

AG Series

Portable Generator

Owner's manual

- *SAFETY
- *ASSEMBLY
- *OPERATION
- *TROUBLESHOOTING
- *WARRANTY



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INTRODUCTION

Thank you for purchasing this model by AMICO Power Corp., Inc. This model is a compact, high performance, air-cooled, engine driven generator designed to supply electrical power to operate electrical loads on job sites, or remote locations where no utility power is available or in place of utility due to a power outage.

READ THIS MANUAL THOROUGHLY

If any portion of this manual is not understood, contact the nearest authorized dealer for starting, operating and servicing procedures.

Throughout this publication, and on tags and decals affixed to the generator, DANGER, WARNING, CAUTION and NOTICE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows.

 DANGER After this heading, read instructions that, if not strictly complied with, will result in serious personal injury, including death and/or property damage.

 WARNING After this heading, read instructions that, if not strictly complied with, may result in serious personal injury and/or property. And minor injury.

 CAUTION After this heading, read instructions that, if not strictly complied with, could result in damage to equipment and/or property, and minor injury.

 NOTICE After this heading, read explanatory statements that require special emphasis and relate to property damage.

These safety warnings cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the service are essential to preventing accidents.

For commonly used safety symbols accompany the DANGER, WARNING and CAUTION blocks. The type of information each indicates is as follows.



This symbol points out important safety information that, if not followed, could endanger personal safety and/or property of others.



This symbol points out potential explosion hazard.



This symbol points out potential fire hazard.



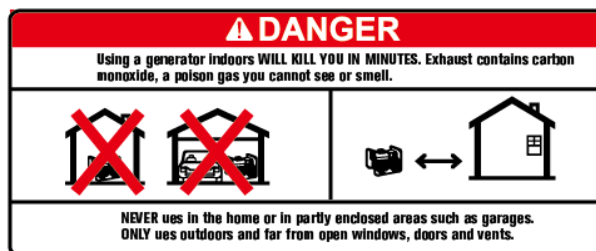
symbol points out potential electrical shock hazard.

The operator is responsible for proper and safe use of the equipment. We strongly recommend that the operator read this manual and thoroughly understand all instructions before using the equipment.



Using a generator indoors WILL KILL YOU IN MINUTES. Exhaust contains carbon monoxide, a poison gas you cannot see or smell.

Never use in the home, or in partly enclosed far from open windows, doors, vents, and in an area that will not accumulate deadly exhaust gas.



Always disconnect the spark plug wire and place the wire where they cannot contact the spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs to the generator.

- The generator produces dangerously high voltage that can cause extremely hazardous electrical shock, avoid contact with bare wires, terminals, etc. never permit any unqualified person to operate or service the generator.
- Never handle any kind of electrical cord or device while standing in water, while barefoot or while hands or feet are wet. Dangerous electrical shock will result.
- The national electric code requires the frame and external electrically conductive parts of the generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the generator. Consult with a local electrician for grounding requirements in the area.
- Do not use worn, bare, frayed or otherwise damaged electrical cord sets with the generator.
- Operate generator only on level surfaces and where it will not be exposed to excessive, moisture, dirt, dust or corrosive vapors.
- Gasoline is highly **FLAMMABLE** and its vapors are **EXPLOSIVE**. Do not permit smoking, open flames, sparks or heat in the vicinity while handling gasoline, avoid spilling gasoline on a hot engine. Comply with all laws regulating storage and handling of gasoline.



Never add fuel while unit is running. Allow generator and engine to cool entirely before adding fuel.



SAVE THESE INSTRUCTIONS- the manufacturer suggests that these for safe operation be copied and posted near the unit's installation site. Safety should be stressed to all operators and potential of this equipment.



Do not overfill the fuel tank; always allow room for fuel expansion. If tank is over-filled, fuel can overflow onto a hot engine and cause FIRE of an EXPLOSION.

- Never store generator with fuel in tank where gasoline vapors might reach an open flame, spark or pilot light (as on a furnace, water heater or clothes dryer). **FIRE** or **EXPLOSION** may result.

- Generator exhaust gases contain **DEADLY** carbon monoxide gas. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. Operate this equipment only in the open air where adequate ventilation is available.

! DANGER NEVER operate the generator indoors, in a garage, near an open window, door, ventilated intake, crawl space, other opening, or in an area that could accumulate exhaust gas.

! WARNING Allow at least five (5) feet, or greater, of clearance on all sides of generator or damage could be done to the unit. Never operate the unit inside any room or enclosure.

* Never start or stop the unit with electrical loads connected to receptacles AND with connected devices turned ON. Start the engine and let it stabilize before connecting electrical loads. Disconnect all electrical loads before shutting down the generator.

* Do not insert objects through unit's cooling slots.

* **Never operate generator:** in rain; indoors or in any enclosed compartment; if connected electrical devices overheat; if electrical output is lost; if engine or generator sparks; if flames or smoke are observed while unit is running; if unit vibrates excessively.

! WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer birth defects or other reproductive harm.

! WARNING

The product contains or emits chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Study these **SAFETY RULES** carefully before installing, operating or servicing this equipment. Become familiar with this manual and with the unit. The generator can operate safely, efficiently. Many accidents are caused by failing to follow simple and fundamental rules or precautions.

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and on tags and decals affixed to the unit are, therefore, not all inclusive, if using a procedure, work method or operating technique that it is safe for others. Also make sure the procedure, work method or operating technique utilized does not render the generator unsafe.

 **DANGER** Despite the safe design of this generator, operating this equipment imprudently, neglecting its maintenance or being careless can cause possible injury or death. Permit only responsible and capable persons to operate or maintain this equipment.

 Potentially lethal voltages are generated by these machines. Ensure all steps are taken to render the machine safe before attempting to work on the generator.

 Parts of the generator are rotating and/or hot during operation. Exercise care near running generators. Do not touch hot surfaces such as the muffler. Severe burns can occur on contact. Allow generator to cool before touching.

GENERAL HAZARDS

- Never operate in an enclosed area or indoors.
- For safety reasons, the manufacturer recommends that the maintenance of this equipment is carried out by an authorized dealer.
- The engine exhaust fumes contain carbon monoxide, which can be DEADLY. This dangerous gas, if breathed in sufficient concentrations, can cause headaches, fatigue, **DIZZINESS**, vomiting, confusion, **SEISURES**, fainting, unconsciousness or even death. This exhaust system must be properly maintained. Do nothing that might render the

exhaust system unsafe or in noncompliance with any local codes and/or standards. A CO alarm is highly recommended.

- Keep hands, feet, clothing, etc., away from drive belts, fans, and other moving or hot parts. Never remove any fan guard while the unit is operating.
- Adequate, unobstructed flow of cooling and ventilating air is critical to correct generator operation. Do not alter the installation, as this can seriously affect safe operation of the generator. The generator **MUST** be operated outdoors.
- When working on this equipment, remain alert at all times. Never work on the generator regularly, and contact the nearest authorized dealer for parts needing repair or replacement.
- Before performing any maintenance on the generator, disconnect its battery cables to prevent accidental start up. Disconnect the cable from the battery post indicated by a **NEGATIVE, NEG** or **(-)** first. Reconnect that cable last.
- Never use the generator or any of its parts as a step. Stepping on the unit can stress and break parts, and may result in dangerous operating conditions from leaking exhaust gases, fuel leakage, oil leakage, etc.
- Do not operate generator in the rain.

ELECTRICAL HAZARDS

*All generators covered by this manual produce dangerous electrical voltages and can cause fatal electrical shock. Utility power delivers extremely high and dangerous voltages as does the generator when it is in operation. Avoid contact with bare wires, terminals, connections, etc., while the unit is running. Ensure all appropriate covers, guards and barriers are in place before operating the generator. If work must be done around an operating unit, stand on an insulated, dry surface to reduce shock hazard.

*Do not handle any kind of electrical device while standing in water, while barefoot, or while hands or feet are wet.

DANGEROUS ELECTRICAL SHOCK MAY RESULT.

*The national electrical code (NEC) requires the frame and external electrically conductive parts of the generator to be connected to an approved earth ground. Local electrical codes

also may require proper grounding of the generator electrical system.

*In case of accident caused by electric shock, immediately shut down the source of electrical power, if this is not possible, attempt to free the victim from the live conductor. **AVOID DIRECT CONTACT WITH THE VICTIM.** Use a non-conducting implement, such as a rope or board, to free the victim from the live conductor. If the victim is unconscious, apply first aid and get immediate medical help.

*Never wear jewelry when working on this equipment. Jewelry can conduct electricity resulting in electric shock, or may get caught in moving components causing injury.

FIRE HAZARDS

*For fire safety, the generator must be operated and maintained properly. Operation must always comply with applicable codes, standards, laws and regulations. Adhere strictly to local, state and national electrical and building codes. Comply with regulations the occupational safety and health administration (OSHA) has established. Also, ensure that the construction of the generator or change controls which might create an unsafe operating condition.

*Keep a fire extinguisher near the generator at all times. Extinguishers rated “ABC” by the standby electric system, keep the extinguisher properly charged and be familiar with its use. If there are any questions pertaining to fire extinguishers, consult the local fire department.

*Gasoline is extremely flammable. Avoid spilling gasoline on HOT engine. Never add fuel while unit is running or hot. Do not overfill the fuel tank. Always allow room for fuel expansion in fuel tank. Wipe up spills immediately. Never fill fuel tank indoors.

