

# DIRECTIONS

For Operating



## GASOLINE STOVE No. 500A

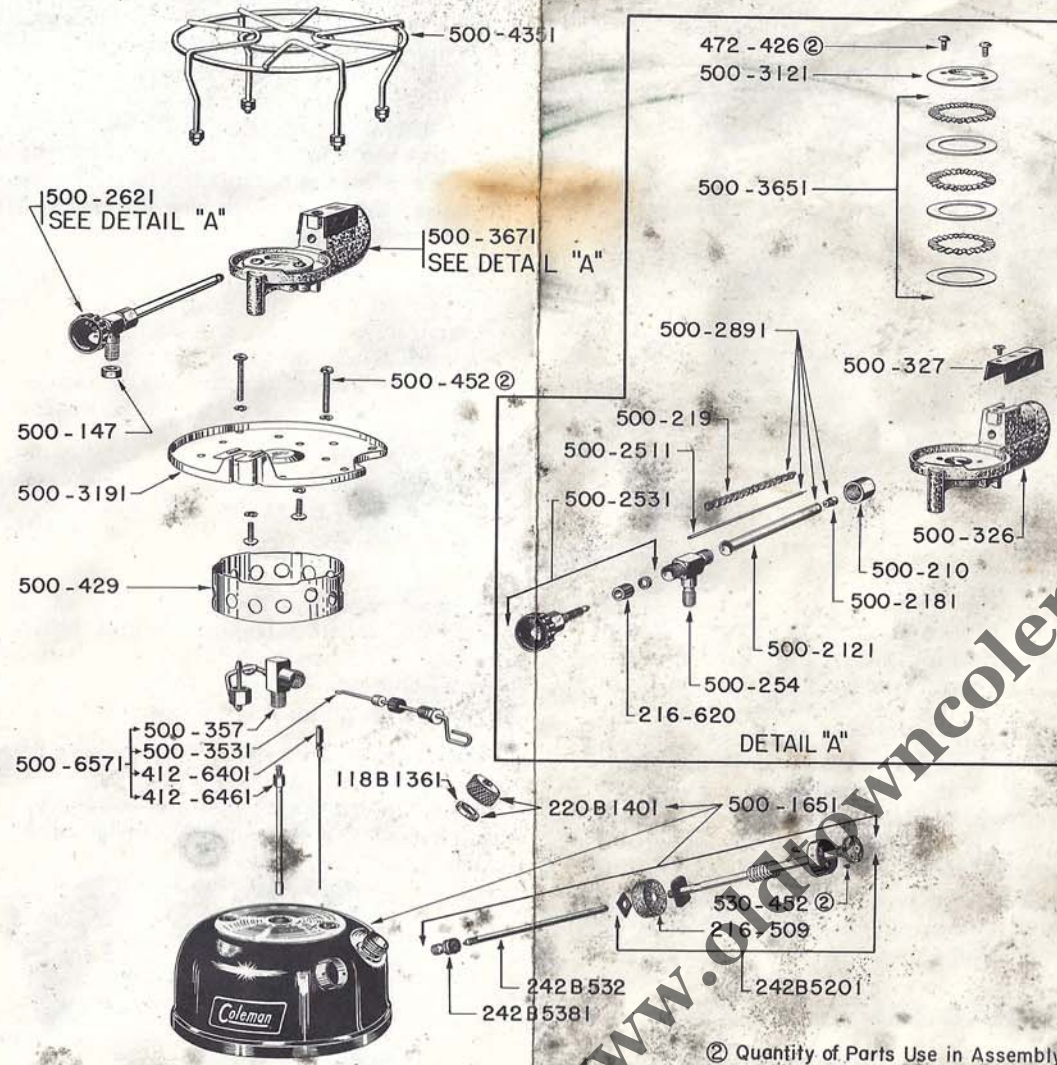
★  
"SPORTSMASTER"  
Instant Lighting  
★

The Coleman Company, Inc.

General Offices and Factory: Wichita 1, Kansas, U. S. A.  
Canadian Offices and Factory: Toronto, Canada  
Sales Offices: Philadelphia 40, San Francisco 3,  
Los Angeles 1

F1048D

Litho in U. S. A.



② Quantity of Parts Use in Assembly

### Parts List - No. 500A

Part No. Name and Description of Part

118B1361	Gasket (Filler Plug)
216-509	Leather (Pump)
216-620	Packing (Valve Stem)
220B1401	Filler Plug
242B5201	Plunger Assembly (Pump)
242B532	Stem (Air)
242B5381	Check Valve
412-6401	Block & Needle Assembly
412-6461	Tube Assembly (Fuel & Air)
472-426	Machine Screw (#10-24x1/2 Oven Hd. Steel)
500-147	Nut (5/16-27 Hex Brass)
500-1651	Fount (Complete)
500-210	Jamb Nut
500-2121	Tube (Generator)
500-2181	Gas Tip (Marked "BX")
500-219	Coil (Generator)
500-2511	Needle Assembly

Part No. Name and Description of Part

500-2531	Stem Assembly
500-254	Valve Body
500-2621	Valve & Generator (complete)
500-2891	Generator
500-3121	Cap (Burner)
500-3191	Plate (Base)
500-326	Burner Casting
500-327	Air Baffle
500-3531	Stem (Lighter)
500-357	Valve Body & Fuel Tube
500-3651	Filler Assembly
500-3671	Burner Assembly
500-429	Base Rest
500-4351	Grate (With Nuts)
500-452	Machine Screw (#10-24x1 1/8 Rd. Hd. Steel)
500-6571	Valve (Lighter)
530-452	Screw (Sheet Metal - #2x3/16 Type Z Bd. Hd.)

