

# SEARS OWNER'S MANUAL

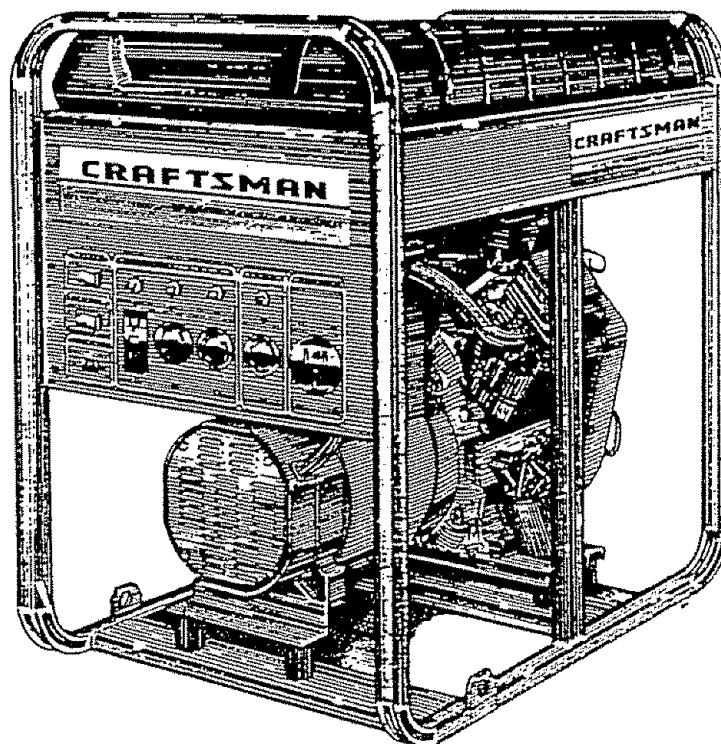
MODEL NO.

580.327071

PORTABLE GENERATOR  
CUSTOMER  
HELPLINE  
1-800-222-3136

HOURS:  
Mon. - Fri. 8 a.m. to 5 p.m.  
(CST)

**CAUTION:**  
Read and Follow  
all Safety Rules  
and Instructions  
Before Operating  
This Equipment



## CRAFTSMAN®

120-240 VOLT / 8000 WATT A-C

DELUXE PORTABLE GENERATOR

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustment
- Repair Parts

SEARS, ROEBUCK and CO., Hoffman Estates, IL 60179 U.S.A.



## SAFETY RULES



CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG, TO PREVENT ACCIDENTAL STARTING WHEN SETTING UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR.



## IMPORTANT

THIS GENERATOR IS DESIGNED FOR OUTDOOR USE ONLY. USING THIS GENERATOR INSIDE ANY BUILDING OR ENCLOSURE, INCLUDING THE GENERATOR COMPARTMENT OF A RECREATIONAL VEHICLE (RV), IS DANGEROUS. FIRE OR AN EXPLOSION MAY RESULT. NO USER PERFORMED MODIFICATIONS, INCLUDING VENTING OF EXHAUST AND/OR COOLING VENTILATION, WILL ELIMINATE THE DANGER.

- If this unit is used for backup power in the event of a utility power failure, take the following steps: BEFORE CONNECTING THE GENERATOR TO AN ELECTRICAL SYSTEM OPEN THE MAIN CIRCUIT BREAKER OR MAIN SWITCH SERVING THE SYSTEM TO ISOLATE THE GENERATOR SYSTEM FROM THE ELECTRIC UTILITY. FAILURE TO ISOLATE THE GENERATOR AND UTILITY SYSTEMS MAY RESULT IN DAMAGE TO THE GENERATOR AND MAY ALSO RESULT IN INJURY OR DEATH TO ELECTRIC UTILITY WORKERS DUE TO BACKFEED OF ELECTRICAL ENERGY.
- This generator supplies dangerously high electrical voltages. Use care to prevent extremely hazardous and possibly lethal electrical shock. Never permit any unqualified person(s) to operate or service the unit.
- DO NOT operate this equipment in the rain, while standing in water, while barefoot, or while hands or feet are wet. Dangerous electrical shock will result.
- The spark arrestor muffler can become extremely hot. DO NOT operate this equipment in areas where combustible material such as grass, leaves or paper products can come in contact with the muffler.
- Maintain all wiring, extension cords, etc., in good condition. Worn, bare, frayed, or otherwise damaged wiring and cord sets may cause dangerous electrical shock and may also result in damage to equipment and/or property.
- The National Electrical Code requires that the generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the unit. See ASSEMBLY section for more grounding information.
- Wire gauge sizes of wiring and cord sets must be large enough to handle the maximum electrical load to which they will be subjected. Most devices require cord sets rated 125 AC volts at 20 to 30 amperes or 250 AC volts at 20 amps (or greater). Some devices may require a higher or lower rating. Refer to the Owner's manual of the electrical device for the manufacturer's recommendations. Cord sets that are too small in diameter or too long will overheat, become damaged and may cause property damage and/or electrical shock.
- The generator engine consumes oxygen and gives off DEADLY carbon monoxide gas through its exhaust system. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. Operate this equipment outdoors only, in well ventilated areas where exhaust gases cannot accumulate and endanger people or animals.
- **WARNING:** Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.
- Gasoline is extremely FLAMMABLE and its vapors are EXPLOSIVE. Comply with all laws regulating the storage and handling of gasoline. DO NOT permit smoking, open flames, sparks or heat in the vicinity while handling gasoline. Avoid spilling gasoline on a hot engine. DO NOT fill fuel tank while engine is running or hot. Clean off any spilled gasoline before starting engine.
- DO NOT fill fuel tank completely full. Allow room at top of tank for fuel expansion or fuel may expand and overflow onto a hot engine.
- Drain all gasoline from tank before transporting your generator inside your car or other vehicle.
- DO NOT store the generator with fuel in tank where gasoline vapors might reach an open flame, spark, or pilot light, as on a furnace, water heater, dryer, etc. FIRE or an EXPLOSION might result.
- DO NOT insert any object or tool through cooling air slots or openings of the engine or generator, even if the engine is not running. Damage to the unit or personal injury may result.
- DO NOT attempt to change the engine governed speed. Factory settings are correct when you receive the unit. Excessively high engine speeds may result in injury or damage to equipment.
- DO NOT use the unit if it has been damaged. Repair or replace all damaged or defective components before you run the unit.
- DO NOT permit children to operate or service the generator.
- Read your Owner's Manual carefully. Only persons who are familiar with these safety rules and have been properly instructed in the use of this product should be permitted to use the product.



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS "ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED."

CONGRATULATIONS on your purchase of a Sears Craftsman Generator. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/Department or call the 1-800 number listed on the front of this manual. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your generator properly. Always observe the 'SAFETY RULES.'

MODEL NUMBER	580.327071
SERIAL NUMBER	_____
DATE OF PURCHASE	_____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE GENERATOR STATOR CAN  
 YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

## MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow regular schedule in maintaining, caring for and using your generator
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual

## PRODUCT SPECIFICATIONS

### Generator Specifications

RATED MAXIMUM POWER	8000 Watts (8.0 kW)
RATED VOLTAGE	120/240 Volts a-c
RATED MAXIMUM LOAD CURRENT	66.7/33.3 a-c amperes
RATED FREQUENCY	60 Hz at 3600 rpm
PHASE	Single Phase
BATTERY CHARGE	Amps: 10 DC amps Volts: 12 volts DC

### Engine Specifications

ENGINE MODEL	GN-Series
DISPLACEMENT	480cc
SPARK PLUG: Type:	Champion RC12YC or or equivalent
Set Gap to:	0.030 inch (0.76mm)
MAXIMUM FULL TANK OPERATING TIME (hrs)	full load 1/2 5 7
GASOLINE CAPACITY	5 U.S. gallons
OIL	SAE 30 Oil (SAE 10W-30)
OIL CAPACITY	56 oz. with oil filter 46 oz. without filter

**NOTE:** This generator is equipped with a spark arrestor muffler. The spark arrestor must be maintained in effective working order by the owner/operator.

In the State of California a spark arrestor is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

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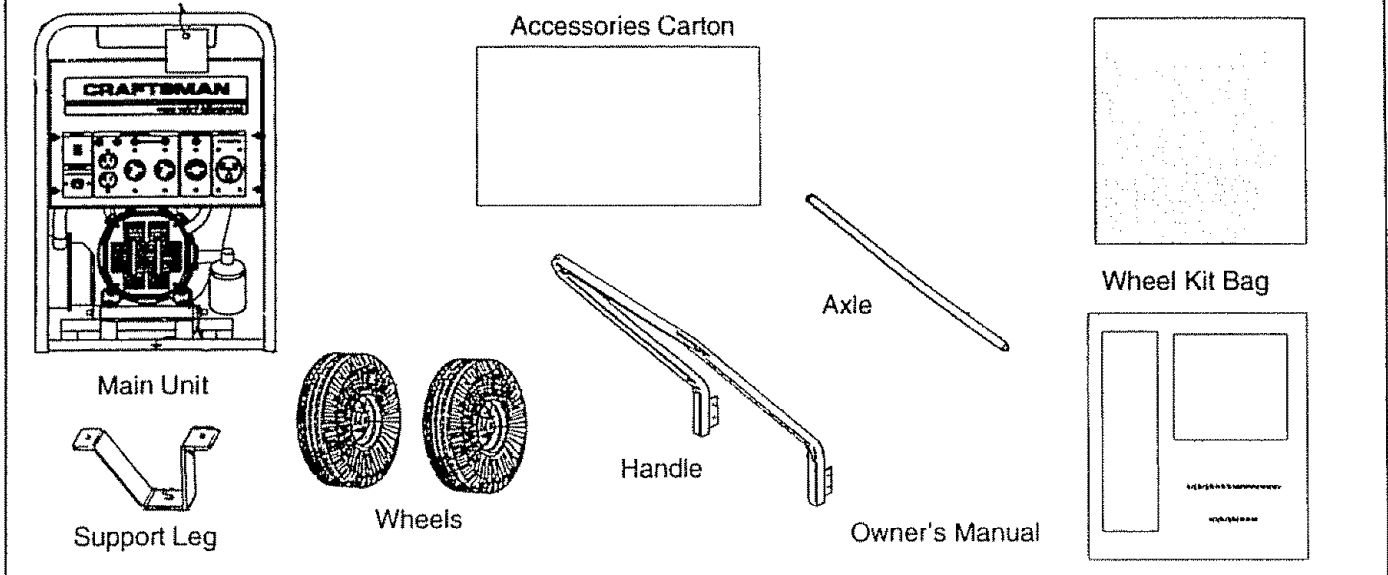
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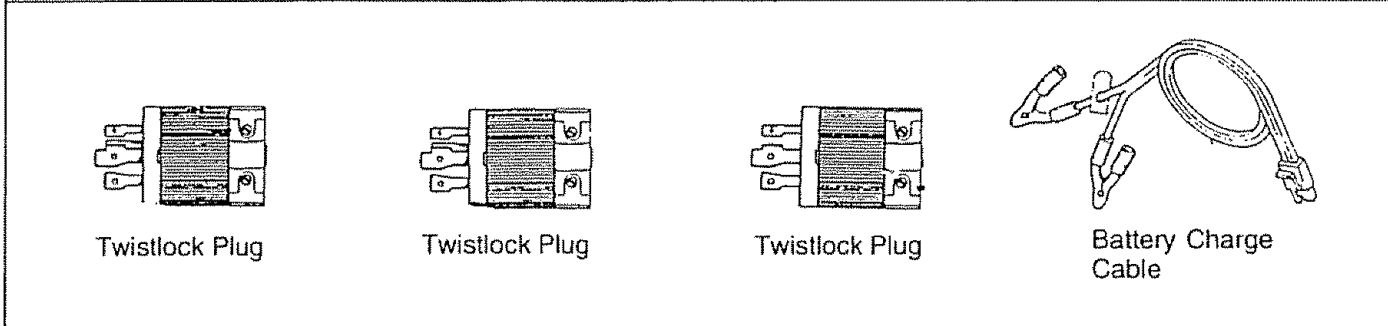
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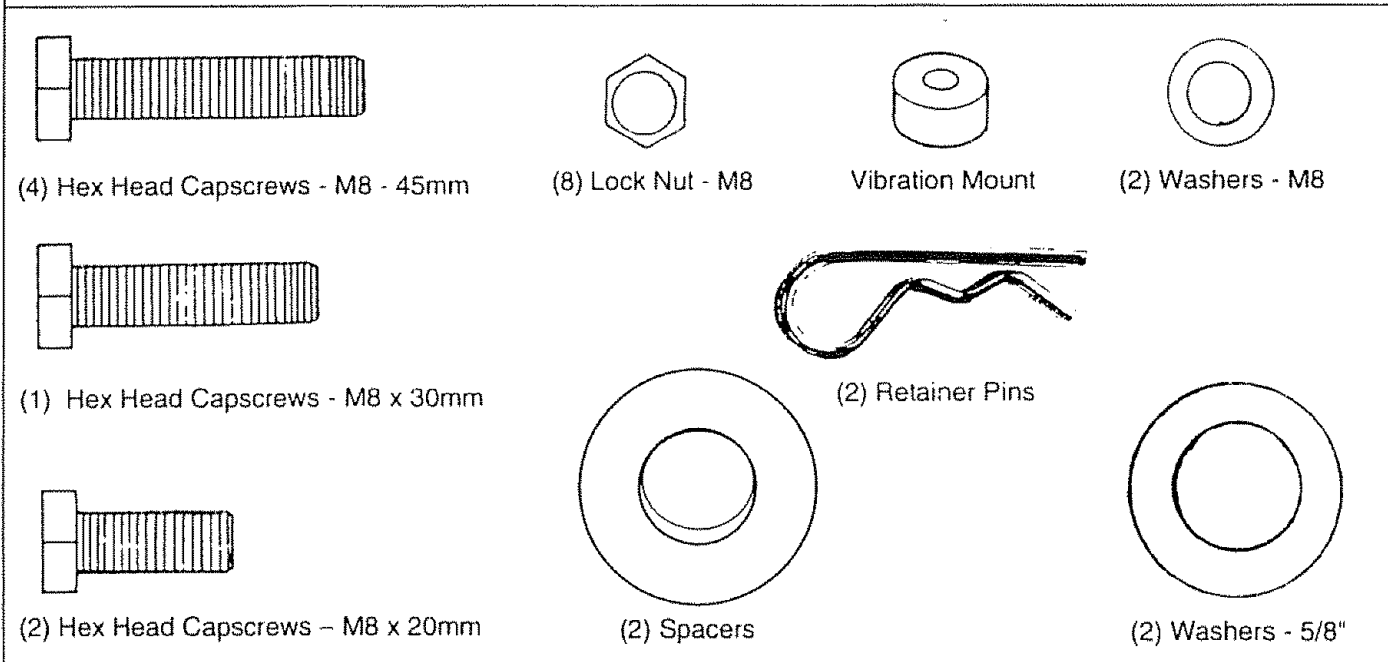
## Parts packed separately in carton



## Parts packed in Parts Carton



## Wheel Kit contents shown full size



# ASSEMBLY

Your AC generator was completely assembled at the factory. It is ready for use after it has been properly serviced with the recommended lubricating oil and fuel.