EXPLOSION HAZARDS

*Do not smoke around the generator. Wipe up any fuel or oil spills immediately. Ensure that no combustible materials are left on or near the generator, as FIRE or EXPLOSION may result. Keep the area surrounding the generator clean and free from debris. Gasoline is highly FLAMMABLE and extremely EXPLOSIVE.

STANDARDS INDEX

In the absence of pertinent standards, codes, regulations and laws, the published information listed below may be used as a guideline for operation of this equipment. Always reference the latest revision available for the standards listed.

1. NFPA NO. 70, NFPA HANDBOOK OF NATIONAL ELECTRIC CODE.
 2. Article X, NATIONAL BUILDING CODE, available from the American insurance association, 85 John Street, New York, N, Y.10038.
 3. AGRICULTURAL WIRING HANDBOOK, available from the food and energy council, 909 university avenue, Columbia, MO65201
 4. ASAE EP-3634, INSTALLATION AND MAINTENANCE OF FARM STANDBY ELECTRICAL SYSTEMS, available from the American society of agricultural engineers, 2950 Niles road, St. Joseph, MI49085
 5. NFPA No. 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE.
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1.1 UNPACKING

- * Remove all packaging material.
- * Remove separate accessory box.
- * remove the generator from carton.

1.1.1 ACCESSORY BOX

Check all contents. If any parts are missing or damaged, locate an authorized dealer at 1-888-545-7788.

- * 1-Owner's manual
- * 2-Wheels
- * 1-Handle assembly
- * 1-Handle bracket
- * 1-Wheel axle
- * 1-Hardware bag (containing the following):
 - * 2-Rubber bumpers
 - * 2-Bumper brackets
 - * 2-M12 flat washers
 - * 5-M6-1 x 40 flange bolts
 - 7-M6 flange nuts
 - 2-Cotter pins
 - 2-Hubs
 - 2-M6-1.0X16 flange bolts

1.2 ASSEMBLY

The generator requires some assembly prior to using it ,if problems arise when assembling the generator, please call the AMICO Generator Help Line at 1-888-545-7788.

1.2.1 ASSEMBLING THE ACCESSORY KIT

The wheels are designed to the unit to greatly improve the portability of the generator.

NOTICE

The wheels are not intended for over-the-road-use.

1. Refer to figure 1 to install the wheels as shown.
 - *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.
2. Refer to figure 1 to install the wheel bumpers as shown.
 - *Insert an M6 bolt through the frame brackets.
 - *Slide on the hub, wheel and flat washer, and then insert the cotter pin through the wheel axle hole.
 - *Bend the cotter pin tabs outward to lock the pin in place.
3. Refer to figure 2 to install the handle assembly as shown.
 - *Insert the handle bracket onto the generator frame and secure with two M6 bolts and to M6 flange nuts.
 - *Align the handle assembly holes with the handle bracket holes and secure with one M6 bolt and one M6 flange nut.
4. Refer to figure 1 to install the battery as shown.

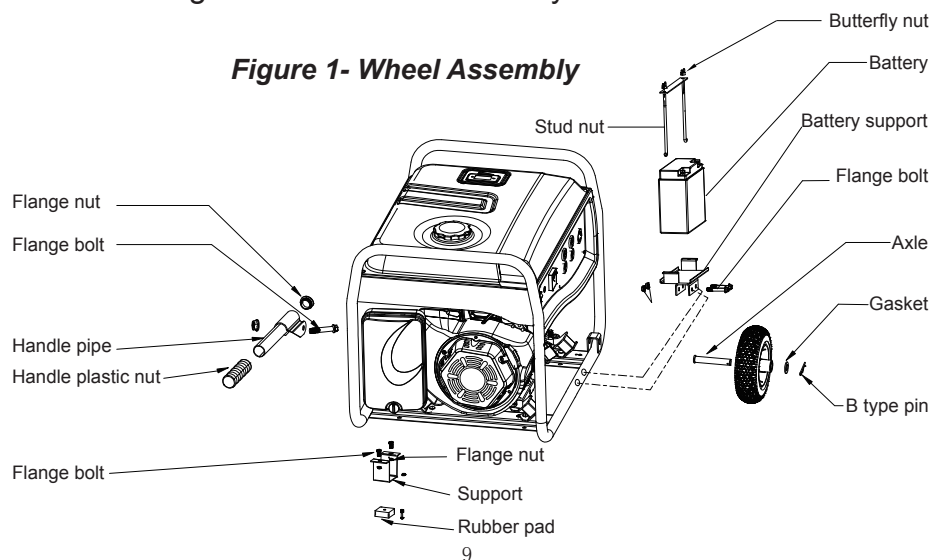
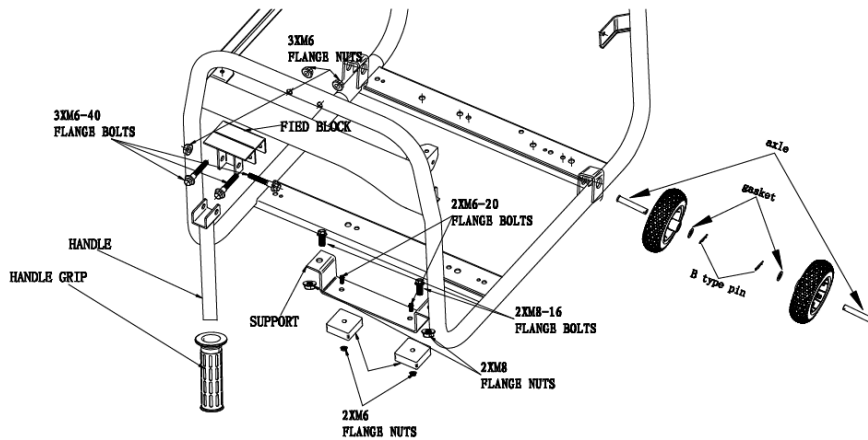


Figure 2-Handle Kit



2.1 KNOW THE GENERATOR

Read the owner's manual and safety rules before operating this generator.

Compare the generator to figures 3 through 5 to become familiarized with the locations of various controls and adjustments. Save this manual for future reference.

1. 120 Volt AC,20 amp, duplex receptacle-supplies electrical power for the operation of 120 volt AC.20 amp, single-phase, 60hz electrical lighting, appliance, tool and motor loads.
2. 240 Volt AC,30 amp, twist lock receptacle- supplies electrical power for the operation of 240 volt AC.30 amp, single-phase, 60hz electrical lighting, appliance, tool and motor loads.
3. Circuit breakers (AC) – each receptacle is provided with a push-to-reset circuit breaker to protect the generator against electrical overload.
4. Air filter- filters intake air as it is drawn into the engine.
5. Choke knob-used when starting a cold engine.
6. Fuel tank- tank holds 6.42 U.S gallons of fuel.
7. Grounding lug – ground the generator to an approved earth ground here. See “Grounding the generator” for details.
8. ON/OFF key switch- controls the operation of the generator.
9. Muffler-quiets the engine.
10. Handle-pivot and retract for storage.
11. Gas cap- fuel fill location.
12. Fuel gauge- shows fuel level in tank.

13. Oil check/fill- check and fill oil here.
14. Recoil start- use to start engine manually.
15. Fuel shut off- valve between fuel tank and carburetor.
16. Oil drain plug- used to drain engine oil.
17. Spark arrestor- reduces fire hazard by containing sparks.
18. Spark plug
19. Wheel

Figure 3– control panel

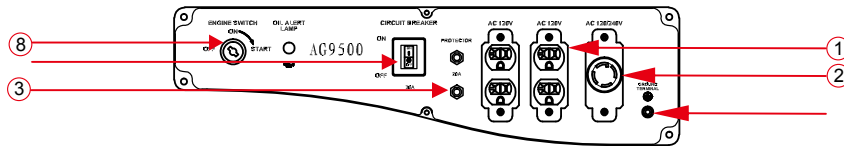


Figure 4 – generator controls

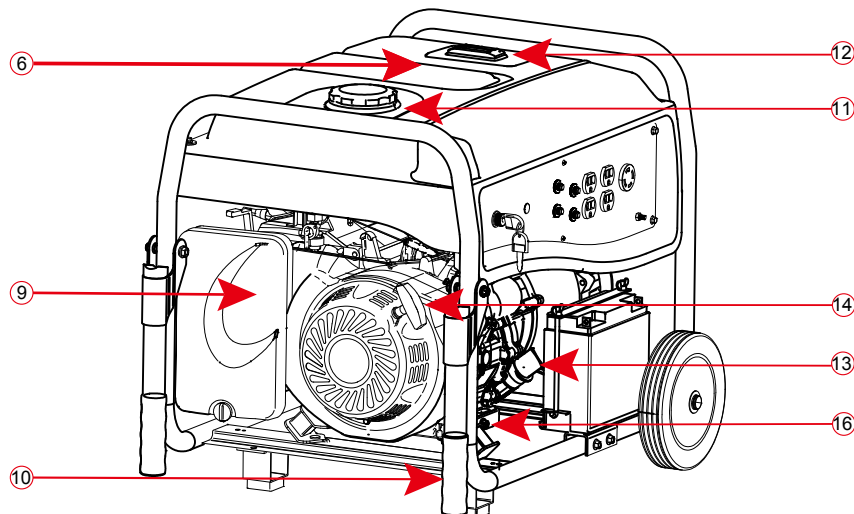
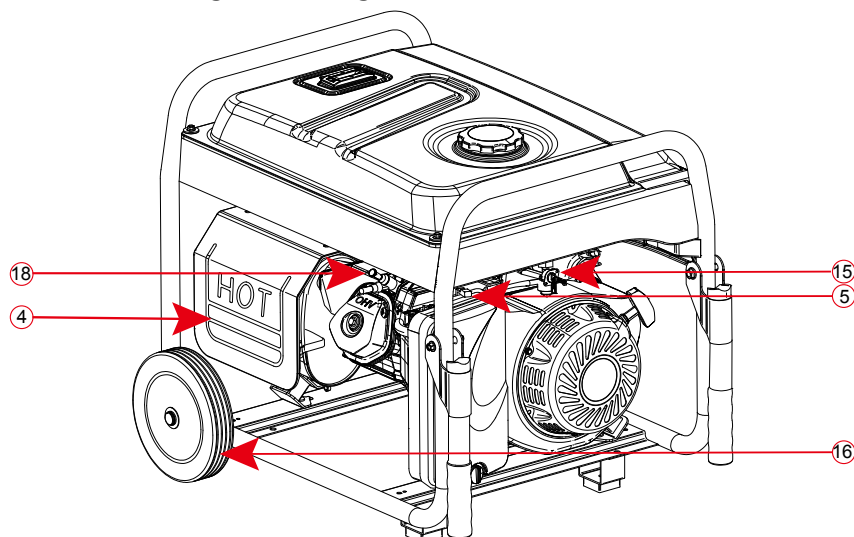


Figure 5 – generator controls



2.2 CORD SETS AND CONNECTION PLUGS

2.2.1 120VAC, 20 AMP, DUPLEX RECEPTACLE.

