

MGP-679500 4/29/99

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| DATE PURCHASED: |
|---|
| MODEL NO: |
| SERIAL NO: |
| STORE WHERE PURCHASED: |
| |
| ADDRESS |
| CITY |
| TELEPHONE: |
| Record the above information about your unit so that you will be able to provide it in case of loss or theft. |

| HORSE POWER | 10 HP |
|-------------------|----------|
| GASOLINE CAPACITY | 7 GALLON |
| OIL CAPACITY | 26 OZ. |

MAINTENANCE AGREEMENT

The Craftsman Warranty, plus a Maintenance Agreement, provide maximum value for your Sears products. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

Read and observe the safety rules.

Follow a regular schedule in maintaining, caring for and using your generator.

Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

FULL ONE YEAR WARRANTY ON CRAFTSMAN GENERATORS

For one year from the date of purchase, when this Craftsman generator is maintained and operated according to the instructions in this owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If your Craftsman Generator is used for commercial or rental purposes, this warranty applies for only 90 days from the original date of purchase.

FULL ONE YEAR WARRANTY ON CRAFTSMAN ENGINE

For one year from the date of purchase, when this Craftsman engine is maintained and operated according to the instructions in this owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If your Craftsman engine is used for commercial or rental purposes, this warranty applies only for 90 days form the date of purchase. This warranty does not cover: Expendable items such as spark plugs and air filters, which become worn during normal use.

Repairs necessary because of operator abuse or negligence, including damage resulting from no oil being supplied to the engine or failure to maintain the equipment according to the instructions contained in this owner's manual, are not covered under warranty.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE GENERATOR TO THE NEAREST SEARS SERVICE CENTER. This warranty gives you specific legal rights and you may also have other rights, which vary from PROVINCE TO PROVINCE.

Sold by Sears Canada, Inc., Toronto, Ont.

| SAFETY GUIDELINES - DEFINITIONS | | |
|--|---|---|
| This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT | URGENT SAFETY INFORMATION - A HAZ- ARD THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE. | ACAUTION Information for preventing damage to equipment. |
| PROBLEMS . To help you recognize this information, we use the symbols to the right. Please read the manual and pay attention to these sections. | WARNING IMPORTANT SAFETY INFORMATION - A HAZARD THAT <i>MIGHT</i> CAUSE SERIOUS INJURY OR LOSS OF LIFE. | NOTE Information that you should pay special attention to. |

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS •



AWARNING

When using this product basic precautions should always be followed including the following:







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| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|--|--|---|
| Attempting to connect generator directly to the electrical system of any building structure. | Back feeding electricity through a building's electrical system to the outside utility feed lines could en- danger repair persons attempting to restore service. Attempting to connect to the incoming utility service could result in electrocution. Restoration of electrical service while the generator is connected to the incoming utility could result in a fire or serious damage if a isolator switch is not installed. | Never back feed electricity through a structure's electrical system. To connect to a structure's electrical system in a safe manner and always have a Double-Throw Transfer Switch installed by a qualified electrician, in compliance with local ordinances. (When installing a Double-Throw Transfer Switch, a minimum of 10 gauge wiring must be used.) |
| Inadequate electrical grounding of gen- erator. | The failure of one of the generator's electrical devices, a broken wire, wet surfaces, etc. could result in the entire unit becoming electrically charged. Contact with electrically charged surfaces could result in electrocution. | Make sure that the unit is connected to an appropriate electrical ground, in accordance with the requirement of the National Electric Code. See page 8 for grounding instructions. |

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RISK OF ELECTROCUTION AND FIRE (cont'd)





| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|--|
| Operation of generator in rain, wet, icy, or flooded conditions. | Water is an excellent conductor of electricity! Water which comes in contact with electricity charged components can transmit electricity to the frame and other surfaces, resulting in electrical shock to anyone contact- ing them. | Operate generator in a clean, dry, well ventilated area. Make sure hands are dry before touching unit. |
| Use of worn damaged, undersized or un- grounded extension cords. | Contact with worn or damaged extension cords could result in electrocution. Use of undersize extension cords could | Inspect extension cords before use and replace with new if required. Use proper size (wire gauge) cordset |
| | result in overheating of the wires or at- tached items, resulting in fire. | for application. |
| | Use of ungrounded cordsets could pre- vent operation of circuit breakers and re- sult in electrical shock. | Always use electrically grounded cordset. |
| Placing generator on or against highly conductive surface, such as a steel walk- way or metal roof. | Accidental leakage of electrical current could charge conductive surfaces in con- tact with the generator. | Place generator on low conductivity surface such as a concrete slab. |
| Improper connection of items to genera- tor. | Exceeding the load capacity of the gen- erator by attaching too many items, or items with very high load ratings to it could result in overheating of some items or their attachment wiring resulting in fire or electrical shock. | Read the load rating chart and instruc- tions on page 9, 10 and 11. Make sure that the summation of electrical loads for all attachments does not exceed the load rating of the generator. |
| Operation of unit when damaged, or with guards or panels removed. | Attempting to use the unit when it has been damaged, or when it is not func- tioning normally could result in fire or electrocution. | Do not operate generator with me- chanical or electrical problem. Have unit repaired by an Authorized Ser- vice Center. |
| | Removal of guarding could expose elec- trically charged components and result in electrocution. | Do not operate generator with protec- tive guarding removed. |

