

## How to Service Stove

### If Stove Burns With Yellow Flame:

*Cause:* Soot or carbon in Mixing Chamber.

*Remedy:* Scrape inside of Mixing Chamber and use pump to force dirt out.

*Cause:* Enlarged opening in Gas Tip.

*Remedy:* Put in new Gas Tip.

*Cause:* Gas Tip Cleaning Needle on end of Valve Stem bent.

*Remedy:* Remove Valve Stem and straighten Gas Tip Cleaning Needle.

*Cause:* Gasoline in Burner Manifold.

*Remedy:* Drain gasoline from Burner Manifold (see section No. 3 of paragraph No. 3, and section No. 3, paragraph No. 5 inside).

### If Stove Does Not Light at All, or Flame Is Weak:

*Cause:* No fuel or lack of air pressure.

*Remedy:* See that Tank contains clean gasoline, then pump to 20 pounds pressure.

*Cause:* Dirty Burner Caps.

*Remedy:* Draw a piece of tin or thin knife blade through slots in Burner Caps.

*Cause:* Gas Tip stopped up.

*Remedy:* Close Instant-Gas Valve, then open and close Generator valve several times, thus working Gas Tip Cleaning Needle through Gas Tip orifice to remove obstruction.

*Cause:* Generator Tube may be stopped up with dirt or carbon.

*Remedy:* Disassemble Generator and clean as per service chart on care of Generator.

### If Gasoline Leaks:

At Generator or Instant-Gas Valve—tighten Pack Nut just enough to stop leak.  
At Gas Tip—tighten Gas Tip Bushing.

### If Pump Does Not Work:

*Cause:* Air cannot be forced into Tank.

*Remedy:* Be sure to push Pump Plunger into pump barrel as far as possible, then turn pump handle two full turns to left to open air Check Valve. Pump pressure into Tank, turn pump handle back to right and close Check Valve snugly.

*Cause:* Pump Leather may be dry.

*Remedy:* Remove Pump Plunger and soften Pump Leather with a few drops of oil.

*Cause:* Pump Leather worn out.

*Remedy:* Put on new Pump Leather.

If water or dirt gets mixed with gasoline remove Filler Plug releasing air pressure. Use the Coleman Siphon, Suction Pump or Tank Cleaning Tube to remove dirty gasoline. After all the gasoline containing water or dirt has been removed from Tank, fill Tank with clean fuel, replace Filler Plug, pump up to required amount of air pressure for operation and proceed with lighting of stove as per directions.

## The New Instant Gas Stove

The New Coleman Instant-Gas Stove, brings into your home just what its name implies—Instant Gas for Cooking! It operates exactly like a regular city gas stove—open the Instant-Gas Valve and Generator Valve, light the Burner, and instantly you have gas heat for any kind of cooking you want to do. There is no priming, no generating, no "starters." It is so amazingly simple that a child can operate it.

A few years ago The Coleman Lamp and Stove Company first introduced the instant lighting principle for starters and preheaters with which Coleman gas pressure stoves are equipped and which quickly generated the stoves to full cooking heat. This original invention was a wonderful step forward in convenience over the old type, using torches, etc.

In the New Coleman Instant-Gas Stoves, this same principle has been improved to such an extent that all starters and preheaters are eliminated. There are fewer operating parts which means simpler and easier operating—quicker heat—more satisfactory service.

Due to the Stove having only two operating parts, namely the Instant-Gas Valve and the Generator, it becomes very much safer than the old type of gas pressure stove. In the design of the Instant-Gas Valve the last addition for safety needed to give complete safety was added. The Instant-Gas Valve is so equipped that it can only be turned one-fourth the way on and in this position it would lose its air pressure without the loss of very much fuel.

Consider this astounding fact that with the New Instant-Gas Stove using regular motor gasoline as fuel you obtain the same lighting ability as with natural gas. Also that the cost of operating is very much below that of natural gas. Gasoline at the present time is at the lowest price in history, therefore, gives you the lowest priced fuel on the market. Gasoline under pressure gives a very much hotter fire than natural gas and due to this New Instant-Gas Stove being operated on low pressure, it does not require much pumping and burns without objectional noise.

Other new and outstanding features that you will find on this Stove are as follows: The Life-Time Guaranteed Everdur Tank which won't rust out and is not affected by chemicals contained in fuel; the new simplified and improved Generator that is easy to remove and easy to clean—you can do it yourself—no need to send to your dealer or to factory for cleaning and repair. Clean heat without soot or smoke—a clear blue flame; speedy heat which can be instantly regulated for slow or fast cooking as you desire.