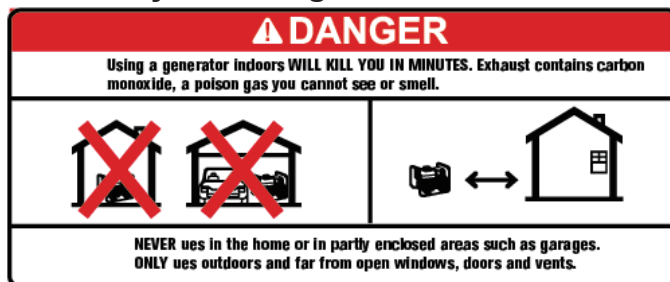
This is a 120 volt outlet protected against overload by a 13.5 amp push - to - reset circuit breaker 13.5 amps of current may be drawn from each socket; however, total power drawn must be kept within data plate ratings. Use only high quality, well insulated, 3-wire grounded cord sets rated for 125 volts at 20 amps (or greater).

2.3 HOW TO USE THE GENERATOR

If there are any problems operating the generator, please call the generator helpline at 1-888-545-7788

⚠ DANGER Using a generator indoors **WILL KILL YOU IN MINUTES**. Exhaust contains carbon monoxide, a poison gas you cannot see or smell.

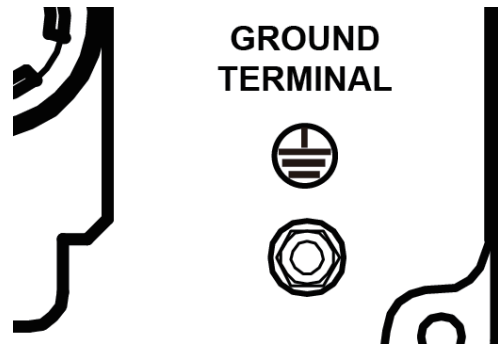
NEVER use in the home, or in partly enclosed far from open windows, doors, vents, and in an area that will not accumulate deadly exhaust gas.



2.3.1 GROUNDING THE GENERATOR

The national electrical code requires that the frame and external electrically conductive parts of this generator be properly connected to an approved earth ground (figure 7).local electrical codes may also require proper grounding of the unit. For that purpose, connecting a no. 10 AWG (American wire gauge) stranded copper wire to the grounding rod (electrode) provides adequate protection against electrical shock. However, local codes may vary widely. **Consult with a local electrician for grounding requirements in the area.**

Figure 7- grounding the generator



Proper grounding of the generator will help prevent **electrical shock** in the event of a ground fault condition in the generator or in connected devices. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices.

2.3.2 CONNECTING ELECTRICAL LOADS

Do not connect 240 volt loads to 120 volt receptacles. **Do not** connect 3-phase loads to the generator. **Do not** connect 50 Hz loads to the generator.

- *let engine stabilize and warm up for a few minutes after starting.
- *plug in and turn on the desired 120 or 240 volt AC. Single phase, 60 Hz electrical loads.
- *add up the rated watts (or amps) of all loads to be connected at one time. This total should not be greater than (a) the rated wattage/ampere capacity of the generator or (b) circuit breaker rating of the receptacle supplying the power. See "don't overload the generator".

2.4 DON'T OVERLOAD THE GENERATOR

Overloading a generator in excess of its rated wattage capacity can result in damage to the generator and to connected electrical devices. Observe the following to prevent overloading the unit:

- *Add up the total wattage of all electrical devices to be connected at one time. This total should NOT be greater than the generator's wattage capacity.
- *The rated wattage of lights can be taken from light bulbs. The rated wattage of tools, appliances and motors can usually be

found on a data label or decal affixed to the device.

*If the appliance, tool or motor does not give wattage, multiply volts times ampere rating to determine watts (volts x amps = watts).

*Some electric motors, such as induction types, require about three times more watts of power for starting than for running. This surge of power lasts only a few seconds when starting such motors. Make sure to allow for high starting wattage when selecting electrical devices to connect to the generator.

1. Figure the watts needed to start the largest motor.

2. Add to that figure the running watts of all other connected loads.

The wattage reference guide is provided to assist in determining how many items the generator can operate at one time.

! NOTICE All figures are approximate. See data label on appliance for wattage requirements.

2.5 WATTAGE REFERENCE GUIDE

Device.....	running watts
*Air conditioner (12,000 Btu).....	1700
*Air conditioner (24,000 Btu).....	3800
*Air conditioner (40,000Btu).....	6000
Battery charger (20 Amp).....	500
Belt sander (3").....	1000
Chain saw.....	1200
Circular saw(6-1/2").....	800to1000
*Clothes dryer (electric).....	5750
*Clothes dryer(gas).....	700
*Clothes washer.....	1150
Coffeemaker.....	1750
*Compressor (1hp)	2000
*Compressor(3/4hp).....	1800
*Compressor(1/2hp).....	1400
Curling iron.....	700
*Dehumidifier.....	650
Disc sander (9").....	1200
Edge trimmer.....	500
Electric blanket.....	400

Electric nail gun.....	1200
Electric range (per element).....	1500
Electric skillet.....	1250
*Freezer.....	700
*Furnace fan (3/5hp).....	875
*Garage door opener.....	500 to 750
Hair dryer.....	1200
Hand drill.....	250 to 1100
Hedge trimmer.....	450
Impact wrench.....	500
Iron.....	1200
*jet pump.....	800
Lawn mower.....	1200
Light bulb.....	100
Microwave oven.....	700 to 1000
*Milk cooler.....	1100
Oil burner on furnace.....	300
Oil fired space heater(140,000 Btu).....	400
Oil fired space heater (85,000 Btu).....	225
Oil fired space heater (30,000 Btu).....	150
*Paint sprayer, airless (1/3hp).....	600
Paint sprayer, airless (handheld).....	150
Radio.....	50 to 200
*Refrigerator.....	700
Slow cooker.....	200
*Submersible pump (1-1/2 hp).....	2800
*Submersible pump (1hp).....	2000
*Submersible pump (1/2 hp).....	1500
*Sump pump.....	800 to 1050
*Table saw (10").....	1750 to 2000
Television.....	200 to 500
Toaster.....	1000 to 1650
Weed trimmer.....	500
*Allow 3 times the listed watts for starting these devices	

2.6 BEFORE STARTING THE GENRATOR

Prior to operating the generator, engine oil and gasoline will need to be added, as follows:

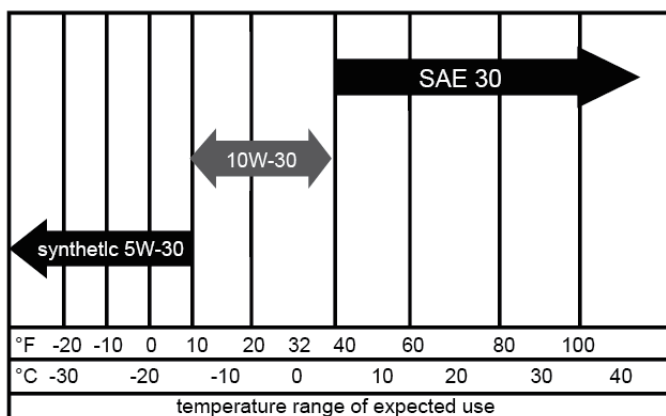
2.6.1 ADDING ENGINE OIL

All oil should meet minimum American petroleum institute (API) service class SJ, SL or better. Use no special additives. Select the oil's viscosity grade according to the expected operating temperature (also see chart).

*Above 40°F, use SAE 30

*Below 40°F and down to 10°F, use 10W-30

*Below 10°F, use synthetic 5W-30



! CAUTION Any attempt to crank or start the engine before it has been properly serviced with the recommended oil may result in an engine failure.

*Place generator on a level surface.

*Clean area around oil fill and remove oil fill cap and 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 over fill.**

*Install oil cap and finger tighten securely.

*Check engine oil level before starting each time thereafter.

2.6.2 ADDING GASOLINE

! DANGER Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Allow engine to cool entirely before filling fuel tank. Avoid a cigarette or smoke when filling the fuel tank. Gasoline is highly **FLAMMABLE** and its vapors are

EXPLOSIVE.

