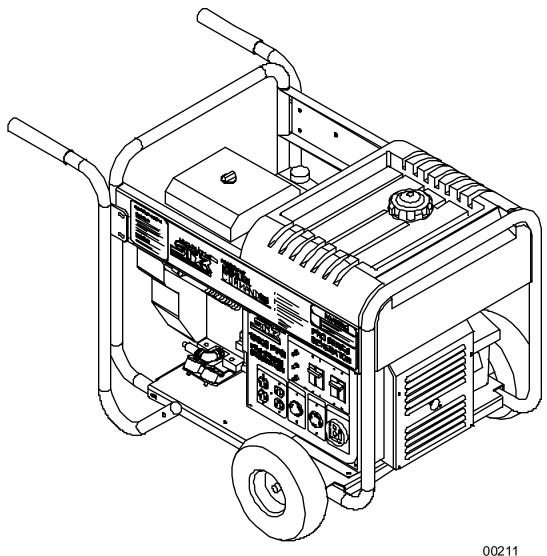


# MODEL 15000 PPG, ITEM #165925 Professional Portable Generator

M165925A

# **OWNER'S MANUAL**



Shown with Wheel Kit (Item # 165919)

Any Questions, Comments, or Problems?

Call Customer Service at 1-800-270-0810

Hours: Monday - Friday 7:30 AM to 5:30 PM CST

### THANK YOU

Thank you for purchasing a North Star Pro Series Generator. Your machine is designed for long life, dependability, and the top performance you demand. Please take time now to read through this manual so you can better understand the machine's operation, maintenance and safety precautions. Everyone who operates this generator must read and understand this manual. The time you take now will prolong your generator's life and prepare you for its safe operation. Enjoy the exceptional performance of your North Star Pro Series Generator.

## **IMPORTANT**

#### Make certain the operator:

- Reads and understands the manuals pertaining to this machine.
- Is instructed in safe and proper operation of this machine.

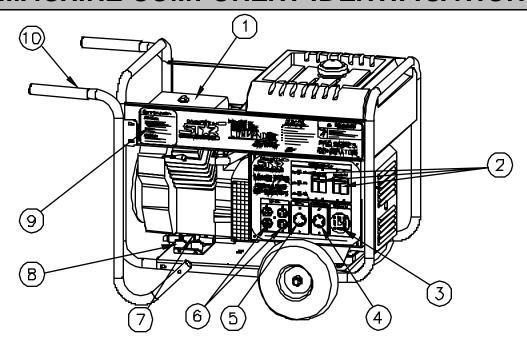
### **NOTICE**

K-BAR Industries Incorporated reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

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SPECIFICATIONS			
Item Number	#165925		
Maximum Output	15000 Watts (W)		
Continuous Output	13500 Watts (W)		
Voltage	120/240 Volt (V)		
Phase	Single phase (4-wire)		
Frequency	60.0-62.5 Hertz (Hz)		
Power Factor	1.0 p.f.		
Total Harmonic Distortion	less than 8%		
Engine	25 HP Kohler Command		
Engine Speed	3600-3750 RPM		
Fuel Type	Unleaded gasoline		
Fuel Capacity	10 gallons (38.0 L)		
Oil Capacity	2.1 US quarts with filter		
Starting Method	Electric start		
120V Receptacles	2 - 20 Amp (A) duplex (NEMA 5-20R) 30 Amp (A) twistlock (NEMA L5-30R)		
120/240V Receptades	30 Amp (A) twistlock (NEMA L14-30R) 60 Amp (A) straight blade (NEMA 14-60R)		
Circuit Breakers	60 Amp (A) thermal magnetic 30 Amp (A) thermal magnetic 30 Amp (A) thermal, push to reset 2 - 20 Amp (A) thermal, push to reset		
Battery	12V DC 380 cca, shipped dry, add electrolyte to fill line on each cell.		
Dimensions			
Length	35.75" (90.8 cm)		
Width	24.25" (61.6 cm)		
Height	26.25" (66.7 cm)		
Dry Weight	425 lb (193 kg)		
Gross Weight	495 lb (225 kg)		

