

DIRECTIONS

FOR OPERATING

PREWAY

AUTO - COOK - KIT INSTANT
LIGHTING CAMP STOVE

Nos. 508A - 509A - 512A

—:— I M P O R T A N T —:—

Use only clean, white gasoline. Do not use gasoline containing Ethyl Lead or Anti-Knock Compound. It clogs the generator very rapidly

Do not lose or destroy this instruction folder, as it may be necessary for you to refer to it at times in order to operate your appliance properly and economically

Prentiss Wabers Products Co.

Manufacturers of

GASOLINE AND KEROSENE PRESSURE RANGES AND
WATER HEATERS . GASOLINE AUTO COOK KITS . AUTO
ICE BOXES . HEATING BURNERS . RADIANT HEATERS
LANTERNS . BLOW TORCHES . CIRCULATING AND
RADIATING POT TYPE OIL HEATERS

Factory and General Offices

Wisconsin Rapids, Wis.

THINGS YOU MUST DO

1. Set up stove on legs for draft.
2. Raise cover and grate and lift tank out of case and hook in place on front of stove.
3. Be sure that all valves are closed before pumping up the tank.
4. Have sufficient air pressure in tank when lighting stove.
5. Keep the packing nuts tight to prevent leaks.
6. Always let air out of tank before the stove is being transported in automobile.
7. Drain tank when stove is not to be used for a length of time.
8. Do not close cover until flame is extinguished on burners.

1. TO SET UP STOVE—

Set stove down flat, and swing the legs under the case until they lock. Open cover, raise the grate and remove the tank from case. Now lower the grate and hook the tank in place on front of the case (see illustration) for burning position. Raise wire hooks found at each end inside the case and fasten windshields to hooks.

2. TO FILL TANK—

Use only clean gasoline. Do not use gasoline containing Ethyl, Lead or Anti-Knock Compound. It clogs the generator rapidly.

Remove tank from case.

Hold tank with the pump side up. Unscrew the wing nut, which fastens the pump into the tank, and remove the pump. If there is air pressure in the tank, remove wing nut slowly. This opening will allow you to fill the tank, which should be kept about three-fourths full of pure, white gasoline. Replace the pump and tighten wingnut firmly to eliminate leaks. While filling tank, keep it away from any open flame.

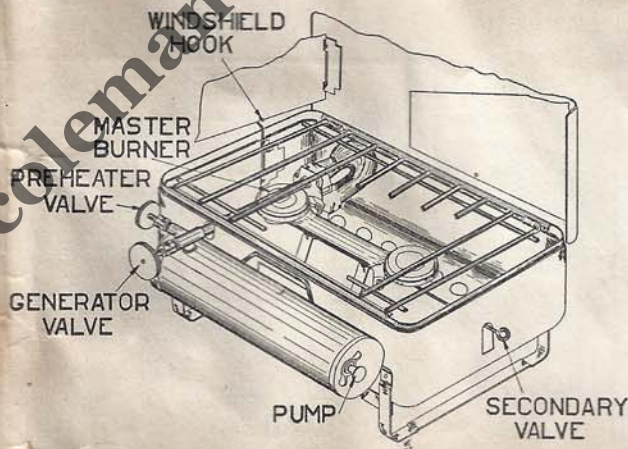
3. TO SUPPLY AIR PRESSURE—

Be sure all valves are closed. Place the thumb and forefinger on the pump and pump in, at least, forty-five strokes of air. Good pressure is necessary to start properly and can be added at any time when stove is in operation.

4. TO LIGHT—

Open **PREHEATER VALVE** (see illustration) about one turn.

Hold a lighted match near the **MASTER BURNER** and open **GENERATOR VALVE** several turns until it lights. After burning about one minute **CLOSE PREHEATER VALVE**. This valve supplies air for starting and if left open pressure in the tank will reduce rapidly, causing the flame to go out. In lighting, if the flame goes down or dies out, pump in more air.



5. TO LIGHT OTHER BURNERS—

Pass the sliding handle connected to the second burner out through the hole in the end of the case, having the handle **DOWN** for closed position. Push handle **UP** and apply lighted match to burner. Burner will light at once.

When more than one burner is used, it is necessary to supply more gas. To do this, open **GENERATOR VALVE** wider. If more heat is required, pump more air into the tank. Air can be added while stove is burning.

6. TO EXTINGUISH—

Close **GENERATOR VALVE** firmly but not too tight. The burner will continue to burn for a minute or two after valve is closed until gas which is in the generator tube is consumed.