This New Coleman Instant-Gas Stove represents the greatest achievement in the gasoline appliance industry—is the result of more than 30 years' experimenting, developing and making gasoline lamps, lanterns, heaters and stoves by The Coleman Lamp and Stove Company. Like all Coleman appliances, it makes and burns its own gas from any good grade of clean, fresh, untreated gasoline. In its operation there is used a new principle of forming instant gas which makes it easier to use, safer to use, and more convenient. In its manufacture you will find the same high standard of Coleman quality which insures your getting the best there is on the market at a price within the reach of all.

## DIRECTIONS

for Care and Operation of

## Coleman INSTANT-GAS RANGE

Model No. 901.

Save these directions and study them carefully. Become thoroughly familiar with the operation and mechanics of your new range. The principal of operation is new and modern. Listed below are some of the things to watch which will help in the operation of the stove, resulting in satisfactory service.

- 1st** Before filling stove see that Instant-Gas Valve, Main Generator and Oven Generator valves are closed.
- 2nd** When turning out stove follow instructions carefully (see Section No. 7 Paragraph Nos. 1 and 2 inside).
- 3rd** Use a good grade of fresh, clean gasoline. Be sure fuel can and funnel are kept clean. Clean out the Tank occasionally.

Made in U. S. A. By

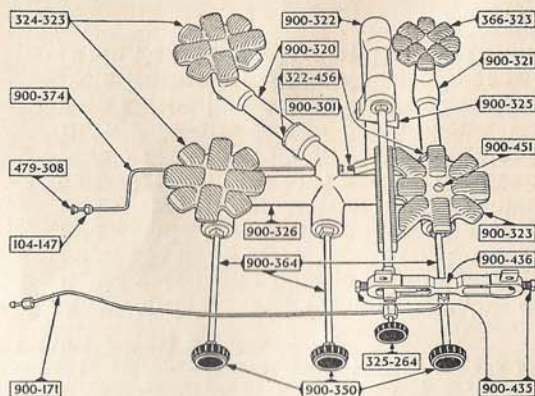
**The Coleman Lamp and Stove Company**

General Offices: WICHITA, KANSAS

Branches: CHICAGO, PHILADELPHIA, LOS ANGELES  
Factories: WICHITA, CHICAGO, and TORONTO, CANADA

**IMPORTANT**—Use a good grade of fresh, clean, untreated gasoline. Use only fresh gasoline and strain it into tank.

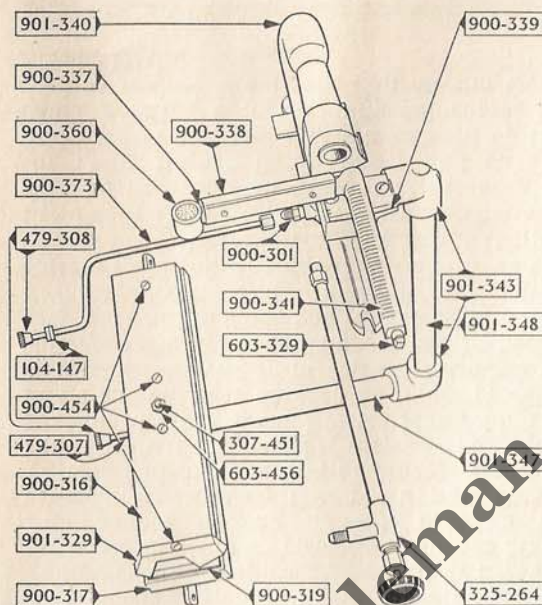




Repair Parts in Canada Slightly Higher in Price on Account of Customs Duty

## MASTER BURNER Model 901

Parts No.	Name of Part	Net Retail Price
104-147	Lock Nut	\$.06
118B620	Valve Stem Packing	.03
216-538	Check Valve	.15
307-451	R. H. Stove Bolt (1/4"x3")	2 for .06
312-332	Manifold Gasket	.06
322-456	Lock Nut	.06
324-323	Burner (Auxiliary)	1.20
325-264	Generator (Gas Tip Marked "4")	1.80
366-323	Simmering Burner	.60
407-644	Tip Protector and Screen	.15
474-509	Pump Leather	2 for .09
474-515	Air Stem	.30
474-555	Pump Plunger (Less Air Stem)	1.20
479-307	Drain Outlet	.15
479-308	Drain Cap	.06
603-329	Burner Plug	.06
603-456	Hexagon Brass Nut (1/4"x18) 2 for	.06
605-950	Wrench	.15
650-136	Filler Plug Gasket	2 for .09
650-140	Filler Plug Complete	.75
900-115	Combination Fuel & Air Gauge	1.80
900-118	Fuel Tip (Marked "AX")	.12
900-171	Fuel Tube (21 1/2")	.36
900-301	Drain Nipple	.30
900-316	Oven Burner Cap	2.40
900-317	Oven Burner Base	1.50
900-319	Oven Burner Gasket	.75
900-320	Auxiliary Burner Extension	.45
900-321	Auxiliary Burner Extension	.45
900-322	Master Burner Mixing Chamber	1.20
900-323	Master Burner	1.50
900-325	Air Intake Adjuster	.30
900-326	Burner Manifold (Casting Only)	2.25
900-327	Master Burner Bracket	.45
900-328	Supply Pipe (1"x18 7/8")	.60

