

Aladdin[®]



TEMP-RITE[™] 95 MODEL S471U PORTABLE KEROSENE HEATER

INSTRUCTION MANUAL



from **Aladdin[®]**

ALH, Inc.

A subsidiary of Aladdin Industries, Inc.

P.O. Box 100255

Nashville, Tenn. 37210

IMPORTANT:

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE USING YOUR HEATER. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

To be used only in accordance with state and/or local regulations, ordinances and codes.



LIMITED 90 DAYS WARRANTY

Aladdin® portable kerosene heaters sold at retail in the United States are warranted to the original retail purchaser for a period of ninety (90) days from the date of purchase to be free from any defects in material or workmanship and to be fit for normal use provided they are used and maintained according to the instructions furnished with each product. Under the terms of the warranty, your product will be repaired or replaced without charge when returned to an authorized service center. For assistance in locating an authorized service center near you, contact the store where you bought the heater or call toll free at 800-251-1065 and ask for "ALH Customer Service".

This warranty covers only the cost of parts and labor required to restore the product to proper operating condition. Transportation and incidental costs associated with warranty repairs are not reimbursable under this warranty.

This warranty does not cover normal wear and tear parts such as, but not limited to, wicks, batteries, glow plugs and siphon pumps.

These products are covered by no other express warranties. Any implied warranties are limited in duration to ninety (90) days from the date of purchase. **THIS WARRANTY EXCLUDES ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING INJURY TO PERSONS OR PROPERTY.** Some states do not allow limitations on how long an implied warranty lasts, or the exclusion of incidental or consequential damages so the above limitations and exclusions may not apply to you.

There is no warranty covering damages for use of any fuels other than kerosene or damages for failure to follow safety instructions for use and maintenance.

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

TEMP-RITETM 95 MODEL S471U HEATER SPECIFICATIONS

SPACE HEATED	: Approx. 18' x 20' area
HEAT OUTPUT	: 10000 BTU per hour
SYSTEM	: Kerosene wick system
TYPE	: Reflection Radiant
TANK CAPACITY	: Approx. 1.1 gallons
WICK	: Fiberglass (Prt No. SW4720)
FUEL	: Best Quality Kerosene
FUEL CONSUMPTION	: 0.59 pints per hour
DURATION	: 14 – 19 hours per 1.1 gallons of kerosene
IGNITION SOURCE	: "D" Batteries, two required
EMERGENCY SHUT-OFF DEVICE	: Wick Drop System
DIMENSIONS	: 17 1/2" x 14 1/2" x 18"
WEIGHT	: 17 1/2 lbs.

SAFETY INSTRUCTIONS

IMPORTANT:

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE OPERATING OR SERVICING THIS HEATER.

WARNING:

- 1 Risk of Explosion;
 - A Never use any fuel other than pure kerosene.
 - B Never refill heater fuel tank when heater is operating or still hot.
 - C Never use heater in areas where flammable vapors or gases may be present.
 - D Never fill heater fuel tank in the living space. Always fill fuel tank outdoors.
 - E Never store kerosene in any container other than an approved safety can or store kerosene in living space.

WARNING:

- 2 Heater is hot while in operation.

Due to high surface temperatures, keep children, clothing, and furniture at least three feet away from the heater while in operation.

WARNING:

- 3 Risk of Asphyxiation:

Use heater only in well-ventilated areas. Allow at least 1 square inch of ventilation per 1000 BTU of heater rating. Keep doors or windows open to adjacent rooms. More ventilation is required at altitudes over 3000 feet.
- 4 Use only uncontaminated, water clear kerosene such as ASTM 1-K or its equivalent. Do not use diesel fuel or fuel oil. NEVER USE GASOLINE, NAPHTHA, PAINT THINNER, ALCOHOL, OR OTHER VOLATILE FUELS.

WARNING:

NEVER USE CONTAINER HAVING RESIDUE FROM THESE OTHER FUELS. SMALL AMOUNTS OF OTHER VOLATILE FUELS SUCH AS GASOLINE DANGEROUSLY INCREASE THE FLAMMABILITY AND RISK OF FIRE.

