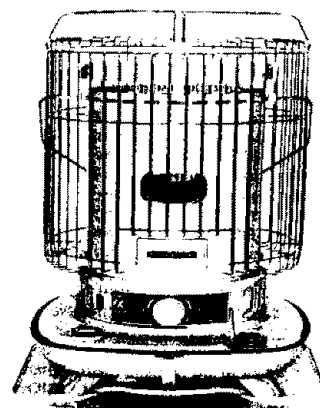


# 210590

**CORONA™**

# **CORONA PORTABLE KEROSENE HEATER OWNER'S MANUAL**



**MODEL 23-DK  
MODEL 18-DK**



This manual contains complete instructions for the assembly, operation and maintenance of the CORONA 23-DK, 18-DK Portable Kerosene Heaters. Use this manual until you are familiar with the operation of your heater. Keep it handy for future reference as a guide to proper operation and maintenance of your heater. **IMPORTANT - READ AND UNDERSTAND ALL INSTRUCTIONS PACKED WITH YOUR HEATER BEFORE YOU BEGIN ASSEMBLY OR OPERATION. RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.**

**This instruction manual is important to you.  
PLEASE READ IT THOROUGHLY.**

This manual will show you how to assemble, operate and maintain your heater for best performance. It shows you simple things to check before you contact your Corona dealer...so you may save the cost of unnecessary service.

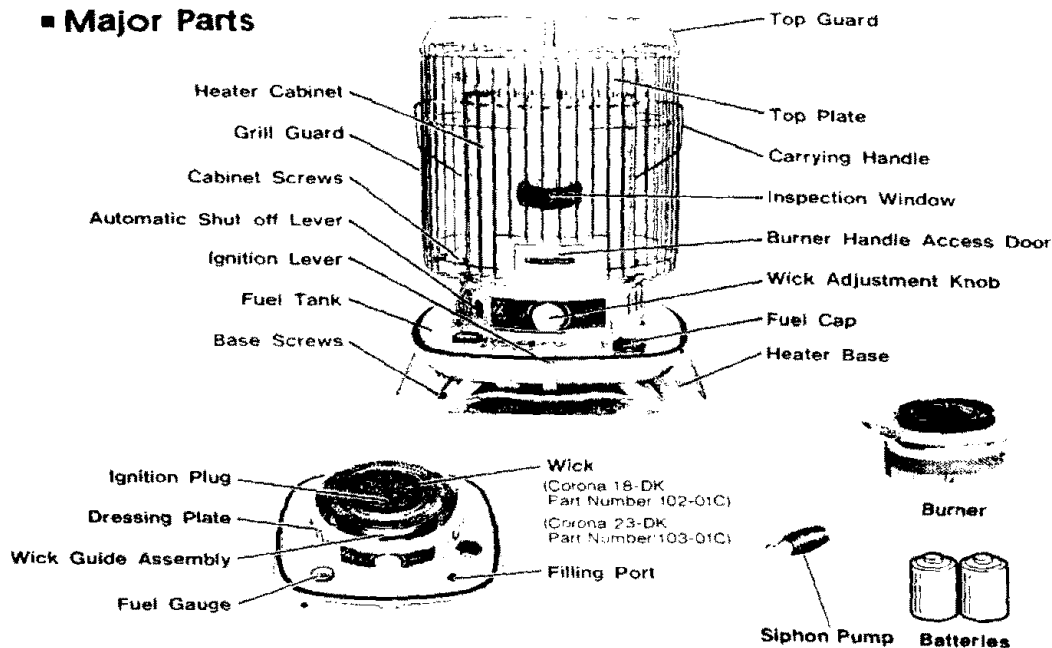
**Before using your heater, read these important words of caution:**