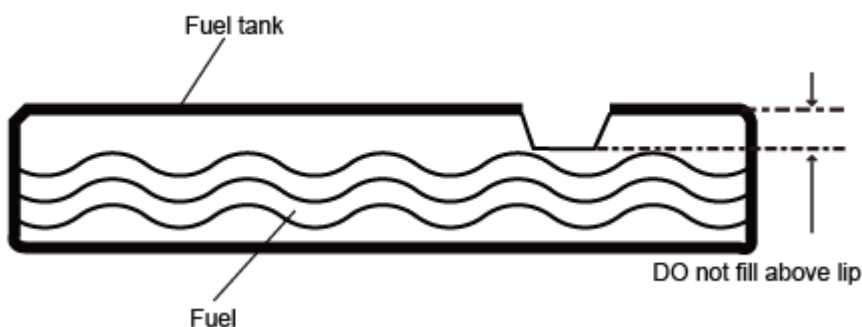
! CAUTION DO not overfill the fuel tank. Always leave room for fuel expansion. If the fuel tank is overfilled, fuel can overflow onto a **HOT** engine and cause **FIRE** or **EXPLOSION**.

*use regular UNLEADED gasoline with the generator engine. Do not use any gasoline with more than 10% added ethanol, and never use E85 gasoline. Do not mix oil with gasoline.

*Clean area around fuel fill cap, remove cap.

*Slowly add unleaded regular gasoline to fuel tank. Fill to bottom of screen filter. Be careful not to overfill (figure 8).

Figure 8 – fuel tank



IMPORTANT: 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 of an engine while in storage. To avoid engine problems, the fuel system 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.

2.7 TO START THE GENERATOR

! WARNING Never start or stop engine with electrical devices plugged into the receptacles **AND** devices turned on.

*Unplug all electrical loads from the unit’s receptacles before starting the engine.

- *Make sure the unit is in a level position.
- *Turn the fuel shut-off valve to the “ON” position (figure 9).
- *Turn engine **ON/OFF** switch to ON position (figure 9).
- *Move engine **CHOKE** lever to the START position (figure 10).
- *To start engine, firmly grasp the recoil handle and pull slowly until increased resistance is felt. Pull rapidly up and away.
- *When engine starts, move choke lever to 1/2-**CHOKE** position until engine runs smoothly and then fully into **RUN** position. If engine falters, move choke back out to 1/2-**CHOKE** position until engine runs smoothly and then to **RUN** position.

! NOTICE If engine fires, but does not continue to run, move choke lever to the **START** position and repeat starting instructions.

Figure 9 – fuel shut –off valve

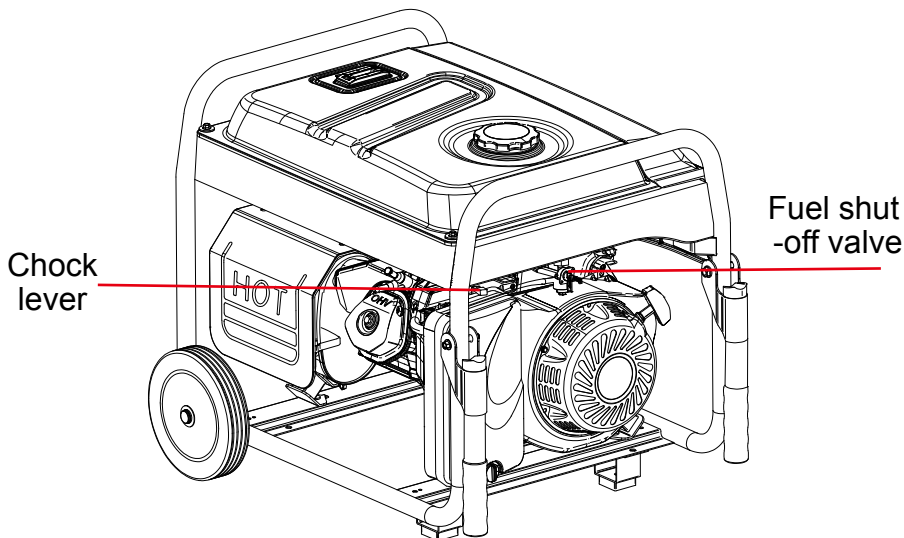
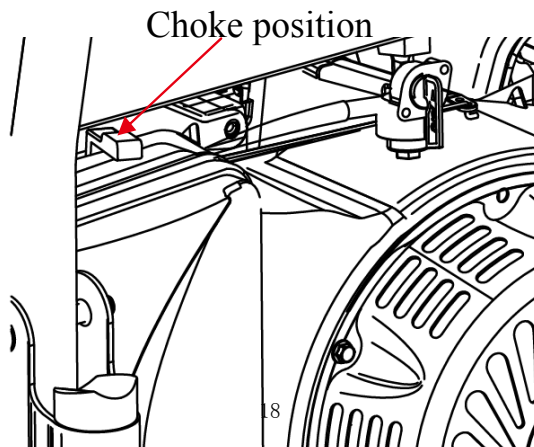


Figure 10 – choke position



IMPORTANT : Do not overload the generator. Also, do not overload individual panel receptacles. These outlets are protected against overload with push-to-reset-type circuit breakers. If amperage rating of any circuit breaker is exceeded, that breaker opens and electrical output to that receptacle is lost. Read “don’t overload the generator” carefully.

2.8 STOPPING THE ENGINE

- *Shut off all loads, and then unplug the electrical loads from generator panel receptacles. Never start or stop the engine with electrical devices plugged in and turned on.
 - *Let engine run at no-load for several minutes to stabilize the internal temperatures of engine and generator.
 - *Move ON/OFF switch to OFF position.
 - *Close fuel valve.
-

2.9 LOW OIL LEVEL SHUTDOWN SYSTEM

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

2.9.1 SENSING LOW OIL LEVEL

If the system senses a low oil level during operation, the engine shuts down. The engine will not run until the oil has been refilled to the proper level

3.1 MAINTENANCE SCHEDULE

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

Check oil level	At each use
Change oil +	*Every season
Check valve clearance	***Every season
Service air filter	**Every season
Replace spark plug	Every season
+Change oil after first 20 hours of operation, then every season.	
*Change oil every month when operating under heavy load or in	

high temperatures.

**Clean more often under dirty or dusty operating conditions.

Replace air filter parts if they cannot be adequately cleaned.

***Check valve clearance and adjust if necessary after first 50 hours of operation and every 100 hours thereafter.

3.2 PRODUCT SPECIFICATIONS

3.2.1 GENERATOR SPECIFICATIONS

Rated power..... 5KW (AG5500E);5.5KW(AG6500E)
;6KW(AG7500E);6.5KW(AG8500E);7.2KW(AG9500).

Surge. power.....5.5KW(AG5500E);6KW(AG6500E)
;6.5KW(AG7500E);7.2KW(AG8500E);7.8KW(AG9500E).

Rated AC voltage.....120/240V

Rated frequency.....60Hz@3600RPM

Phase.....single phase

**Maximum wattage is subject to, and limited by, such factors as fuel Btu content temperature, altitude, engine condition, etc...Maximum power decreases about 3.5% for each 1,000 feet above sea level; and will also decrease about 1% for each 6°C (10°F) above 16°C (60°F) ambient temperature.

3.2.2 ENGINE SPECIFICATIONS

Displacement.....389cc(AG5500E/AG6500E);420cc
(AG7500E/AG8500E/AG9500E).

Spark plug type.....F6TC,NGK BPR4ESor champion RN14YC.

Spark plug gap.....0.028-0.031 inch or (0.70-0.80mm)

Gasoline capacity.....25L(6.42.U.S.gallons)

Oil type.....see chart in “before starting the generator” section

Oil capacity.....1.1L (0.634Qts)

Run time.....12 hours at 1/2 Load
class II emission certified*

*The engine manufacturer must warrant the emission control system for a period of one year. This warranty coverage is in additions to the warranty provided by AMICO, and may cover the engine even if AMICO's warranty does not.

3.3 GENERAL RECOMMENDATIONS

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

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

All adjustments in the maintenance section of this manual should be made at least once each season. Follow the requirements in the “maintenance schedule”.



Once a year replace the spark plug and replace the air filter. A new spark plug and clean air filter assure proper fuel-air mixture and help the engine run better and last longer.

3.3.1 GENERATOR MAINTENANCE

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling air slots in the generator must not become clogged with snow, leaves, or any other foreign material.

Check the cleanliness of the generator frequently and clean when dust, dirt, oil, moisture or other foreign substances are visible on its exterior surface.



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



Do not use a garden hose to clean generator. Water can enter the engine fuel system and cause problems. In addition, if water enters the generator through cooling air slots, some water will be retained in voids and crevices of the rotor and stator winding insulation. Water and dirt buildup on the generator internal windings will eventually decrease the insulation resistance of these windings.

3.3.2 TO CLEAN THE GENERATOR

-
- *Use a damp cloth to wipe exterior surfaces clean.
 - *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.

3.3.3 ENGINE MAINTENANCE

⚠ DANGER When working on the generator, always disconnect spark plug wire from spark plug and keep wire away from spark plug.