IF YOU HAVE ANY PROBLEMS WITH THE ASSEMBLY OF YOUR GENERATOR, PLEASE CALL THE GENERATOR HELPLINE AT 1-800-222-3136.

**IMPORTANT:** ANY ATTEMPT TO RUN THE ENGINE BEFORE IT HAS BEEN SERVICED WITH THE RECOMMENDED OIL WILL RESULT IN AN ENGINE FAILURE.

## TO REMOVE GENERATOR FROM CARTON

- Set the carton on a flat rigid surface with "THIS SIDE UP" arrows pointing upward.
- Carefully open the top flaps of shipping carton.
- Cut down corners at one end of shipping carton and lay that side of carton down flat.
- Remove packing material, carton fillers, etc.
- Remove generator from shipping carton.

## INSTALLING WHEEL KIT

The Sears Wheel kit was designed to greatly improve the portability of the 8000 watt Sears Craftsman Deluxe Generator. Install the Wheel Kit as follows:

- Place the generator on a flat hard surface.
- Slide axle (Item 3) through holes in the brackets provided on the generator cradle (Fig. 1) and then add the two spacers (Item 5) on each protruding end of the axle.

- Stand at engine end of generator and gently tilt generator forward high enough to prop up front of the cradle. This will allow you to add the wheels.
- Slide on the wheels (Item 2) on each end of the axle and retain each with 5/8" washer (Item 10) and retaining pin (Item 4). Lower the generator.
- Attach the vibration mount (Item 7) to the support leg (Item 6) with M8 x 30mm capscREW (Item 8), M8 washer (Item 12) and M8 lock nut (Item 9) using the combination wrench.
- With the wheels on, you can now tilt the generator end forward and attach the support leg with two M8 x 20mm capscREWS (Item 11) and two lock nuts.
- Set the generator down so it is level and, using the combination wrench, attach the handle with four M8 x 45mm capscREWS and four lock nuts.

## 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. Local electrical codes may also require proper grounding of the unit. For that purpose, a GROUNDING WING SCREW is provided on the base of the cradle (Fig. 2 on Page 5). Generally, connecting a No. 12 AWG (American Wire Gauge) stranded copper wire to the grounding screw and to an earth-driven copper or brass grounding rod (electrode) provides adequate protection against electrical

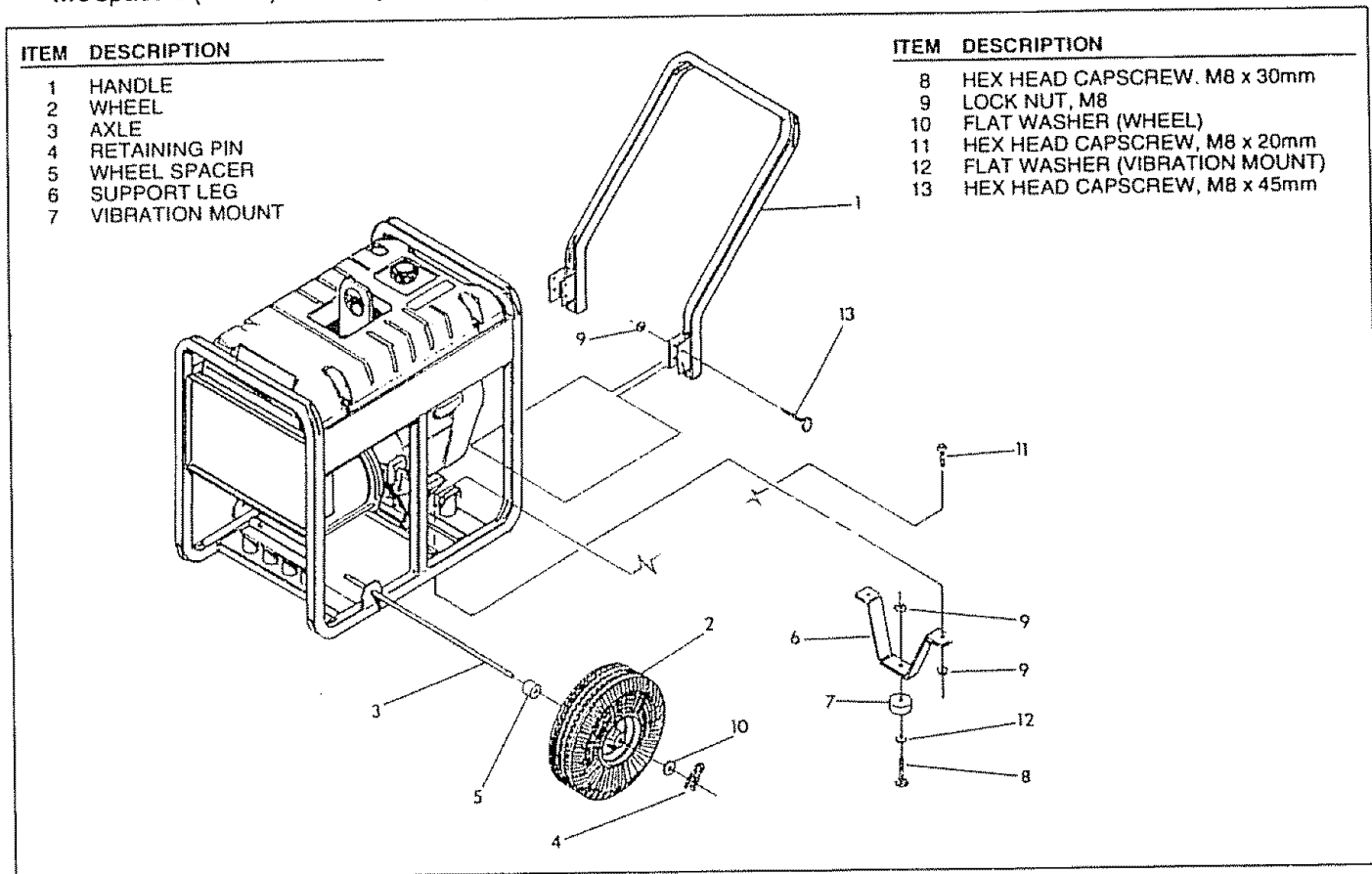


FIG. 1

# ASSEMBLY

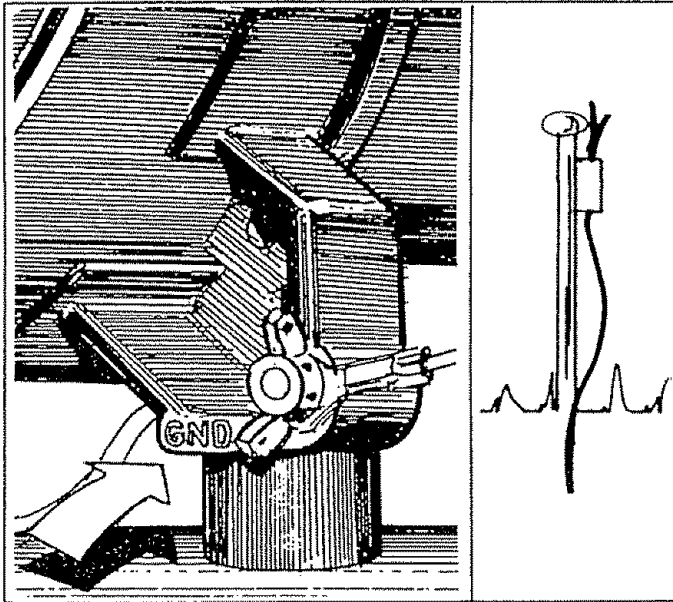


FIG. 2

shock. However, local codes may vary widely. Consult with a local electrician for grounding requirements in your area.

## CORD SETS AND CONNECTOR PLUGS 120 VOLTS DUPLEX RECEPTACLE

Use only high quality, well-insulated, extension cords with the 120-volt "duplex" type electrical receptacles. All cord sets used should be rated 125 volts at 20 AC amps or greater for most electrical devices. Keep extension cords as short as possible, preferably less than 15 feet long to prevent voltage drop and wires from overheating.

### 120 VOLTS, 20 AND 30 AMP RECEPTACLES:

- For the 120 volts, 20 amp locking type NEMA L5-20R receptacle, a well-insulated cord set with a NEMA L5-20P locking type connector plug must be properly connected to the receptacle and to the desired 120 volts, single phase, 60 Hz, AC load. Cord sets should be rated 20 AC amperes at 125 volts (or greater) for most electrical devices (Fig. 3).
- For 120 volts, 30 amp locking type NEMA L5-30R receptacle, a well-insulated cord set with a NEMA L5-30P locking type connector plug must be properly connected to the receptacle and the desired 120 volts, single phase, 60 Hz, AC load. The cord set should be rated 30 AC amperes at 125 volts (or greater) for most electrical devices (Fig. 3).

### 120/240 VOLTS, 30 AMP RECEPTACLE:

A 120/240 volts, 30 amp, locking type type mating connector plug (Fig. 4) is required when using this receptacle. A 4-wire cord set, rated 30 AC amperes at 250 volts (or greater), is required and must be connected to the plug and to the desired loads. Order NEMA type L14-30P.

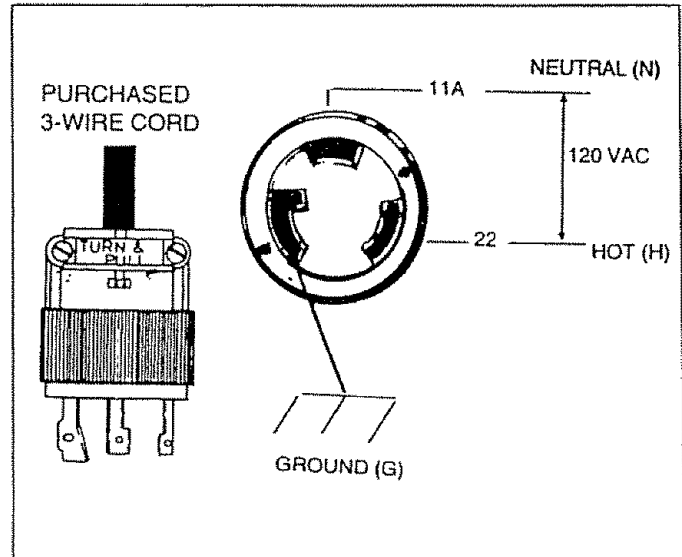


FIG. 3

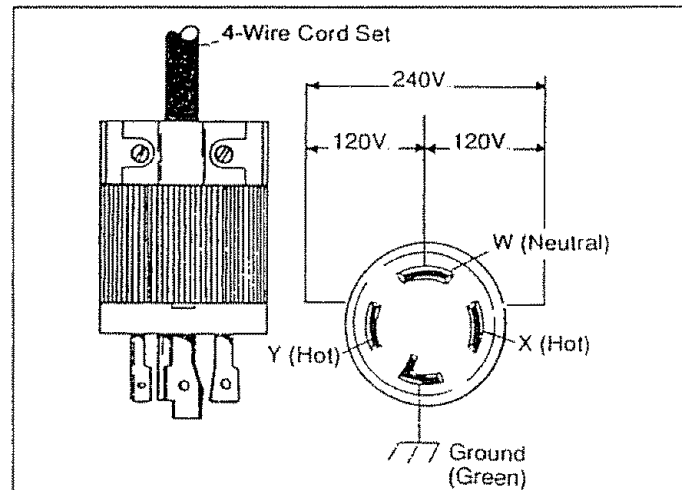


FIG. 4

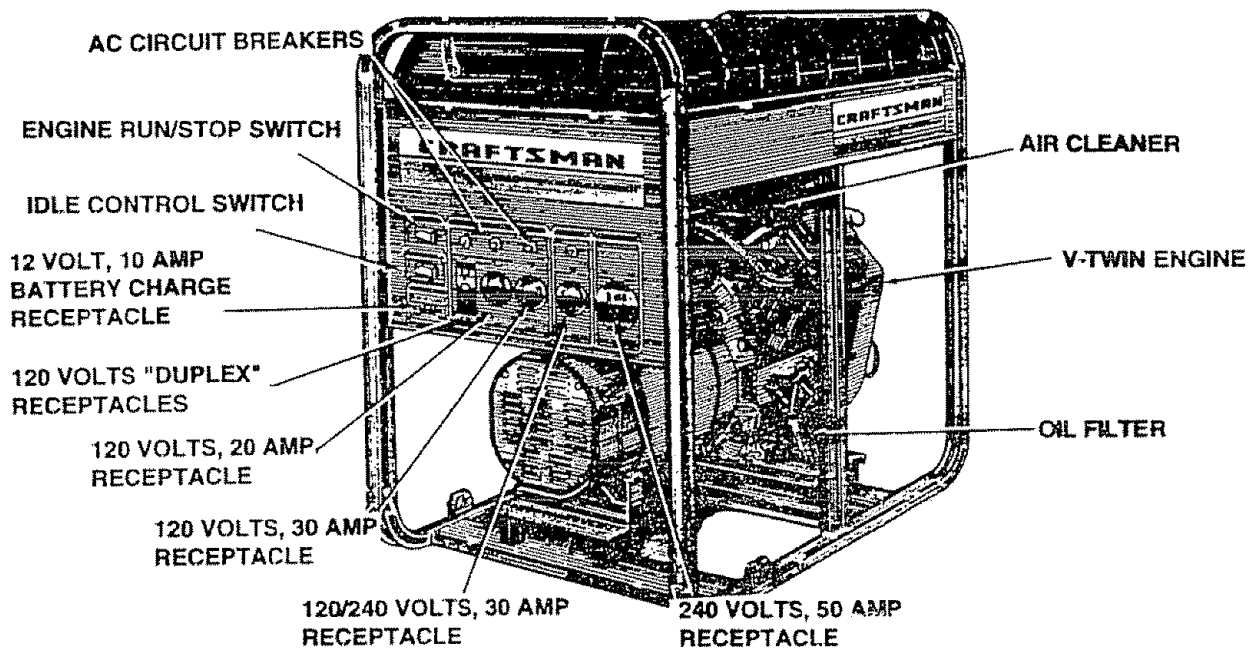
### 240 VOLTS, 50 AMP RECEPTACLE

This receptacle is rated 50 AC amperes at 250 volts. You need a 3-prong grounded connector plug with same rating to use with this outlet. Although current capacity of outlet is rated at 50 amps, loads applied through this outlet should not exceed 33.3 amps or you will overload the generator.