1. **WARNING:** Use your heater only in well-ventilated areas to eliminate the risk of indoor Air Pollution. In a house of typical construction, that is, one that is not of unusually tight construction due to heavy insulation and tight seals against air infiltration, an adequate supply of air for combustion and ventilation is provided through infiltration. However, if the heater is used in a small room where less than 200 cubic feet (5.7 m<sup>3</sup>) of air space is provided for each 1000 Btu per hour of heater rating (considering the maximum burner adjustment), the door(s) to adjacent room(s) should be kept open or the window to the outside should be opened at least 1 inch (25.4mm) to guard against potential buildup of Indoor Air Pollution. Do not use the heater in a bathroom or any other small room with the door closed.
2. **WARNING: Risk of explosion or fire.** Use only water clear No.1-K kerosene (ASTM 1-K) or synthetic fuels for use with kerosene-fired portable heaters. **NEVER** use any fuel other than the fuels specifically identified for use in the heater. **NEVER** use gasoline, benzol, alcohol, No.2 fuel oil, diesel oil, white gas or camping stove fuel in your heater. The use of any substance other than kerosene or synthetic fuels could result in an **EXPLOSION OR FIRE**.
3. **WARNING: NEVER** add fuel when your heater is operating or hot. Turn the heater "OFF" before removing the Fuel Tank for refilling.
4. **WARNING: NEVER** use your heater in areas where flammable vapors or high dust conditions are present to avoid possibility of explosion.
5. **ALWAYS** refuel the heater outdoors to avoid risk of fire. Use the Siphon Pump that came packed with your heater to fill the Fuel Tank. Be certain to wipe away any fuel spilled on the exterior of the Fuel Tank or the Heater Cabinet.
6. **WARNING: NEVER** use containers that have been used for other fuels such as gasoline, paint thinner or alcohol. Small amounts of other volatile fuels such as gasoline dangerously increase flammability and risk of fire. **NEVER** store or transport the fuel in other than a metal or plastic container that is:
  - (1) acceptable for use with the specific fuel,
  - (2) nonred in color,
  - (3) for 1-K kerosene clearly marked, "kerosene", or
  - (4) is in the original container for the Synthetic Fuel.
 Never store fuel in the living space.
7. **NEVER** leave your heater unattended while in use. **ALWAYS** extinguish heater before sleeping.
8. **NEVER** place your heater in high traffic areas such as doorways or hallways. Heater could be bumped or jarred. Be sure heater is sitting on a level surface during operation.
9. **NEVER** place your heater in windy or drafty locations. Uneven burning and poor performance may result.
10. **WARNING:** Your kerosene heater is hot while in operation. Do not touch it, and keep children, clothing and furniture away from the heater. **NEVER** allow children to operate or refuel heater. **NEVER** place heater closer than three feet from combustible materials such as furniture, draperies, and clothing.
11. **NEVER** move, handle, service or refuel your heater while it is operating or still hot.
12. **NEVER** use your heater in a moving vehicle. Motion can cause fuel spillage and increase risk of fire.
13. Store fuel in a clean, tightly sealed approved safety container. Store the fuel container in a cool, dry, well-ventilated place outside the living area and out of reach of children.
14. **DO NOT** place a pan of water on the top or attempt to cook on top of your heater.
15. **DO NOT** attempt to modify or repair the Automatic shut-off System.
16. **DO NOT** use your heater if it has been damaged or is burning irregularly. See your selling Corona dealer immediately.
17. Independent testing has confirmed that this heater complies with emission standards at elevations up to 7,000 feet. Heating output is reduced as elevation increases.
18. **WARNING: Risk of Indoor Air Pollution-Use heater only in well-ventilated areas.** People with breathing problems should consult a physician before using the heater.
19. Be sure the Grille Guard is in place before operating the heater.

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## Major Parts



## GENERAL SPECIFICATIONS

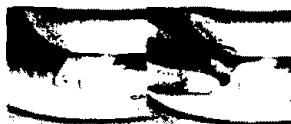
Model	23-DK
Heating Output:	22,800 BTU/hr.
Fuel Tank Capacity:	1.6 gallons
Burning Rate:	.68qt/hr. (.17gals.)
Recommended Heating Area:	810sq. ft.
Continuous Hours of Heating:	About 9.5
Ignition:	2.8v. Ignition Plug 2"D" size dry cell batteries, 1.5 v each
Size:	26.4" h × 18.1" w × 18.1" d (670mm × 460mm × 460mm)
Weight:(empty)	26.5 lbs. (12.0kg)
Accessories:	2"D" size dry cell batteries and refilling Siphon

Model	18-DK
Heating Output:	18,000 BTU/hr.
Fuel Tank Capacity:	1.6 gallons
Burning Rate:	.53qt/hr. (.1325gals.)
Recommended Heating Area:	650sq. ft.
Continuous Hours of Heating:	About 10.5
Ignition:	2.8v. Ignition Plug: 2"D" size dry cell batteries, 1.5v each
Size:	24.9" h × 18.1" w × 18.1" d (630mm × 460mm × 460mm)
Weight:(empty)	23.2 lbs. (10.5kg)
Accessories:	2"D" size dry cell batteries and refilling Siphon

## ■ Assembling Your Corona Heater

1. Read this entire Instruction Manual before you begin assembly and operation.
2. Open top of carton. **NOTE:** Carton will contain: Batteries, Battery Case Cover, Top Plate, Base (in slot at side of carton), Top Guard, Siphon Pump for fueling, and Carrying Handle.
3. Remove the batteries, battery case cover and top pad.
4. Remove Siphon Pump, Top Plate, Top Guard, and Carrying Handle from the carton.
5. Remove the Base from its place in the side of the carton and place it on the floor. **Front and back indications are clearly marked on the base.**
6. Lift out heater and place it on the Base.