3.3.4 CHECKING OIL LEVEL

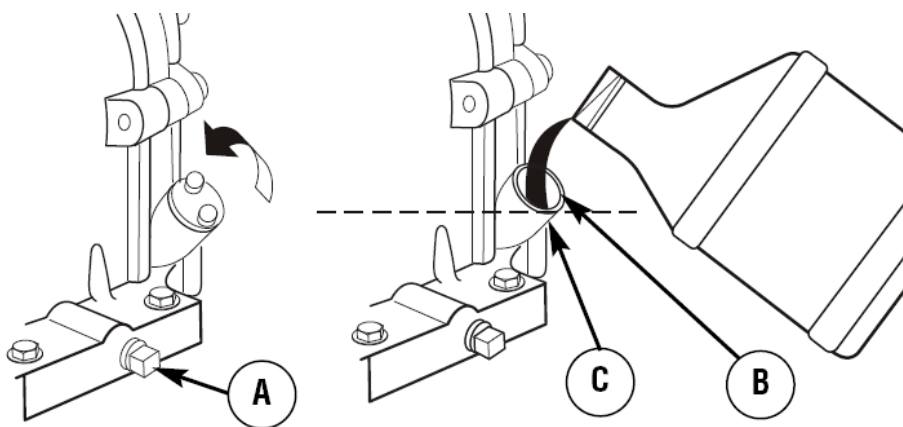
See the “before starting the generator” section for information on checking the oil level. The oil level should be checked before each use, or at least every eight hours of operation. Keep the oil level maintained (figure 11).

A. Oil Drain

B. Oil Check & Fill

C. The highest oil level

Figure 11- Oil drain, check & fill



3.3.5 CHANGING THE OIL

Change the oil after the first 10 hours of operation, then every

20 hours thereafter. If running this unit under dirty or dusty conditions, or in extremely hot weather, change the oil more often.



Hot oil may cause burns. Allow engine to cool before draining oil. Avoid prolonged or repeated skin exposure with used oil. Thoroughly wash exposed areas with soap.

Use the following instructions to change the oil while the engine is still warm:

- *Clean area around oil drain plug
- *Remove oil drain plug from engine and oil fill plug to drain oil completely into a suitable container.
- *When oil has completely drained, install oil drain plug and tighten securely.
- *Fill engine with recommended oil. (See “before starting the generator” for oil recommendations).
- *Wipe up any spilled oil.
- *Dispose of used oil at a proper collection center.

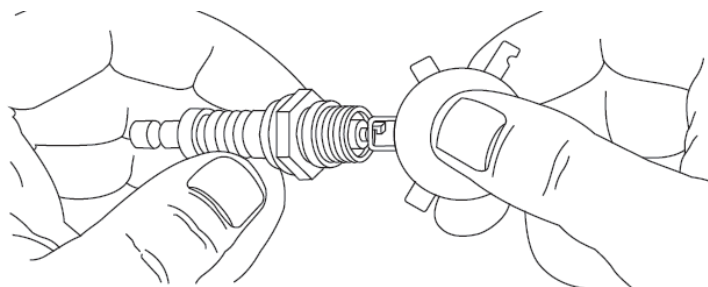
3.3.6 REPLACING THE SPARK PLUG

Use spark plug F6TC, NGK BPR4ES or champion RN14YC.

Replace the plug once each year. This will help the engine start easier and run better.

1. Stop the engine and pull the spark plug wire off of the spark plug.
2. Clean the area around the spark plug and remove it from the cylinder head.
3. Set the spark plug's gap to 0.70-0.80mm (0.028-0.031in). Install the correctly gapped spark plug into the cylinder head and torque to 15 ft/lbs (Figure 12).

Figure 12- Spark plug cap



3.3.7 SPARK ARRESTOR

- 1、 Shut off generator and allow the engine and muffler to cool down completely before servicing spark arrestor (located on the back of the muffler).
 - 2、 Remove the clamp and spark arrestor screen.
 - 3、 Clean the spark arrestor if it is damaged.
 - 4、 Replace the spark arrestor if it is damaged.
 - 5、 Installation of the spark arrestor screen is the reverse of the removal.
-

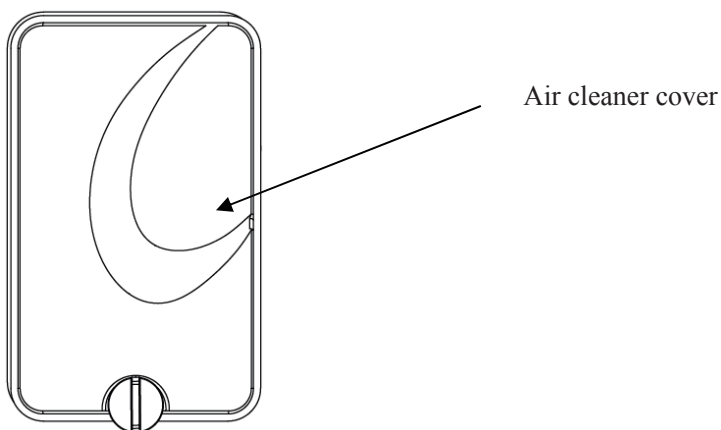
3.4 SERVICE AIR FILTER

The engine will not run properly and may be damaged if using a dirty air filter. Clean the air filter once a year (Figure 13). Clean or replace more often if operating under dusty conditions.

- * Remove air filter cover.
- * Wash in soapy water. Squeeze filter dry in clean cloth (do not twist).
- * Clean air filter cover before re-installing it.

! NOTICE To order a new air filter, please contact the nearest authorized service center at 1-888-545-7788

Figure 13- Air filter



3.5 VALVE CLEARANCE

* Intake- 0.10 ± 0.02 mm(cold),(0.003 ± 0.005 inches)

*Exhaust- 0.15 ± 0.02 mm(cold),(0.005 ± 0.007 inches)

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

Important: If feeling uncomfortable about doing this procedure or the proper tools are not available, please take the generator to the nearest service center to have the valve clearance adjusted. This is a very important step to ensure longest life for the engine.

3.6 GENERAL

The generator should be started at least once every seven days and be allowed to run at least 30 minutes. If this cannot be done and the unit must be stored for more than 30 days, use the following information as guide to prepare it for storage.

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

3.7 LONG TERM STORAGE

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel hose or tank during storage. Also , experience indicates that 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 of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer, as follows.

*Remove all gasoline from the fuel tank.

⚠ DANGER Drain fuel into approved container outdoors, away from open flame. Be sure engine is cool. Do not smoke.

* Start and run engine until stops from lack of fuel.

- * While engine is still warm, drain oil from crankcase. Refill with recommended grade.
- * Remove spark plugs and pour about 1/2 ounce(15ml) of engine oil into the cylinders. Cover spark plug hole with rag. Pull the recoil starter a couple times to lubricate the piston rings and cylinder bore.

⚠ CAUTION Avoid spray from spark plug holes when cranking engine.

- * Install and tighten spark plugs. Do not connect spark plug wires.
 - * Clean the generator outer surfaces. Check that cooling air slots and openings on generator are open and unobstructed.
 - * Store the unit in a clean, dry place.
-

3.8 OTHER STORAGE TIPS

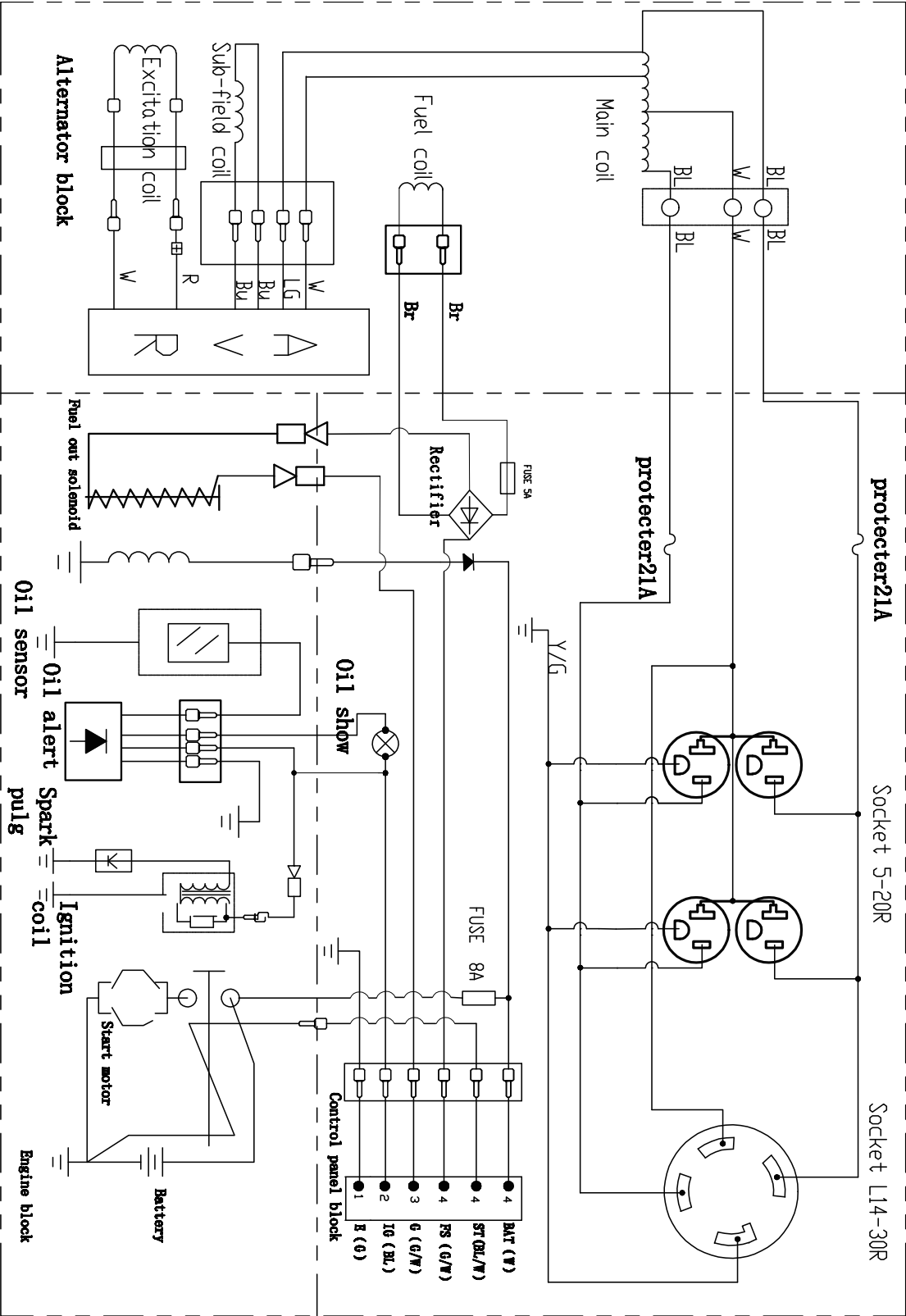
- * Do not store gasoline from one season to another.
- * Replace the gasoline can if it starts to rust. Rust and /or dirt in the gasoline will cause problems with the carburetor and fuel system.
- * If possible, store the unit indoors and cover it to give protection from dust and dirt. **Be sure to empty the fuel tank.**
- * If it not practical to empty the fuel tank and the unit is to be stored for some time, use a commercially available fuel stabilizer added to the gasoline to increase the life of the gasoline.
- * Cover the unit with a suitable protective cover that does not retain moisture.

