

**NEVER LEAVE THE HEATER
UNATTENDED WHILE BURNING!**

3 UNPACKING AND ASSEMBLY

CAUTION: "RISK OF BURNS"

DO NOT OPERATE HEATER WITHOUT INSTALLING THE PROTECTIVE GUARD OR GRILL.

1. REMOVE THE HEATER AND ALL PACKING MATERIALS FROM THE BOX. (Fig.2)

NOTE : Save the shipping carton and packing materials for future storage.

- Heater.
- Top guard.
- Handle.
- Top plate
- 2 "C" cell batteries.
- Siphon pump.
- Bag of screws for top grill assembly.
- Owner's manual.
- Safety Tips Manual.

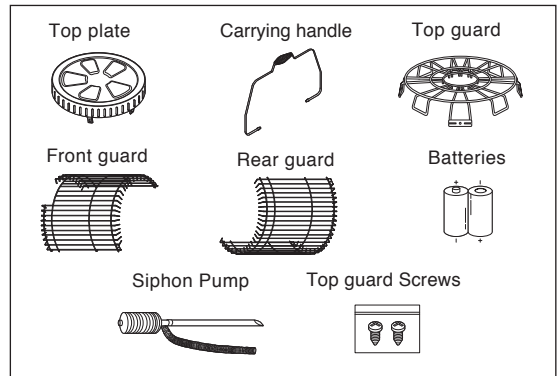


Fig.2

2. ASSEMBLING.

A) Remove all packing materials from heater: (Fig.3)

B) MOUNTING TOP PLATE: (Fig.4)

Align the arrow marking on the top plate with the carrying handle hole on the cabinet and place the top plate on the cabinet.

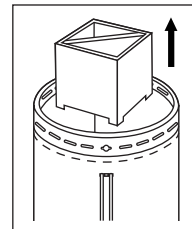


Fig.3

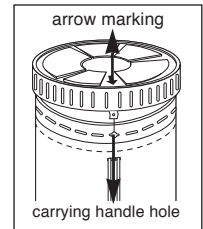


Fig.4

C) INSTALLING FRONT AND REAR GUARDS:

(Fig.5A and Fig.5B)

- Hang the upper portion of the front guard (notched to allow for the igniter door) on the Upper Grill brackets with the downward hooked grill rods. (Fig.5A)
- Snap the lower portion of the front guard into the holes in the Lower Grill brackets with the inward hooked grill rods. (Fig.5B)
- Install the rear guard in the same way.

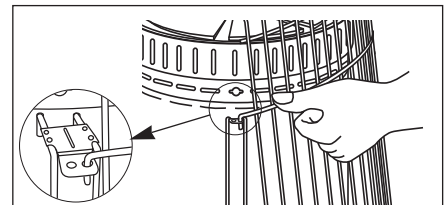


Fig.5A

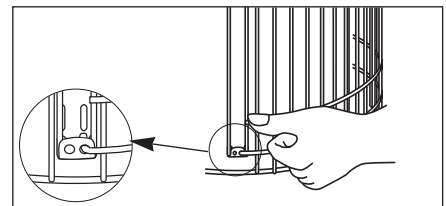


Fig.5B

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D) INSTALLING CARRYING HANDLE: (Fig.6)

Insert the carrying handle into the holes on the cabinet by aligning holes on brackets of top plate.

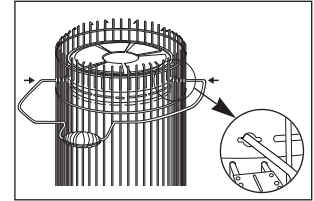


Fig.6

E) INSTALLING TOP GUARD: (Fig.7)

- Align the 2 brackets on the top guard with the 2 mounting brackets on the front and rear guards.
- Secure each bracket with a screw. Make sure that the brackets on the top guard are positioned outside the mounting brackets on the front and rear guards.