# MACHINE COMPONENT IDENTIFICATION



**Figure 1** (Ref. 1-10) 00212

Ref.	Description	Ref.	Description
1	Air Cleaner	11	10.0 Gallon Gas Tank
2	Circuit Breakers	12	Engine Key
3	120/240V, 60A Receptade	13	Choke
4	120/240V, 30A Twistlock Rec.	14	Muffler & Spark Arrestor
5	120V, 30A Twistlock Rec.	15	Oil Filter
6	120V, 20A Duplex Rec.	16	Battery Box & Battery
7	Oil Drain Valve	17	Gas Line Valve
8	Vibration Isolation Mount	18	Generator Head
9	Starting/Stopping Instructions	19	Gas Drain Valve
10	Wheel Kit (#165919)	20	Gas Cap with Gauge

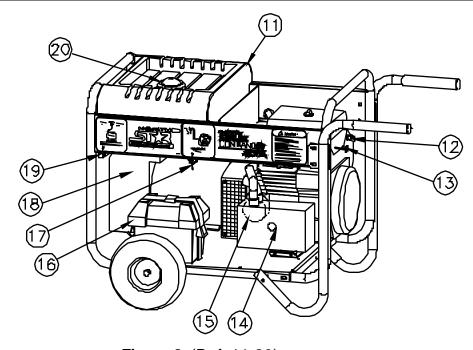


Figure 2 (Ref. 11-20)

00213

#### GENERATOR FEATURES

**Reference 1 - Air Cleaner.** Refer to your Kohler engine manual for air deaner care.

Reference 2 - Circuit Breakers. This portable single phase generator has 1 - 60 amp (A) thermal magnetic 2 pole breaker, 1 - 30 amp (A) thermal magnetic 2 pole breaker 1 - 30 amp (A) push to reset circuit breaker, and 2 - 20 amp (A) push to reset circuit breakers. Circuit breakers protect against electrical overloads.

Reference 3 - 120/240V Receptacle. This receptacle is a 120/240V 60A NEMA 14-60R receptacle. This receptacle accepts a NEMA plug number 14-60P, which is supplied with the generator. Use this receptade if installing a transfer switch. Compatible with Gentran transfer switch, item #164117.

Reference 4 - 120/240V Twistlock Receptacle. This twistlock is a 120/240V 30A NEMA L14-30R receptacle. This receptacle accepts a NEMA plug number L14-30P, which is supplied with the generator.

Reference 5 - 120V Twistlock Receptacle. This twistlock is a 120V 30A NEMA L5-30R receptacle. This receptacle accepts a NEMA plug number L5-30P, which is supplied with the generator.

Reference 6 - 120V Receptacle. The generator has a control panel with two duplex (two receptacles in a common housing) receptades. Each duplex is a 120 volt (V) 20 amp (A) straight blade receptade, National Electrical Manufacturer's Association (NEMA) number 5-20R. This receptade accepts NEMA plug numbers 5-15P and 5-20P. Each duplex is capable of drawing 20A at 120V.

**ALWAYS** use grounded male plugs. The neutral line of the generator is mechanically grounded to the frame. Matching NEMA male plugs must always be used.

**WARNING** Contact a licensed electrician to wire electrical plugs and/or cordsets. Improper wiring could result in a fire or electrical shock.

Reference 7 - Oil Drain Valve. Refer to your Kohler engine manual for oil change recommendations.

Reference 8 - Vibration Isolation Mounts. The engine and generator head are mounted on rubber cylinders that absorb most of the engine vibration. This feature eliminates the tendency of the machine to "walk" which is common in engine powered equipment.

Reference 9 - Starting/Stopping Instructions.
Reference 10 - Wheel Kit. Heavy duty wheel kit (Item # 165919).

Reference 11 - 10.0 Gallon Gas Tank. Large tank allows for extended run capabilities. Always allow room for gasoline expansion by not filling the gas tank completely full.