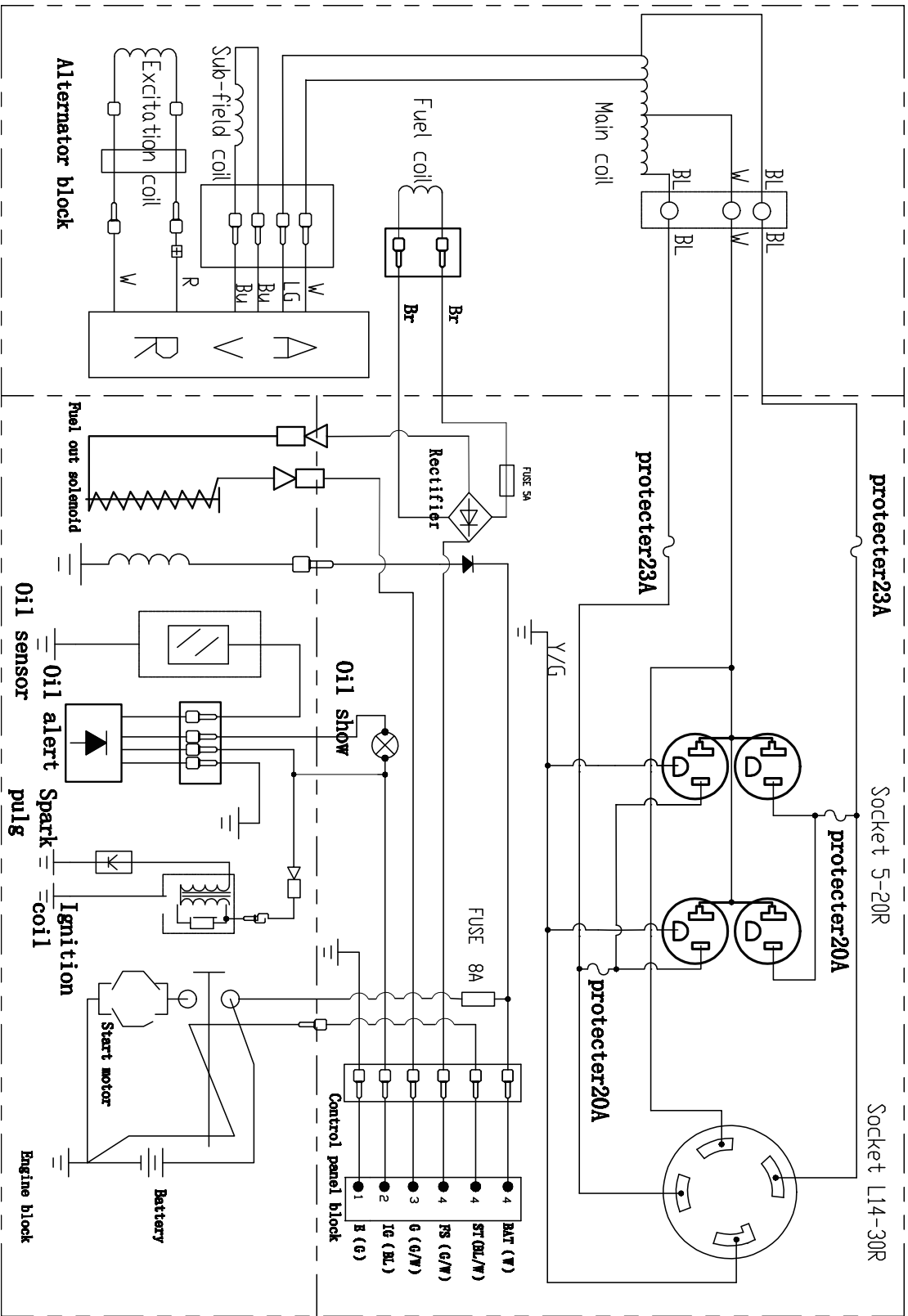
⚠ DANGER Never cover the generator while engine and exhaust area warm.