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| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|--|--|
| Attempting to fill the fuel tank while the engine is running. | Gasoline and gasoline vapors can become ignited by coming in contact with hot components such as the muffler, engine exhaust gases, or from an electrical spark. | Turn engine off and allow it to cool before adding fuel to the tank. Equip area of operation with a fire extin- guisher certified to handle gasoline or fuel fires. |
| Sparks, fire, hot objects | Cigarettes, sparks, fires, or other hot objects can cause gasoline or gasoline vapors to ignite. | Add fuel to tank in well ventilated area. Make sure there are no sources of ignition near the generator. |
| Improper storage of fuel | Improperly stored fuel could lead to ac- cidental ignition. Fuel improperly secured could get into the hands of children or other unqualified persons. | Store fuel in a container designed to hold gasoline. Store container in se- cure location to prevent use by oth- ers. |
| Inadequate ventilation for generator | Materials placed against or near the gen- erator or operating the generator in ar- eas where the temperature exceeds 104° F. ambient can interfere with its proper ventilation features causing overheating and possible ignition of the materials. | Operate generator in a clean, dry, well ventilated area a minimum of four feet from any objects or wall. DO NOT OPERATE UNIT INDOORS OR IN ANY CONFINED AREA. |
| Tampering with factory set engine speed settings. | Engine speed has been factory set to provide safe operation. Tampering with the engine speed adjustment could result in overheating of attachments and could cause a fire. | Never attempt to " speedup " the en- gine to obtain more performance. Both the output voltage and frequency will be thrown out of standard by this practice, endangering attachments and the user. |
| Overfilling the fuel tank – fuel spillage. | Spilled fuel and its vapors can become ignited from hot surfaces or sparks. | Use care in filling the tank to avoid spilling fuel. Make sure fuel cap is secured tightly and check engine for fuel leaks before starting engine. Move generator away from refueling area or any spillage before starting engine. Allow for fuel expansion. Keep maximum fuel level ¼ inch below the tip of the fuel tank. Never refuel with the engine running. |



A DANGER

Risk of Injury and Property Damage When Transporting Generator

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|--|--|
| Fire, Inhalation, Damage to Vehicle Surfaces | Fuel or oil can leak or spill and could result in fire or breathing hazard, seri- ous injury or death can result. Fuel or oil leaks will damage carpet, paint or other surfaces in vehicles or trailers. | If generator is equipped with a fue shut-off valve, turn the valve to the off position before transporting to avoid fuel leaks. If generator is not equipped with a fuel shut-off valve drain the fuel from tank before trans- porting. Only transport fuel in an CSA approved container. Always place generator on a protective mat when transporting to protect against dam- age to vehicle from leaks. Remove generator from vehicle immediately upon arrival at your destination |



ADANGER

RISK OF BREATHING - INHALATION HAZARD

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|--|--|--|
| Gasoline engines produce toxic carbon monoxide exhaust fumes. | Breathing exhaust fumes will cause se- rious injury or death. | Operate generator in clean, dry, wel ventilated area. Avoid enclosed areas like garages, basements, storage sheds, etc., which lack a steady ex change of air. Never operate unit in a location occupied by humans or ani mals. Keep children, pets and other away from area of operating unit. |