Reference 12 - Engine Key. The engine key switch is located on the front of the engine. Always locate this switch and be familiar with its location before operating the generator.

Reference 13 - Choke Lever. Used during cold starts. Refer to the starting/stopping instructions and the Kohler Command 25 engine manual for usage.

Reference 14 - Muffler and Spark Arrestor.

**Reference 15 - Oil Filter.** Kohler oil filter number 12-050-01 or equivalent.

Reference 16 - Battery Box and Battery. Battery is shipped without electrolyte. Fill each battery cell to the fill line with locally purchased electrolyte (sulfuric acid and water).

**WARNING** Sulfuric acid is a corrosive poison. Avoid contact with skin, eyes or dothing.

Reference 17 - Gas Line Valve. The generator tank has an ON-OFF valve mounted underneath the tank. Always keep this valve dosed when the generator is not in use.

**Reference 18 - Generator Head.** The electricity producing part of the generator.

Reference 19 - Gas Drain Valve. The generator is equipped with a unique feature. A gas drain valve is installed to drain gasoline from the tank without disconnecting the gas line feeding the engine. This valve is intended to be used to drain gas prior to extended periods of non use. It is recommended that if the period of non use is longer than 30 days, the gas should be drained, and the engine run until all the gas is evacuated from the carburetor. ALWAYS make sure this valve is closed prior to filling the gas tank.

Reference 20 - Gas Cap with Gauge. The gas cap is extra large, creating a large hole for refilling and a comfortable grip. You can always monitor the fuel level without removing the cap by using the fuel level indicator built into the gas cap.

Low Oil Shutdown. The Kohler engine is protected against damage resulting from low oil level. As the oil falls below the safe level, the engine automatically shuts off (the engine stop switch remains in the on position). The engine will not start until the oil is refilled to above the safe level.

#### INTRODUCTION

Before starting your generator, thoroughly study the instructions and cautions in this manual to assure you are fully acquainted with the operation of all components of this generator. Proper preparation, operation and maintenance will result in operator safety, best performance and long life of the generator. For detailed engine operation and maintenance always refer to the Kohler engine owner's manual furnished with the generator.

North Star is constantly improving its products. The specifications outlined herein are subject to change without prior notice or obligation. The purchaser and/or user assumes liability of any modification and/or alterations on this equipment from original design and manufacture.

Before using, the user shall determine the suitability of this product for its intended use and assumes liability therein.

#### **ANSI SAFETY DEFINITIONS**

**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in a death or serious injury.

**CAUTION** indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### **RULES FOR SAFE OPERATIONS**

Safety precautions are essential when operating this generator. Respectful and cautious operation will considerably lessen the possibilities of a personal injury. This manual will warn of specific personal injury potential, and these will be designated by the symbol:



WARNING This generator is equipped with a grounding screw, located on the generator head for your protection. Always complete the grounding path from the generator to a copper pipe/rod that is driven into moist earth, to prevent electrical shock.

**ALWAYS** use electrical cords that are in good condition. Worn, bare, frayed or otherwise damaged cords can cause electric shock.

**NEVER** operate the generator, or handle any electrical equipment while standing in water, while barefoot, while hands are wet or while in the rain or snow. Electric shock may result.

**ALWAYS** use a ground fault circuit interrupter (GFCI) in damp or highly electrical conductive areas and on construction job-sites to prevent electric shock.

**ALWAYS** remove the spark plug or spark plug wire before working on the engine or generator, to prevent accidental starting.

**ALWAYS** provide adequate ventilation. Do not operate generator in any endosed or narrow space. Engines consume oxygen and give off deadly carbon monoxide poisonous gas. Improper ventilation will cause damage to generator and possible injury to people.

**NEVER** touch hot muffler, hot exhaust manifold or engine cooling fins.

**ALWAYS** remove all oil or gasoline deposits and accumulated dirt from generator and immediate area. Keep generator head and engine dean.