7. Fasten heater to the Base using the two screws already in place on the Base. **Finger tighten base screws.** Use of a screw-driver or pliers will cause screws to crack or split.



**NOTE:** If screws are not in place on the heater base, look for them in the bottom of the carton among packing materials. They may have separated from the Heater Base during shipping.

8. Lift plastic cover from heater and save it for later use.
9. The burner chimney is packed in the heater cabinet. Be sure you have removed the packing material from the Burner inside the Heater Cabinet.



10. Grill guard is divided into two (2) parts, front and rear portion. Because of the compact packaging for the shipping, they are hooked up at lower position than that for normal use. Before the heater is used, remove both grill from the heater cabinet and reinstall them to the proper position by the following procedure:

### 1) Removing both grill:

Remove the upper portion of rods of the grill, which are hooked up the holes located at left and right side of the heater cabinet, by pushing them downward, and then pull the lower portion of rods of the grill out of holes located on the dressing plate



### 2) Reinstalling the front grill:

Insert the upper portion of rods of the grill into the holes located upper than the holes where they were. Then, insert the lower portion of rods of the grill, by pushing upward, into the holes located at the left and right side of the heater cabinet.



3) Place the Top Plate on the Cabinet. Make certain the holes on the Fastening Tabs align with Carrying Handle holes in the Cabinet.

Be sure the two brackets must be inside the heater cabinet.

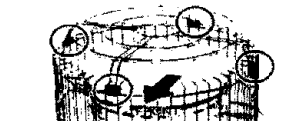
**NOTE:** 18-DK has three brackets which also must be inside the heater cabinet

4) Install the Carrying Handle

5) Reinstalling the rear grill:

Place carrying handle in the front side of the heater. Then, reinstall the rear grill by the same procedure of the front grill.

11. Fasten the top grill to the front and rear grills using metal brackets and screws provided. Fasten the joint portion of the front and rear grills first, then fasten the front and rear brackets.



**CAUTION:** Risk of burns. Do not operate the heater without the guard or grille completely attached

12. Be sure burner chimney bundle is touchable through the access door located in the front side of the heater cabinet. Check the alignment of the Burner by rotating it LEFT and RIGHT two or three times.



13. Your heater is now assembled. Return all packing material to carton and store in a dry place.

## ■ Setting the Automatic Shut-off System

Your Corona Heater will not operate unless you have set the Automatic Shut-off System. Follow the steps outlined below.

1. Press **DOWN** on the Automatic Shut-off lever. The System is now set and will allow your heater to operate.



should turn freely and smoothly.

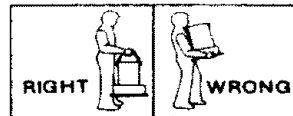
2. Turn the Wick Adjustment Knob **CLOCKWISE**. You will notice a heavy clicking sound. This is normal. In subsequent use the Wick Adjustment Knob

3. If your heater's Automatic Shut-off System is ever activated you must repeat Steps 1 and 2 before your heater will operate.

4. The Automatic Shut-off System is designed to be activated if the heater is jarred, bumped or vibrated excessively. Weak vibrations or a gentle incline will not set it off.

**NOTE:** If the Automatic Shut-off System is activated, it will produce some smoke and odor.

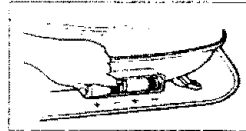
5. When you move your heater, use the Carrying Handle. Lift the heater completely off the floor. Carry the heater in a level position to avoid setting off the Automatic Shut-off System.



6. **NEVER** move your heater while it is in operation.
7. **NEVER** attempt to disassemble or modify the Automatic Shut-off System.
8. Keep the Automatic Shut-off System clean and free of dust and kerosene spills.

## ■ Operating Your Heater

1. To be sure the Burner is properly positioned, grasp the Adjusting Handle through the Access Door as shown and **ROTATE** the Burner **LEFT** and **RIGHT** two or three times. When the Burner is properly seated it will move with little resistance.



2. Place the two "D" cell Batteries which power the Automatic Igniter in the Battery Case located on the lower back of the heater Cabinet.

3. Install the Batteries as indicated by the (+) and (-) polarity markings as illustrated on battery case. Close the Battery Case Cover.