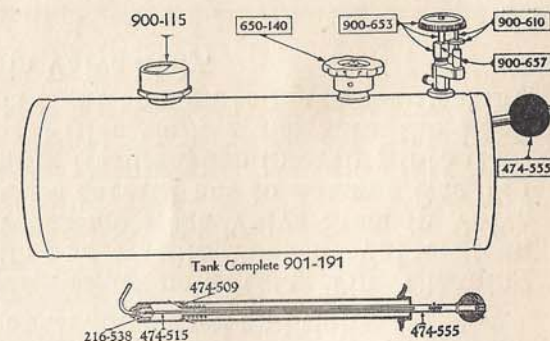


## OVEN BURNER Model 901

Parts No.	Name of Part	Net Retail Price
900-339	Sub-Flame Burner Gasket	2 for .06
900-341	Sub-Flame Burner	.75
900-345	Oven Burner Ell Gasket	2 for .06
900-350	Auxiliary Valve Wheel & Nut	.30
900-360	Auxiliary Sub-Flame Burner	.30
900-364	Auxiliary Burner Valve Stem Complete	.75
900-373	Oven Burner Drain	.45
900-435	Set Screw	.15

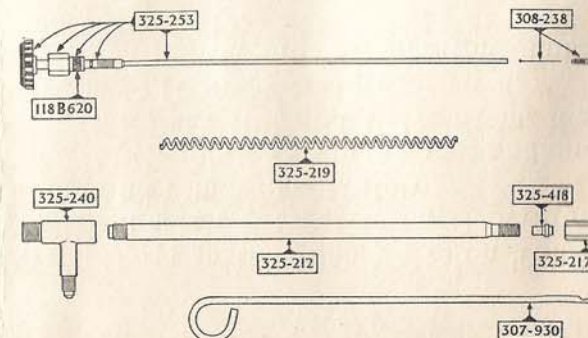
## 325-264 GENERATOR

Parts No.	Name of Part	Net Retail Price
118B620	Valve Stem Packing	.03
307-930	Carbon Scraper	.15
308-238	Cleaning Needle & Holder	2 for .09
325-212	Generator Tube	.48
325-217	Gas Tip Bushing	.12
325-219	Generator Filler Coil	.12
325-240	Generator Valve Body & Fuel Nipple	.48
325-253	Generator Valve Stem (Less Cleaning Needle & Holder)	.48
325-264	Generator (Gas Tip Marked "4")	1.80
325-418	Gas Tip (Marked "4")	.12



## TANK AND PUMP Model 901

Parts No.	Name of Part	Net Retail Price
900-346	Generator Clamp	1.50
900-451	R. H. Brass Mach. Screw (1/4"x3/4"-20) 2 for	.06
900-454	R. H. Brass Machine Screw (1/4"x1 1/4"-20) 2 for	.06
900-460	Oven Thermometer	2.40
900-467	Tank Bracket (2 Piece) (Black)	.30
900-610	Instant-Gas Valve Safety Lock	.09
900-653	Instant-Gas Valve Stem Complete	.60
900-657	Instant-Gas Valve Complete	1.80
901-191	Tank Complete (With Fittings)	9.90
901-329	Oven Burner Lighter Baffle	.30
901-340	Oven Burner Mixing Chamber	1.20
901-343	Ell (1"x1"-27)	.45
901-344	Oven Burner Ell	.45
901-347	Supply Pipe (1"x8 7/8")	.45
901-348	Supply Pipe (1"x18 7/8")	.60





# Carefully Follow These Directions

*If you will do this, you will avoid difficulties that result from incorrect operation and which are due to no fault of the stove*

## 1. To Fill

**Caution:** Do not fill stove near a lighted lamp or open flame. Be careful not to spill fuel.

1. See that Instant-Gas Valve, Main Generator and Oven Generator valves are closed.
2. Remove Filler Plug and fill Tank. Use fresh, clean, untreated gasoline.
3. Replace and tighten Filler Plug.  
Do not use wrench.