**NEVER** operate the generator under the following conditions:

- A. Excessive change in engine speed, slow or fast
- B. Overheating in load connecting devices.
- C. Sparking or arcs from generator.
- D. Loss of electrical output.
- E. Damaged receptacles.
- F. Engine misfire.
- G. Excessive vibration.
- H. Endosed compartments or confined areas.
- I. Flame or smoke.
- J. Rain, snow or wet conditions.
- K. Operator non-attendance.

**WARNING** Check fuel system on a regular basis. Look for signs of leaks, deterioration, chafed or spongy fuel hose, loose or missing fuel hose clamps, damaged fuel tank or a defective fuel shut-off valve. Correct any defects before operation.

**WARNING** Keep fire extinguisher dose by your generator and be familiar on how to use it. Consult your local fire department for correct extinguisher type.

#### **INSTALLATION**

**OUTDOORS:** Choose a location where the generator will not be exposed to rain, snow or direct sunlight. Position the generator on secure, level ground so it will not tip or slide down a hill. Place the generator so that the exhaust fumes will not be directed towards people.

The installation site must be free from water, moisture, or dust. All electrical components should be protected from excessive moisture or the insulation system will deteriorate and result in grounding or shorting out the generating system.

Foreign matters, such as dust, dirt, sand, lint, or abrasive materials can cause damage to the generator head and engine if allowed into its cooling system.

**NEVER** install your generator inside confined areas. Inside installation can cause health hazards or death.

DANGER Remember, exhaust fumes are deadly carbon monoxide gas, and must be vented to the outside where there are no people. Cooling air of sufficient amounts must be allowed to flow in and exhausted out to ensure proper cooling of the engine and generator head.

#### LOAD APPLICATION

It is important to determine the total electrical load before it is connected to the generator. The two major factors in determining the life of a generator head are: heat build up, caused by overloading the generator and corrosive contaminants, that attack the wiring insulation. If the generator is overloaded, the wires become excessively hot and cause the insulation to break down, reducing its ability to resist corrosive contaminants. Over time the effectiveness of the insulation is eliminated and a dead short can result.

Always compare the generator nameplate data with that of the equipment to be used to ensure that watts, volts, amperage, and frequency requirements are suitable for operating equipment. The wattage listed on the equipment nameplate is its rated output. However, some equipment may require three to ten times more wattage than its rating on the nameplate, as the wattage is influenced by the equipment efficiency, power factor and starting system. NOTE: If wattage is not given on equipment nameplate, approximate wattage may be determined by multiplying nameplate voltage by nameplate amperage.

VOLTS X AMPS = WATTS Example: 120V X 5A = 600W

When connecting a resistive load such as incandescent lights, heaters or common electric power tools, a capacity of up to the generator full rated wattage output can be used.

When connecting a resistive-inductive load such as a fluorescent or mercury light, transformers or inductive coils, a capacity of up to 0.6 times the generator's full rated output can be used.

Always allow the generator to reach operating speed before a load is applied.

#### STARTING ELECTRIC MOTORS

Electric motors require much more current (amps) to start than to run. Some motors, particularly low cost split-phase motors, are very hard to start and require 5 to 7 times more current to start than to run. Capacitor motors are easier to start and usually require 2 to 4 times as much current to start as to run. Repulsion Induction motors are the easiest to start and require 1.5 to 2.5 times as much to start as to run.

Most fractional motors take about the same amount of current to run them whether they are of Repulsion-Induction (RI), Capacitor (Cap), or Split-Phase (SP) type. The following chart shows the approximate current required to start and run various types and sizes of 120 volt 60 cycle electric motors under various conditions.

120V, 60 I	Hz Motors	Starting Amps		S
Hp motor	Running Watts	RI type	Cap type	SP type
1/6	525	7-11	9-18	16-22
1/4	700	9-15	12-23	22-32
1/3	875	11-18	14-29	26-35
1/2	1175	15-25	20-40	NA
1	1925	24-40	32-64	NA
1 1/2	2400	30-50	40-80	NA
2	2900	36-60	48-96	NA
3	4075	51-85	68-136	NA
5	6750	84-140	112-224	NA

The figures given above are for an average load such as a blower or fan. If the electric motor is connected to a hard starting load, such as an air compressor, it will require more starting current. If it is connected to a light load, or no load, such as a power saw, it will require less starting current. The exact requirement will also vary with the brand or design of the motor.