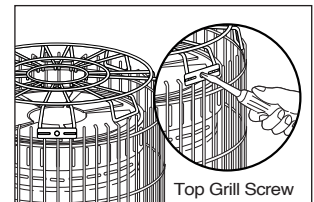


Fig.7

F) INSTALLING BATTERIES: (Fig.8)

- Battery holder is located on the back of the heater.
- Open the battery cover from the battery case.
- Insert two(2) "C" cell batteries according to the plus(+) and minus(-) markings inside of the holder.
- Replace the battery cover to the heater.

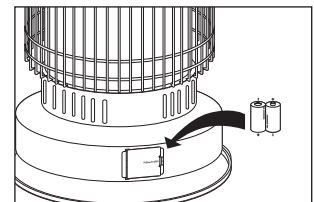


Fig.8

G) Now your heater is completely assembled: (Fig.9)

4 KEROSENE (1-K ONLY)

It is **EXTREMELY IMPORTANT** to the operation of this heater that you use the proper grade of kerosene. The proper grade of kerosene is identified as **1-K Kerosene. DO NOT OPERATE THIS HEATER WITH ANY FUEL OTHER THAN 1-K KEROSENE!** 1-K Kerosene has been refined to virtually eliminate contaminants such as sulfur, which can cause a rotten egg odor during operation of the heater.

Due to IRS regulations 1-K kerosene is now dyed red in many areas.

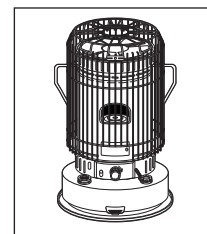


Fig.9

KEROSENE SHOULD ONLY BE STORED IN A BLUE CONTAINER THAT IS CLEARLY MARKED "KEROSENE". NEVER STORE KEROSENE IN A RED CONTAINER. Red containers are associated with gasoline.

NEVER store kerosene in the living space. Kerosene should be stored in a well ventilated place outside the living area.

NEVER use any fuel other than 1-K kerosene.

NEVER use fuel such as gasoline, benzene, alcohol, white gas, camp stove fuel, paint thinners, or other oil compounds in this heater. These are volatile fuels that can cause explosion or uncontrolled flames.

The best way to purchase kerosene is in a pre-packaged, metal or plastic, blue colored container.

The second choice would be to buy it from a dealer who stores it in a 55 gallon drum. The third choice is to buy kerosene from a dealer who stores it in a large underground (or above ground) tank. Kerosene that is contaminated with even a small amount of water will prevent a kerosene heater from functioning properly.

As you move from the first choice in purchasing kerosene (pre-packaged container) to the third choice (large storage tank), the likelihood of water being present from condensation increases.

If you purchase kerosene in bulk, know your dealer.

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It is normal for a kerosene heater to give off a slight odor upon start-up and shut-down. After 5-10 minutes of operation, the heater should have reached its normal operating temperature and any odor should be very slight.

NEVER store kerosene in direct sunlight or near a source of heat.

NEVER use kerosene that has been stored from one season to the next.

Kerosene deteriorates over time. **"OLD KEROSENE" WILL NOT BURN PROPERLY IN THIS HEATER.**

A variety of problems can result from using poor quality kerosene --- smoke, odor, low flame, difficult ignition, difficult shut-down, flame flickers and dies, excessive burning down of the wick, reduced wick life, wick adjuster sticking, excessive deposits on the wick, etc.. If you encounter any of the problems listed above, check your kerosene. If you discover that the kerosene is the problem, get a fresh supply of **1-K KEROSENE** before using your heater again.

5 FUELING YOUR HEATER

**NEVER FILL THE HEATER FUEL TANK IN THE LIVING SPACE:
FILL THE TANK OUTDOORS.**

Before fueling the heater, take the heater, the kerosene, and the manual siphon pump outdoors. To use the manual siphon pump, tighten the cap on the top of the siphon, place the straight tube into the kerosene container, and insert the flexible tube into the opening of the fuel tank. By squeezing the bulb of the siphon pump, fuel will be transferred from the kerosene container into the heater tank (Fig.10). Carefully watch the fuel gauge on the base of the heater so that you will know when the tank is getting full. When you approach the full mark, loosen the cap on top of the siphon pump. This will stop the flow of kerosene. **DO NOT OVERFILL YOUR HEATER.** Allow the siphon pump to drain thoroughly before you remove it from the tank and the kerosene container.

