

Coleman Junior Mantles



1. They are made without side seams and are pleated or gathered across the bottom, thus reinforcing them at the point where they are subjected to the greatest gas pressure.

2. They are made especially for Coleman Lamps and Lanterns. They are just right in size, shape and texture. They are given just the right chemical treatment. They work perfectly with the gas tip and air intake in producing the splendid brilliance for which Coleman Lamps and Lanterns are famous.

This is why we can not guarantee either the quality or quantity of light produced by any Coleman Lamp or Lantern if an inferior low-grade mantle is used on it. So take no chances. Always insist on having Genuine Coleman Mantles.

Coleman Filtering Funnel

(Schuyler Patent)



Much of the difficulty that users have with pressure gas lighting, heating and cooking devices is caused by dirty gasoline. Such gasoline quickly stops up the generators and gas tips and the result is improper operation. Gasoline accumulates dirt and impurities in handling, and also water, which is condensed in storage tanks. All this foreign matter can be removed when the gasoline is strained through the new Coleman (Schuyler Patent) Filtering Funnel.

This funnel is strongly made, heavily copper plated and non-corrosive. In the bottom of the funnel is a fine-mesh brass wire strainer above which is a removable ring covered with a special filtering fabric. When this fabric is saturated with gasoline, water or dirt will not pass through. Furnished in two sizes:

No. 0—Filtering Funnel.....	\$.60
Pad For No. 0 Funnel.....	\$.30
No. 1—Filtering Funnel.....	\$1.20
Pad For No. 1 Funnel.....	\$.60

No.	Diameter	Height	Outlet	Capacity per Min.
0	2½ in.	3¼ in.	⅜ in.	½ Gal.
1	5 in.	6 in.	¾ in.	4 Gals.

DIRECTIONS

.. FOR ..

Operating

Coleman

INSTANT-LIGHTING LANTERNS

Model Nos. 220B and 228B



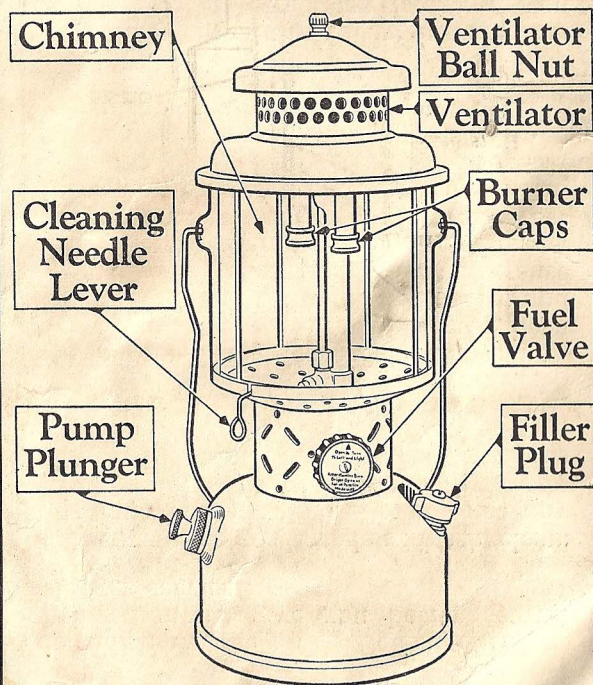
The Coleman Lamp and Stove Company

General Offices: WICHITA, KANSAS
Branches: Philadelphia, Chicago, Los Angeles
Factories: Wichita, Chicago, and Toronto, Can.

Directions for Assembling and Operating

COLEMAN Instant-Lighting LANTERNS

Model Nos. 220B and 228B



Carefully follow directions and you will experience no difficulty in operating your Coleman Instant Lighting Lantern and in getting the wonderful brilliance for which all Coleman Lanterns are famous.

1. TO FILL.

Do not use doped, anti-knock or colored gasolines.