Generators respond to severe overloading differently than the power line. When overloaded, the engine is not able to supply enough power to bring the electric motor up to operating speed. The generator responds to the high initial starting current, but the engine speed drops sharply. The overload may stall the engine. If allowed to operate at very low speeds, the electric motor starting winding will burn out in a short time. The generator head winding might also be damaged.

Running the generator under these conditions may result in damage to the generator stator as well as the motor windings. Because the heavy surge of current is required for only an instant, the generator will not be damaged if it can bring the motor up to speed in a few seconds. If difficulties in starting a motor are experienced, turn off all other electrical loads and if possible reduce the load on the electric motor.

#### EXTENSION CORDS

When electric power is to be provided to various loads at some distance from the generator, extension cords can be used. These cords should be sized to allow for distance in length and amperage so that the voltage drop between the set and point of use is held to a minimum.

Curren	Current/Power		Maximum Extension Cord Length		
Amps	Load	#10	#12	#14	#16
at	(watts)	Ga.	Ga.	Ga.	Ga.
240V		Cord	Cord	Cord	Cord
10	2400	250'	150'	100'	75'
20	4800	125'	75'	50'	25'
30	7200	60'	35'	25'	10'
40	9600	30'	15'	10'	*
50	12000	15'	*	*	*

\*Not recommended

**CAUTION:** Equipment damage can result from the low voltage caused by using an extension cord with a small wire size.

Use this chart to estimate the total load on your generator.

For Determining Generator Load Requirements		
Device	Running Watts	
Air Conditioner (12,000 Btu)	1700 (a)	
Battery Charger (20 Amp)	500	
Belt Sander (3")	1000	
Chain Saw	1200	
Circular Saw (6-1/2")	900	
Coffee Maker	1000	
Compressor (1 HP)	2000 (a)	
Compressor (3/4 HP)	1800 (a)	
Compressor (1/2 HP)	1400 (a)	
Curling Iron	700	
Dishwasher	1200	
Edge Trimmer	500	
Electric Nail Gun	1200	
Electric Range (one element)	1500	
Electric Skillet	1250	
Furnace Fan (1/3 HP)	1200 (a)	
Freezer	800 (b)	
Hair Dryer	1200	
Hand Drill (1")	1100	
Hand Drill (1/2")	875	
Hand Drill (3/8")	500	
Hand Drill (1/4")	250	
Hedge Trimmer	450	
Home Computer	150	
Impact Wrench	500	
Jet Pump	800	
Lawn Mower	1200	
Light Bulb	100	
Microwave Oven	700	
Milk Cooler	1100 (a)	
Oil Burner on Furnace	300	
Oil Fired Space Htr (140,000 Btu)	400	
Oil Fired Space Htr (85,000 Btu)	225	
Oil Fired Space Htr (30,000 Btu)	150	
Oven	4500	
Paint Sprayer, Airless (1/3 HP)	600 (a)	
	` ,	
Paint Sprayer, Airless (handheld) Radio Refrigerator Slow Cooker Submersible Pump (1-1/2 HP) Submersible Pump (1 HP)	150 200 600 (b) 200 2800 (a) 2000 (a)	

Submersible Pump (1/2 HP)	1500 (a)
Table Saw (10")	2000 (a)
Television	500
Toaster	1000
Vacuum cleaner	250
VCR	70
Water Heater	3000
Weed Trimmer	500

- (a) Hard-starting motors require 3 to 5 times the rated running watts.
- (b) These loads may require up to 15 minutes to restart due to their normal build up of compressor head pressure.

NOTE: For extremely hard to start loads such as air conditioners and air compressors, consult the equipment dealer to determine the maximum wattage.

#### PRE-START PREPARATIONS

Your generator has been thoroughly tested prior to shipment from the factory. A factory test report has been included with this manual. However, damage can occur during shipping, so be sure to check for damaged parts or loose or missing nuts and bolts. If the aforementioned problems occur, call Customer Service at 1-800-270-0810.