## ■ Filling the Fuel Tank with Fuel

### **WARNING: Risk of Explosion**

- \* Use only water clear No.1-K kerosene (ASTM 1-K) or synthetic fuels for use with kerosene-fired portable heaters.
- ❑ **NEVER** use any fuel other than the fuels specifically identified for use in the heater.
- ❑ **NEVER** refill the Fuel Tank while heater is operating or still hot.
- ❑ **NEVER** use heater in an area where flammable vapors or dust may be present.
- ❑ **NEVER** fill heater Fuel Tank in living space. **ALWAYS** fill Fuel Tank outdoors.
- ❑ **NEVER** store fuel in any container other than an approved container, tightly capped, in a cool, dark place.
- ❑ **NEVER** store fuel in direct sunlight.
- ❑ **NEVER** store fuel in a glass container.
- ❑ **NEVER** store fuel in the living space.
- ❑ **NEVER** operate heater without Fuel Cap in place.
- ❑ **NEVER** store the fuel longer than 6 months.

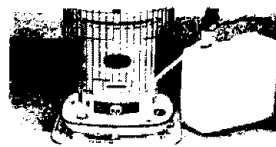
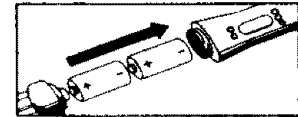
1. Remove Fuel Cap from the Fuel Tank by turning **COUNTER-CLOCKWISE**.



2. Always use the Siphon Pump provided with your heater to transfer fuel from the Storage Container to the Fuel Tank.

## Using the Battery Siphon Pump

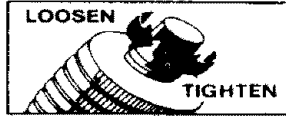
- A. Unscrew the Battery Case as shown and insert the two (2) "D" size Batteries with the (+) and (-) marking facing as shown.



- B. Insert the non-flexible tube as shown into the storage container and the flexible tube into the Fuel Tank. Start the Pump. **DO NOT LEAVE** unit unattended during filling operation. You could over flow the Fuel Tank.

### Using the Manual Siphon Pump

Be sure you have tightened the Vacuum Release Knob on the Siphon Pump Bulb by turning it **CLOCKWISE**. After the Fuel Tank has been properly filled, turn the Vacuum Release Knob **COUNTER-CLOCKWISE** to drain the Siphon.



3. The Fuel Tank is properly filled when the needle on the fuel gauge is on "F". **DO NOT OVERFILL** the Fuel Tank.

4. Replace the Fuel Cap and hand tighten.

5. **BEFORE USING THIS HEATER FOR THE FIRST TIME MAKE SURE TO FILL THE FUEL UNTIL THE POINTER MOVES TO "F" AND WAIT FOR AT LEAST 30 MINUTES BEFORE LIGHTING.**

This time allows the Wick to absorb enough fuel for satisfactory lighting and burning.

**NOTE:** If the heater is ignited in less than 30 minutes after the tank is filled, the flame may persist weakly for a short while and then may extinguish itself.

### ■ Lighting the Heater

1. After waiting for **NOT LESS** than 30 minutes, raise the Wick to its full height by turning the Wick Adjustment Knob **CLOCKWISE** to the "HIGH" position until it comes to a firm stop.



2. Gently press the Ignition Lever **DOWN**. Hold the Lever in place until the flame appears. (Approximately 3 to 5 seconds). Then gently release the Ignition Lever.



**NOTE:** Pressing the Ignition Lever too hard will push the Ignition Plug too deeply into the Wick and will produce white smoke instead of a clean ignition. If this occurs, release the pressure on the Ignition Lever slightly. Holding the lever in place too long will produce smoke and odor. Be certain the Ignition Plug is fully retracted after lighting the heater.

3. After the Wick is lighted, check the alignment of the Burner by rotating it **LEFT** and **RIGHT** two or three times.

4. **DO NOT OPERATE THE IGNITER WHILE THE HEATER IS IN OPERATION. YOU WILL DAMAGE THE WICK AND THE IGNITION PLUG AND PRODUCE SMOKE AND ODOR.**

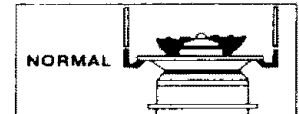
### ■ Adjusting the Wick During Operation

After the heater is lit, it will warm gradually until it reaches full heating power. This normally takes ten to fifteen minutes. You can control your heater's output by using the Wick Adjustment Knob to raise or lower the Wick.

**WARNING:** Risk of indoor air pollution and fire. Do not operate heater at a wick setting lower than the minimum wick-stop setting.

1. Set the Wick Adjustment Knob to the "High" position.

2. When your heater is properly adjusted, the flame will burn in an evenly balanced circle  $\frac{1}{8}$ " to  $\frac{1}{4}$ " over top of the Burner.



3. If the flame touches the wall of the heater, the Wick is adjusted too high. **NOTE:** Smoke and odor will be produced when flame is too high.



Turn the Wick Adjustment Knob **COUNTER-CLOCKWISE** in the direction of "LOW".