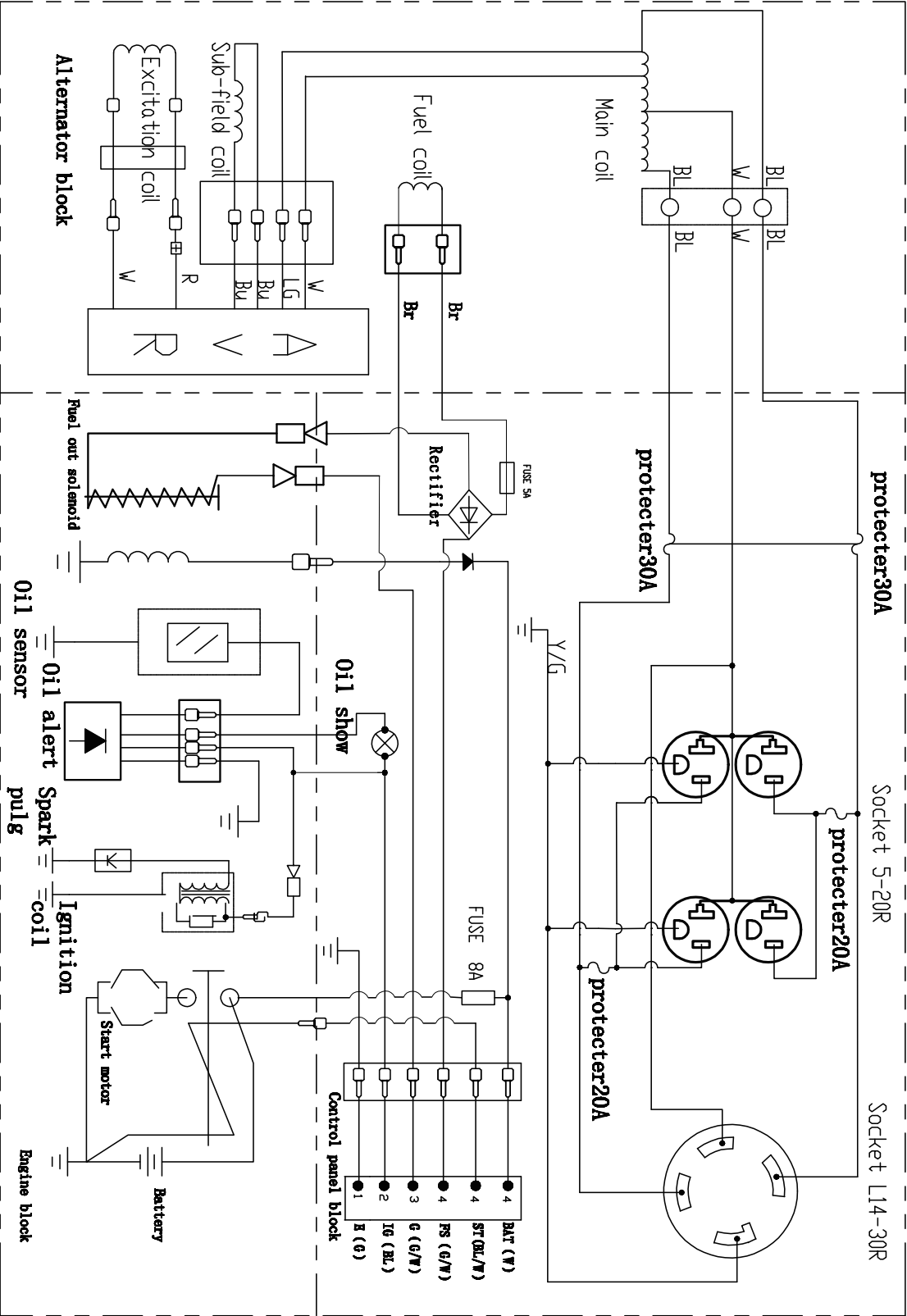
4.1 TROUBLESHOOTING GUIDE

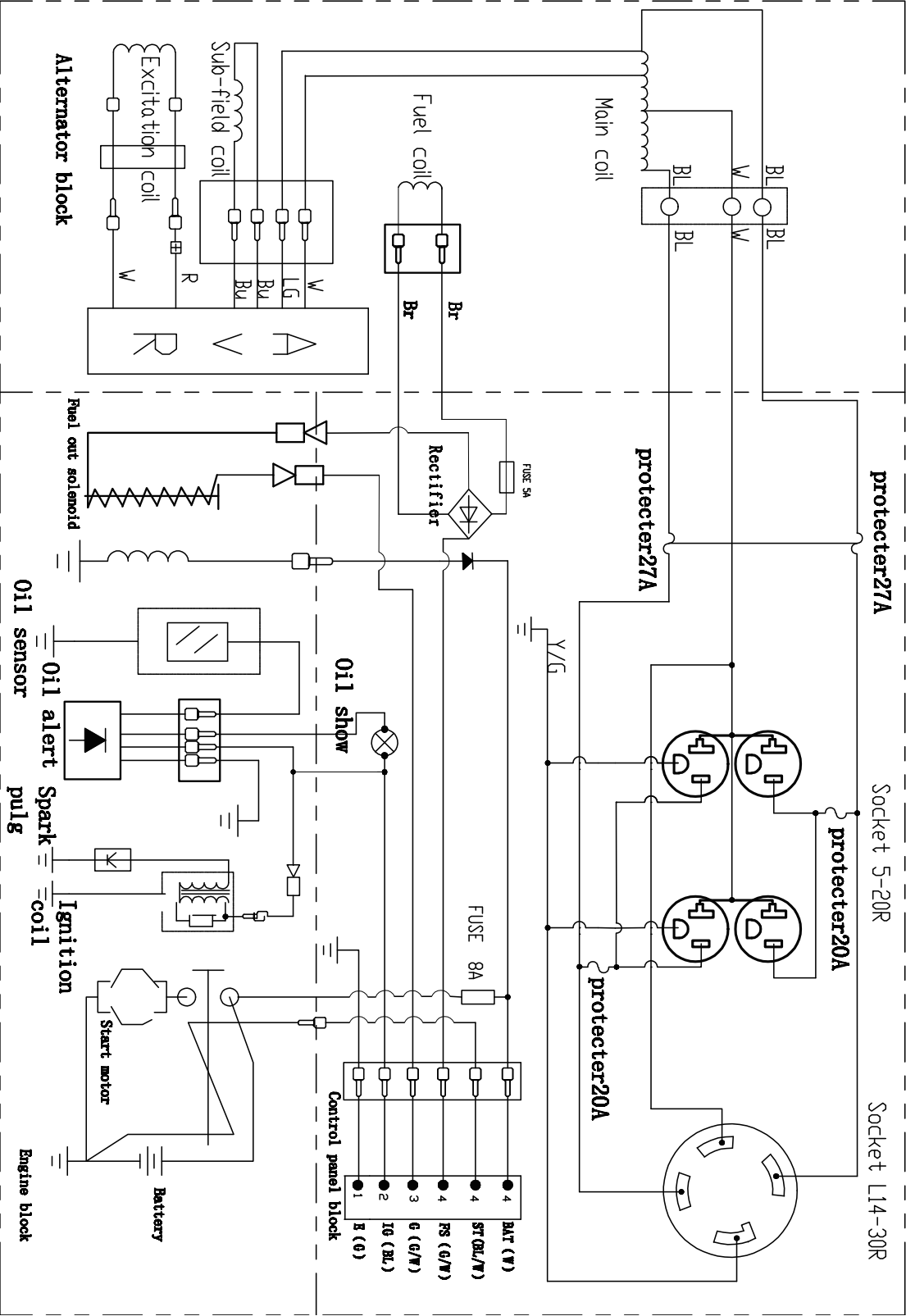
Problem	Cause	Correction
Engine is running, but no AC out put is Available.	1. Circuit breaker in open 2. Poor connection or defective cord set, 3. Connected device is bad. 4. Fault in generator	1. Reset circuit breaker. 2. Check and repair. 3. Connect another device that is in good condition. 4. Contact authorized service facility.
Engine runs good but bogs down when loads are connected.	1. Short circuit in a connected load. 2. Generator is overloaded. 3. Engine speed is too slow. 4. Shorted generator circuit.	1. Disconnect shorted electrical load.
Engine will not start; or starts and runs rough.	1. Dirty air filter 2. Out of gasoline 3. Stale gasoline. 4. Spark plug wire not connected to spark plug. 5. Bad spark plug. 6. Water in gasoline. 7. Over-choking 8. Low oil level. 9. Excessive rich fuel mixture. 10. Intake valve stuck open or closed. 11. Engine has lost compression.	1. Clean or replace air filter. 2. Fill fuel tank. 3. Drain fuel tank and fill with fresh fuel. 4. Connect wire to spark plug. 5. Replace spark plug. 6. Drain fuel tank; fill with fresh fuel. 7. Put choke knob to no choke position. 8. Fill crankcase to proper level. 9. Contact authorized service facility. 10. Contact authorized

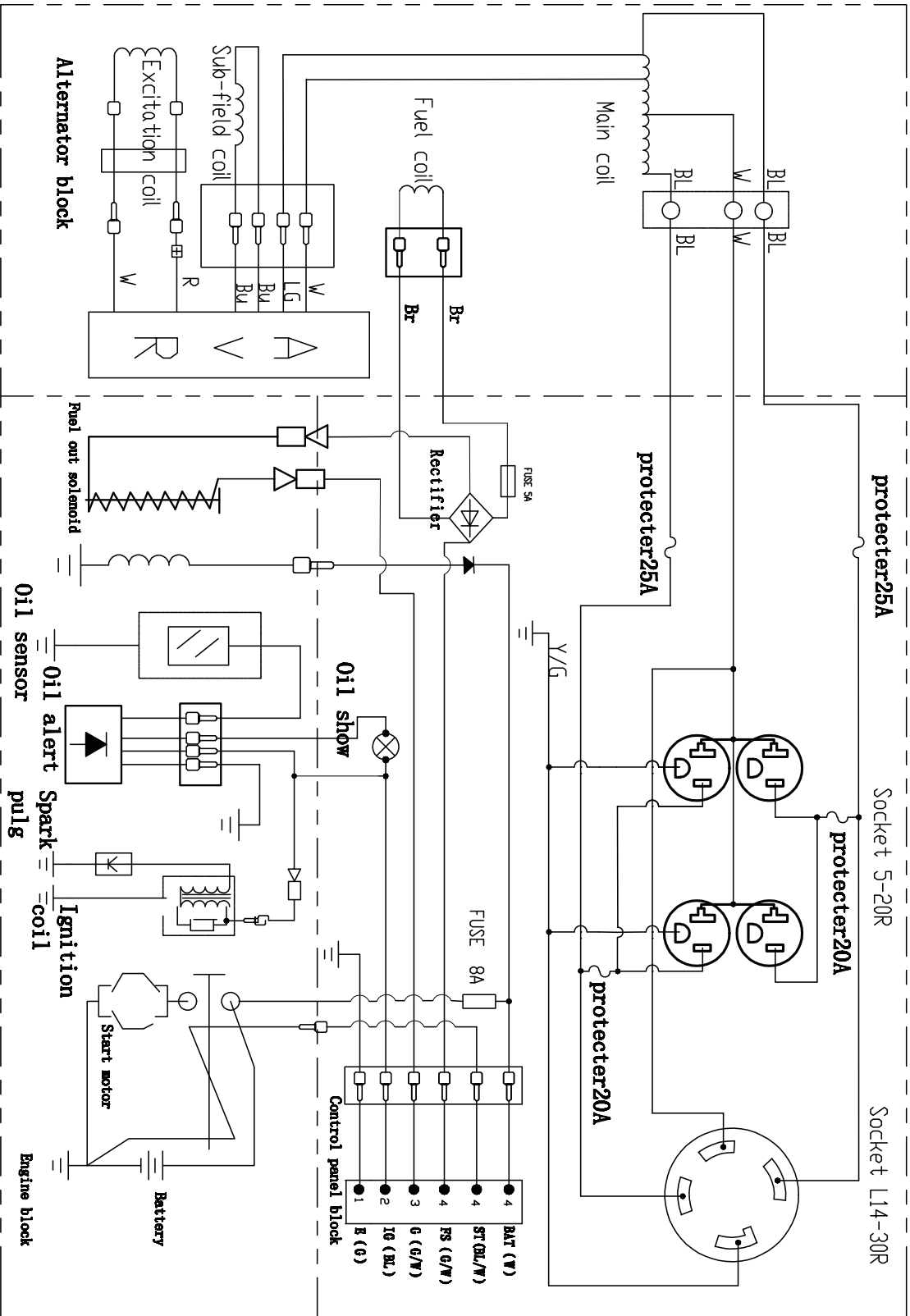
		service facility 11. Contact authorized service facility.
Engine shuts down during operation	1. Out of gasoline. 2. Low oil level. 3. Fault in engine.	1. Fill fuel tank. 2. Fill crankcase to proper level. 3. Contact authorized service facility.
Engine lacks power	1. Load is too high. 2. Dirty air filter. 3. Engine needs to be serviced.	1. See “don’t overload the generator”. 2. Replace air filter. 3. Contact authorized service facility.
Engine “hunts” or falters	1. Choke is opened too soon. 2. Carburetor is running too rich or too lean.	1. Move choke to halfway position until engine runs smoothly. 2. Contact authorized service facility.











FEDERAL EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS,

The United States environmental protection agency (EPA) and AMICO Power Corporation (AMICO) are pleased to explain the emission control system warranty on your new 2008 and later equipment.