## Always Use the Right Kind of Fuel

Those substances in gasoline which do not vaporize, will collect in the generator in the form of carbon. The amount of service obtained from a generator depends therefore, to a great extent upon the kind of fuel used.

If available, use a clean, fresh, unleaded gasoline. Never use a gasoline containing lead compounds or lubricating oils. Keep gasoline supply in a small, clean, closed, metal can. Do not use a glass container because of hazard in case of breakage.

If a suitable unleaded fuel is not available, then ask your service station operator to inquire of, or write to his company. Most companies make available a special stove and lighting fuel or naphtha for use in those localities where a suitable white gasoline is not available.

## To Fill Fount

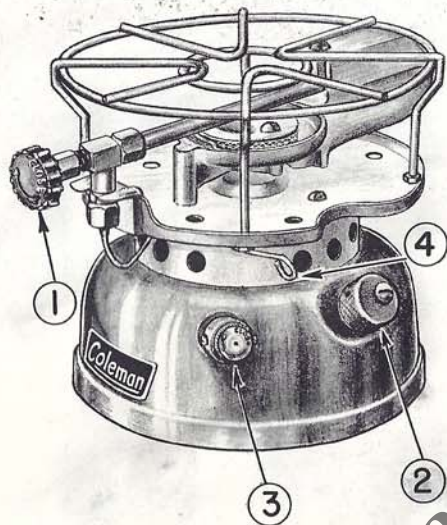
Be sure generator valve (1) is closed tight by turning valve wheel to the right. Unscrew filler plug (2). Have fount in level position while filling it with clean, fresh fuel. The fount will hold approximately two pints. Replace filler plug and tighten firmly with fingers.

## To Pump Air Pressure Into Fount

Be sure that the generator valve (1) and the filler plug (2) are closed firmly. Turn pump plunger handle (3) approximately two complete turns to the left. Place thumb over small hole in pump plunger handle and pump 35 to 50 full strokes of air into fount. Now turn the pump plunger handle to right and tighten firmly.

## To Instant Light Burner

Turn the instant-lighting lever (4) to "LIGHT" position. While holding a lighted match above the burner, open the generator valve by turning valve wheel (1) as far as it will go. When burner lights, close generator valve stem until you have the flame under control. Maintain a strong active flame on the burner for approximately one minute. At that time, the flame on the burner should be quite blue so turn the instant-lighting lever (4) to "BURN" position. Flame regulation is obtained by turning valve wheel (1) to the right or left. Increasing the air pressure in the fount will increase the force or efficiency of the flame.



## To Turn Flame Off

Turn the instant-lighting lever (4) to "LIGHT" position and allow the stove to burn for about one minute on the instant-gas mixture. This clears the heavier parts of the fuel from the generator and makes possible better instant lighting results the next time the stove is used. Now turn the generator valve wheel (1) to the right and tighten firmly. The valve stem seats in the valve body to provide a positive shut-off at that point. A few drops of gasoline trapped in the generator tube will continue to vaporize and may produce enough gas to carry on the flame for a minute or so.

## GENERAL SUGGESTIONS

**Keep Burner Parts Clean.** An obstruction such as a burned match head, near fillers in cap, will produce a yellow flame at that point.

**The Pump Plunger** is not only used for pumping air pressure into the fount but it acts as a wrench to turn the air stem. Turning the plunger to the left unscrews the air stem so air may be forced through the check valve at the bottom of the pump barrel. Turning the pump plunger to the right, screws the air stem into the check valve to provide a positive shut-off at that point. Air pressure may be added while stove is burning. Oil the leather occasionally for greater efficiency.

**Keep Fount Clean** by rinsing it occasionally with clean fuel.

**If Stove Is** to be stored for any length of time, be sure to empty the fount, to prevent any acid in the gasoline from damaging the fount. Remove filler cap and you can pour the gasoline out through the filler cap bushing. Gasoline, if left in the fount for a long time, might sour and produce a gum or varnish-like substance which would interfere with the correct operation of the instant-lighting mechanism.

**The Stove Generator** is merely a device for vaporizing or changing the liquid fuel to a vapor. Eventually, the generator may fill up with carbon to the extent that no more fuel may be forced through it. It would be well, therefore, to keep an extra generator, No. 500-2891, on hand for a spare.

**The Gasket** in the filler cap may deteriorate with age. It might be well to install a new, No. 118B1361 gasket every year or so if the old one is hard and brittle.

**After Each Camping** trip, be as careful about cleaning the fount and other parts of your Sportsmaster Stove as you are about cleaning your fishing tackle or gun and your Coleman Stove will render you faithful service.

**Contact Your Dealer** when you need service assistance or parts for your stove. If necessary to write The Coleman Company, Inc., mention that the stove is a No. 500A Sportsmaster.

The Coleman logo, featuring the word 'Coleman' in a stylized, white, serif font inside a dark, rounded rectangular border.

## Filtering Funnel

Much of the difficulty that users have with pressure gas lighting, heating, and cooking appliances is caused by dirty gasoline. Such gasoline quickly stops up the generators and gas tips with the result that the appliance does not operate properly. Gasoline accumulates dirt and impurities in handling; and also water which is condensed in the storage tanks. All this foreign substance can be removed when the gasoline is strained through the new Coleman Filtering Funnel.