Be sure *Fuel Valve* is tightly closed to right. Then remove *Filler Plug* and fill fount with two pints of fresh, clean, water-white, undoped gasoline (also known as "Petrol," "Motor Spirits," or "Essence"). Do not tip lantern while filling let it sit flat on its base. When filling the fount strain the gasoline through several thicknesses of finely woven cloth. Or, better still, use the new Coleman (*Schuyler Patent*) Filtering Funnel, No. 0, which removes water and dirt from the gasoline. Your dealer can supply you. As soon as fount is filled, replace *Filler Plug* and tighten firmly with fingers.

2. TO PUMP.

See that *Fuel Valve* is closed. Then open air check valve inside of pump barrel by turning *Pump Plunger* two full turns to left. Place ball of thumb over small hole in end of *Pump Plunger* and pump 35 to 40 full strokes of air into fount. Now, turn *Pump Plunger* to right, seating air stem in check valve, remove thumb and push *Pump Plunger* back into pump barrel.

Good pressure is important. Keep pump leather soft with few drops of oil.

3. TO PUT ON MANTLES.

Unscrew *Ventilator Ball Nut* on top of lantern, and remove *Ventilator* and *Chimney*.

Tie mantles to grooves in *Burner Caps* with flat side of mantles parallel to *Generator*.

Distribute folds of mantles evenly at top and cut off surplus string.

Then burn off mantles following directions on mantle envelope. Allow mantles to cool several minutes before lighting lantern.

4. TO LIGHT.

(a) At the base of the lantern frame you will note the *Cleaning Needle Lever*. When turned around this *Lever* causes the *Gas Tip Cleaning Needle* inside the *Generator* to work up and down. This keeps the gas tip clean and open. Turn the *Lever* several revolutions before lighting. Be sure that *Lever* is left pointing down.

(b) Have a match handy ready to light. Now open the *Fuel Valve* on the fount **one-fourth turn**. **This is important—open it one-fourth turn only.** Then light the match and hold it under the mantles. It may require a few seconds for the gas to reach the mantles but when it does mantles will light instantly. After mantles burn bright open *Fuel Valve* as far as possible, which is about three full turns. **This is important and must be done** in order to get good light. It is impossible to open the *Fuel Valve* too far.

The *Cleaning Needle Lever* may be operated while lantern is burning. Should lantern fail to burn bright after *Fuel Valve* is wide open, turn *Cleaning Needle Lever* rapidly two or three times.

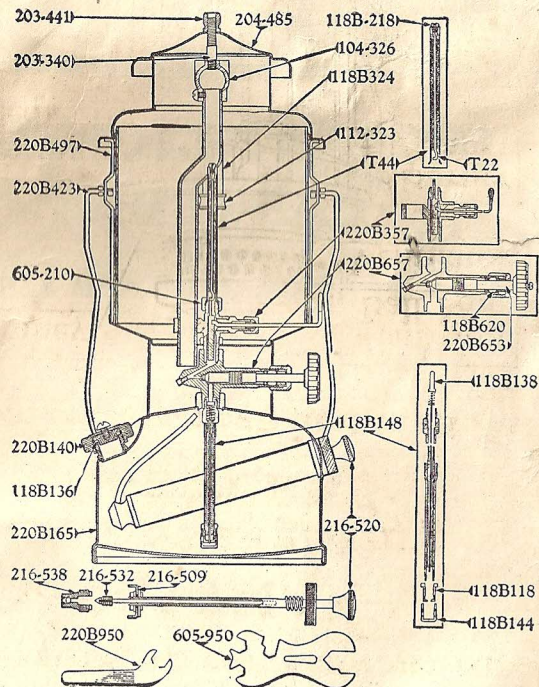
NOTE—The light may flicker for a few seconds after lighting but it will soon steady down.

5. TO TURN OUT LIGHT

Turn *Fuel Valve* to right until closed. The light dim and go out in a few seconds.

Parts List for Coleman Instant-Lighting LANTERNS

Model Nos. 220B and 228B



Parts List for Coleman Instant-Lighting Lanterns Model Nos. 220B & 228B

Repair Parts in Canada slightly higher in price on account of the Customs Duty.