## 2. To Pump

1. **Caution:** Before starting to pump, be sure Instant-Gas Valve, Main Generator and Oven Generator valves are closed.
2. Now open air check valve (located inside pump barrel) by turning pump handle two full turns to left.
3. Hold palm of hand over hole in pump handle on end of Pump Plunger. Pump until hand on Combination Fuel and Air Gauge points to 20 pounds pressure.
4. Turn pump handle to right until air check valve is closed. Remove hand from over hole in end of pump handle so as to permit the escape of air remaining in pump barrel. Then push Pump Plunger into barrel as far as possible.

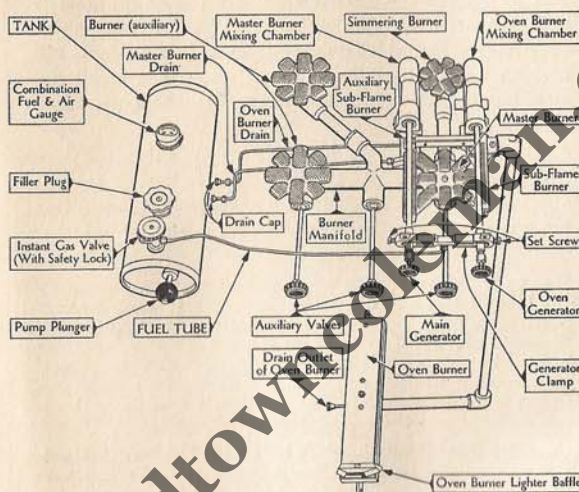
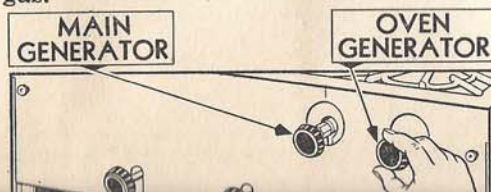


Fig. 3

## 4. To Light Auxiliary Burners or Simmering Burner See Figure 3

1. Open Main Generator valve wide enough so that there is an extra supply of gas to produce a strong flame on Master Burner.
2. To light one or both of the Auxiliary Burners, or Simmering Burner or all, turn Auxiliary Valve to left and light burner just like city gas.



## 6. To Light Oven Burner When the Master, Simmering and Auxiliary Burners are Being Used or to Light Master Burner When Oven Burner is Being Used

Simply open the Main or Oven Generator valve and light the burner wanted as the case happens to be. Under such conditions it is not necessary to operate the Instant-Gas Valve.

## 7. To Turn Stove Out

1. Close all Auxiliary Valves to right.
2. Close the Instant-Gas Valve, turn wheel to right until closed, then immediately open it  $\frac{1}{4}$  turn to left to the Safety Lock or Catch. Allow the stove to burn on the instant-gas mixture for about one minute, thus clearing the Fuel Tube, Generator and Burner of the heavier parts of the gasoline. Now close the Instant-Gas Valve, turn wheel to right and when flame on Burner is nearly out, close the Generator valves firmly to right.

## Service Chart for Stove Generator

This generator is so constructed that it can be easily be taken apart (See cut) and overhauled and cleaned. Follow the instructions listed below and no trouble will be encountered.

