

# Directions for the No. 159 Lamp

(Read Down)

## 1. How To Assemble

Before assembling Burner to fount remove handle lock nut and rub a little moistened soap on threaded stem on top of handle. Do not get any soap inside stem, as it will block up the generator. Replace Handle Lock Nut.

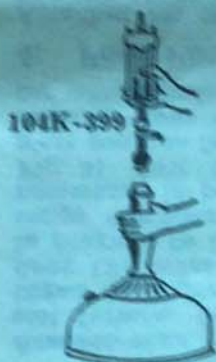


Fig. 1

Then place the burner 104K-399 in a vertical position (Fig. 1) and thread onto the handle by hand. Tighten burner with a wrench (Fig. 2). Do not screw burner on too tightly for fear of stripping threads and causing a leak at this connection.

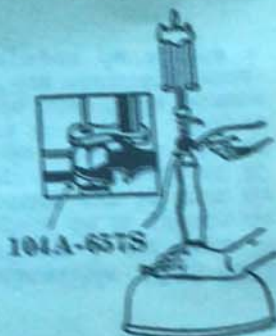


Fig. 2

After burner is assembled place the globe holder clamps crosswise on top of Burner Casting. Then remove shade holder post from parts package, insert through clamps and screw firmly into top of burner.

If gasoline is to be used as a fuel, leave the small red cap which is screwed on to the bottom end of the air intake tube in place. (See 159-145 on the lamp illustration.)

If kerosene is to be used as a fuel, take the red cap off and discard.

## 2. To Fill

Be sure valve 104A-657S is closed tightly to right. Remove filler plug by turning to left. Fill fount with clean fuel. Replace filler plug and tighten firmly to right by hand.

## 3. To Pump

See that fuel valve 104A-657S is closed. Open air check valve in pump barrel by turning pump handle two (2) turns to left. Place thumb over hole in pump handle and pump about 30 full strokes. Close air check valve by tightening pump handle to right. (See Fig. 3). Note: The check ball in the pump base is not intended as a positive shut-off. For satisfactory results you must use air check valves as instructed.



Fig. 3



#### 4. To Put on Mantles

Tie mantles to grooves in burner cap, 112-323 (Fig. 4), with flat side of mantle parallel to generator. Distribute folds of mantle evenly at top and cut off surplus string. Light mantles with match at bottom and allow them to burn until only a white ash remains. Be sure not to jolt or touch mantles when lighting lamp. Do not have fuel valve 104A-657S open when new mantles are being burned off.



Fig. 4

#### 5. To Put on Shade

Place No. 355 Globe down over globe holder clamps. Assemble nut and finial to shade frame. Then fit shade assembly over shade holder post.

#### 6. To Light

When gasoline is used as fuel, hold two lighted matches in left hand. Apply flames to side of generator. When matches are burned down nearly to fingers, open valve 104A-657S slightly to light mantles and close again quickly. Unless the valve is opened slightly and closed again, the lamp will flare up and smoke. When mantles begin to dim, open valve 104A-657S one full turn or more.

When kerosene is used as a fuel, fill pre-heating cup  $\frac{2}{3}$  full with alcohol—then light alcohol to heat generator (R55) allowing flame to thoroughly heat generator. When generator is HOT, open fuel valve 104A-657S one turn and close again quickly. Mantles will light up brightly and then start to dim. Open fuel valve at least two full turns and lamp is ready for use.

#### 7. To Turn Out Light

Turn valve, 104A-657S, to right until closed. The light will dim and go out in a few seconds.

#### 8. To Keep Light at Full Strength

When light dims increase pressure in fount by pumping in more air. This may be done while lamp is burning. Light failure may be caused by dirt in generator—follow instructions in paragraph No. 10.

#### 9. How to Change Generator

To change generator without disturbing mantles, hold generator, R55, with fingers or pliers. Then unscrew jamb nut at lower end of generator. Lift generator up, then out, and pull it down from tube without striking mantles.

#### 10. How to Clean Gas Tip on R55 Rotary Generator

Simply turn the small cleaning lever around several times. Better results will be obtained if tip is cleaned while lamp is burning.

NOTE: When Tip Cleaner Lever is not in use be sure it is left in DOWN position.

#### 11. To Keep Fount Clean

It is very desirable that the fount be drained at each filling. The fount should be given a thorough cleaning at least once a month. This removes a yellow, dirty, stale fuel and sediment which may stop up the generator and cause difficulty in operation. Simply remove filler plug and drain fount through filler plug opening.



## Fount Capacity and Fuel Consumption

The fount for the No. 159 Lamp holds  $2\frac{1}{2}$  Imperial pints of fuel and will give, with normal working pressure, approximately 13 hours service.

## Always Use

*Genuine High Power*

# COLEMAN MANTLES

They are made to furnish 300 candle power of clear, pure white radiance that is always restful to the eyes.

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 of the Coleman.

This is why we cannot 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.