Your emission control system may include parts such as the : carburetor, ignition, system, fuel system, catalytic converter, and other associated emission-related components (if equipped).

MANUFACTURER'S WARRANTY COVERAGE:

This emission control system is warranted is warranted for one year. If, during such warranty period, any emission-related part on your equipment is found to be defective in materials or workmanship, repairs or replacement will be performed by a AMICO authorized warranty service dealer.

OWNER'S WARRANTY RESPONSIBILITIES:

As the generator owner, you are responsible for the completion of all required maintenance as listed in your factory supplied owner's manual. For warranty purposes, AMICO recommends that you retain all receipts covering maintenance on your generator, but AMICO cannot deny warranty solely due to the lack of receipts.

As the generator owner, you should be aware that AMICO may deny any and/or all warranty coverage or responsibility if your generator, or all warranty coverage or responsibility if your generator, or a part/component thereof, has failed due to abuse, neglect, improper maintenance or unapproved modifications, or the use of counterfeit and/or "grey market" parts not made, supplied or approved by AMICO.

You are responsible for contacting a AMICO authorized warranty dealer as soon as a problem occurs. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30days.

Warranty service can be arranged by contacting either your selling dealer or a AMICO authorized warranty service dealer. Nearest you, call our toll free number.

1-888-545-7788

Important note: this warranty statement explains your rights and obligations under the emission control system warranty (ECS warranty), which is provided to you by AMICO pursuant to federal law. See also the "AMICO limited warranties for AMICO Power Corp., which is enclosed AMICO on a separate sheet, also provided to you by AMICO. Note that this warranty shall not apply to any incidental, consequential or indirect damages caused by defects in materials or workmanship or any delay in repair or replacement of the defective part(s). This warranty is in

place of all other warranties, expressed or implied. Specifically, AMICO makes no other warranties as to the merchantability or fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

The ECS warranty applies only to the emission control system of your new equipment. If there is any conflict in terms between the ECS warranty and the AMICO warranty, the AMICO warranty shall apply. Both the ECS warranty and the AMICO warranty describe important rights and obligations with respect to your new engine,

Warranty service can be performed only by a AMICO authorized warranty service facility. When requesting warranty service, evidence must be presented showing the date of the sale to the original purchaser/owner.

If you have any questions regarding your warranty rights and responsibilities, you should contact AMICO at the following address:

AMICO POWER CORP.

13221 Spring Street, Baldwin Park, CA 91706

To locate the nearest Authorized Dealer visit our

website www.amicousa.com

EMISSION CONTROL SYSTEM WARRANTY

Emission control system warranty (ECS warranty) for equipment using small spark-ignited engines:

- (a) Applicability: this warranty shall apply to equipment that uses small off-road engines. The ECS warranty period shall begin when the new equipment is purchased by/delivered to its original, end-use purchaser/owner and shall continue for 24 consecutive months thereafter.
- (b) General emissions warranty coverage: AMICO warrants to the original, end-use purchaser/owner of the new engine or equipment and to each subsequent purchaser/owner that the ECS when installed was:
 - (1) Designed, built and equipped so as to conform with all applicable regulations.
 - (2) Free from defects in materials and workmanship which cause the failure of a warranted part at any time during the ECS warranty period.
- (C) The warranty on emissions-related parts will be interpreted as follows:
 - (1) Any warranted part that is not scheduled for replacement as required maintenance in the owner's manual shall be warranted for the ECS warranty period. If any such part fails during the ECS warranty period, it shall be repaired or replaced by AMICO according to subsection (4) below. Any such part repaired or replaced under the ECS warranty shall be warranted for the remainder of the ECS warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection as specified in the owner's manual shall be warranted for the ECS warranty period. If any such part fails during the ECS warranty period, it shall be repaired or replaced by AMICO according to subsection (4) below. Any such part repaired or replaced under the ECS warranty shall be warranted for the remainder of the ECS warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in the owner's manual shall be warranted for the ECS warranty period. A statement in the owner's manual to the first scheduled replacement, the part shall be repaired or replaced by AMICO according to subsection (4) below. Any such emissions-related part repaired or replaced under the ECS warranty shall be warranted for the

- remainder of the period prior to the remainder of the ECS warranty period.
- (4) Repair or replacement of any warranted, emissions-related part under this ECS warranty shall be performed at no charge to the owner at a AMICO authorized warranty service facility.
 - (5) Notwithstanding the provisions of subsection 4)above, (warranty services or repairs must be provided at AMICO authorized service facilities.
 - (6) When the engine is inspected by AMICO authorized warranty service facility , the purchaser shall not be held responsible for diagnostic costs if the repair is deemed warrantable,
 - (7) Throughout the ECS warranty period, AMICO shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such parts.
 - (8) Any AMICO authorized and approved emission-related replacement parts may be used in the performance of any ECS warranty maintenance or repairs and will be provided without charge to the purchaser/owner, such use shall not reduce AMICO ECS warranty obligations.
 - (9) Unapproved, add-on, modified, counterfeit and /or “grey market” parts may not be used to modify or repair a AMICO engine, such as voids this ECS warranty and shall be sufficient grounds for disallowing an ECS warranty claim. AMICO shall not be held liable hereunder for failures of any warranted parts of AMICO equipment caused by the use of such an unapproved, add-on, modified, counterfeit and/or “grey market” part.

EMISSION RELATED PARTS MAY INCLUDE THE FOLLOWING(IF EQUIPPED):

- 1) Fuel system
 - A. Carburetor and internal parts
 - B. Pressure regulator
- 2) Air induction system
 - A. Intake manifold
 - B. Air filter
- 3) Ignition system
 - A. Spark plugs

- B. Ignition coils/ module.
- 4) Air injection system
 - A. Pulse air valve
- 5) Exhaust system
 - A. Catalyst
 - B. Thermal reactor
 - C. Exhaust manifold

AMICO POWER CORPORATION “ONE YEAR” LIMITED WARRANTY FOR AG SERIES PORTABLE GENERATORS

For a period of one year from the date of original sale, Amico Power Corporation (Amico) warrants its AG series generators will be free from defects in materials and workmanship for the items and period set forth below. Amico will, at its option, repair or replace any part which, upon examination, inspection and testing by Amico Authorized Warranty Service Dealer, is found to be defective. Any equipment that the purchaser/owner claims to be defective must be returned to and examined by the nearest Amico Authorized Warranty Service Dealer. All transportation costs under the warranty, including return to the factory, are to be borne and prepaid by the purchaser/owner. This warranty applies only to Amico AG series portable generators and is not transferable from original purchaser. Save your proof-of-purchase receipt. If you do not provide proof of the initial purchase date, the manufacturer's shipping date of the product will be used to determine the warranty period.

WARRANTY SCHEDULE

Consumer applications are warranted for one (1) year. commercial and rental applications are warranted for 6 months.

CONSUMER APPLICATION

One year 100% coverage on parts listed (proof of purchase and maintenance is required)

.Engine-All Components

.Alternator- All components

COMMERCIAL /RENTAL APPLICATION

One year 100% coverage on parts listed (proof of purchase and maintenance is required)

.Engine-All Components

.Alternator- All components

NOTE: For the purpose of this warranty “consumer use” means personal residential household or recreational use by original purchaser. This

warranty does not apply to units used for Prime Power in place of utility where utility power service is present or where utility power service does not normally exist. Once a generator has experienced commercial or rental use, it shall thereafter be considered a non-consumer use generator for the purpose of this warranty.

All warranty expense allowances are subject to the conditions defined in Amico's Warranty Policies, Procedures and Flat Rate Manual.

THIS WARRANTY SHALL NOT APPLY TO THE FOLLOWING:

- Amico built portable generators built prior to January, 2013.
- Amico portable generators that utilize non-Amico replacement parts.
- Costs of normal maintenance and adjustments.
- Failures caused by any contaminated fuels, oils or lack of proper oil levels.
- Repairs or diagnostics performed by individuals other than Amico authorized in writing by Amico power systems.
- Failures due, but not limited, to normal wear and tear, accident, misuse, abuse, negligence or improper use. As with all mechanical devices, the Amico engines and need periodic par(s) service and replacement to perform as designed. This warranty will not cover repair when normal use has exhausted the life of a part(s) or engine.
- Failures caused by any external cause or act of God, such as collision, theft, vandalism, riot or wars, nuclear holocaust, fire, freezing, lightning, earth-quake, windstorm, hail, volcanic eruption, water of flood, tornado or hurricane.
- Damage related to rodent and/or insect infestation.
- Products that are modified or altered in a manner not authorized by Amico in writing.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failure due to misapplication.
- Telephone, cellular phone, facsimile, internet access or other communication expenses.
- Living or travel expenses of persons performing service, except as specifically included within the terms of a specific unit warranty period.
- Expenses related to "customer instruction" or troubleshooting where no

manufacturing defect is found.

- Rental equipment used while warranty repairs are being performed.
- Overnight freight or special shipping costs for replacement part(s).
- Overtime, holiday or emergency labor.
- Starting batteries, fuses, light bulbs and engine fluids.

THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SPECIFICALLY, AMICO MAKES NO OTHER WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. AMICO'S ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF PART(S) AS STATED ABOVE. IN NO EVENT SHALL AMICO BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF AMICO'S NEGLIGENCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You also have other rights from state to state.

AMICO POWER CORPORATION.

13221 Spring Street, Baldwin Park, CA 91706

To locate the nearest Authorized Dealer visit our

website: www.amicopower.com