AWARNING

RISK OF UNSAFE OPERATION

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|--|--|---|
| Operation of generator in careless manner. | All sources of energy include the poten- tial for injury. Unsafe operation or main- tenance of your generator could lead to serious injury or death to you or others. | Review and understand all of the operating instructions and warnings in this manual. Become familiar with the operation and controls of the generator. Know how to shut it off quickly. Equip area of operation with a fire extinguisher certified to handle gasoline or fuel fires. Keep children or others away from the generator at all times. |
| Operation of voltage sensitive appliances without a voltage surge protector. | Any gasoline operated household gen- erator will incur voltage variations caus- ing damage to voltage sensitive appli- ances or result in fire. | Always use U.L. listed voltage pro- tector to connect voltage sensitive appliances (TV, computer, stereo, etc.). Failure to use a U.L. listed volt- age surge protector will void the war- ranty on your generator. Notice: A multiple outlet strip is not a surge protector make sure you use a U.L. listed voltage surge protector |



AWARNING

RISK OF HOT SURFACES

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|--|
| Contact with hot engine and generator components. | Contact with hot surfaces, such as en- gines exhaust components, could result in serious burns. | During operation, touch only the con- trol surfaces of the generator. Keep children away from the generator at all times. They may not be able to recognize the hazards of this prod- uct |



AWARNING

RISK OF MOVING PARTS

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT | |
|---|---|---|--|
| Contact with moving parts can result in serious injury. | The generator contains parts which ro- tate at high speed during operation. These parts are covered by guarding to prevent injury. | Never operate generator with guard- ing or cover plates removed. Avoid wearing loose fitting clothing or jew- elry which could be caught by mov- ing parts. | |



AWARNING RISK FROM LIFTING

| HAZARD | WHAT COULD HAPPEN | HOW TO PREVENT IT |
|------------------------------|---|--|
| Lifting a very heavy object. | Serious injury can result from attempt- ing to lift too heavy an object. | The generator is too heavy to be lifted by one person. Obtain assistance from others before you try to move it |

ASSEMBLY

CARTON CONTENTS

- Main Unit
- Owner's Manual
- Wheels
- Handle
- Wheel Bracket



CAUTION: Read owner's manual. Do not attempt to operate equipment until you have read Owner's Manual for Safety, Operation, and Maintenance Instructions.

REMOVE GENERATOR FROM CARTON

- Open carton from top.
- Cut carton along dotted lines.
- •Remove all carton inserts.
- •Remove generator through opening in carton.
- Remove shipping block from under the gen head by unscrewing the bolt and remove the wood block. It is very important that this is removed before starting your generator.



IMPORTANT: Before any attempt to start your generator be sure to check engine oil (See OPERATION under Adding Engine Oil on page 12.)

GROUNDING THE GENERATOR

This generator should be grounded to help prevent accidental electrical shock. Shown below is a picture of the grounding lug supplied on your generator. First, drive a 3/4" or 1" diameter copper pipe or rod into the ground close to the generator set. The pipe must penetrate moist earth. Using #10 gauge wire, connect one end of the wire into the grounding lug. Next, connect the other end of the wire to the copper pipe or rod using an approved ground clamp.



Grounding Lug

INSTALLING WHEEL KIT

The Sears Wheel Kit was designed to greatly improve the portablility of your generator. You will need (2) 1/2" wrenches and (2) 9/16" wrenches.

- Place two 4"x4" pieces of wood on the floor. With another person helping, carefully lift the generator and place on top of the wood supports. This will support the weight of the gasoline engine and generator while the wheels, brackets, and handle are installed. Also, it will allow access to the underside of the generator for hardware installation. Fuel tank should be drained prior to installation. Make sure that the generator is supported evenly, level and will not fall.
- Place a handle cap (7) onto each end of handle prior to installation.
- The handle should be installed on the electrical outlet end of the generator. Place one washer (12) on long cap screws (11). Align the handle brackets with the upper holes pre-drilled in the generator frame. Place mentioned screws through frame and handle brackets. Secure with lock nuts (8) and tighten.

- Locate the engine support. Place one wheel bracket (4) on top of support as shown in illustration below. Align with the pre-drilled holes in support. Place 2 cap screws (9) through holes in bracket and support. Secure with 2 lock nuts (8) and tighten.
- Insert one shoulder bolt (2) into wheel (1). Insert threaded end of bolt through wheel bracket, secure with lock nut (3) and tighten. Note: The wheel will not rub frame if installed properly.
- Repeat the above steps for the oppposite side.
- Insert the threaded stud of rubber foot (10) through

the middle hole of the foot bracket (5). Secure with lock nut (8) and tighten.

- Locate the support under the electrical outlet end of the generator. Position foot bracket (5), with rubber foot installed, under the support and align the holes in the foot bracket (5) with the slots in the support. Place one cap screw (9) through each slot in the support and the holes in the foot bracket. Secure with the lock nuts (8) and tighten.
- Once completed, the wheel kit is ready for use.