4. If the flame does not appear at the top of the Burner, the Wick is adjusted too low. Smoke and soot may result if heater is operated with the flame too low.



Turn the Wick Adjustment Knob **CLOCKWISE** in the direction of "HIGH".

5. **NEVER** operate your Heater below the "LOW" setting indicated on the front panel of the Heater.

**NOTE:** If the flame wavers, burns too high on one side, or smokes, adjust the Burner to make sure that it is properly seated, centered in the correct position and not misaligned on the Wick Housing. Failure to properly position the Burner may cause the Heater to operate improperly.

## ■ Turning your Heater off

1. Turn the Wick Adjustment Knob COUNTER-CLOCKWISE in the direction of "OFF", pushing the small button on the wick adjustment knob until it comes to a firm stop. You will not be able to turn the knob counterclockwise unless you have pushed the knob button. The heater will be completely off in approximately 3 to 4 minutes.

2. Always turn your heater off when leaving the room and before retiring for the evening.

3. NEVER leave your heater burning overnight or while unattended, because you may not be aware of ventilation changes or children and pets bumping into the heater.

4. The heater will produce some odor upon shut-off. This is normal.

## DAILY INSPECTION AND MAINTENANCE

**CAUTION:** Let the extinguished heater cool satisfactorily before making inspection and maintenance work.

### ■ Cleaning the Wick

Cleaning the Wick regularly will keep it in good condition. Once or twice a week is recommended during seasons of heavy use. To clean the Wick follow the steps outlined below:

1. Move your heater outdoors. Leave the Burner in the Cabinet. Protect the heater from wind and drafts which could cause irregular burning.

2. Raise the Wick to "HIGH" by turning the Wick Adjustment Knob CLOCKWISE. Before lighting, be certain the Burner is properly positioned. Light the heater following the procedures outlined in the "Lighting the Heater" section, page 5.

3. Allow the heater to burn until the flame is completely out and all fuel has burned away.

4. Wait 15 minutes and re-light the heater. (This allows time for the Wick to absorb every bit of available fuel which may have remained in the lower portion of the Wick during the first burning operation.)

5. These procedures will normally remove any carbon or tar deposits that may have accumulated through normal use. Any remaining carbon deposits on the Wick can be crushed between your fingers or brushed away with an old toothbrush.

6. If this procedure does not remove all carbon and tar deposits, replace the Wick. See pages 6-7.

### ■ Wick Replacement

If cleaning the Wick does not improve performance, you will need to replace the Wick. Refer to the "Checklist for Trouble Symptoms" section, page 10, which outlines conditions under which the Wick should be replaced.

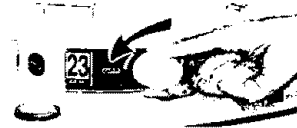
1. Use ONLY a genuine Corona Replacement Wick.
  - CORONA 18-DK      • CORONA 23-DK
  - Part Number 102-01C      Part Number 103-01C

DO NOT attempt to substitute any other type of Wick device or a Wick designed for another brand or model heater. You could damage the heater and create a potential fire hazard.

2. The only tools needed to replace the Wick are:

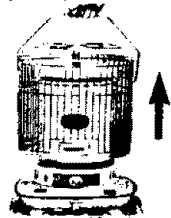
- A Pair of Pliers
- A Flat blade Screwdriver
- A Plastic Bag with a Twist Tie

3. Turn the Wick Adjustment Knob COUNTER-CLOCKWISE in the direction of "OFF", pushing the small button on the wick adjustment knob until it comes to a firm stop.



4. Use Pliers to loosen and remove cabinet screws on either side of the Heater Cabinet.

5. Use the Carrying Handle to lift the Cabinet straight up and away from the heater.



6. Gently pull the Wick Adjustment Knob off the heater, pushing the small button on the wick adjustment knob.



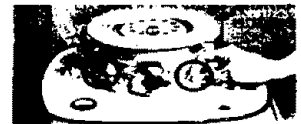
7. Remove the Dressing Plate by lifting it from the back and tilting it forward to clear the Wick Adjustment Assembly.



8. Trip the Pendulum on the Automatic Shut-Off System to activate it.



9. Remove the four wing nuts which hold the Wick Assembly to the heater and carefully lift the Wick Assembly from the heater.



10. Replace the Wick Adjustment Knob temporarily. Turn the Knob CLOCKWISE to raise the Wick and to reset the Automatic Shut-Off System.

11. Place the white plastic strip, packed with the Wick, on the Wick Cover to protect your fingers.

12. While still holding the Wick Assembly upside-down, grasp the Wick Cover firmly and PULL it off with a sharp tug.



13. Remove the Wick while folding it to the inside. Remove the Wick Sleeve together with the Wick.

14. Insert the Wick pins into three holes of the Wick Sleeve. (Position the "UP" marking of the Wick Sleeve in the upward direction of the Wick and attach.)