- 5 Do not move, handle, service, or refuel heater while it is operating or is still hot. Never remove cartridge tank while heater is operating or is still hot. Allow heater to cool before removing cartridge tank.
- 6 Do not smoke when refueling the heater. Do not expose the fuel to any open flame or high temperatures. Take precautions to prevent spilling. Wipe up spills immediately. Close the filler cap tightly to prevent leaking of fumes which can cause unpleasant odor and fire hazard.

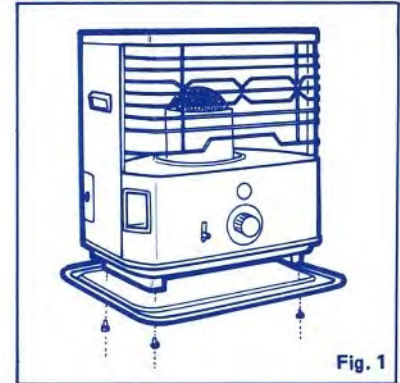
- 7 Never leave the heater unattended while in use. Always extinguish the heater before sleeping or leaving the room.
- 8 Use your heater on a level surface. Do not place the heater in high traffic areas such as doorways or hallways nor in windy or drafty locations. Never use heater in a moving vehicle. Motion can cause fuel spillage and increase risk of fire. Do not transport heater in a vehicle without first emptying fuel tank or fuel spillage will result.
- 9 Do not place anything on top of the heater. Do not attempt to use the heater for cooking or warming foods. Do not hang clothes near or directly over the unit.
- 10 If the heater must be disassembled for any reason (such as wick changing or cleaning heater) test it in a safe open area after reassembling.
- 11 Never attempt to repair or patch a damaged fuel tank. A damaged fuel tank must be replaced.
- 12 If you suspect that the heater is not working properly, extinguish it immediately by pushing the emergency shut-off lever down.

HOW TO UNPACK YOUR HEATER AND INSTALL THE BASEPLATE

- 1 Remove the two batteries, siphon pump, baseplate, and (4) screws from the carton.
- 2 Carefully lift heater from the carton and remove external packing materials.
- 3 Remove adhesive tape from grill. Open grill to gain access to the burner chimney assembly.
- 4 Before operating the heater, the baseplate must be installed by attaching it with the four screws provided. (See Fig. 1)
- 5 Remove the corrugated paper wrapping the burner and the foam pad under the burner.
- 6 Make certain the wick is completely lowered by depressing the "OFF" lever.
- 7 Place the burner back on wick enclosure.

WARNING: NEVER OPERATE THE HEATER WITHOUT THE BASEPLATE INSTALLED !!!

NOTE: You may wish to save the carton for storing your heater during off seasons.



INSTALLING THE BATTERIES

The battery case is located in the back of the heater. Install the two batteries, being sure to position them as indicated on the battery case.

GUIDE TO FUEL SELECTION

Use only PURE, CLEAN, WATER-CLEAR KEROSENE. Do not use diesel fuel, fuel oil, or heating oil. The proper operation of your heater depends on the correct fuel. Purchase your kerosene from a reliable, reputable source and always check that the kerosene meets the requirements of your heater.

- 1 Use of inferior kerosene (deteriorated or impure) will cause severe damage within 1 to 30 days. Depending on the specific impurity or contamination, any of the following symptoms may occur:
 - A Plugged wick – low flame level, insufficient heat – Chimney does not glow properly or heater burns only a few minutes.
 - B STRONG odor.
 - C Tar or carbonations build up on wick which, if extreme, can make wick lowering difficult.
2. Determination of impure or deteriorated kerosene:

DETERIORATION

- A Badly deteriorated kerosene is yellow and has a sour smell. Good quality kerosene is as clear as tap-water.
- B Kerosene stored for extended periods of time becomes deteriorated. Use fresh kerosene only. Kerosene stored in plastic containers may deteriorate in 1 – 2 weeks.
- C Kerosene stored in direct sunlight, high temperatures, or open containers deteriorates rapidly.