This portability kit includes the following parts:

| Key <u>No.</u> | Description | PART NO. |
|-------------------|----------------------------|-------------|
| 1 | Wheel (2 used) | AC-0014 |
| 2 | Shoulder Bolt (2 used) | CAC-60 |
| 3 | Lock Nut 3/8"-16 (2 used) | SSF-8111-ZN |
| 4 | Wheel Bracket (2 used) | GS-0561 |
| 5 | Foot Bracket | GS-0562 |
| 6 | Handle | GS-0563 |
| 7 | Handle Cap (2 used) | GS-0565 |
| 8 | Lock Nut 5/16"-18 (9 used) | SSF-8150 |
| 9 | Cap Screw 5/16"-18 x 3/4" | |
| | (7 used) | SS-12-CD |
| 10 | Isolator Foot | GS-0587 |
| 11 | Cap Screw 5/16-18 x 1.75" | |
| | (2 used) | SSF-999-1 |
| 12 | Washer (2 used) | SS-6506-CD |



KNOW YOUR GENERATOR

Read this Owner's Manual and Safety Rules before operation of your Generator. Compare this illustration with your generator to familiarize yourself with the location of various controls and adjustments. Save the manual for future references.

FUEL TANK- Capacity of 7 US galions.

CHOKE SWITCH- Lever used to start cold engine.

ENGINE RUN/STOP SWITCH- Sets engine in starting mode for recoil starter - Stops running engine.

ENGINE OIL FILL- Place where engine oil is poured.

CIRCUIT BREAKER- Each receptacle has a circuit breaker to protect the generator from overloading.

120 VOLT RECEPTACLES- Used to supply 1800 watts of electrical power per receptacle or a combination of 3600 watts on the 120 side for operations. Protected by 15 amp circuit breaker.

240 VOLT TWISTLOCK RECEPTACLE- Used to supply 5000 watts of electrical power per receptacle for operations. Protected by 20 amp circuit breaker.

AIR CLEANER- Includes filter element and foam pre-cleaner that limits the amount of dirt that enters the engine.



RECEPTACLES

Your generator is equipped with duplex 120 volt receptacles and a twistlock 240 volt receptacle.

The unit is also equipped with a 15 amp circuit breaker for the 120 volt receptacles and a 20 amp circuit breaker for the 240 volt receptacle which is provided to protect the generator against electrical overload. If the circuit breaker trips, unplug electrical load from receptacle. Let circuit breaker cool down and then push circuit breaker button to reset.



GENERATOR CAPACITY

Exceeding the rated capacity of your generator can result in serious damage to your generator and connected electrical devices. You should observe the following to prevent overloading the unit:

- Starting and running wattage requirements must be calculated to match your generator wattage capacity.
- Resistive load appliances such as light bulbs, TV's and microwaves, have the same starting and running wattage. The wattage used for calculating the capacity can usually be found on each of these appliances.

Some inductive appliances and tools will list on the motor name plate, the starting and running voltage and amperage requirements. Use the following formula to convert voltage and amperage to wattage:

(Volts X Amp = Watts)

Inductive load appliances and tools such as refrigerators, air compressors and washers require approximately 2 to 4 times the listed running wattage for starting the equipment. This initial load only lasts for a few seconds on start-up but is very important when figuring your total wattage to be used.

NOTE: Always start your largest electric motor first, and then plug in other items, one at a time.

The guide below is provided to assist you in determining the appliances and tools that can be ran with the wattage capacity of your generator.

To select the right generator for your needs, total the wattage of the items to be run at the same time.



The wattage ratings shown are averaged. Wattage requirements may vary with different brands of appliances.

OBTAINING ELECTRICITY FROM GENERATOR

There are basically two ways to obtain electricity form a generator:

- Use of extension cords directly form the generator to the appliance, lights, tools, etc.
- Use of a double-throw transfer switch installed directly to the main electrical supply outside of the house.

Extension Cord

When using an appliance or tool at a considerable distance from the generator, a 3-wire extension cord that has a 3-blade grounding plug and 3-slot receptacle that accepts the tool's plug should be used. A cord of adequate size must be used. A minimum of 12 gauge wire size with at least a 20 amp draw can be used. When amperage exceeds 20 amps a 10 gauge wire size should be used.