After fueling the fuel tank of the heater by using siphon pump, make sure that you loosen (counter clock wise) the cap on the siphon pump to drain thoroughly the remaining kerosene in the siphon pump. For the reuse of siphon pump, make sure that you tighten (clock wise) the cap on the siphon pump to transfer the kerosene into the fuel tank properly. (Fig.11)

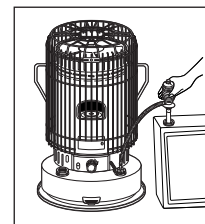


Fig.10

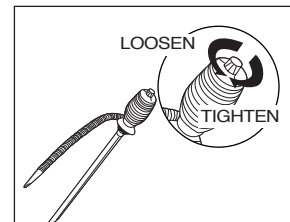


Fig.11

IMPORTANT NOTICE REGARDING FUELING OF THE HEATER : When fueling your heater for the first time and any other time when the tank has been completely empty, as in "**Dry Burning**" (page 8) make sure to **allow the wick to soak a minimum 60 minutes** before you attempt to light the heater. Take note of the time you started to soak the wick or use a kitchen timer or wrist watch with an alarm feature. Failure to properly soak the wick can trap air pockets in the wick causing the heater to burn poorly. Premature ignition can destroy your wick.

IMPORTANT NOTICE REGARDING FIRST IGNITION OF HEATER

The first time you light your heater there may be some odor due to the burning off of oils used in the manufacturing process. To avoid this you may wish to burn the heater outside on a calm and windless day. If it's windy consider a porch or garage or other room where the windows can be open to disperse the odor.

⑥ AUTOMATIC IGNITION SYSTEM

For safety and convenience, this heater features an automatic ignition system.

2 "C" cell batteries, included with the heater, provide the power for the igniter which lights the wick once it has been raised to its maximum height.

To use the automatic ignition system:

- Make sure the batteries have been installed.
- Turn the wick adjuster knob clockwise until the wick has been raised to its maximum height. (Fig.12)
- Push the ignition lever (Fig.13) to bring the glowing igniter into contact with the wick. This will cause ignition to occur.
- As soon as you see that the wick has been lit, release the ignition lever. This will automatically lower the burn chamber back down over the wick.
- Rotate the burner knob from side to side a few times to make sure that the burner is positioned properly on the wick adjuster.
- Then begin following the steps outlined in "Adjusting the wick" (page 7)

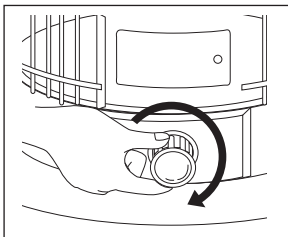


Fig.12

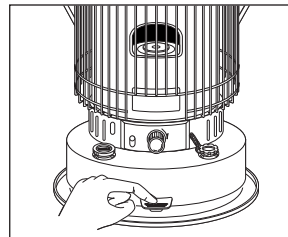


Fig.13

IGNITION VIA MATCH

If you encounter a problem with the ignition mechanism, or if you have dead batteries, it is possible to light the heater with a match. (Fig.14)

The procedure is as follows:

- Turn the wick adjuster knob clockwise until the wick has been raised to its maximum height.
- Lift the burn chamber by using the burner knob.
- Touch a lighted match to the exposed top edge of the wick.
- Once you see that the wick has been lit, lower the burn chamber back down over the wick.
- Rotate the burner knob from side to side a few times to make sure that the burner is positioned properly on the wick adjuster.
- Then begin following the steps outlined in "Adjusting the wick" (page 7)

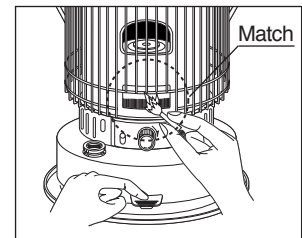


Fig.14

CAUTION : Make sure that you do not leave the match, or any portion of it (match head, etc.) in the burner area. Debris left from the match can cause an uneven alignment of the burner and may result in smoke, incomplete combustion, odor, or fire.