15. Attach the Wick so that the retainer teeth of the Wick Sleeve stick into it, fitting the Wick evenly around the inside to avoid wrinkles.

16. While pressing each of the three pins of the Wick (attached to the Wick sleeve) toward the inside, insert the three Pins into the slanted grooves of the Wick Guide. Press on each of the three pins, inserting them securely in the holes.



**NOTE:** Turn the Wick Adjustment Knob and check that the Wick moves up and down.

17. The wick height will automatically be set to the correct burning height of 3/8" (10mm).

18. Turn the Wick Assembly upside down to replace the Wick Cover.



19. Align the four tabs on the Wick Cover with the four screw holes on the Bottom of the Assembly, as shown, and snap it into place. Be certain of firm contact at all points. Place the arrow on the Wick Cover to the front.

20. Hold the Set Lever to down position by finger.



21. Remove the protective strips from the Wick Cover. Turn the Wick Adjustment Knob to the fully raised position. Pull lightly on the skirt

of the Wick to remove any slack. Press lightly to secure the skirt to the Retainer Teeth on the Wick Cover.

22. Replace the Wick Assembly on the heater with the Wick raised. Replace two diagonally opposite Wing Nuts first, then the remaining two. Tighten each of the four Wing Nuts gradually until the Wick Assembly is firmly in place.



23. While your heater is disassembled, check the Automatic Shut-off System.



is operating correctly.

24. Trip the Automatic Shut-off System by nudging the Brass Pendulum. Reset the System by pressing the Set Lever DOWN. Trip it again to make certain it

is operating correctly.

25. Turn the Wick Adjustment Knob to test its operation. Be certain the Wick operates smoothly as the Knob is turned CLOCKWISE and COUNTER-CLOCKWISE.

26. Test Ignition. Raise the Wick to its full height. The Ignition Plug should be within 1/16" to 1/8" (1mm to 2mm) of the Wick when the Lever is fully depressed.

27. Remove Wick Adjustment Knob which you had temporarily replaced to test Wick operation.

28. Replace the Dressing Plate making certain to align the Automatic Shut-off System Lever and the Wick Adjustment Rod, which holds the Knob, with the appropriate slots in the Dressing Plate. Begin by aligning them and gently snap the Dressing Plate in place over the Wick Assembly.

29. Replace the heater Cabinet. Make certain the Grille Guard prongs are inserted securely into the proper holes on the heater, and the Cabinet Front matches the front of the heater.

30. Fasten the Cabinet to the heater with the two screws.



31. Replace the Wick Adjustment Knob. To be certain it is properly positioned on the Wick Adjustment Shaft, raise the Wick to its full height. The mark on the knob must line up with the word "HIGH" on the control panel.

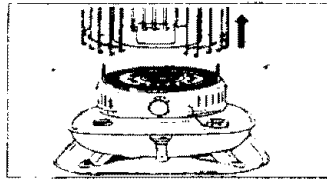


**■ Wick Guide Assembly -Check once a month**

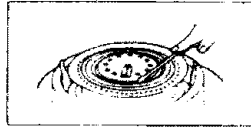
Tar deposits will build up over time on the wick guide assembly where the burner chimney seats. This may prevent the chimney from seating properly and cause poor combustion.

Clean off the tar deposits as follows:

1. Make sure the heater is off and cool.
2. Lower the wick to OFF position.
3. Remove the batteries at rear of heater.
4. Remove the two (2) cabinet screws and lift off the cabinet and guard assembly as shown.



5. Adjust the top of the wick to be even with the top of the wick guide and scrape off the tar deposits with the tip of a flat blade screwdriver. Take care not to let the tar deposits drop into the wick guide grooves. Use a portable vacuum cleaner to suck up the deposits while cleaning.



6. Reassemble the heater by replacing the cabinet assembly and batteries.

**■ Automatic Shut-off System -Check once or twice a month**

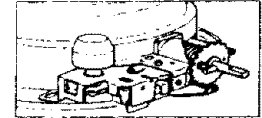
**A. TESTING**

The shock detector section of the system is very sensitive and can be affected by dust and other foreign matters. A good time to test the operation is just before you use the heater.

1. Make sure the set lever is down to set.
2. Turn the wick adjusting knob fully clockwise until it stops at the HI position.
3. Jar or shake the heater sharply. This action of simulating an earthquake or someone walking into the heater should actuate the automatic shut-off device. The wick should drop immediately and the wick adjusting knob spin back to the off position.