Connecting Generator To Main Electrical Supply

Potential hazards exist when a electrical generator is connected to the main electrical supply coming into the house. : is at that point that the generator could feed back into the utility company's system causing possible electrocution of workers who are repairing electrical lines. To avoid back feeding of electricity into utility systems, a **double-throw transfer switch** should be installed between the generator and utility power. This device should be installed by a licensed electrician and in compliance with all local electrical codes.

NOTE: When installing a Double-Throw Transfer Switch, a minimum of 10 gauge wiring must be used.

BEFORE STARTING ENGINE

CAUTION: Always check engine oil level before every start. Running engine low of oil or out of oil could result in serious damage to the engine.

Adding Engine Oil

Your generator has been shipped **without** oil in the engine. Begin by removing the oil dipstick and plug. Start pouring the oil in slowly.

The engine will hold approximately 26 ounces of oil. To heck the oil, clean and replace the dipstick. Do not crew the dip stick in when checking the oil level. Next, remove the dipstick to check the level. The oil dipstick is clearly marked with lines that tell you when the engine has enough oil. **Do not fill above this point.**



NOTE: When adding oil to the engine crankcase, use a high quality detergent oil classified "For Service SF,SG,SH" rated SAE 30 weight. Use no special additives. Select the oil's viscosity grade according to your expected operating temperatures.



Low Oil Shutdown

Your Craftsman generator engine is equipped with Low Oil Shutdown. Low Oil Shutdown is a safety device designed to protect your engine from damage in the event the oil level in the crankcase is low.

If while the engine is running, the oil gets low, it will automatically shut itself down and will not restart until the oil is added. If the oil is low before start-up, the generator will not start until oil is added.

NOTE: The Low Oil Shutdown mechanism is very sensitive. You must fill the engine to the full mark on the dipstick to inactivate this safety device.

Gasoline

Your generator engine is 4 cycle. Use unleaded fuel only. Never mix oil with gasoline.

CAUTION: Never fill fuel tank completely. Fill tank to 1/2" below the bottom of the filler neck to provide space for fuel expansion. Wipe any fuel spillage from engine and equipment before starting engine.

WARNING: Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.

Use clean, fresh, regular unleaded gasoline with a minimum of 85 octane. Do not mix oil with gasoline. If unleaded fuel is not available, leaded fuel may be used.

To Start Your Generator

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CAUTION: Never run engine indoors or in enclosed, poor ventilated areas, engine exhaust contains carbon monoxide, an ordorless and deadly gas.

Make sure the fuel shutoff valve is turned to the open position.



- Remove gas cap.
- Add unleaded gasoline, slowly, to fuel tank.
- Do not overfill.
- On the engine there is a start/off switch located on the front panel of the engine. Place this switch to the start position.

• On the engine there is a choke/run lever. Place this lever to the choke position.



- Grasp the starter handle and pull rope out slowly until it pulls harder. Let the rope rewind slowly. Then pull rope with a rapid full arm stroke. Let rope return to starter slowly.
- When engine starts, gradually move choke lever to "No Choke Position".
- If the engine fails to start after (3) pulls, move the choke lever to the beginning choke position and pull start rope again.
- For hot engine starts make sure choke lever is in the "No Choke Position".

Connecting Electrical Loads

• Let engine run and warm up for about five minutes after starting.

- Plug in the desired 120 or 240 volts tools.
- DO NOT connect 240 volt equipment to the 120 volt duplex receptacles.
- DO NOT connect 3-phase loads to the panel receptacles.

IMPORTANT: You should always add up the rated watts of all lights, tools and appliances you are powering at one time. This total should not exceed the rated capacity of you generator or circuit breaker rating of the receptacle supplying power.

Stopping The Engine

- Disconnect all electrical loads.
- Switch the start/off switch to the off position.



IMPORTANT: Never store engine with fuel in tank, indoors, or in enclosed, poorly ventilated areas or where fuel fumes may reach an open flame.

MAINTENANCE

| CUSTOMER RESPONSI | BILITIES TABLE | | | |
|---------------------------|--------------------|---|--------------------------------------|---------------------------------------|
| MAINTNENANCE TASK | Bèfore each use | Every 25 Hours of Every Season | Every 50 Hours of Every Season | Every 100 Hours of Every Season |
| Check oil level | x | See Note 2 | | |
| Change oil | | | See Note 1 | |
| Clean Air Filter Assembly | | x | | |
| Check Spark Plug | | x | | X |
| Prepare Unit for Storage | Prepare unit fo | Prepare unit for storage if it is to remain idle for more than 30 days. | | |

Note 1: Change oil after first two (2) operating hours and every 50 operating hours thereafter, more often if operated in extreme dusty or dirty conditions.