# OPERATION

## KNOW YOUR GENERATOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR GENERATOR. Compare the illustrations with your generator, to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



**ENGINE RUN/STOP SWITCH** — Must be set to RUN to start the engine. Set switch to STOP to stop the engine.

**120 VOLTS "DUPLEX" RECEPTACLES** — May be used to supply electrical power for the operation of 120 volts at 20 amps AC, single phase, 60 Hz, AC electrical lighting, appliance, tool and motor loads.

**120 VOLTS, 30 AMP RECEPTACLE** — May be used to supply electrical power for the operation of 120 volts at 30 amps AC, single phase, 60 Hz, AC electrical lighting, appliance, tool and motor loads. Twistlock connectors are required when using this receptacle.

**120 VOLTS, 20 AMP RECEPTACLE** — May be used to supply electrical power for the operation of 120 volts at 20 amps AC, single phase, 60 Hz, AC electrical lighting, appliance, tool and motor loads. Twistlock connectors are required when using this receptacle.

**120/240 VOLTS RECEPTACLE** — May be used to supply electrical power for the operation of up to 240 volts at 30 amps AC, single phase, 60 Hz, AC electrical lighting, appliance, tool and motor loads. Twistlock connectors are required when using this receptacle.

**AC CIRCUIT BREAKERS** — Protects the generator against electrical overload. Breakers are "push to reset" type for 15-amp, 20-amp and 30-amp loads.

**SPARK ARRESTOR MUFFLER** — Exhaust muffler has a spark arrestor screen.

**240 VOLTS, 50 AMP RECEPTACLE** — May be used to supply electrical power for the operation of up to 240 volts at 50 amps AC, single phase, 60 Hz, AC electrical lighting, appliance, tool and motor loads. Range connectors are required when using this receptacle.

**FUEL LEVEL GAUGE** - Indicates level of fuel in fuel tank.



# OPERATION

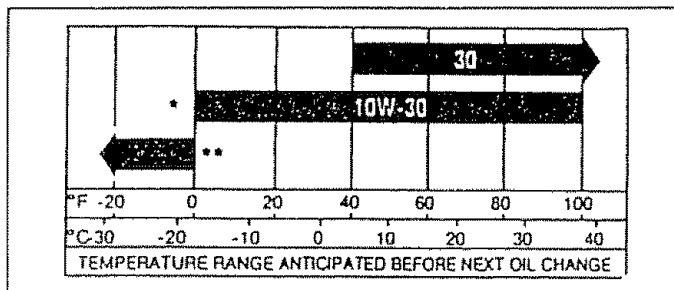
## BEFORE STARTING ENGINE

IF YOU HAVE ANY PROBLEMS OPERATING YOUR GENERATOR, PLEASE CALL THE GENERATOR HELPLINE AT 1-800-222-3136.

### Add Oil:

- Place generator on a level surface and remove dipstick from extended oil fill tube. Use SAE 30 detergent oil classified "For Service SC, SD, SE, SF, SG." SAE 10W-30 oil may also be used. POUR SLOWLY. Oil capacity of engine is about three (3) U.S. pints. When oil is filled to dipstick FULL mark, install and tighten oil fill plug

### RECOMMENDED SAE VISCOSITY GRADES



\*\* Use synthetic oil having 5W-20, 5W-30 or 5W-40 viscosity. If not available, a petroleum based oil may be used having 5W-20 or 5W-30 viscosity.

NOTE: 10W-40 oil may be used if 10W-30 is not available

### Add Gasoline:

- Fill fuel tank with clean, fresh, UNLEADED gasoline. Leaded REGULAR grade gasoline may also be used. DO NOT USE PREMIUM GASOLINE. BE CAREFUL NOT TO OVERFILL FUEL TANK.

**IMPORTANT:** EXPERIENCE INDICATES THAT ALCOHOL-BLENDED FUELS (CALLED GASOHOL OR USING 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 WHEN USING GASOHOL, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STORAGE PERIODS OF 30 DAYS OR LONGER. DRAIN THE GAS TANK, START THE ENGINE AND LET IT RUN UNTIL THE FUEL LINES AND CARBURETOR ARE EMPTY. USE FRESH FUEL NEXT SEASON. SEE STORAGE INSTRUCTIONS FOR ADDITIONAL INFORMATION. NEVER USE ENGINE OR CARBURETOR CLEANER PRODUCTS IN THE FUEL TANK OR PERMANENT DAMAGE MAY OCCUR.

## TO START THE ENGINE

- Unplug all electrical loads from generator receptacles before starting the engine. Never start or stop the engine with electrical devices plugged into panel receptacles and turned on. Start, store and fuel the unit in a level position.
- Open the fuel shutoff valve (Fig. 5)
- Apply the choke (Fig. 6). Pull choke lever to its FULL CHOKE POSITION

- If engine is warm, close the choke only part way or leave it fully open. A warm engine needs less choking than a cold engine.
- Set the engine ignition switch (Fig. 7) to ON (-).
- Crank engine. Grasp the starter grip and pull slowly until you feel some resistance. Let rope return slowly, then pull cord out with rapid full arm stroke. Let rope return slowly. Do not let rope "snap back" against starter. Repeat until engine starts (Fig. 8).

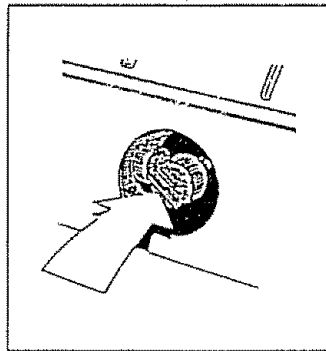


FIG. 5

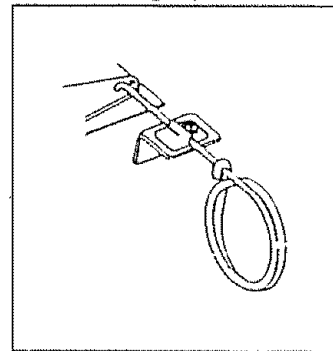


FIG. 6

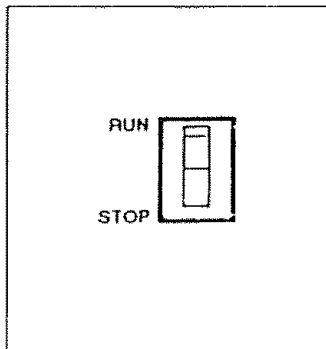


FIG. 7

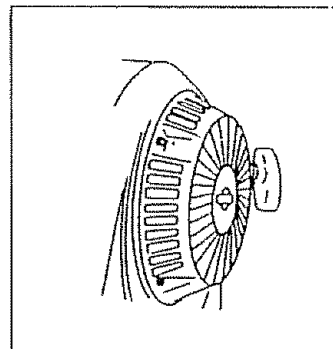


FIG. 8

- When engine starts, move the choke to the open position gradually as engine warms up.
- Let the engine stabilize and warm up for a few minutes. Check that the A.C. ON lamp on the generator panel is ON before connecting any electrical loads.

## CONNECTING ELECTRICAL LOADS

- Use this generator to operate 120/240 volts, single phase, 60 Hz, AC lighting, appliance, tool and motor loads.
- DO NOT connect 240 volts to the 120 volts duplex or 120 volts, 20 and 30-amp receptacles.
- DO NOT connect any 3-phase loads to panel receptacles.
- DO NOT connect any 50 Hz loads to the generator.
- Add up the rated watts of all lights, tool, appliance and motor loads you are powering at one time. This total should NOT be greater than (a) the generator's rated wattage capacity, or (b) the circuit breaker rating of the receptacle supplying power. See "Don't Overload the Generator" on Page 8.

# OPERATION

## STOPPING THE ENGINE

- Unplug all electrical loads from the 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.
- Set the Engine Run/Stop Switch to STOP. Wait for engine to come to a complete stop (Fig. 7).
- Close the Fuel Shutoff Valve (Fig. 5).

## BATTERY SAFETY



### EXPLOSIVE HYDROGEN GAS

**CAUTION:** Storage batteries give off **EXPLOSIVE** hydrogen gas while charging. An explosive mixture will remain around the battery for a long time after it has been charged. The slightest spark can ignite the gas and cause an explosion. Such an explosion can shatter the battery and cause blindness or other serious injury.



**CAUTION:** DO NOT permit smoking, open flame, sparks or any source of heat around a battery. DO NOT use any lighter or other flame to provide lighting for checking battery fluid levels. Wear protective goggles, rubber apron and rubber gloves when working around a battery.



### CAUSTIC SULFURIC ACID

**CAUTION:** Battery electrolyte fluid is an extremely caustic sulfuric acid solution that can cause severe burns. DO NOT permit fluid contact with eyes, skin clothing, etc. If spillage occurs, flush with clear water immediately.

## CHARGING A BATTERY

Your generator has the capability of recharging a discharged, 12-volt automotive or utility style storage battery. Do not use the unit to charge any 6-volt batteries. Do not use the unit to crank an engine having a discharged battery. To recharge 12-volt batteries, proceed as follows:

- Check fluid level in all battery cells. If necessary, add ONLY distilled water to cover separators in battery cells. DO NOT USE TAP WATER.
- If the battery is equipped with vent caps, make sure they are installed and are tight.
- If necessary, clean battery posts or terminals
- Connect battery charge cable connector plug to panel receptacle (Fig. 9). identified by the words "12-VOLT D.C."
- Connect battery charge cable clamp with red handle to battery post or terminal indicated by a POSITIVE, POS or (+).
- Connect battery charge cable clamp with black handle to battery post or terminal indicated by a NEGATIVE, NEG, or (-)
- Start engine (see "Starting the Engine" on Page 5) Let the engine run while battery recharges
- When battery has charged, shut down engine (see "Stopping the Engine" on this page).

**NOTE:** Use an automotive hydrometer to test battery state of charge and condition. Follow the hydrometer manufacturer's instructions carefully. Generally, a battery is consid-

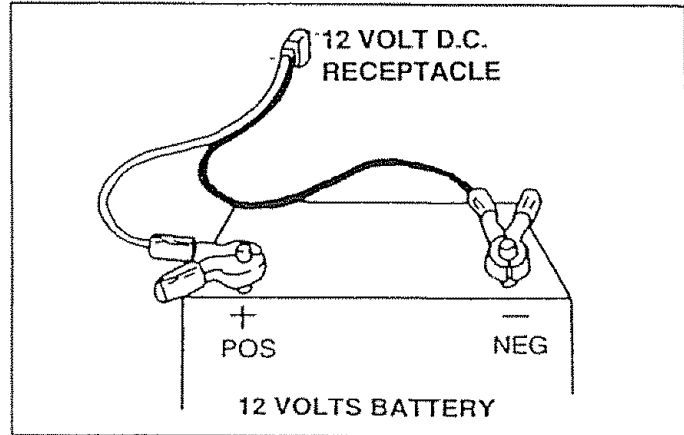


FIG. 9

ered to be at 100% state of charge when specific gravity of its fluid (as measured by hydrometer) is 1.260.

## PROTECTIVE DEVICES

### LOW OIL PRESSURE SHUTDOWN

A Low Oil Pressure Shutdown switch (Fig. 10) on the engine monitors low oil pressure. The switch is normally closed (N.C.), and is held open by engine oil pressure during startup and operation. Should engine oil pressure drop below a safe value during operation, an automatic shutdown occurs. This feature protects the engine against damaging low oil pressure conditions and possible engine failure.

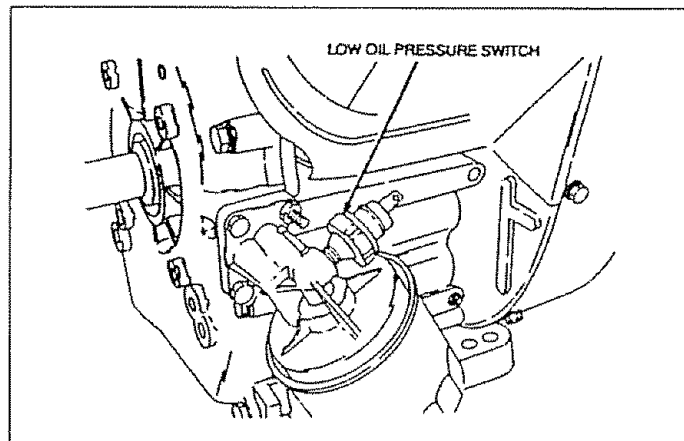


FIG. 10

If the engine shuts down unexpectedly, check engine oil level before attempting a restart.



**CAUTION!:** DO NOT ATTEMPT TO OPERATE AN ENGINE WITH LOW OIL PRESSURE BY UNPLUGGING THE LEAD FROM THE LOW OIL PRESSURE SWITCH OR BY BYPASSING THE SWITCH IN ANY MANNER. OPERATING WITH LOW OIL PRESSURE COULD DAMAGE THE ENGINE OR CAUSE FAILURE.

