITE
OSU	OIL SENDING UNIT	SC	AUXILIARY WINDING	B	BLACK
SP	SPARK PLUG	DC	CHARGING WINDING	GR	GREEN
G/R	GENERATOR	PL	PILOT LAMP	R	RED
D1/D2	RECTIFIER	REC	AC SOCKET	Y	YELLOW
AC FU	AC FUSE	DC FU	DC FUSE	B/R	BLACK AND RED
FC	FIELD WINDING	ENG.SW.	ENGINE SWITCH	BL	BLUE

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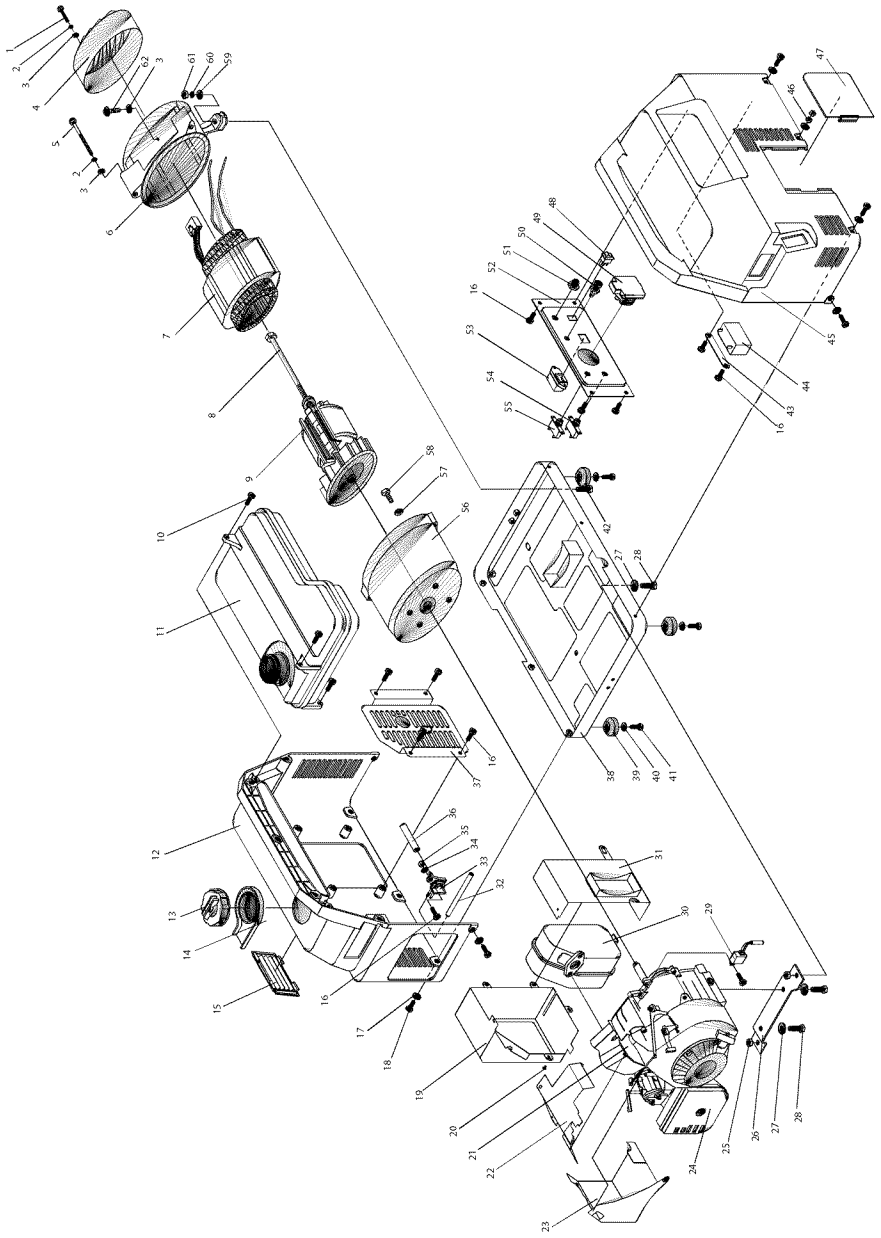
Parts List



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Parts List

No	Description	Part #	Qty	No	Description	Part #	Qty
1	Bolt	GB5780 M5*10	2	32	Out-fuel pipe		1
2	Spring Washer	GB93 5	7	33	Fuel petcock	GR1000C.05-03	1
3	Washer	GB95 5	6	34	Spring washer	GB/T93 ø6	1
4	Cover		1	35	Nut	GB/T6184 M6	1
5	Bolt	GB5780 M5*30	4	36	In-fuel pipe		1
6	Rear Cover, motor		1	37	Muffler exhaust cover	GR1000C.02-01	1
7	Stator		1	38	Base plate	GR1000C.02.03-00	1
8	Bolt	GR1000A-10	1	39	Vibration rubber pad	GR1000A-16	4
9	Rotor		1	40	Washer	GB/T96 ø 6	4
10	Bolt	GB/T5789 M6*16	4	41	Bolt	GB/T5781 M6*16	4
11	Fuel tank	GR1000C.05.01-00	1	42	Bolt	GB/T5781 M8*25	2
12	Back shroud	GR1000C.02.02-00	1	43	Capacitor mount	GR1000C.04-01	1
13	Fuel cap	GR1000C.05.02-00	1	44	Capacitor	AC 12UF 250V	1
14	Meeting set	GR1000C.05-04	1	45	Fore shroud	GR1000C.02.01-00	1
15	Spark plug inspecting Top	GR1000C.02-03	1	46	Nut	GB/T6170 M6	2
16	Bolt	GB/T5789 M6*12	11	47	Oil inspecting top	GR1000C.02-02	1
17	Washer	GB/T95 ø 6	15	48	Engine switch		1
18	Bolt	GB/T818 M6*12	15	49	AC Outlet		1
19	Muffler guided cover (outside)	GR1000C.03-02	1	50	Plot lamp		1
20	Self-tapping bolt	GB/T845 ST4.2*9.5	5	51	Oil warning lamp		1
21	Engine	A152F	1	52	Control panel	GR1000C.04.01-01	1
22	Cylinder head guided cover(up)	GR1000C.03-03	1	53	DC Outlet		1
23	Cylinder head guided cover(down)	GR1000C.03-04	1	54	DC Circuit breaker		1
24	Air-cleaner assembly	GR1000C.01.01-00	1	55	AC Circuit breaker		1
25	Nut	GB/T6184 M8	2	56	Fore cover, motor		1
26	Engine mount	GR1000A-17	1	57	Washer	GB97.2 8	4
27	Washer	GB/T95 ø 8	4	58	Bolt	GB5780 M8*20	4
28	Bolt	GB5781 M8*16	4	59	Washer	GB97.2 8	2
29	Oil alarmer		1	60	Spring washer	GB93 8	2
30	Muffler	GR1000C.01.02-00	1	61	Nut	GB/T6170 M8	2
31	Muffler guided cover (inside)	GR1000C.03-01	1	62	Bolt	GB/T818 M5*10	1

FOR TECHNICAL SUPPORT PLEASE
866.393.3968
All-Power America
16273 E. Gale Ave.
City Of Industry, CA 91745
626.855.0840
www.allpoweramerica.com