Note 2: Check oil after 5 hours of operation (See page 14 - ENGINE MAINTENANCE - Oil.)

GENERAL RECOMMENDATIONS

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

Some adjustments will need to be made periodically to maintain your generator.

GENERATOR MAINTENANCE

Your generator should be kept clean and dry at all times. The generator should not be stored or operated in enviroments that includes excessive moisture, dust or any corrosive vapors. If these substances are on the generator, clean with a cloth or soft bristle brush. Do not use a garden hose or anything with water pressure to clean the generator. Water may enter the cooling air slots and could possibly damage the rotor, stator and the internal windings of the gen head.

All adjustments in the Maintenance section of this manual should be made at least once each season.

ENGINE MAINTENANCE

Oil

• Oil level should be checked prior to each use and at least every 5 hours of operation. To check oil see **Adding Engine Oil** on page 12.

Changing Engine Oil

For a new engine, change oil after the first **2 operating hours**. Thereafter, change oil after every **50 hours** of operation.

Change the oil while the engine is still warm. The oil will flow freely and carry away more impurities. Make sure the engine is level when filling, checking or changing oil.

Change the oil as follows:

- To keep dirt, grass clippings, etc. out of the engine, clean the area around the drain plug and dipstick before removing it.
- Remove the oil drain plug and dipstick. Tilt the engine slightly towards the oil drain to obtain better drainage. Be sure to allow ample time for complete drainage.



- Reinstall the drain plug. Make sure it is tightened securely.
- Fill the crankcase with new oil of the proper type (See Adding Oil Section), to the Full mark on the dipstick. Always check the level with the dipstick before adding more oil.
- Reinstall the oil fill cap or plug and tighten securely.



Service Air Cleaner

NOTE: Do not use petroleum solvents, e.g., kerosene, which will cause the cartridge to deteriorate. Do not use pressurized air to clean cartridge. Pressurized air can damage the cartridge.

To service air cleaner follow these steps:

- 1. Unscrew wing nut. Remove cover and air cleaner cartridge.
- 2. Remove cartridge from cover.

To service cartridge, clean by tapping gently on a flat service. Do not oil cartridge. Replace if dirty or damaged.

3. Replace air cleaner cartridge. Place cover over cartridge and tighten nut finger tight and then turn it one more complete turn.



Clean Guard/Muffler

Do not clean with a forceful spray of water because water could contaminate fuel system. With a brush or cloth clean finger guard after every use to prevent engine damage caused by overheating.



Before running engine, clean muffler area to remove all combustible debris.

CLEAN

Clean and Replace Spark Plug

Change the spark plug every 100 hours of operation or once each year, whichever comes first. This will help your engine to start easier and run better.



SERVICE ADJUSTMENTS

Carburetor

The carburetor of your generator is pre-set at the factory. The carburetor should not be tampered with. If your generator is used at an altitude in excess of 4000 feet performance may be affected. If so consult with your nearest Sears Service Center regarding high altitude set changes.

Governor

Your engine governor maintains the constant operating speed of your generator. **DO NOT** tamper with the engine governor which is factory set for proper engine speed.

Over-speeding your engine above factory high speed setting can be dangerous and could possibly cause personal injury or property damage. If you believe the engine is running too fast or slow, take your generator to a Authorized Sears Service Center for repair and adjustment.

CAUTION: Low engine speeds impose a heavy load on the engine and when sufficient power is not available the engine life could be shortened.

STORAGE

If you are going to store your generator for more than 30 days, use the following information as a guide to prepare the generator for storage.

STORAGE INSTRUCTIONS

CAUTION: Never store generator with fuel in the tank indoors or in 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 appliances.

Engine Preparation

- Add fuel stabilizer to fuel tank to minimize the formation of fuel gum deposits during storage.
- Run engine at least 10 minutes after adding stabilizer to allow it to enter the fuel system.
- Next shut off engine.

- Disconnect the spark plug wire and remove the spark plug.
- Add one teaspoon of oil through the spark plug hole.
- Place rag over spark plug hole and pull the recoil a few times to lubricate the combustion chamber.
- Replace the spark plug, but do not connect the spark plug wire.

NOTE: If a fuel stabilizer is not used, all gasoline must be drained from the tank and carburetor to prevent gum deposits from forming on these parts and causing possible malfunction of the engine.