Parts No.	Name of Part	Net Retail Price
T22	Generator Cleaning Needle (118B238)	.15
T44	Generator & Gas Tip Cleaning Needle (Less Jamb Nut) (Gas Tip Marked "V") (118B299)	.35
104-326	Mixing Chamber	.48
112-323	Burner Cap & Screens	.15
118B118	Fuel Tip (Marked "AB")	.06
118B136	Filler Plug Gasket	.06
118B138	Fuel Tip Cleaning Needle	.15
118B144	Fuel Tip Protector & Screen	.15
118B148	Fuel & Air Wire Complete (Fuel Tip Marked "AB")	.75
118B218	Gas Tip (Marked "V")	.06
118B324	Burner Tube	.15
118B620	Valve Stem Packing	.03
203-340	Ventilator Rod	.06
203-441	Ventilator Ball Nut	.06
*204-485	Ventilator (Porcelain 5 1/4" Base)	1.50
216-509	Pump Leather	.09
216-520	Pump Plunger Complete (Less Air Stem)	.60
216-532	Air Stem	.15
216-538	Check Valve	.15
220B140	Filler Plug Complete	.48
220B165	Fount Complete	5.70
220B357	Gas Tip Cleaner Complete Assembled	.75
*220B423	Bail	.15
220B497	Frame	.75
220B653	Valve Stem Complete	.60
220B657	Fuel Valve Complete	1.50
220B950	Wrench (Small)	.15
*227-480	Ventilator (Porcelain 8 3/4" Base)	1.95
*228B423	Bail	.15
605-210	Jamb Nut	.03
605-950	Wrench (Large)	.15

*For Lantern Model No. 220B.

*For Lantern Model No. 228B.

No. 216-538 Check Valve can be unscrewed with an ordinary screw driver.

Prices effective March 1, 1931, subject to change without notice.

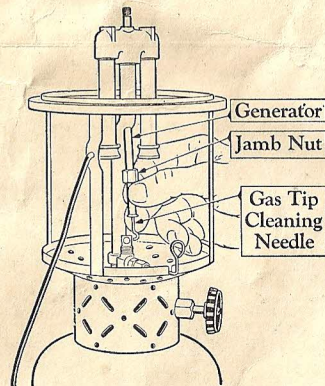
WARNING!

"For longest service—for best service, use only **Genuine Coleman Parts and Accessories** on this Coleman Appliance. Each individual part is designed to exact precision and to work perfectly with all other parts; therefore, only **Genuine Coleman Parts and Accessories** can be trusted to give satisfactory service. "The use of other than **Genuine Coleman Parts and Accessories** invalidates the Coleman Guarantee."

6. TO CHANGE GENERATORS.

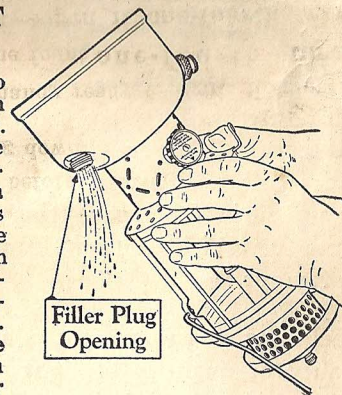
First be sure Fuel Valve is closed. Then turn Cleaning Needle Lever down. Unscrew Jamb Nut at lower end of Generator. Next, turn Cleaning Needle Lever up. Lift Generator up and unhook Gas Tip Cleaning Needle. Then pull Generator down and out.

To install new Generator with Cleaning Needle: First, pull Cleaning Needle from Generator about one inch. Place Cleaning Needle between fore finger and thumb, holding Generator in upright position. Push Generator through opening in Air Intake Tube, and hook Cleaning Needle in hole of Cleaner Block. Now turn Cleaning Needle Lever down. Seat Generator properly. Screw Jamb Nut down. Tightening with Wrench.



7. KEEP FOUNT CLEAN.

It is a good plan to drain the fount each time before refilling. The fount should be given a **thoro cleaning at least once a month**. This removes yellow dirty gasoline and sediment which stops up the Generator and causes difficulty in operation. Simply remove the Filler Plug and drain fount thru Filler Plug Opening.



Your lantern will light easier and better on fresh gasoline.

A clean fount and the use of clean, water-white, undoped gasoline will help greatly to avoid generator stoppage and insure better light and better service.