7. TO CLEAN GENERATOR—

Unscrew the generator from the tank.

Remove the fuel feed tube from the generator casting and blow it out with compressed air, being careful not to enlarge the openings.

Place the generator tube in a vise, but do not turn the vise too tight or it will damage the tube. With a small wrench, unscrew the packing nut from the casting and remove valve stem and cleaning needle by turning the generator valve stem several turns to the left.

Attach the wrench to the valve casting and unscrew it from the generator tube. Unscrew the gas tip at end of generator tube and with a piece of hooked wire, remove the generator coil from the inside of the tube. This will probably damage the coil so that it will have to be replaced with a new one. (See parts list).

With a piece of stiff wire sharpened to a chisel point, scrape the inside of the tube free of all carbon and wash it out with clear, white gasoline. With a piece of cloth dipped in gasoline and on the end of a wire, clean tube carefully to remove all carbon particles.

Screw the gas tip into end of the tube and the generator casting on the other end. Insert the valve stem and cleaning needle into the tube, being careful that the needle point is not bent or damaged. If it is, replace cleaning needle. (See parts list.) When the generator is closed, the tip of the needle point should extend through the tip about one-sixteenth of an inch ($1/16''$).

Screw the packing nut on to the casting firmly to prevent leaks at that connection. Screw the fuel feed tube into the generator casting and after applying thread paint or common laundry soap to the threads of the generator casting to prevent leaks, screw assembly into the tank.

GENERAL INFORMATION

IF Stove Does Not Burn At All —

1. CAUSE—No fuel or lack of air pressure.

REMEDY— See that tank contains clean fuel and then pump in about 45 strokes of air.

2. CAUSE — Generator tube or fuel feed tube and vapor tip may be stopped up with dirt or carbon.

REMEDY — Clean generator tube — Disassemble generator. Scrape all parts clean and reassemble, being careful not to injure needle point or to enlarge the small hole in gas tip. Place a little laundry soap on threads when reassembling will help to make a tight joint.

If generator is damaged or worn beyond repair, it should be replaced.

IF Stove Burns Yellow or Smokes—

1. CAUSE—Incorrect lighting. The manifold is flooded with raw or liquid gasoline.
REMEDY—Close generator valve, remove tank from case and turn stove upside down, to drain out the gasoline. Then re-light according to the directions.
2. CAUSE—Enlarged opening in gas tip.
REMEDY—Put in a new tip.
3. CAUSE—Bent or warped or carbonized generator.
REMEDY—Replace generator tube.
4. CAUSE—Bent or damaged needle point.
REMEDY—Replace cleaning needle.

IF Leaks Develop In Generator—

1. CAUSE—Generator valve does not close. It was damaged by closing too tight.
REMEDY — Replace with new valve stem and cleaning needle.
2. CAUSE—Worn out packing, loose packing nuts.
REMEDY— Insert new packing. Tighten packing nuts with wrench just enough to stop leak when stove is not burning.

IF Air Pressure Goes Down Rapidly—

1. CAUSE — Preheater valve not closed when stove is operating.
REMEDY — Close valve, or if worn, replace stem.
2. CAUSE — Worn or damaged filler cap cork gasket or pump check cork retainer.
REMEDY — Replace parts.

IF Pump Does Not Work—

1. CAUSE—Plunger leather may be dry.
REMEDY — Remove plunger and soften leather with a few drops of oil.
2. CAUSE—Plunger leather worn out.
REMEDY— Put in a new leather, being careful to keep outer edges of leather smooth so it will fit snugly against wall of barrel.
3. CAUSE—Pump check leaks.
REMEDY—Replace pump check cork retainer, in tip end of pump.

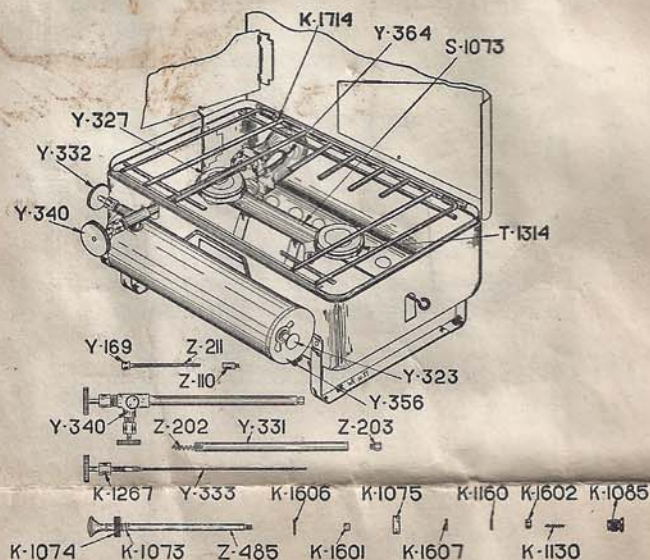
IF Stove Does Not Shut Off —

1. CAUSE — Worn or damaged generator valve stem.
REMEDY — Replace valve stem.
2. CAUSE — Bent needle point or enlarged orifice in gas tip.
REMEDY — Replace parts.