# OPERATION

## DON'T OVERLOAD THE GENERATOR

This generator is equipped with two 20-amp, one 20-amp and one 30-amp circuit breakers, which protect the unit against electrical overload. Overloading a generator in excess of its rated wattage capacity can result in damage to the generator 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 plate or decal affixed to the device. If the appliance, tool or motor does not give wattage, multiply 120 volts times ampere rating to determine watts (volts x amps = watts).

- Some electric motors, such as induction types, require about two and a half 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 you allow for this high starting wattage when selecting electrical devices to connect to your generator. First, figure the watts needed to start the largest motor. Add to that figure the running watts of all other connected loads.
- The GUIDE below is provided to assist you in determining how many items your generator can operate at one time.

## WATTAGE REFERENCE GUIDE

	RUNNING WATTS		RUNNING WATTS
*Air Conditioner (12,000 Btu) .....	1700	Lawn Mower .....	1200
Battery Charger (20 amp) .....	500	Light Bulb .....	100
Belt Sander (3") .....	1000	Microwave Oven .....	700
Chain Saw .....	1200	*Milk Cooler .....	1100
Circular Saw (6-12") .....	800 to 1000	Oil Burner on Furnace .....	300
Coffee Maker .....	1000	Oil Fired Space Heater (140,000 Btu) .....	400
*Compressor (1 HP) .....	2000	Oil Fired Space Heater (85,000 Btu) .....	225
*Compressor (3/4 HP) .....	1800	*Paint Sprayer, Airless (1/3 HP) .....	600
*Compressor (1/2 HP) .....	1400	Paint Sprayer, Airless (handheld) .....	150
Curling Iron .....	700	Radio .....	50 to 200
*Deep Freeze .....	500	*Refrigerator .....	600
Disc Sander (9") .....	1200	Slow Cooker .....	200
Edge Trimmer .....	500	*Submersible Pump (1-1/2 HP) .....	2800
Electric Nail Gun .....	1200	*Submersible Pump (1 HP) .....	2000
Electric Range (one element) .....	1500	Sump Pump .....	600
Electric Skillet .....	1250	*Table Saw (10") .....	1750 to 2000
*Furnace Fan (1/3 HP) .....	1200	Television .....	200 to 500
Hair Dryer .....	1200	Weed Trimmer .....	500
Hand Drill (1") .....	1100		
Hedge Trimmer .....	450		

\* Allow 2-1/2 times the listed watts for starting these devices

# CUSTOMER RESPONSIBILITIES

## GENERAL RECOMMENDATIONS

The Owner/Operator is responsible for making sure that all periodic maintenance tasks are completed on a timely basis; that all discrepancies are corrected; and that the unit is kept clean and properly stored. Never operate a damaged or defective generator. Follow the recommendations in the SERVICE RECOMMENDATIONS chart on page 9.



**CAUTION: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH YOUR SPARK PLUG BEFORE WORKING ON YOUR GENERATOR.**

## 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.

**NOTE:** We DO NOT recommend using 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 of the water will be retained in voids and cracks 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.

### 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.



**CAUTION:** Never insert any object or tool through the air cooling slots, even if the engine is not running. Damage to the unit or personal injury may result.

## ENGINE MAINTENANCE

### CHECKING OIL LEVEL

See OPERATION section on Page 7 for information on checking oil level. Oil level should be checked prior to each use or at least every eight hours of operation. Keep oil level maintained.

## CHANGING OIL

Change oil after first 8 hours of operation. Change oil every 50 hours thereafter. If you are using your generator under dirty or dusty conditions, or in extremely hot weather, change oil more often.

Change oil while engine is still warm from running, as follows:



**CAUTION:** Disconnect spark plug wire from spark plug and keep it away from spark plug.

- Clean area around oil drain plug, remove plug (Fig. 14) and drain oil completely into a suitable container.

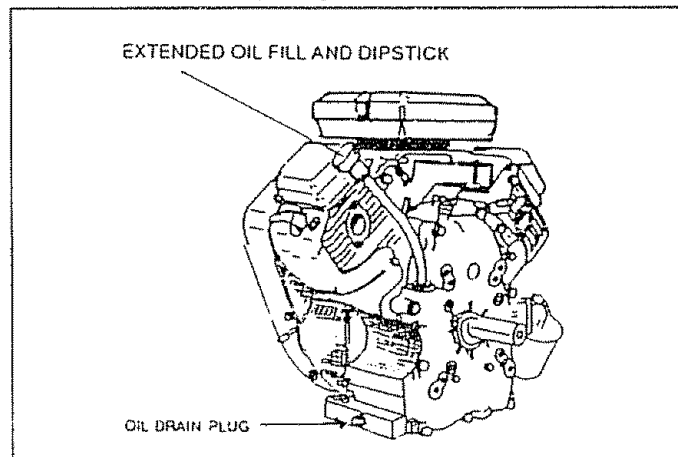


FIG. 14

- When all oil has drained, install and tighten oil drain plug.
- Remove oil dipstick and insert a clean fill funnel into extended oil fill opening. Fill engine crankcase to dipstick FULL mark. Do not overfill above that mark. About 3 pints is required. POUR SLOWLY.
- When engine crankcase is filled to proper level, install and tighten oil fill plug.

### REPLACE SPARK PLUGS

Remove and replace spark plugs every 100 operating hours or once annually, whichever comes first. See ENGINE SPECIFICATIONS on Page 1 for recommended spark plugs. Set gap (Fig 15) on spark plug to 0.030 inch (0.76mm).



**CAUTION!** DO NOT blast clean spark plugs. Clean with pen knife or wire brush and solvent.

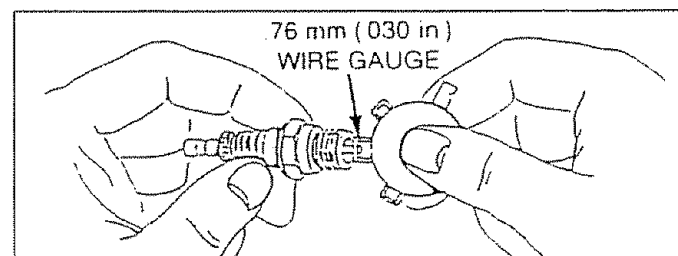


FIG. 15

# CUSTOMER RESPONSIBILITIES

## CHANGE OIL FILTER

Change engine oil filter every 100 hours of operation (every second oil change). Before installing new filter, lightly lubricate filter gasket with fresh, clean engine oil. Screw new filter on by hand until gasket contacts the filter adapter (Fig. 16). Then tighten about 3/4 turn further. Start and run engine for about 30 seconds, then shut down. Recheck oil level and add oil as necessary. Finally, start engine and check for leaks.

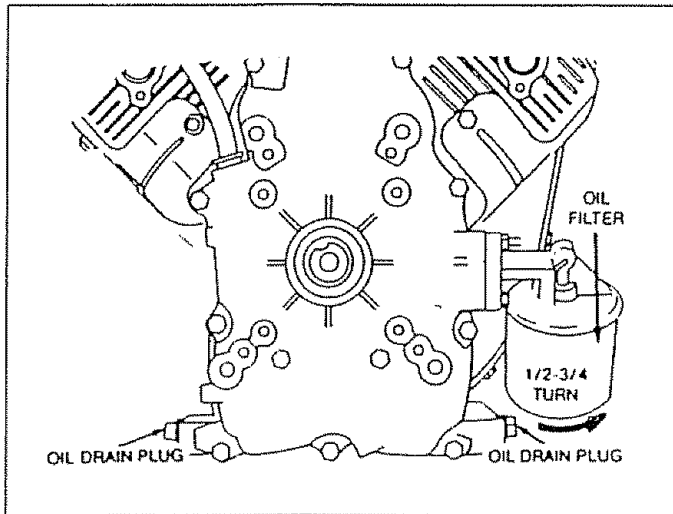


FIG. 16

## SERVICE ENGINE AIR CLEANER

Your engine will not run properly and may be damaged if you run it using a dirty air cleaner. Clean or replace foam pre-cleaner every 25 hours of operation. Service cartridge every 100 operating hours or once annually, whichever comes first. Clean or replace more often if operating under dusty or dirty conditions. To service the foam pre-cleaner (Fig. 17), proceed as follows:

- The cover is attached to the air cleaner housing by two latches. Lift up on the latches to unlock them, then remove the cover.
- Carefully remove foam pre-cleaner from around the cartridge.
- Replace pre-cleaner or wash in liquid detergent and water.

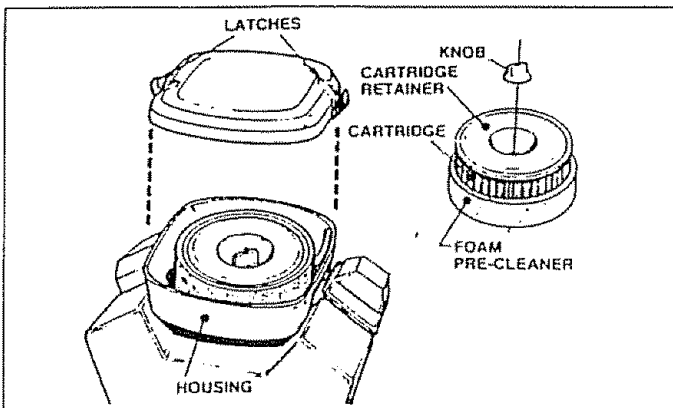


FIG. 17

- Squeeze (don't twist) pre-cleaner in a clean, dry cloth.
- Saturate pre-cleaner in engine oil. Squeeze in a clean absorbent cloth to remove excess oil.

**NOTE:** If you are going to clean the PAPER CARTRIDGE, do not install the foam pre-cleaner and proceed to instructions for servicing the paper cartridge.

- Carefully install the foam pre-cleaner around the cartridge.

To service the PAPER CARTRIDGE, proceed as follows:

- Clean cartridge by tapping gently on a flat surface. If cartridge is very dirty, replace or wash in a low or non-sudsing detergent and warm water solution. Rinse thoroughly with flowing water from mesh side until water runs clear. Let cartridge dry thoroughly before using.



**CAUTION!** DO NOT use petroleum solvents such as kerosene to clean the element. Such solvents will cause deterioration of the element. DO NOT oil the element. DO NOT use pressure air to clean or dry the element.

- Reinstall paper cartridge, retain with cartridge retainer and knob. Carefully install foam pre-cleaner.
- Install cover assembly onto air cleaner body.
- Tighten latch securely.

## CLEAN SPARK ARRESTER MUFFLER

The engine exhaust muffler has a spark arrester screen. The screen should be inspected every 100 operating hours or once each year, whichever comes first.



**DANGER:** LET MUFFLER COOL BEFORE WORKING ON IT. CONTACT WITH A HOT MUFFLER OR ENGINE CAN CAUSE SEVERE BURNS.

**NOTE** If you use your generator on any forest-covered, brush covered or grass-covered unimproved land, it must have a spark arrester. The spark arrester must be cleaned and maintained in good condition by the owner or operator. The preceding is required by law in the State of California. Other states may have similar laws. Federal laws apply on federal lands.

Clean and inspect the spark arrester as follows (Fig. 18):

- Remove four screws that retain the screen to muffler.

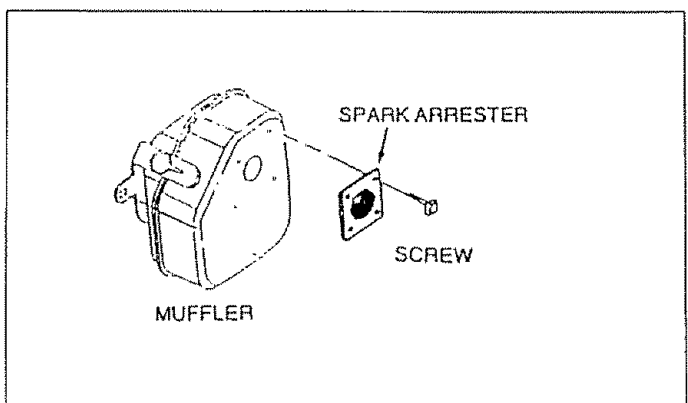


FIG. 18

## CUSTOMER RESPONSIBILITIES

- Clean the screen with a commercial cleaning solvent.
- Inspect the screen and replace if torn, perforated or otherwise damaged. DO NOT use defective screen.
- Reattach screen with four screws.

### CLEAN ENGINE COOLING SYSTEM

Continued operation with a clogged engine cooling system can cause severe overheating and possible engine damage. Fig. 19 shows the blower housing removed and areas to be cleaned. Clean these areas every 100 hours of operation or once annually, whichever comes first.

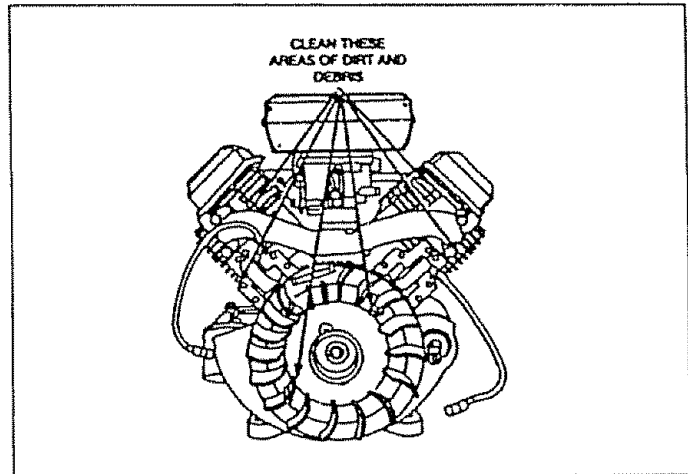


FIG. 19

## SERVICE RECOMMENDATIONS

MAINTENANCE TASK	HOURLY OPERATING INTERVAL				
	EVERY 8 HOURS OR BEFORE USE	25 HOURS OR YEARLY	50 HOURS OR YEARLY	100 HOURS OR YEARLY	YEARLY
1 Check oil level	X				
2 Change engine oil			NOTE 1 NOTE 2		
3. Change oil filter				X	
4. Service air cleaner.		NOTE 2 NOTE 3		X	
5. Clean cooling system				NOTE 3	
6 Inspect/clean spark arrestor and muffler			X	X	
7. Replace/clean spark plug.			X		
8 Replace in-line fuel filter					X
9 Prepare for storage.	Prepare unit for storage if it is to remain idle longer than 30 days				

NOTE 1: Change oil after first 8 hours, then after every 50 hours or yearly.