FOUR THINGS—

to do which will help this Coleman Instant Lighting Lantern give you better service and longer service.

1. Always use a good grade of fresh, clean, water-white gasoline. Do not use any of the doped, anti-knock or Ethyl gasolines in any Coleman pressure gas product.
2. Ask your dealer for a list of gasolines, sold in your state, which have been tested by The United Laboratories and found satisfactory for use in Pressure Gas Lamps, Lanterns, Heaters, Stoves, Irons, etc., or write direct to the nearest Coleman branch or The United Laboratories, 240 North St. Francis St., Wichita, Kansas, and a list will be furnished you.
3. Read and carefully follow instructions given in this directions folder. If you will do this, you will avoid difficulties that result from improper operation and which are due to no fault of the Lantern.
4. Keep the fount of the Lantern clean. This keeps the residue which collects at the bottom of the fount from stopping up the generator (see Par. 7, inside.)

This Directions folder is written for your convenience. It is worth while to follow instructions carefully step by step.

SUGGESTIONS

About Care and Use of Coleman Instant-Lighting Lanterns

Model Nos. 220B and 228B

A. If Lantern blazes up and smokes when you light it—
Cause—Lighting Lantern in half-hot condition. This is nothing serious as the flame will burn out in a few seconds, and will be followed by full brilliance. *Remedy*—Read and follow directions given in Paragraph 4.

NOTE—See suggestion F for other causes.

B. If Lantern does not light at all—
Cause—No fuel, lack of air pressure. *Remedy*—See that Fount contains clean fuel and then pump in 35 to 40 strokes of air into Fount.

Cause—Generator stopped up by dirt or carbon. *Remedy*—Put in complete new Generator.

C. If light grows dim rapidly or goes out suddenly—
Cause—Fount may leak. *Remedy*—Pump up Fount and place in bucket of water to test for leak. If bubbles come from Filler Plug, put in new Filler Plug Gasket, or get a new Filler Plug complete. If bubbles come from around the bushing where Valve Body screws into Fount, be sure connection is tight. If leak continues send Lantern less Chimney and Ventilator to nearest Coleman Office.

D. If a leak develops at lower end of Generator
Cause—Jamb Nut not threaded properly on Fuel Valve Body. *Remedy*—Close Fuel Valve. Then tighten Jamb Nut at bottom with Wrench. If leak continues, put on new Jamb Nut. If new Jamb Nut fails to stop leaking, then trouble is with Fuel Valve Body, which should be replaced by new one.

E. If Generator lasts only a short time—
Cause—May be dirty gasoline. *Remedy*—Clean Fount thoroughly. Strain gasoline when filling Fount (see Paragraph 1).

F. If Mantles turn black—

Cause—Air Intake Tube or Mixing Chamber may be stopped up. *Remedy*—Clean Air Intake Tube and Mixing Chamber.

Cause—Dirty Screens in Burner Caps. *Remedy*—Unscrew Burner Caps and clean Screens, or replace with new ones with wires of each Screen placed diagonally with the other.

Cause—Hole in Gas Tip may be enlarged. *Remedy*—Put on new Gas Tip.

Cause—Mantles used may be of inferior quality. *Remedy*—Always use Coleman Junior Mantles.

G. If built-in pump does not work—

Cause—Pump Leather may be dry. *Remedy*—Remove Pump Plunger and soften Pump Leather with oil.

Cause—Pump Leather worn out. *Remedy*—Put in new one.

Cause—Check Ball in Check Valve is stuck. *Remedy*—Unscrew Air Stem by turning Pump Plunger to left several turns—then unscrew Pump Cap and pull out Plunger and Air Stem. Insert screw driver in Pump Barrel, unscrew and remove Check Valve. Wash thoroughly in gasoline and replace. Insert Air Stem and Pump Plunger in Pump Barrel and screw on Pump Cap. If Pump still does not work, replace the Check Valve and Air Stem.

H. If water gets mixed with Gasoline—

Clean Fount as outlined on other side. (See Paragraph 7).

On one filling of two pints of gasoline the Lantern will provide an average of from 12 to 15 hours' brilliant service, if directions for lighting and operating are followed.