IF Stove Pops and Blows Out—

1. CAUSE — Leaky burner rings with holes burned out, or first burner plate screen burned out.
REMEDY — Replace with new parts.

PRICE LIST OF REPAIR PARTS



Parts No.	Name of Part	Selling Price (each)
S-1073	Manifold casting for No. 508A	1.40
Y-364	Air mixing casting for all models	.60
S-1074	Manifold casting for No. 509A (Not Illustrated)	1.50
S-1075	Manifold casting for No. 512A (Not Illustrated)	2.00
K-1714	Grate for No. 508A	.35
S-1071	Cast grate for No. 509A (Not Illus.)	1.00
S-1072R	Cast grate, right, for No. 512A (Not Illustrated)	.95
S-1072L	Cast grate, left, for No. 512A (Not Illustrated)	.95
Y-340	Generator and preheater complete No. 508A	1.75
Y-341	Generator and preheater comp. No. 509A-512A (Not Illustrated)	1.75
S-1066	Generator and preheater valve casting (Not Illustrated)	.50
Z-110	Vapor tip	.20
Z-111	Air tip (Not Illustrated)	.20
Y-169	Filter tip	.10
Z-211	Fuel feed tube for No. 508A	.20
Z-212	Fuel feed tube for No. 509A-512A (Not Illustrated)	.20
Y-332	Preheater valve stem	.35
Y-333	Generator valve stem, needle and packing nut	.65
Z-208	Generator valve stem (Not Illustrated)	.40
Z-209	Generator cleaning needle steel (Not Illustrated)	.25
Z-203	Generator gas tip	.18
Z-202	Generator coil	.15
Y-331	Generator tube and coil (steel)	.35
K-1267	Packing nut	.20
K-1269	Asbestos packing ring (Not Illus.)	.10
T-1314	Burner ring	.18
Y-327	Burner plate for first burner	.35
T-1315	Burner plate for all other burners (Not Illustrated)	.20

K-1263	Burner plate bolts (Not Illus.)	.05
Y-328	Secondary valve tappit for all models (Not Illustrated)	.20
Y-365	Secondary valve control for No. 508A (Not Illustrated)	.25
K-1274	Secondary valve control bolt (Not Illustrated)	.05
K-1115	Secondary valve control spring (Not Illustrated)	.05
Y-366	Secondary valve control for No. 509A and third burner on No. 512A (Not Illustrated)	.25
Y-367	Secondary valve control for No. 512A second burner (Not Illus.)	.25
Y-356	Tank for No. 508A less fittings	1.60
Y-357	Tank for No. 509A less fittings (Not Illustrated)	1.75
Y-358	Tank for No. 512A less fittings (Not Illustrated)	1.90
Y-323	Pump complete	1.30
Y-325	Pump barrel (Not Illustrated)	.75
K-1255	Wing nut filler cap (Not Illus.)	.30
K-1107	Cork gasket (Not Illustrated)	.05
Y-335	Check assembly (Not Illustrated)	.25
K-1129	Pump check valve cork retainer	.15
K-1130	Pump check valve spring	.05
K-1085	Pump check stem guide	.15
Y-324	Pump plunger assembly (Not Illus.)	.45
Z-303	Pump plunger rod with cap	.25
K-1073	Pump plunger rod spring	.05
K-1075	Pump leather	.05
K-1602	Pump plunger nut	.05
K-1601	Pump leather spacer	.05
K-1606	Pump plunger washer - outer	.05
K-1607	Pump plunger washer - inner	.05
K-1160	Pump leather lock washer	.05
K-1074	Pump barrel cap	.10
Y-885	Case for No. 508A (Not Illus.)	2.75
Y-889	Case for No. 509A (Not Illus.)	3.50
Y-892	Case for No. 512A (Not Illus.)	3.75



When ordering parts, give Part Number, Name
of Part, Model Number of Stove on the nameplate,
and enclose remittance.

Prices subject to change without notice.