NOTE 2: Change sooner when operating under heavy load or high ambient temperature.

NOTE 3: Clean more often under dusty conditions or when airborne debris is present.

# SERVICE AND ADJUSTMENTS

## ENGINE SPEED



**CAUTION:** Engine speed was properly adjusted at the factory and should require no additional adjustment. Do not attempt to change engine speed. If you believe the engine is running too fast or too slow, take your generator to an authorized Sears Service Center for repair and adjustment. **CHANGING ENGINE GOVERNED SPEED WILL VOID ENGINE WARRANTY.**

The speed of the generator is maintained by an electronically controlled governor. DO NOT try to adjust the governed speed setting for the following reasons:

- High engine speeds are dangerous and increase the risk of personal injury or damage to equipment.
- Low engine speeds impose a heavy load on the engine when sufficient engine power is not available and may shorten engine life.
- The generator will supply correct rated AC frequency and voltage only at the proper speed. Some connected electrical devices could be damaged by incorrect frequency and/or voltage.

## CARBURETOR

You may need to adjust the carburetor to compensate for differences in fuel, temperature, altitude or load. Air cleaner and air cleaner cover must be assembled to carburetor when you run the engine.

**NOTE:** DO NOT remove the air cleaner when running the engine. Operation without the air cleaner fully assembled and the air filter installed may cause engine damage.

### INITIAL ADJUSTMENT

- Gently turn IDLE MIXTURE valve (Fig. 20) clockwise until it just closes. DO NOT FORCE. Valve may be damaged by turning it inward too far.
- Next open IDLE MIXTURE valve 1-3/4 turns counterclockwise
- This initial adjustment will permit the engine to be started and warmed up

### FINAL ADJUSTMENT

- Start engine and let it warm up for at least five minutes
- Hold the throttle against its idle stop (idle speed) and then turn the IDLE MIXTURE valve slowly clockwise 1/8 turn at a time until the lean dropoff point is reached (engine starts to miss and run erratically). Now turn the IDLE MIXTURE valve counterclockwise until engine speed begins to slow again (rich dropoff point)

- Turn the valve to mid point between rich and lean.

If further adjustment is needed, the main adjustment should be made under a load condition as outlined under LOAD ADJUSTMENT.

### LOAD ADJUSTMENT

- Let engine accelerate to normal governed speed.
- Apply electrical loads to the generator at or near the unit's full rated wattage/ampere capacity.
- If the engine stops or hesitates under load, open the IDLE MIXTURE screw 1/8 turn at a time. Test each setting with the engine under load until engine runs smoothly.
- If engine smokes excessively, turn the IDLE MIXTURE SCREW clockwise 1/8 turn at a time until condition is corrected.
- After IDLE MIXTURE SCREW is properly set, move throttle to idle speed position. If engine does not idle smoothly turn IDLE SPEED SCREW 1/8 turn at a time (either direction) until engine runs smoothly.

**NOTE:** Engines operated at altitudes at about 5000 feet or higher may require that you install a high altitude carburetor main jet (Part No. 80883) to achieve best engine performance. If engine performs erratically, contact your Sears Service Center to install the high altitude jet

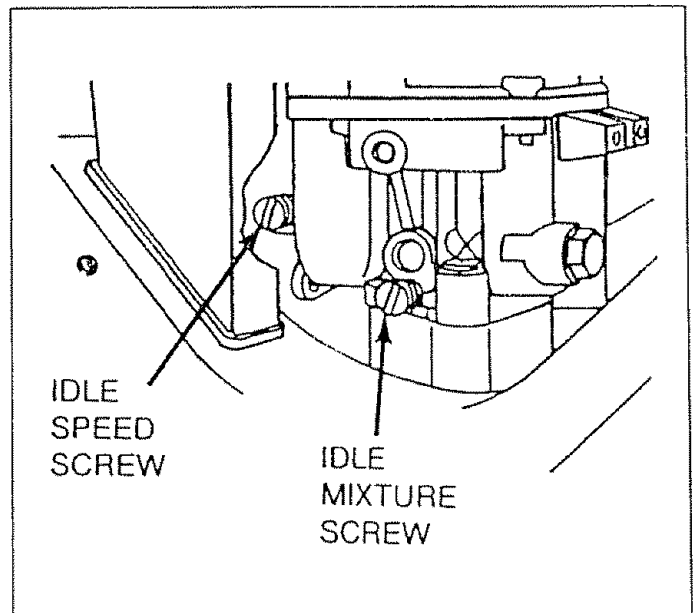


FIG. 20

# SERVICE AND ADJUSTMENTS

## ENGINE PERFORMANCE PROBLEMS

If your engine is running below its normal performance level, you could check for the following problems:

**Check Compression:** Remove spark plug and hold thumb over spark plug hole while cranking engine. Compression should be sufficient to push thumb off the opening. If compression appears low, check for the following:

- Loose cylinder head bolts.
- Blown head gasket
- Worn or damaged engine

Contact Sears Service Center to repair these problems.

**Check Carburetion:** Make sure gas tank is filled with clean, fresh gasoline. Make sure fuel shutoff valve is open. Make sure fuel flows freely through fuel line between tank and carburetor. Crank engine several times, then remove spark plug. If plug is wet, look for the following:

- Overchoking
- Rich fuel mixture
- Water in fuel
- Intake valve stuck open

If plug is dry, look for the following:

- Leaking carburetor gaskets
- Gummy or dirty carburetor
- Intake valve stuck closed

If you find any of these problems, contact your nearest Sears Service Center.

**Check Ignition:** Remove spark plug wire from plug and hold metal terminal end of wire near engine metal part. Crank engine. If spark occurs, try a new spark plug. If no spark occurs, contact Sears Service Center.

## STORAGE

### GENERAL

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

### STORAGE INSTRUCTIONS



**WARNING! NEVER STORE ENGINE WITH FUEL IN THE TANK INDOORS OR ENCLOSED, POORLY VENTILATED AREAS, WHERE FUMES CAN REACH AN OPEN FLAME, SPARK, OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS FURNACE.**

### ENGINE:

- Run the engine for about five minutes to warm it
- **NOTE:** If you did use "gasohol," drain fuel tank, then run engine until engine stops from lack of fuel.



**WARNING! DRAIN FUEL INTO APPROVED CONTAINER OUTDOORS, AWAY FROM OPEN FLAME. BE SURE ENGINE IS COOL**

**IMPORTANT:** EXPERIENCE INDICATES THAT ALCOHOL-BLENDED FUELS (CALLED GASOHOL OR USING 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 WHEN USING GASOHOL, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STORAGE PERIODS OF 30 DAYS OR LONGER. DRAIN THE GAS TANK, START THE ENGINE AND LET IT RUN UNTIL THE FUEL LINES AND CARBURETOR ARE EMPTY. USE FRESH FUEL NEXT SEASON. SEE STORAGE INSTRUCTIONS FOR ADDITIONAL INFORMATION. NEVER USE ENGINE OR CARBURETOR CLEANER PRODUCTS IN THE FUEL TANK OR PERMANENT DAMAGE MAY OCCUR.

**NOTE:** Using a fuel additive such as Sears Craftsman<sup>®</sup> Fuel Stabilizer, or an equivalent, will prevent gum deposits from forming in the generator's fuel system.

- While engine is still warm, drain oil from crankcase. Refill with fresh oil. See SPECIFICATIONS for oil recommendations on Page 1.
- Remove spark plug and pour about 1/2 ounce (15ml) of engine oil into the cylinder. Replace spark plug but do not connect spark plug wire. Crank slowly to distribute oil.



**CAUTION! Avoid spray from spark plug hole when cranking engine slowly.**

- Install spark plug. Do not connect spark plug wire.
- Clean dirt, oil, and grease from cylinder, cylinder head, fins, blower housing, rotating screen and muffler area.
- Store generator in clean, dry area.

### GENERATOR:

- Clean the generator as outlined on Page 9 ("To Clean the Generator")
- Check that cooling air slots and openings on generator are open and unobstructed.

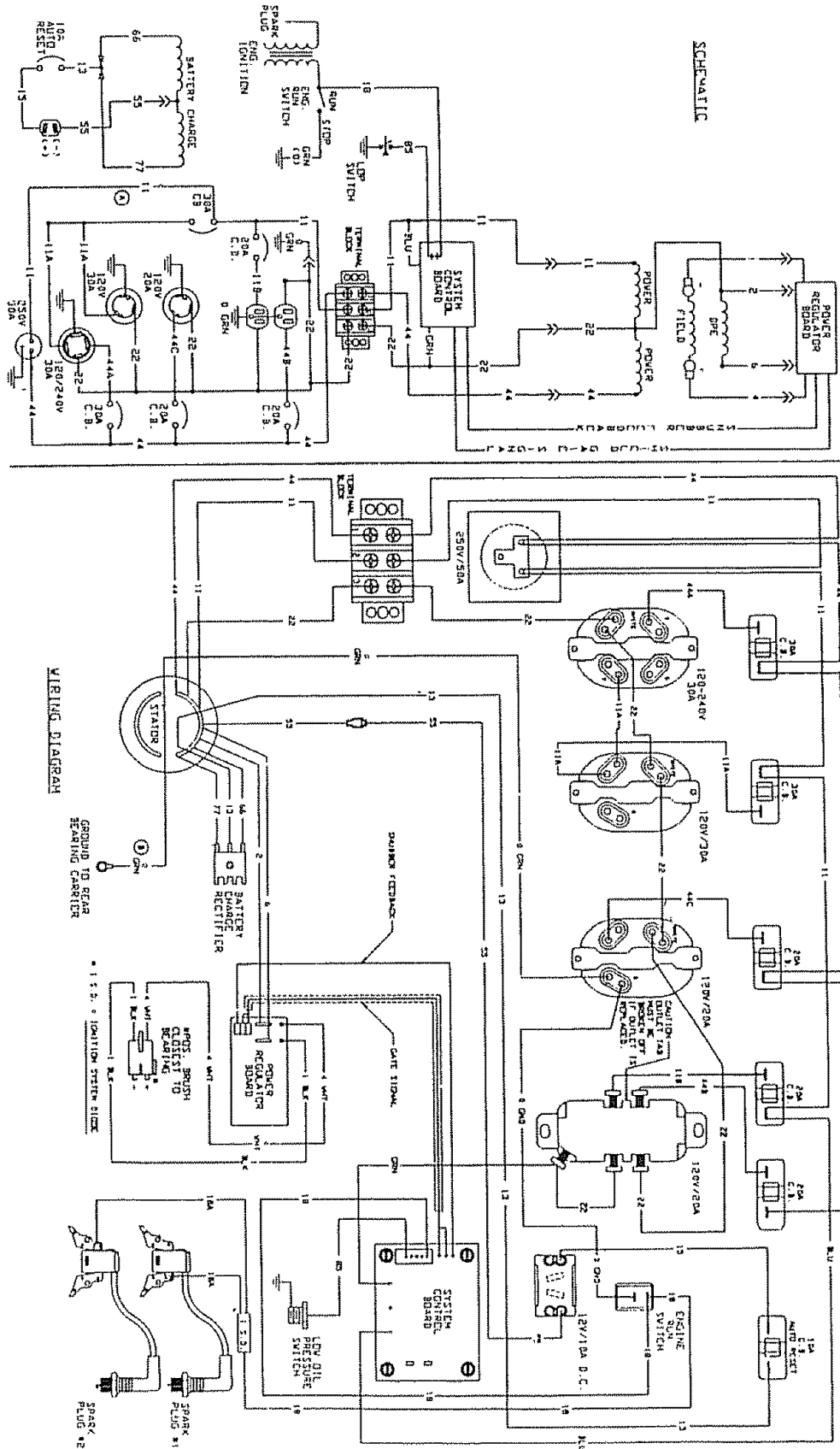
### OTHER STORAGE TIPS:

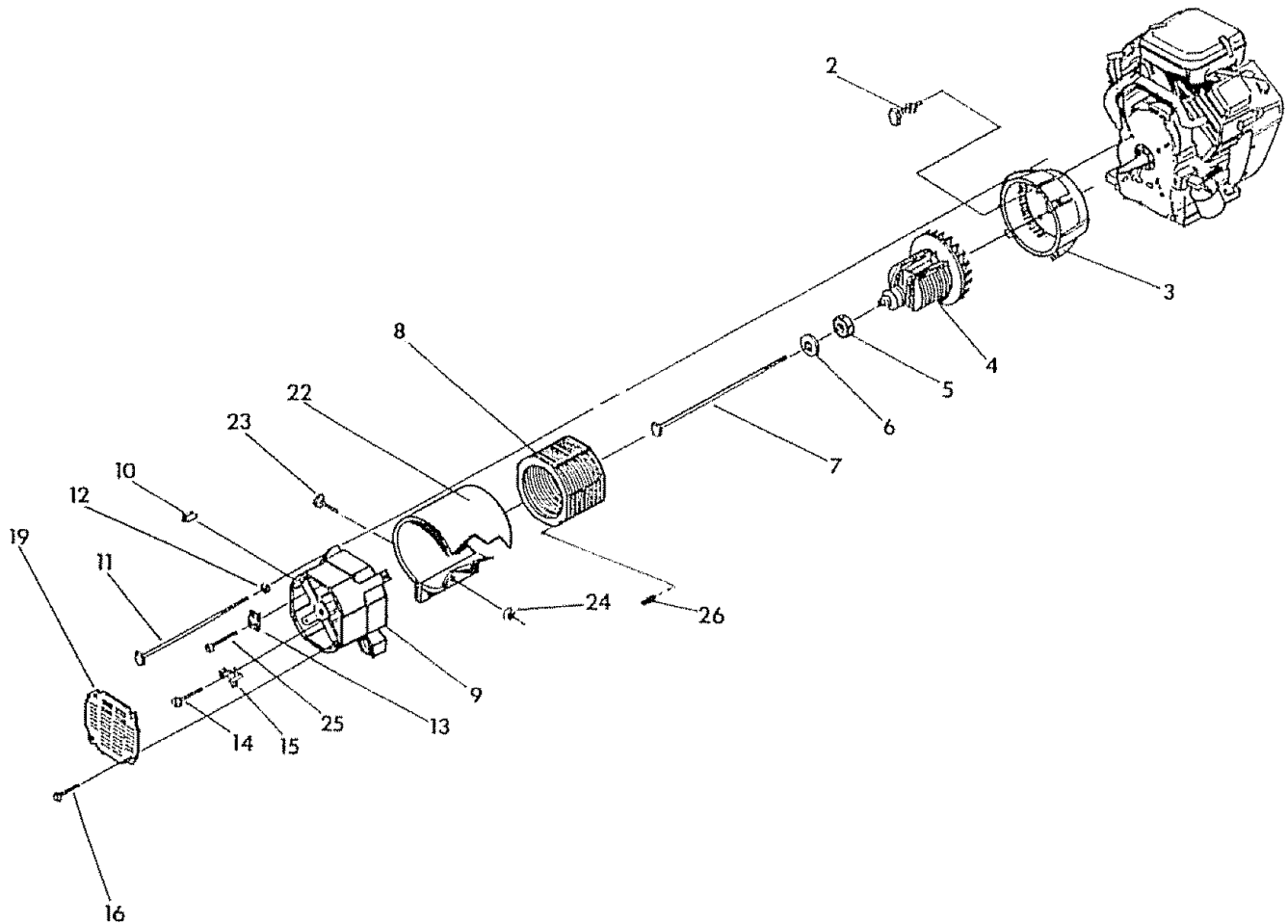
- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in your gasoline can cause problems when you use it with this unit.
- Do not store the generator under any plastic cover. Plastic cannot breathe, allowing moisture to form. This condensation can cause your generator to rust.