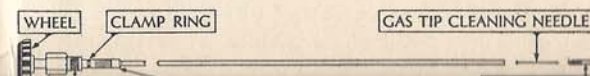




Fig 1

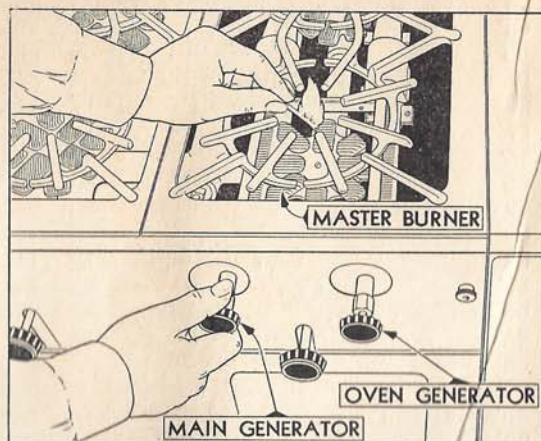


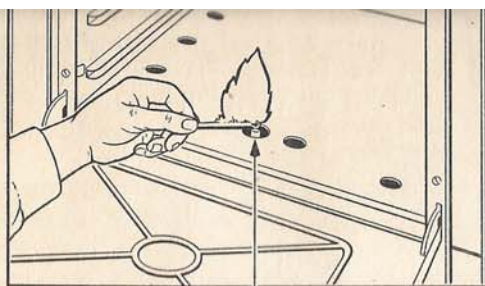
Fig. 2

### 3. To Light Master Burner Only See Figs. 1 and 2

1. Check to see that Tank contains sufficient fuel and air. Also that Instant-Gas Valve, Main Generator and Oven Generator valves are closed.
2. Open Instant Gas Valve  $\frac{1}{4}$  Turn to Left. (Until Safety Lock or Catch, catches and locks in valve wheel.) Next open Main Generator valve and Light Master Burner. After burning one minute hold down Safety Lock or Catch and open Instant-Gas Valve as FAR AS POSSIBLE.

NOTE: If flame is weak, pump additional pressure into Tank. Best results will be obtained if Main Generator valve is not opened wide until Master Burner has been burning several minutes.

3. A yellowish, smoky flame usually denotes liquid gasoline in Burner Manifold. If through improper lighting or operation, Burner Manifold should become flooded place a receptacle under the Master Burner Drain (Under and on tank end of stove). Unscrew the Drain Cap. Safely dispose of liquid gasoline drained from Burner Manifold. The flame should clear as soon as the liquid gasoline has been removed from Burner Manifold. Be sure to replace the Drain Cap on the Master Burner Drain.



OVEN BURNER LIGHTER

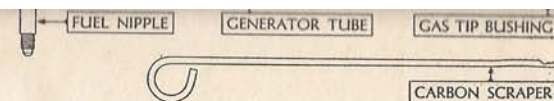
Fig. 4

### 5. To Light Oven Burner, When Master Burner is Not in Use

1. Open Instant-Gas Valve  $\frac{1}{4}$  Turn to Left. (Until Safety Lock or Catch, catches and locks in valve wheel.) Next open the Oven Generator valve and light Sub-Flame Burner and Oven Burner. After burning about one minute hold down Safety Lock or Catch and open Instant-Gas Valve as FAR AS POSSIBLE.

NOTE: If flame is weak, pump additional pressure into tank. Best results will be obtained if Oven Generator valve is not opened wide until Sub-Flame Burner and Oven Burner have been burning several minutes.

2. A yellowish, smoky flame usually denotes liquid gasoline in Burner Manifold. If through improper lighting or operation, Burner Manifold should become flooded, place a receptacle under the Oven Burner Drain (Under and on tank end of stove). Unscrew the Drain Cap. Safely dispose of liquid gasoline drained from Burner Manifold. The flame should clear as soon as liquid gasoline has been removed from Burner Manifold. If this does not clear the flame, it will be necessary to turn the stove out (See Section No. 7, Paragraph Nos. 1 and 2) and remove the oven bottom and drain the liquid gasoline from the Oven Burner by removing the Drain Cap on the Drain Outlet of Oven Burner. This will only be necessary in very few instances as the Oven Burner Drain under and on the tank end of the stove will take care of the liquid gasoline except in unusual cases. Be sure to replace the Drain Cap on the Oven Burner Drain.



**First**—Close Instant-Gas Valve on Tank.  
**Second**—Loosen Set Screw on Generator Clamp and remove generator.

**Third**—Place Valve Body in a vise and unscrew the Pack Nut and Valve Stem. Remove these from generator.

**Fourth**—Unscrew the Generator Tube from Valve Body.

**Fifth**—Unscrew Gas Tip Bushing and remove Gas Tip from Generator Tube.

**Sixth**—Remove Generator Filler Coil from inside of Generator Tube.

**Seventh**—Use the Carbon Scraper, furnished with stove, to clean the carbon from inside of Generator Tube. Rinse the Generator Tub in clean gasoline.

**Eighth**—Scrape the carbon from Valve Stem and Generator Filler Coil. If the Generator Filler Coil is too badly carbonized it will be best to destroy and use a new one.

**Ninth**—Replace Generator Filler Coil in Generator Tube.

**Tenth**—Put soap on the threads of the Generator Tube and replace in Valve Body. Be sure to get this joint good and tight.

**Eleventh**—Use a new Gas Tip, screw Gas Tip Bushing on Generator Tube. Be sure to get this joint good and tight.

**Twelfth**—Put new Gas Tip Cleaning Needle and Needle Tube in Valve Stem, and reassemble the Valve Stem in Valve Body. Be careful not to damage Gas Tip Cleaning Needle when inserting into Generator Filler Coil. Make sure the Pack Nut is tight enough to make the Packing snug in Valve Body.