If the wick does not drop or the wick adjusting knob not return to the off position, perform wick maintenance or have the heater serviced.

**DO NOT USE THE HEATER UNTIL IT IS REPAIRED AND IN WORKING ORDER.**



**B. CLEANING**

Vacuum and clean with a soft cloth every other month or more often if needed.

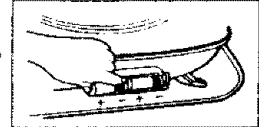
**DO NOT DISASSEMBLE THE SHOCK DETECTOR SECTION as its sensitivity will be changed.**

**■ Ignition System**

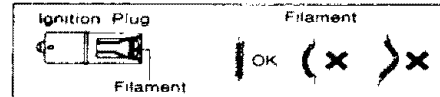
**-Whenever the wick does not light or is hard to light**

1. **Batteries** - Dead batteries are the most likely reason. The batteries are located at the rear of the heater in the battery case.

Replace with two (2) fresh D size batteries. Make sure the polarities (plus and minus) are in the same direction as shown inside the battery case.

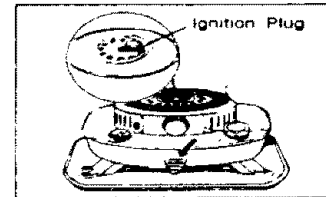


2. **Ignition Plug** - If you still have a problem after replacing the batteries, check the glow coil filament. Follow the procedure provided for Ignition Plug Replacement (see below).



3. **Ignition Plug Replacement** - If the glow coil filament is broken or is bent and cannot be aligned with a match or toothpick, it must be replaced.

- (1) Remove the batteries and cabinet (See Wick Replacement on page 6).
- (2) Press the Ignition Lever down to raise the Ignition Plug.
- (3) Push the Ignition Plug in and turn counterclockwise to remove.



- (4) Install the new Ignition Plug by pushing in and turning clockwise. Reinstall the batteries and check operation. (If it still does not ignite, check polarity of batteries and wiring.)

■ **Cabinet** -Check each time before use

1. Keep the Heater Cabinet clean by wiping lightly with a damp cloth.
2. Always wipe away fuel spills with a soft, dry cloth.

■ **Fuel Tank** - When using poor fuel

1. Poor quality fuel or fuel containing water entering the Fuel Tank will cause poor performance (i.e. slow or no lighting, low heat output, irregular burning, or a bad odor.) Poor quality fuel or fuel contaminated with water will cause carbon and tar accumulation on the Wick, which will interfere with the heater's performance and result in corrosion of the interior of the Fuel Tank.
2. To remove poor quality or contaminated fuel you must pump the Fuel Tank dry. Follow these steps:

**Using a Battery Siphon Pump**

3.
  - A. Disassemble Heater and Wick Assembly. See Page 6, items #1-9.
  - B. Insert Electric Pump into hole formed by Wick Assembly opening and Wick Guide Tube to remove as much fuel as possible. A few ounces may be left. Use a large household syringe to draw out the remaining few ounces. Stretch a dry rag over the end of a screwdriver and remove the liquid that remains. Repeat the procedure until the tank is dry.
  - C. Partially fill the Fuel Tank with clean, uncontaminated fuel. Replace the Cap and slosh the fuel around in the Tank. Remove the fuel you have used to clean the tank and dispose of it safely outdoors. This process should be done outdoors.
  - D. Replace the old Wick with a new one. Follow items #11-28 on pages 6-7



**Using the Manual Siphon Pump**



3.
  - A. Insert the non-flexible tube on your Siphon Pump into the Fuel Tank, as shown until all fuel and water are removed. Tilt the unit to be certain no fuel remains in the Tank.
  - B. Clean the Wick following the procedure outlined in the "Cleaning the Wick" section, page 6. If cleaning the Wick does not restore it to good condition, follow the procedure outlined for Replacing the Wick, pages 6-7.

- C. Dispose of any fuel remaining in the Fuel Tank. Partially fill the Fuel Tank with clean, uncontaminated fuel. Replace the Cap and slosh the fuel around in the Tank. Remove the fuel you have used to clean the tank and dispose of it safely outdoors.

4. Fill the Fuel Tank with clean, water-clear No.1-K kerosene (ASTM 1-K) or synthetic fuels for use with kerosene-fired portable heaters. Follow the "Filling the Fuel Tank" procedures on pages 4-5

5. Wipe the Heater Cabinet to remove any fuel spills

■ **Storage of Your Heater**

1. The wick should only have to be changed once each season if proper fuel is used. At the start of the heating season check the condition of the Wick and Ignition Plug. Always start the season with new Batteries and new Wick.