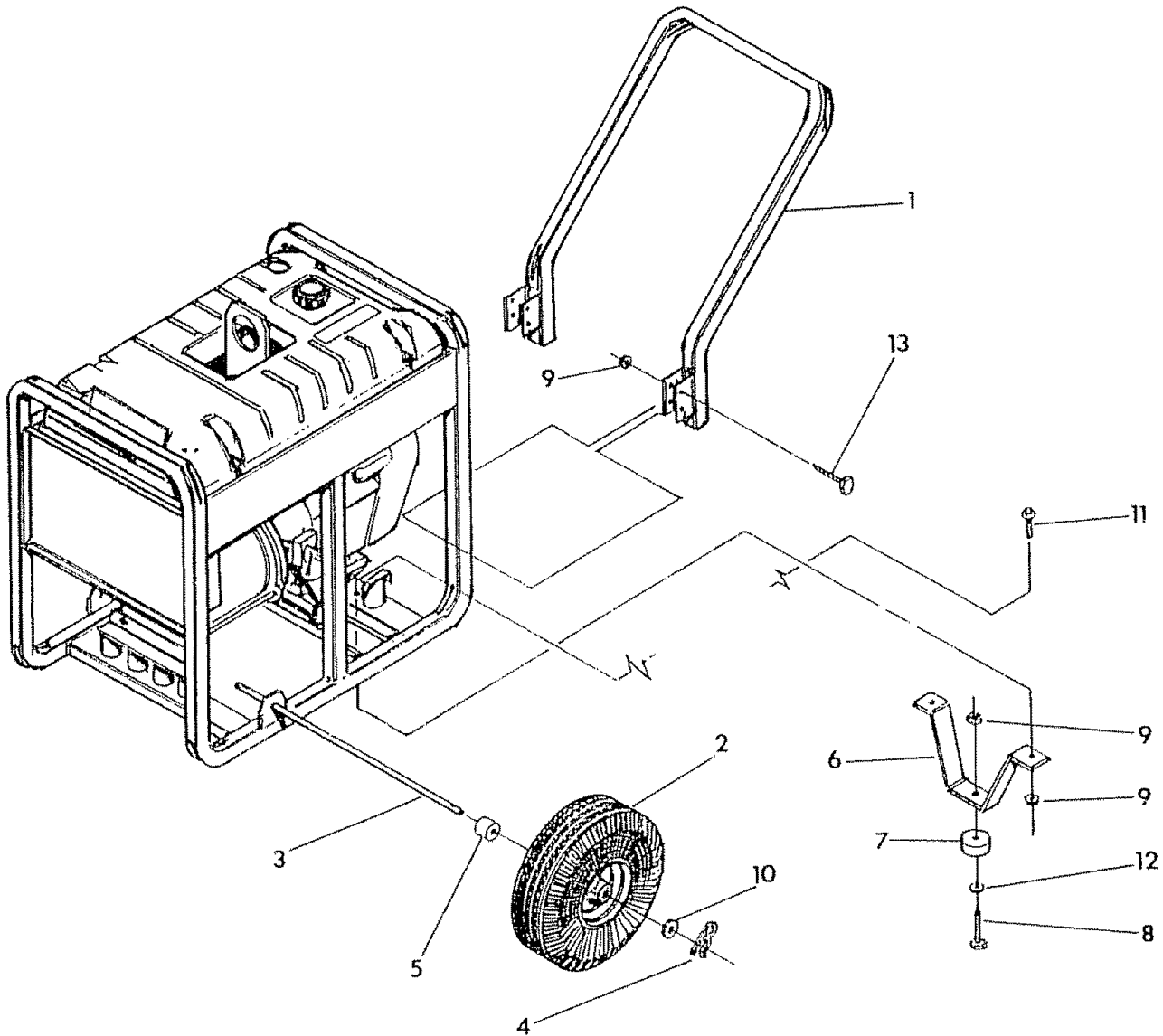
# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine is running, but no AC output is available.	<ol style="list-style-type: none"> <li>1. One of the circuit breakers is open.</li> <li>2. Fault in generator.</li> <li>3. Poor connection or defective cord set.</li> <li>4. Connected device is bad.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker.</li> <li>2. Contact Sears Service Department.</li> <li>3. Check and repair.</li> <li>4. Connect another device that is in good condition.</li> </ol>
Engine runs good at no-load but "bogs down" when loads are connected	<ol style="list-style-type: none"> <li>1. Short circuit in a connected load.</li> <li>2. Engine speed is too slow.</li> <li>3. Generator is overloaded.</li> <li>4. Shorted generator circuit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect shorted electrical load.</li> <li>2. Contact Sears Service Department.</li> <li>3. See "Don't Overload the Generator on Page 6.</li> <li>4. Contact Sears Service Department.</li> </ol>
Engine will not start; or starts and runs rough	<ol style="list-style-type: none"> <li>1. Run/Stop Switch set to STOP.</li> <li>2. Dirty air cleaner</li> <li>3. Out of gasoline</li> <li>4. Stale gasoline</li> <li>5. Spark plug wire not connected to spark plug.</li> <li>6. Bad spark plug</li> <li>7. Water in gasoline.</li> <li>8. Overchoking</li> <li>9. Excessively rich fuel mixture</li> <li>10. Intake valve stuck open or closed.</li> <li>11. Engine has lost compression</li> <li>12. Intake valve stuck open or closed</li> <li>13. Engine compression lost</li> <li>14. Failed battery</li> </ol>	<ol style="list-style-type: none"> <li>1. Set switch to RUN.</li> <li>2. Clean or replace air cleaner.</li> <li>3. Fill fuel tank.</li> <li>4. Drain gas tank; fill with fresh fuel.</li> <li>5. Connect wire to spark plug</li> <li>6. Replace spark plug.</li> <li>7. Drain gas tank; fill with fresh fuel</li> <li>8. Open choke fully and crank engine</li> <li>9. Contact Sears Service Department</li> <li>10. Contact Sears Service Department.</li> <li>11. Contact Sears Service Department.</li> <li>12. Contact Sears Service Department.</li> <li>13. Contact Sears Service Department</li> <li>14. Replace battery</li> </ol>
Engine shuts down during operation	<ol style="list-style-type: none"> <li>1. Out of gasoline.</li> <li>2. Low oil level</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. Fill crankcase to proper level</li> </ol>
Engine lacks power.	<ol style="list-style-type: none"> <li>1. Load is too high.</li> <li>2. Dirty air filter.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "Don't Overload the Generator" on Page 6.</li> <li>2. Replace air filter</li> </ol>
Engine "hunts" or falters	<ol style="list-style-type: none"> <li>1. Choke is opened too soon</li> <li>2. Carburetor is running too rich or too lean</li> </ol>	<ol style="list-style-type: none"> <li>1. Move choke to halfway position until engine runs smoothly</li> <li>2. Adjust carburetor</li> </ol>
No battery charge DC output (battery will not charge)	<ol style="list-style-type: none"> <li>1. Battery posts corroded.</li> <li>2. Battery fluid level low</li> <li>3. Battery cables are bad</li> <li>4. Battery is defective</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean battery posts</li> <li>2. Add distilled water to battery</li> <li>3. Repair or replace cable(s)</li> <li>4. Check battery condition, replace if defective</li> </ol>