Generator

- Clean the generator as outlined on Page 14 (Generator Maintenance)
- Check that cooling air slots and openings on generator are open and unobstructed.

TROUBLESHOOTING GUIDE

| PROBLEM | CAUSE | CORRECTION | |
|--|---|--|--|
| Engine will not start | 1. Low on fuel or oil. | 1. Add fuel or oil. | |
| • | 2. Ignition switch in "Off" position. | 2. Turn to "ON" position | |
| | 3. Faulty spark plug. | 3. Replace spark plug. | |
| | 4. Choke in wrong position. | 4. Adjust choke accordingly. | |
| | Fuel shut-off valve in closed position. | 5. Open fuel shut-off valve. | |
| e g | 6. Unit loaded during start-up. | 6. Remove load from unit. | |
| | 7. Spark plug wire loose. | 7. Attach wire to spark plug. | |
| No electrical output | 1. Faulty receptacle. | 1. Have Service Center replace. | |
| | 2. Circuit breaker kicked out. | 2. Depress and reset. | |
| | 3. Defective capacitor. | 3. Have Service Center replace capacitor. | |
| | 4. Faulty power cord. | 4. Repair or replace cord. | |
| 14 | 5. GFCI switch breaker kicked out (if equipped) | 5. Depress and reset | |
| Repeated circuit breaker tripping | Overload Faulty cords or equipment. | Reduce load. Check for damaged, bare, or frayed wires on equipment. Replace. | |
| Generator overheating | 1. Generator overloaded. | 1. Reduce load. | |
| | 2. Insufficient ventilation. | Move to adequate supply of fresh air. | |
| No auto idle | Faulty solenoid Faulty idle control switch Faulty windings in stator Faulty circuit board Faulty wire harness | Have Service Center replace. | |
| DC does not have power with the circuit breaker depressed | Faulty rectifier Faulty windings in stator Faulty wire harness | Have Service Center replace. Have Service Center replace. Have Service Center replace. | |

CALIFORNIA & US EPA EMISSION CONTROL WARRANTY STATEMENT

The U. S. Environmental Protection Agency ("EPA"), the California Air Resources Board ("CARB") and Tecumseh Products Co. are pleased to explain the Federal and California Emission Control Systems Warranty on your new utility or lawn and garden equipment engine. In California, new 1995 and later utility and lawn and garden equipment engines must be designed, built and equipped to meet the State's stringent anti-smog standards. In other states, new 1997 and later model year engines must be designed, built and equipped, at the time of sale, to meet the U.S. EPA regulations for small non-road engines. Tecumseh Products Co. will warrant the emission control system on your utility or lawn and garden equipment engine for the periods of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your utility or lawn and garden equipment engine.

Your emission control system may include parts such as the carburetor, ignition system and exhaust system. Also included may be the compression release system and other emission-related assemblies.

Where a warrantable condition exists, Tecumseh Products Co. will repair your utility or lawn and garden equipment engine at no cost to you for diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE

Emission control systems on 1995 and later model year California utility and lawn and garden equipment engines are warranted for two years as hereinafter noted. In other states, 1997 and later model year engines are also warranted for two years. If, during such warranty period, any emission-related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by Tecumseh Products Co.

OWNER'S WARRANTY RESPONSIBILITIES

As the utility or lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual, but Tecumseh Products Co. will not deny warranty solely due to the lack of receipts or for your failure to provide written evidence of the performance of all scheduled maintenance.

As the utility or lawn and garden equipment engine owner, you should, however, be aware that Tecumseh Products Co. may deny you warranty coverage if your utility or lawn and garden equipment or a part thereof has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your utility or lawn and garden equipment engine to a Tecumseh Authorized Service Outlet (any Tecumseh Registered Service Dealer, Tecumseh Authorized Service Distributor or Tecumseh Central Warehouse Distributor) as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

Warranty service can be arranged by contacting either a Tecumseh Authorized Service Outlet or by contacting Tecumseh Products Co., c/o Service Manager, Engine and Transmission Group Service Division, 900 North Street, Grafton, WI 53024-1499. Telephone 1-414-377-2700, or see your local telephone yellow pages under "Engines, Gasoline" for the name, address and telephone number of a Tecumseh Authorized Service Outlet near you.