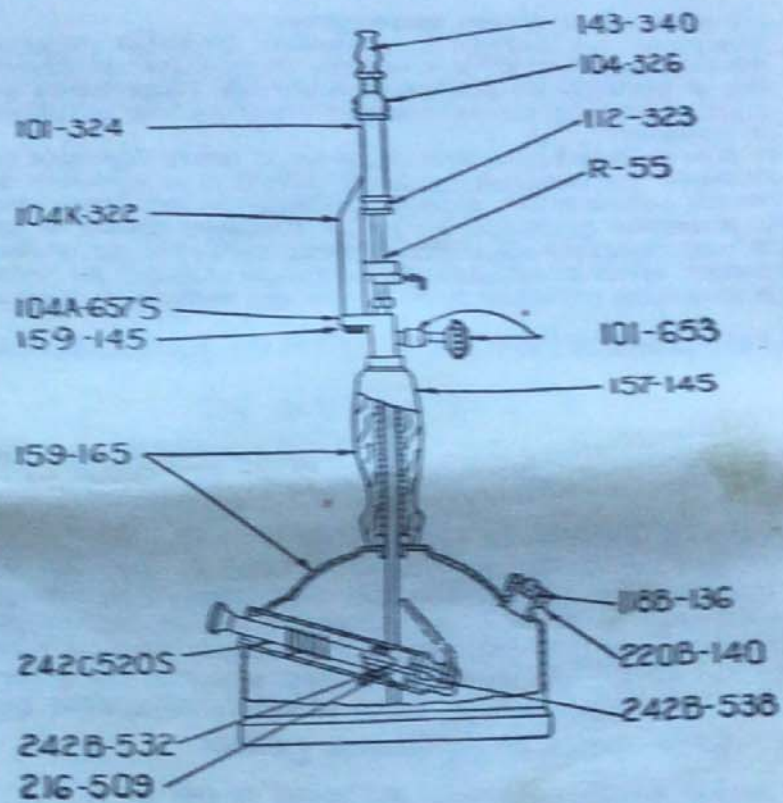


## The COLEMAN No. 159 Lamp

# WHAT TO DO

- A. If lamp blazes and smokes when you light it:**  
*Cause:* Generator not heated sufficiently before opening valve.  
*Remedy:* Read and follow Paragraph "6" of directions.  
*Cause:* Enlarged orifice in gas tip.  
*Remedy:* Put in new tip, or complete new generator (see Paragraph 9).  
*Cause:* Air intake 104K-322 or burner tubes (101-324) may be stopped up.  
*Remedy:* Remove and clean, or replace.
- B. If Lamp does not light at all:**  
*Cause:* No fuel or lack of air pressure.  
*Remedy:* See that fount contains clean fuel and plenty of air.  
*Cause:* Gas Tip may be clogged.  
*Remedy:* Operate Generator Cleaning Lever (See Paragraph 10).
- C. If light grows dim rapidly or goes out suddenly:**  
*Cause:* Fount, connections, or pump may leak air.  
*Remedy:* Pump up lamp and place fount under water to test for leak. If bubbles come from filler plug, replace gasket or complete filler plug. Examine all connections carefully for leaks and damaged threads.  
*Cause:* No fuel or lack of air pressure.  
*Remedy:* See that fount contains clean fuel and plenty of air.
- D. If leak develops at lower end of generator:**  
*Cause:* Generator not seated properly into the valve.  
*Remedy:* Tighten nut at bottom of R55. If leak continues replace generator. If this fails to stop leak replace valve 104A-657S.
- E. If generator R55 lasts only a short time:**  
*Cause:* Dirty kerosene, or careless lighting.  
*Remedy:* Clean fount thoroughly and fill with fresh fuel. Follow lighting instructions (Paragraph 6) closely.
- F. If Mantles turn black:**  
*Cause:* Air Intake Tube 104K-322 and mixing chamber may be stopped up. (Burner caps may be corroded).  
*Remedy:* Clean out tubes and chamber, also clean screens inside of burner caps. One single screen only should be fitted in each cap.  
*Cause:* Hole in generator gas tip may be enlarged.  
*Remedy:* Replace gas tip.
- G. If pump does not work:**  
*Cause:* Leather may be dry or worn out.  
*Remedy:* Oil Pump Leather by putting a few drops of oil into the Oil Hole on the pump cap. **THIS IS IMPORTANT;** or if Pump Leather is worn out, replace with new one.

If water gets mixed with fuel, clean fount as outlined on inside folder (See Paragraph 11). We recommend the use of the Coleman No. O Filtering Funnel. This funnel removes all water and dirt from the fuel which goes into the fount.



#### List of Parts for Model 159 Lamp

R55	Generator
101 - 324	Burner Tube
101 - 653	Valve Stem
104 - 218	Generator Gas Tip
104 - 326	Mixing Chamber Casting
104 - 469	Hanger Rod
104A-607	Valve Body
104A-657S	Valve Complete
104K-322	Air Intake Tube
104K-399	Burner, Generator, and Valve assembled
112 - 323	Burner Cap and Screen
118B-136	Filler Plug Gasket
128 - 328	Globe Holder
143 - 340	Shade Holder Post
157 - 145	Handle
159 - 145	Air Intake Cap
159 - 165	Fount Complete
169K-310	Preheater Cup
216 - 509	Pump Leather
220B-140	Filler Plug Complete
242B-532	Pump Air Stem
242B-538	Pump Check Valve
242C-520S	Pump Plunger Complete
242K-910	Filler Can Complete



# Your "Better Service" Bond

This Coleman appliance was made by skilled workmen using only fine quality materials. It is a product which you may well be proud to own and we know you will want to exercise the little care necessary so it may serve you long and well.



**Coleman**  
MADE IN CANADA

## DIRECTIONS

No. 159  
GASOLINE or KEROSENE  
MANTLE LAMP



The Canadian Coleman Company Ltd.  
Toronto Canada