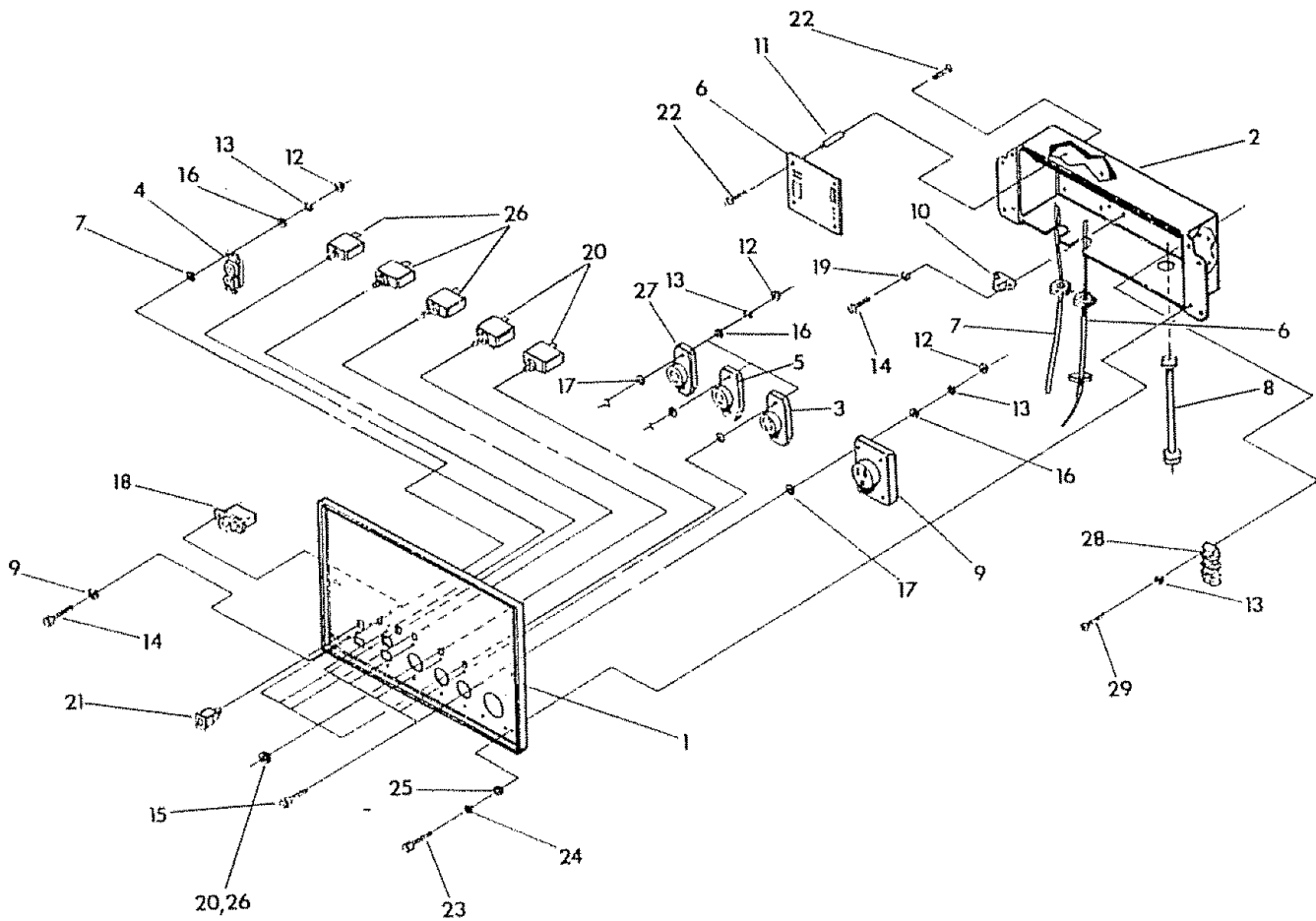




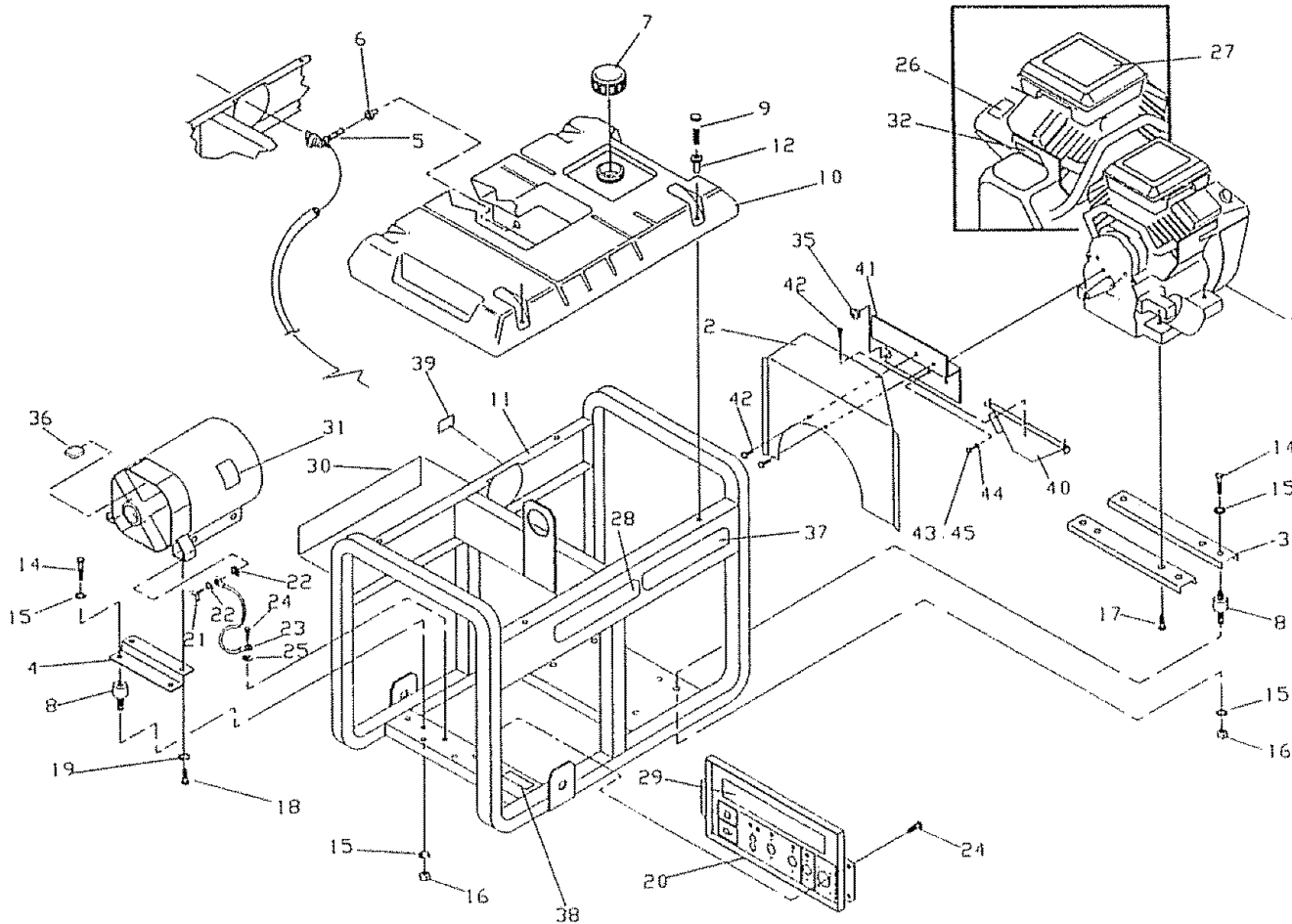
ITEM	PART NO.	DESCRIPTION
2	86307	5/16"-24 x 3/4" HEX HEAD CAPSCREW (4 REQ)
3	66365-G	ENGINE ADAPTOR HOUSING (1 REQ)
4	92553	ROTOR ASSEMBLY (1 REQ)
5	65791	BALL BEARING (1 REQ)
6	67451	FLAT WASHER [SPECIAL] (1 REQ)
7	51810	5/16"-24 x 11" ROTOR BOLT (1 REQ)
8	92350	STATOR ASSEMBLY (1 REQ)
9	66825-B	REAR BEARING CARRIER (1 REQ)
10	67022	BEARING CARRIER GROMMET (1 REQ)
11	66449-K	M6-1.0 X 200mm STATOR BOLT (4 REQ)
12	22097	M6 LOCK WASHER (4 REQ.)
13	65795	BATTERY CHARGE RECTIFIER (1 REQ)
14	66849	M5-0.8 X 16mm TAPTITE SCREW (2 REQ)
15	66386	BRUSH HOLDER ASSEMBLY (1 REQ)
16	74908	M5-0.8 X 10mm SCREW (4 REQ.)
19	78388	REAR BEARING CARRIER PANEL (1 REQ.)
22	81887-D	ALTERNATOR WRAPPER (1 REQ.)
23	52618	M5-0.8 X 12MM HEX HEAD SCREW (2 REQ.)
24	52856	M5-0.8 LOCKING NUT (2 REQ.)



ITEM	PART NO.	DESCRIPTION
1	93393B	HANDLE (1 REQ.)
2	93682	WHEEL (2 REQ.)
3	93693B	AXLE (1 REQ.)
4	87005	RETAINING PIN (2 REQ.)
5	93685	WHEEL SPACER (2 REQ.)
6	93394	SUPPORT LEG (1 REQ.)
7	27007	VIBRATION MOUNT (1 REQ.)
8	42909	HEX HEAD CAPSCREW, M8-1.25 X 30mm (2 REQ.)
9	52858	LOCK NUT, M8 (7 REQ.)
10	22247	WASHER [WHEEL] (2 REQ.)
11	39253	HEX HEAD CAPSCREW, M8-1.25 X 20mm (1 REQ.)
12	22145	WASHER [VIBRATION MOUNTING] (1 REQ.)
13	39287	HEX HEAD CAPSCREW, M8-1.25 X 45mm (4 REQ.)

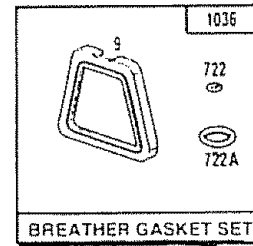
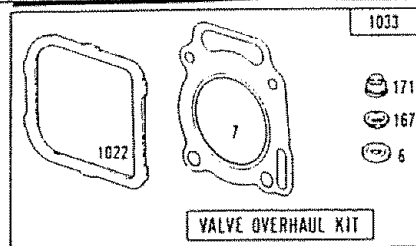
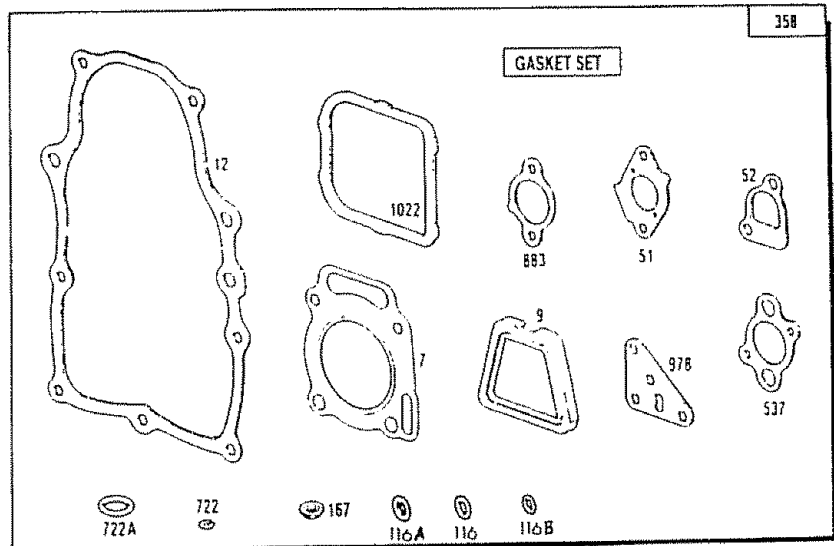
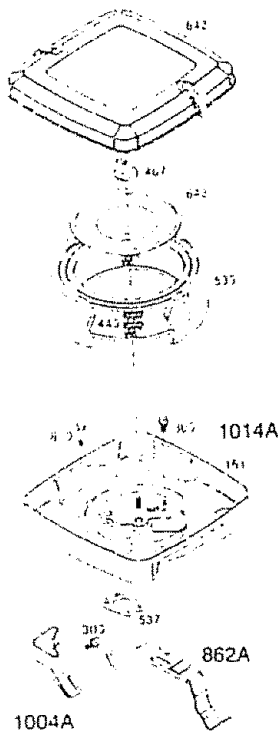
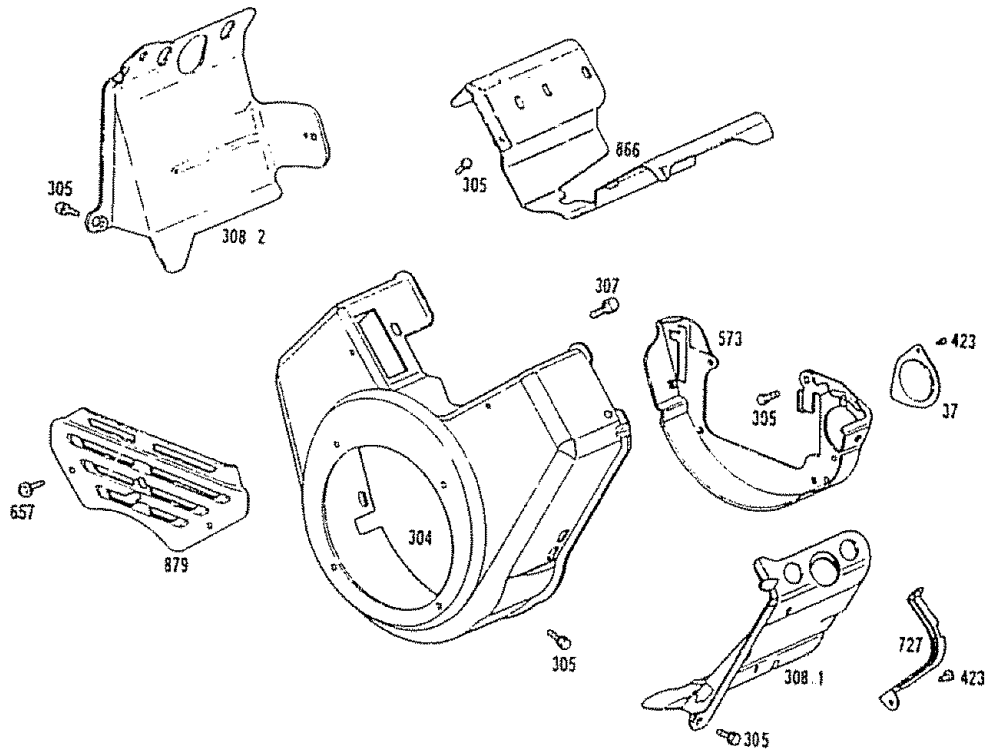
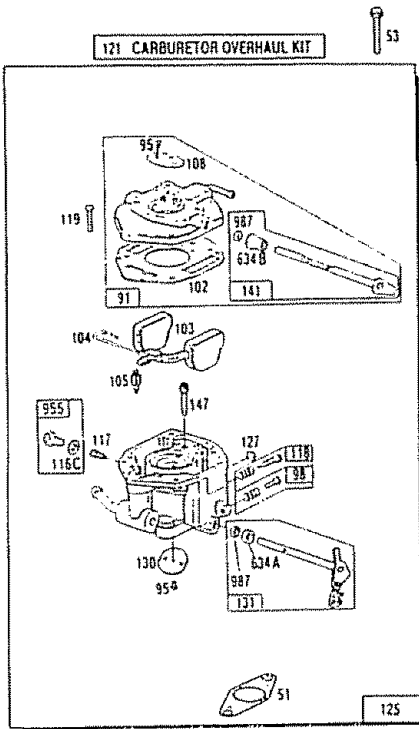


ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	92354	CONTROL PANEL (1 REQ.)	15	75475	M4-0 7 x 10mm SCREW (12 REQ.)
2	92355	CONTROL BOX (1 REQ.)	16	38150	#8 FLAT WASHER (12 REQ.)
3	43437	120/240V, 30 A TWISTLOCK OUTLET (1 REQ.)	17	23365	#8 SHAKEPROOF WASHER (12 REQ.)
4	68759	120 VOLTS, 20 A DUPLEX OUTLET (1 REQ.)	18	66822	12V DC OUTLET & BRACKET (1 REQ.)
5	68868	120V, 30 A TWISTLOCK OUTLET (1 REQ.)	19	43182	M3 LOCK WASHER (4 REQ.)
6	83970	SYSTEM CONTROL BOARD (1 REQ.)	20	75207-A	30 A. CIRCUIT BREAKER (2 REQ.)
7	93043	ENGINE HARNESS ASSM (1 REQ.)	21	78653	ON-OFF SWITCH (1 REQ.)
8	81434	RUBBER GROMMET CONNECTOR (1 REQ.)	22	64526	#6-32 x 3/8" SCREW (8 REQ.)
9	74191	250V, 50 AMP OUTLET (1 REQ.)	23	52749	M5-0 8 x 12mm SCREW (4 REQ.)
10	87962	CIRCUIT BREAKER (1 REQ.)	24	49226	M5 LOCK WASHER (4 REQ.)
11	68337	1" HEX STAND-OFF (4 REQ.)	25	23897	M5 FLAT WASHER (4 REQ.)
12	51715	M4-0.7 HEX NUT (12 REQ.)	26	75207	20 AMP CIRCUIT BREAKER (3 REQ.)
13	22264	#8 LOCKWASHER (16 REQ.)	27	74190	120V/20A TWISTLOCK OUTLET (1 REQ.)
14	43181	M3-0 5 x 10mm SCREW (4 REQ.)	28	92953	50-AMP, 3-TERMINAL BLOCK (1 REQ.)
			29	75476	M4-0 7 x 156mm SCREW (4 REQ.)