IMPORTANT NOTE

This warranty statement explains your rights and obligations under the Emission Control System Warranty ("ECS Warranty") which is provided to you by Tecumseh Products Co. pursuant to California law. Tecumseh Products Co. also provides to original purchasers of new Tecumseh Products Co. engines. The Tecumseh Products Co. Limited Warranties for New Tecumseh Engine and Electronic Ignition Modules ("Tecumseh Products Co. Warranty") which is enclosed with all new Tecumseh Products Co. engines on a separate sheet. The ECS Warranty applies only to the emission control system of your new engine. To the extent that there is any conflict in terms between the ECS Warranty and the Tecumseh Products Co. Warranty may provide a longer warranty period. Both the ECS Warranty and the Tecumseh Products Co. Warranty rights and obligations with respect to your new engine.

Warranty service can only be performed by a Tecumseh Products Co. Authorized Service Outlet, or by Tecumseh Products Co. at its factory in Grafton, WI. At the time of requesting warranty service, evidence must be presented of the date of sale to the original purchaser. The purchaser shall pay any charges for making service calls and/or for transporting the products to and from the place where the inspection and/or warranty work is performed. The purchaser shall be responsible for any damage or loss incurred in connection with the transportation of any engine or any part(s) thereof submitted for inspection and/or warranty work.

If you have any questions regarding your warranty rights and responsibilities, you should contact Tecumseh Products Co. at 1-414-377-2700.

EMISSION CONTROL SYSTEM WARRANTY

Emission Control System Warranty ("ECS Warranty") for 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines):

- A. APPLICABILITY: This warranty shall apply to 1995 and later model year California utility and lawn and garden equipment engines (for other states, 1997 and later model year engines). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.
- B. GENERAL EMISSIONS WARRANTY COVERAGE: Tecumseh Products Co. warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its utility and lawn and garden equipment engines is:
- 1. Designed, built and equipped so as to conform with all applicable regulations adopted by the Air Resources Board pursuant to its authority in Chapters 1 and 2, Part 5, Division 26 of the Health and Safety Code, and
- Free from defects in materials and workmanship which, at any time during the ECS Warranty Period, will cause a warranted emissions-related part to fail to be identical in all material respects to the part as described in the engine manufacturer's application for certification.
- C. The ECS Warranty only pertains to emissions-related parts on your engine, as follows:
- Any warranted, emissions-related parts which are not scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by Tecumseh Products Co. according to Subsection 4 below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
- 2. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owner's Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
- 3. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual, shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by Tecumseh Products Co. according to Subsection 4 below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
- 4. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a Tecumseh Authorized Service Outlet.
- 5. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a Tecumseh Authorized Service Outlet.
- 6. Tecumseh Products Co. shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
- 7. Throughout the ECS Warranty Period, Tecumseh Products Co. shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
- 8. Any Tecumseh Products Co. authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce Tecumseh Products Co. ECS Warranty obligations.
- 9. Unapproved add-on or modified parts may not be used to modify or repair a Tecumseh Products Co. engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. Tecumseh Products Co. shall not be liable hereunder for failures of any warranted parts of a Tecumseh Products Co. engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING:

- 1: Carburetor Assembly and its Internal Components
 - a) Fuel filter
 - b) Carburetor gaskets
 - c) Intake pipe
- 2: Air Cleaner Assembly a) Air filter element
- 3: Ignition System, including: a) Spark plug
- b) Ignition module

- 4. Catalytic Muffler (if so equipped)
 a) Muffler gasket (if so equipped)
- b) Exhaust manifold (if so equipped)
- 5. Crankcase Breather Assembly and its Components a) Breather connection tube

Dear Customer,

In manufacturing this product, many steps have been taken to provide you with the highest quality. Unfortunately, errors or omissions occasionally occur. In the event that you find a missing or defective part, please contact your nearest Sears store.

SERVICE AND REPAIR PARTS CALL 1-800-665-4455 *

Keep this number handy should you require a service call or need to order repair parts.

If ordering parts make sure you have the

name, make and model no. of the merchandise and the name and number of the part you wish to order.

* If calling locally, please use one of the following numbers:

Regina - 566-5124 Toronto - 744-4900 Kitchener - 894-7590 Montreal - 333-5740 Halifax - 454-2444 Ottawa - 738-4440 त्र संस्थित संस्थ

Vancouver - 420-8211

If you have any suggestions that would help us to improve our assembly/operation instructions, or this product, please write them down and mail it to:

| 222 Jarvis Street | |
|------------------------------------|-----------|
| Toronto, Ontario M5B 2B8 | |
| Attention: Buyer Dept: <u>D671</u> | Model No. |
| NAME | |
| ADDRESS | |
| | PHONE # |
| COMMENTS | |
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