**GROUNDING** - All units must be grounded. Drive a 3/4" or 1" copper pipe or rod into the ground dose to the generator. The pipe/rod must penetrate moist earth. Connect an approved ground clamp to the pipe. Run a no. 12 Ga. wire from the damp to the generator grounding screw located on the generator head. Do not connect to a water pipe or a ground used by a radio system.

**CAUTION:** The engine has been shipped without oil. Fill the crankcase with oil before trying to start. Low oil shut-down prevents your generator from starting without sufficient oil.

#### OPERATING SPEED

The generator must be run at the correct speed in order to produce the proper electrical voltage and frequency. The speed of the engine was carefully adjusted at the factory so that the generator produces the proper voltage and frequency.

The output voltage should be checked with a voltmeter to ensure the generator is working properly before connecting a load to the generator. Failure to do so could result in damage to equipment plugged into the unit and possible injury to the individual.

All engines have a tendency to slow down when a load is applied. When the electrical load is connected to the generator, the engine is more heavily loaded, and as a result the speed drops slightly. This slight decrease in speed, together with the voltage drop within the generator itself, results in a slightly lower voltage when the generator is loaded to its full capacity than when it is running with no load. The slight variation has no appreciable effect in the operation of motors, lights and most appliances. Electronic equipment and docks will be affected if correct RPM is not maintained. See Load vs. Output chart.

Load	Output		
Percent of	Speed	Frequency	Generator
Generator	(RPM)	(Hz)	Voltage at 120V
Output			Receptade
0 %	3750	62.5	120
50 %	3660	61.0	120
100 %	3600	60.0	120

Output voltage should be checked periodically to ensure continued proper operation of the generating plant and appliances. It can be checked with a portable meter. Frequency can be checked by using an electric clock with a sweep second hand. Timed against a wrist watch or a stop watch the dock should be correct within +/- 2 seconds per minute. All speed setting adjustments should be done by a qualified technician.

#### **BEFORE STARTING**

- 1. Make sure the generator is positioned on firm level surface.
- 2. Check the crankcase for oil and maintain at a proper level.
- 3. Check fuel level and fill tank 7/8 full with fresh unleaded automotive gasoline. Never fill fuel tank completely to the top. Always wipe up and remove any spilled gasoline.
- 4. Make sure that the exhaust fumes are directed away from people.

#### **STARTING**

- 1. Disconnect all loads to generator.
- 2. Turn gas line valve to ON position.
- 3. For cold engine, move choke lever to full choke position For warm engine, move choke lever to half choke or to RUN position.
- 4. Turn engine key switch located on engine to start position.
- 5. When engine starts, let key return to the ON position. Move choke lever to RUN position.
  - 6. Loads may now be connected to generator.

#### **STOPPING**

- 1. Disconnect all loads to generator.
- 2. Turn engine key switch to OFF position.
- 3. Turn gas line valve to OFF position.

#### **ENGINE CARE**

Refer to your Kohler Owner's Manual for proper care and maintenance.

NOTE: When changing the oil on a hot engine, the oil might overshoot the oil drain hole on the generator base. Use a deflector (piece of cardboard or paper) to direct the oil down the hole.

#### GENERATOR CARE

The generator head is a two pole, 3600 RPM, 60 Hz, brushless, revolving field and synchronous type with one sealed radial roller bearing. The rotor of the generator head is directly connected to the engine

crank shaft and the stator is rigidly coupled to the engine casting via the generator head casting.

Exercising The Generator - The generator should be operated every four weeks. Warm the unit up by starting the engine and letting it run for 10 to 15 minutes. This will dry out any moisture that has accumulated in the windings. If left, this moisture can cause corrosion in the winding. Frequent operation of the engine generator will also ensure that the set is operating properly should it be needed in an emergency.