2. Proper storage of your heater takes just a few minutes and will prolong the life of your heater. The most convenient way to store and protect it from damage, is in the original shipping carton and packing materials.

3. Move the heater outdoors and follow the procedures outlined in "Cleaning the Wick", page 6.

4. After the heater has cooled, remove the Cabinet. Drain the Fuel Tank as shown on this page. Clean off all fuel or dust on the Wick Assembly and the Automatic Shut-off System, using a clean, dry cloth. Wipe clean all areas you can reach.

5. Clean the Cabinet interior and exterior with a damp cloth. Use a mild detergent solution if necessary. Wipe them dry with a soft cloth. Avoid scratching any surfaces of your heater.

6. Trip the Pendulum on the Automatic Shut-off System as shown.



7. Replace the Cabinet as outlined on page 7.

8. Remove the Batteries from the Battery Case and discard them. Replace the Batteries with new ones at the start of the next heating season.

9. Cover the Heater Cabinet with the plastic shipping cover provided and return the unit to the original shipping carton for storage. Place the heater in a safe, dry place.

## ■ Trouble Shooting Guide

In case of trouble, check here before you take your Corona Heater to your dealer.

### PROBLEM

POSSIBLE CAUSE	PROBLEM										SOLUTION	
	Heater will not light	Burns with red flame and creates soot	Flame burns too high	Burns with smoke or odor	Flame appears only on one side of Burner	Flame will not go out	Wick will not lower *	Flame spreads too slowly	Wick moves heavily	Uneven burning		Flame goes out
Batteries may be dead or weak.	<input type="checkbox"/>											Replace old Batteries with new ones.
Ignition Plug Filament may be bent or broken.	<input type="checkbox"/>											Replace Ignition Plug with new one.
Wick is too low, too high, or improperly installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Use Wick Adjustment Knob to adjust Wick for proper exposure. * If Wick Adjustment fails, reinstall Wick to proper height.
Burner is not properly positioned		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		Rotate Burner RIGHT and LEFT to position properly
Fuel is of poor quality or contaminated with water.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Replace contaminated or poor quality fuel supply
Wick may be dirty	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean Wick. Replace if necessary
Wick Guide Assembly may be damaged.				<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Check Wick Assembly for proper seating and general condition Replace if necessary
Wick is not correctly seated in Wick Assembly			<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				Reinstall Wick correctly in Wick Assembly

\* If Wick cannot be adjusted to proper exposure, reinstall as shown on pages 6-7

## LIMITED WARRANTY

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This limited warranty is extended to the original retail purchaser of this Corona heater and warrants against any defects in materials or workmanship for a period of 12 months from the date of retail sale. CORONA U.S.A. CORP. will assume responsibility to repair or replace, at our discretion, any component or unit found to be defective for this reason if the claim is made within a 12 month period. (Shipping costs are not covered by this warranty.)

**This warranty does not cover the following:**

1. Equipment not used or maintained in conformity with the instructions included with the heater or damage incurred after the sale.
2. Use of improper fuel. This warranty is void if any fuel other than clean, water-clear kerosene (ASTM 1-K) or synthetic fuels for use with kerosene-fired portable heaters, is used. CORONA U.S.A. is not responsible for the availability of good quality fuel in your area.
3. Batteries.
4. Wicks
5. Ignition plugs
6. Siphon pumps
7. Any breakage or damages incurred through misuse
8. Use of unauthorized or non-standard parts and accessories.

**THIS LIMITED WARRANTY IS GIVEN TO THE PURCHASER IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE REMEDY PROVIDED IN THIS WARRANTY IS EXCLUSIVE AND IS GRANTED IN LIEU OF ALL OTHER REMEDIES. IN NO EVENT WILL CORONA U.S.A. CORP. OR CORONA CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

**CLAIMS HANDLED AS FOLLOWS:**

1. Contact your dealer or the nearest Authorized Service Center and explain your problem.
2. If they cannot resolve the problem, write CORONA U.S.A. detailing the heater model, the problem, copy of the sales receipt showing date of purchase. Send letter to the attention of "Warranty Claims Dept."  
CORONA U.S.A. CORP.  
Polygon Plaza, Suite 450  
2050 Center Avenue  
Fort Lee, N.J. 07024
3. A representative of CORONA U.S.A. will contact you. **DO NOT RETURN THE HEATER TO CORONA U.S.A.**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**DO NOT RETURN THE EQUIPMENT TO CORONA U.S.A.  
YOU WILL BE CONTACTED BY OUR REPRESENTATIVE. ALWAYS OBSERVE THE SAFETY PRECAUTIONS STATED IN THIS OWNER'S MANUAL.**

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**CORONA™**  
**Portable Kerosene Heater**

Distributed by CORONA U.S.A. CORP.  
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