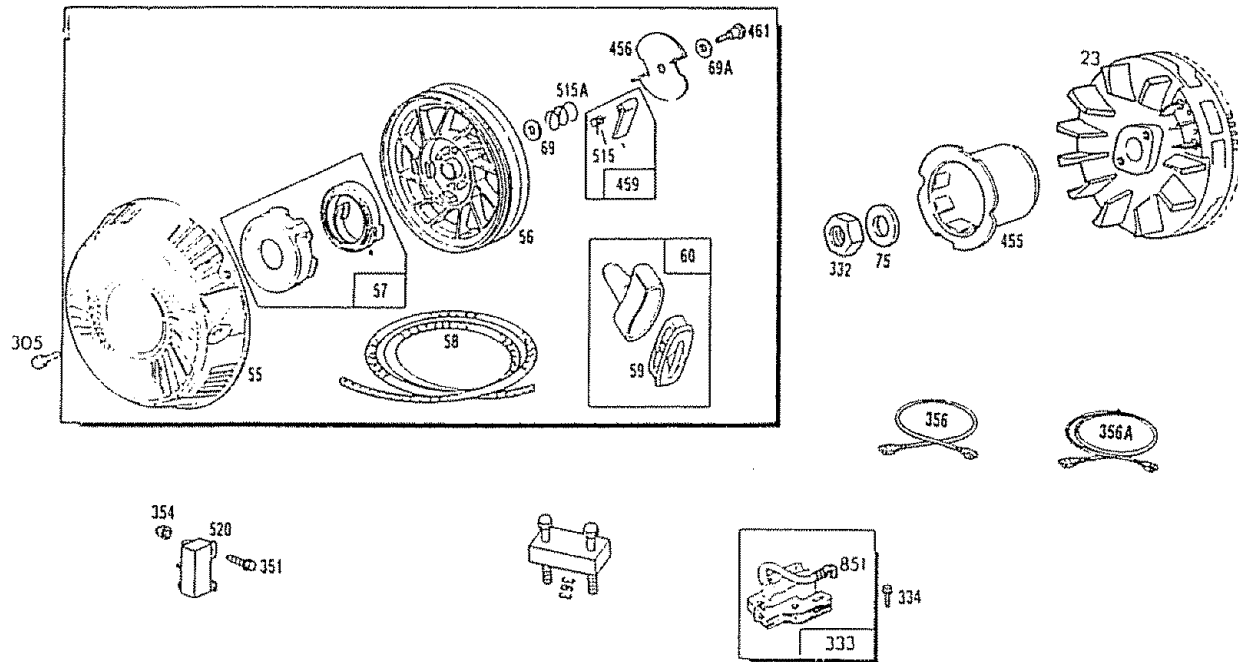


ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	85109	V-twin Engine (1 Req)	23	143-53621	Ground Wire (1 Req)
2	98216	Heat Shield (1 Req)	24	86292	#10 Self Drilling Capscrew (5 Req)
3	77304	Engine Support (2 Req)	25	23762	#10 Shakeproof Washer (1 Req)
4	78512	Alternator Support (1 Req)	26	79661g	Engine Decal (1 Req)
5	80270	Fuel Shut-off Valve (1 Req)	27	77581	Airbox V-twin Decal (1 Req)
6	78299	Fuel Valve Bushing (1 Req)	28	92982	Danger Stop Decal (1 Req)
7	84582	Fuel Tank Cap (1 Req)	29	92519	Control Panel Decal (1 Req)
8	35097	Vibration Mounts (6 Req)	30	92668	Unit Decal (1 Req)
9	78831b	M6-1.0 X 60mm Capscrew (4 Req)	31	78837	Data Plate Decal (1 Req)
10	93615	Fuel Tank (1 Req)	32	77816	Caution Hot Muffler Decal (1 Req)
11	92558	Cradle (1req)	35	62265	Rubber Grommet (1 Req)
12	83465	Fuel Tank Mounting Grommet (4 Req)	36	84132	Power Module (1 Req)
14	23152	3/8-16" X 3/4" Capscrew (6 Req)	37	93826	Start Instructions (1 Req)
15	22237	3/8" Lock Washer (12 Req)	38	96409	"1-800" Decal (1 Req)
16	22241	3/8-16" Hex Nut (6 Req)	39	73054	Fuel Shut-off Decal (1 Req)
17	75246	3/8-16" X 1-1/4" Screw (4 Req)	40	93074	Heat Shield (1 Req)
18	39253	M8-1.25 X 16mm Capscrew (2 Req)	41	98214	Heat Shield Bracket (1 Req)
19	22129	M8 Lock Washer (2 Req)	42	56892	#10-24 X 3/8" Screw (5 Req)
20	92555a	Control Panel Assembly (1 Req)	43	26359	7/16-14 X 3/4" Bolt (2 Req)
21	86494	M6-1.0 X 16mm Wing Screw (1 Req.)	44	22250	7/16" Flat Washer (2 Req)
22	26850	M6 Shakeproof Washer (2 Req)	45	86495	Loctite 272 Thread Locker (a/r)









**TWO-YEAR LIMITED WARRANTY FOR DELUXE PORTABLE GENERATORS**

SEARS warrants to the original purchaser that the alternator and engine for its portable generator will be free from defects in materials or workmanship for the items and period set forth below from the date of original purchase. This warranty is not transferable and applies only to portable generators driven by the GN-Series Sears warranted engine.

	CONSUMER*	COMMERCIAL*
Alternator	2 years (2nd year parts only)	1 year
Engine	2 years (2nd year parts only)	1 year

\* NOTE: For the purpose of this warranty "consumer use" means personal residential household use by original purchaser. "Commercial Use" means all other uses, including rental, construction, commercial and income producing purposes. Once a generator has experienced commercial use, it shall thereafter be considered a commercial use generator for the purposes of this warranty.

During said warranty period, SEARS will, at its option, repair or replace any part which, upon examination by SEARS, is found to be defective under normal use and service\*\*. Starting batteries are not warranted by SEARS. All transportation costs under warranty, including return to the factory if necessary, are to be borne by the purchaser and prepaid by him. This warranty does not cover normal maintenance and service and does not apply to a generator set, alternator or engine, or parts which have been subjected to improper or unauthorized installation or alteration, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in SEARS's judgment, to adversely affect its performance and reliability.

\*\* NORMAL WEAR: As with all mechanical devices, engines need periodic parts service and replacement to perform well. This warranty will not cover repair when normal use has exhausted the life of a part or an engine.

THERE IS NO OTHER EXPRESS WARRANTY. SEARS HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT PERMITTED BY LAW. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD AS SPECIFIED IN THE EXPRESS WARRANTY. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

For service, see your nearest SEARS authorized warranty service facility. Warranty service can be performed only by a SEARS authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.

**SEARS, ROEBUCK AND CO.**  
**Department 817 WA**

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	69376	807521 — Cylinder assembly	105	79266	805620 — Fuel inlet valve
2	69333	805107 — Cylinder bearing	108	79267	805539 — Choke valve
3	67805	805101 — Oil seal	116	68573	*805058 — O-ring (oil pump)
5.1	69311	807508 — Cylinder head (cyl. #1)	116A	70506	*805198 — O-ring (crankcase cover)
5.2	69312	807510 — Cylinder head (cyl. #2)	116B	70541	*805316 — O-ring (pick-up tube)
6	70169	+805193 — Cylinder head washer	116C	79268	‡805549 — Main jet gasket
7	69332	+805111 — Cylinder head gasket	117	79269	‡805548 — Main jet
8	72301	807553 — Breather assembly	118	79270	‡807719 — Idle Adj. Needle Valve
8A	—	807795 — Breather assembly	119	79271	805540 — Upper body mtg. screw
9	72315	†*805379 — Breather gasket	121	79272	807726 — Carburetor overhaul kit
10	70190	805194 — Breather screw	122	70553	805328 — Carburetor spacer
10A	—	805751 — Breather screw	125	67173	807801 — Carburetor assembly
11	70596	805362 — Breather tube	127	79273	805559 — Welch plug
12	69336	*805112 — Crankcase cover gasket	130	79274	805554 — Throttle valve
13	69325	805097 — Cylinder head screw	131	79275	807720 — Throttle shaft
15	67888	805048 — Oil drain plug	141	79276	807722 — Choke shaft
16A	80027	807625 — Thrust washers	147	79277	805553 — Slow speed jet
17	69315	805213 — Ball bearing	161	86443	807857 — Air cleaner base assembly
18	70540	807628 — Crankcase cover assm.	166	70567	805342 — Rocker arm stud
20	67924	805049 — Oil seal	166A	70131	805073 — Oil filter adapter stud
22	67878	805017 — Crankcase cover screw	167	75253	*+805420 — Valve cover washer
23	70166	807531 — Magneto flywheel & ring gear assembly	171	67885	+805019 — Nut
24	67877	805016 — Flywheel key	187	47662-AA	393815 — Fuel hose
25	75248	807619 — Piston assembly	192	75254	807623 — Valve adjusting screw
26	75249	807620 — Piston ring set	201	74946	805480 — Choke Control Rod
27	69327	805099 — Piston pin lock	206	79278	805470 — Nut for speed control
28	75250	807621 — Piston pin assembly	207	79279	805473 — Speed control screw
29	75251	807622 — Connecting rod assembly	208	79280	805471 — Speed control rod
32	72346	805395 — Connecting rod screw	209	77348	805630 — Governor spring - 2WT
33	69316	805089 — Exhaust valve	209A	79282	805450 — Governor idle spring
34	69317	805090 — Intake valve	216	79283	805439 — Choke link
35	67816	805078 — Valve spring	216A	79284	805509 — Manual rod
39	70523	805300 — Windage plate	222	79285	807610 — Governor control bracket
40	69320	805092 — Valve spring retainer	227	72320	807528 — Governor lever assembly
42	70513	805161 — Valve retainer	232	70125	805465 — Governor link spring
45	70584	805354 — Valve tappet	239	60108	491657 — Oil pressure switch
46	80016	807764 — Cam gear — 2WT	240	75213	394358 — Fuel filter
50	72358	805409 — Manifold assembly — intake	243	70531	807598 — Oil pump pick-up screen
50A	69370	805142 — Exhaust Manifold	271	79286	807609 — Choke control bracket
51	67290	*805264 — Carburetor mounting gasket	277	67884	805018 — Washer
52	67895	*805023 — Intake manifold gasket	280	79288	805472 — Speed control bracket
53	79251	805466 — Screw	300	78838	807559 — Exhaust Muffler
54	67158	805006 — Screw	300A	81958	807742 — Exhaust Muffler
55	79252	492193 — Starter housing	304	69369	807654 — Blower housing
56	79253	280918 — Rewind starter pulley	305	66886	805406 — Screw
57	79254	492194 — Rewind starter spring	307	67898	805025 — Screw
58	79255	66894 — Rope starter - cut to 69-1/2"	308.1	69363	807648 — Air guide cover (cyl. #1)
59	79256	490653 — Starter handle insert	308.2	69364	807649 — Air guide cover (cyl. #1)
60	79257	490652 — Rewind starter handle	332	67890	805021 — Hex nut
69	79258	94464 — Pulley washer	333	67891	492341 — Magneto armature
69A	79259	94462 — Washer retainer	334	72356	805407 — Mtg. Screw
75	67198-N	805007 — Spring washer	337	72347	491055 — Spark plug
87	68554	805054 — Governor shaft seal	351	70116	805169 — Hex head screw
91	79260	807721 — Upper carburetor body	354	79289	805496 — Nylock nut
95	79261	805538 — Valve mounting screw	356	79290	807594 — Ground wire (cyl. #1)
98	79262	807718 — Throttle adjusting screw	356A	79291	807593 — Ground wire (cyl. #2)
102	79263	‡805541 — Intake elbow gasket	358	75258	807640 — Gasket set
103	79264	805546 — Float assembly	363	79292	19203 — Flywheel puller
104	79265	‡805545 — Floating hinge pin	370	75259	805484 — Breather screw — washer
			423	66484	805260 — Screw
			445	86444	394018 — Air cleaner cartridge

**CRAFTSMAN 8000 WATT A-C GENERATOR 580.327074**

**REPAIR PARTS**

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
455	70198-A	805153 — Starter hub	722A	75263	†*805483 — Breather screw seal
456	79293	224228 — Retainer	819	68572	805057 — Screw
459	79294	492341 — Starter dog	842	80007	805386 — O-ring
461	79295	94463 — Retainer screw	851	75272	493880 — Ignition cable terminal
467	86445	491875 — Air Cleaner Knob	862A	86449	807796 — Air cleaner bracket
515	79298	262565 — Dog spring	864	67195	805083 — Exhaust port liner
515A	79299	262564 — Torsion spring	866	72307	807652 — Air guide valley cover
520	70520	807527 — Ground terminal	868	70122	805094 — Valve guide seal
523	70158	807585 — Dipstick	869	67910	805085 — Intake valve
524	67181	805259 — Filler tube seal	870	67911	805086 — Exhaust valve seat
525	70151	807584 — Oil filler tube	871	67813	805084 — Valve guide
535	86446	271271 — Foam Element	879	72304	805369 — Carburetor cover
537	66480	805003 — Air cleaner gasket	883	67897	*805024 — Exhaust manifold gasket
539	80002	221372 — Friction clip	884	74807	807595 — Muffler clamp
552	72361	805412 — Governor shaft bushing	955	80008	807723 — Jet plug
552A	72362	805413 — Governor shaft bushing	971	67156	805405 — Air cleaner base screw
562	80003	805381 — Bolt	978	68548	*805250 — Oil filter adapter gasket
572	70199	805197 — Breather baffle	982	68527	805030 — Screw
573	69368	807655 — Back plate assembly	987	80010	‡805544 — Shaft seal
592	72321	805383 — Hex nut	1004A	86450	805632 — Air inlet tube
601	70162	93053 — Hose clamp	1014A	86451	807797 — Breather deflector
608	70197	491017 — Rewind starter assembly	1022	67920	+*805028 — Valve cover gasket
613	69397	805158 — Screw	1023	69328	805100 — Valve cover
614	72366	805417 — Cotter pin	1024	70539	807644 — Oil pump assembly
616	72367	807596 — Governor fork	1025	70536	805313 — Governor slider
634	72365	805416 — Governor shaft washer	1026	70577	805352 — Rod intake push
634A	80004	‡805557 — Throttle collar	1026A	80009	805617 — Rod exhaust push
634B	80005	‡805543 — Choke collar	1027	70185	491056 — Oil filter
635	70562	805529 — Spark plug elbow	1028	70514	805292 — Oil filter adapter
642	86447	807862 — Air cleaner cover assm	1029	70599	807557 — Rocker arm
643	86448	805631 — Air cleaner plate	1030	70567	805342 — Rocker arm shaft
657	67820	805009 — Screw	1031	70566	805341 — Rocker arm support
688	80006	805485 — Spring cap	1033	75271	807668 — Valve overhaul kit
718	68555	805103 — Crankcase dowel	1036	80012	808688 — Breather gasket set
718A	67806	805102 — Cylinder head dowel			
722	75262	†*805482 — Breather screw seal			

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OWNER'S  
MANUAL

MODEL NO.  
580.327071

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The model number for the engine will be found on the Blower Housing of the engine adjacent to the spark plug.

All parts listed herein may be ordered through Sears, Roebuck and Co. Service Centers and most Retail Stores

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- **PRODUCT — DELUXE PORTABLE GENERATOR**
- **MODEL NUMBER — 580.327071**
- **PART NUMBER**
- **PART DESCRIPTION**

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