Generator Maintenance - The generator head is brushless and maintenance free. Any major generator service including the installation or replacement of parts should be performed only by a qualified electrical service technician. USE ONLY FACTORY APPROVED REPAIR PARTS. Obtain factory parts from Customer Service at 1-800-270-0810.

- A. Bearing The bearing used in these generators is a heavy duty sealed roller bearing. They require no maintenance or lubrication.
- B. Receptacles Quality receptacles have been utilized. If a receptacle should become cracked or otherwise damaged, replace it. Using cracked or damaged receptades can be both dangerous to the operator and destructive to the equipment.



#### **WARNING, Stand-by Operation**

If your generator is to be used as a standby electric power source in case of utility failure, it must be installed by a registered and licensed electrican and in compliance with all applicable state and local electrical codes. Also, local Fire Departments must be consulted concerning proper and safe handling procedures for gasoline. **NEVER** connect any generator to any existing electrical system without an isolating, UL approved transfer switch, installed by a licensed electrician.

TROUBLESHOOTING			
<u>Problem</u>	Possible Causes	Possible Remedies	
Engine will not start.	<ul> <li>a) Low oil level.</li> <li>b) Fouled spark plug.</li> <li>c) Out of fuel.</li> <li>d) Stop switch in OFF position.</li> <li>e) Battery has lost its charge.</li> <li>f) Engine fuse is blown.</li> </ul>	<ul> <li>a) Fill crankcase to proper oil level.</li> <li>b) Clean or replace spark plug.</li> <li>c) Fill fuel tank.</li> <li>d) Place switch in ON position.</li> <li>e) Battery has low electrolyte and/or needs to be charged or replaced.</li> <li>f) Replace fuse. 30A Buss type fuse, located near starter motor.</li> </ul>	
Voltage too low.	<ul><li>a) Engine speed too slow.</li><li>b) Generator is overloaded.</li><li>c) Voltage regulator out of adjustment.</li></ul>	a) Bring generator to a qualified technician for adjustment. b) Reduce the load. (See Load Application section of this manual.) c) Bring generator to a qualified technician for adjustment.	
Circuit breaker trips.	<ul><li>a) Defective load connected to generator.</li><li>b) Defective receptade.</li><li>c) Generator overloaded.</li></ul>	<ul> <li>a) Disconnect load.</li> <li>b) Replace receptade.</li> <li>c) Reduce the load. (See Load Application section of this manual.)</li> </ul>	
Voltage too high.	<ul><li>a) Engine speed too high.</li><li>b) Voltage regulator out of adjustment.</li></ul>	a) Bring generator to a qualified technician for adjustment.     b) Bring generator to a qualified technician for adjustment.	
Generator overheating.	<ul><li>a) Generator is overloaded.</li><li>b) Insufficient ventilation.</li></ul>	a) Reduce the load. (See Load Application section of this manual.) b) Make sure there is at least 3 feet of clearance on all sides of generator.	
No output voltage.	<ul> <li>a) Defective load connected to generator.</li> <li>b) Broken or loose wire.</li> <li>c) Defective receptade.</li> <li>d) Defective stator.</li> <li>e) Defective rotor.</li> <li>f) Defective capacitor.</li> <li>g) Voltage regulator fuse has blown.</li> </ul>	<ul> <li>a) Disconnect load.</li> <li>b) Bring generator to a qualified technician for repair.</li> <li>c) Replace receptade.</li> <li>d) Bring generator to a qualified technician for repair.</li> <li>e) Bring generator to a qualified technician for repair.</li> <li>f) Bring generator to a qualified technician for repair.</li> <li>g) Bring generator to a qualified technician for repair.</li> <li>g) Bring generator to a qualified technician for repair.</li> </ul>	
Engine lacks power.	<ul><li>a) Generator is overloaded.</li><li>b) Dirty air filter.</li></ul>	a) Reduce the load. (See Load Application section of this manual.) b) Clean or replace air filter.	
Engine shuts down during operation.	<ul><li>a) Out of fuel.</li><li>b) Low oil level.</li></ul>	a) Fill fuel tank.     b) Fill crankcase to proper oil level.	

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