IMPURITIES

- A Kerosene with even minute amounts of water or dirt content.
 - B Kerosene mixed with even minute amounts of other oils such as machine oil, vegetable oil, or lubricating oil.
 - C Use of containers which have previously been used to store other oils or fuels or pumps which have been used for other fuels will contaminate kerosene.
- WARNING:**
- NEVER USE CONTAINERS HAVING RESIDUAL AMOUNTS OF VOLATILE FUELS SUCH AS GASOLINE, BECAUSE OF DANGEROUSLY INCREASED FLAMMABILITY AND RISK OF FIRE !!
- D Always rinse the interior of old containers with clean kerosene several times, prior to use.
- 3 What to do if impure or deteriorated kerosene is used:

- A Drain old kerosene from fuel tank and reservoir. Rinse with clean kerosene several times. (If any of the impure kerosene remains the trouble may recur).
- B Fill heater with clean, fresh kerosene.
- C Clean the wick as per instructions under "Care of the Wick".
- D If the wick still does not function properly after cleaning, the wick must be replaced to obtain proper heating. (See instructions under "Replacement of Wick".)

FUELING/REFUELING

Use only a good grade of clean, fresh kerosene in your heater. (See "Guide To Fuel Selection")

- **WARNING:** Do not attempt to use gasoline, alcohol, paint thinner or other volatile fuels.
- **WARNING:** Never attempt to refuel your heater if it is hot or while it is in operation. Always shut off the heater and allow it to cool before refueling.
- **CAUTION:** To avoid spills and to prevent objectionable kerosene odors in the living area, always refuel this heater in an outside area with the aid of a funnel, siphon pump, or other device.

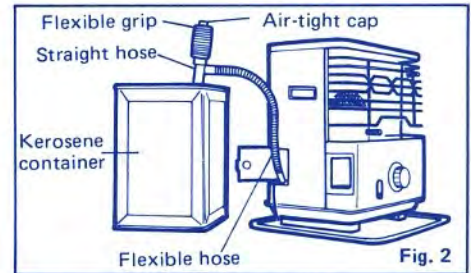
- 1 Open the fuel tank cover and remove the fuel tank cap.
- 2 Locate the fuel gauge on the front of the fuel tank.
- 3 Using the siphon pump, (See Fig. 2) fill the tank with kerosene SLOWLY until the fuel gauge indicates FULL.

IMPORTANT:
STOP ADDING KEROSENE IMMEDIATELY WHEN THE INDICATOR POINTS TO FULL.

CAUTION:

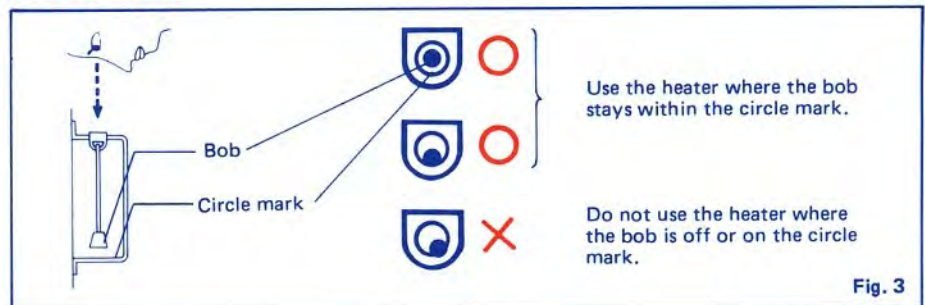
The fuel tank should not be overfilled. Air space is needed to prevent spills while carrying the heater and to allow for fuel expansion, which can occur when the heater is in operation.

- 4 Replace and tighten the tank cap.
- 5 Wipe up any spills and close the fuel tank cover.
- 6 When using the heater for the first time or after replacing the wick, wait 30 minutes before lighting. This is necessary to allow the wick absorb sufficient kerosene to function properly.



CHECKING HORIZONTAL LEVEL

The emergency shut-off device will not work properly unless the heater is on a level surface. Check that the heater is sitting level by sighting through the horizontal level indicator on the side of the heater. The bob should be within the circle mark. See Fig. 3.



OPERATING INSTRUCTIONS

- 1 INSURE THAT HEATER IS SITTING ON A LEVEL SURFACE.

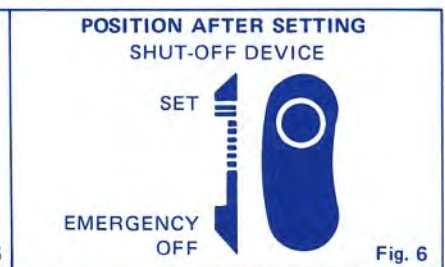
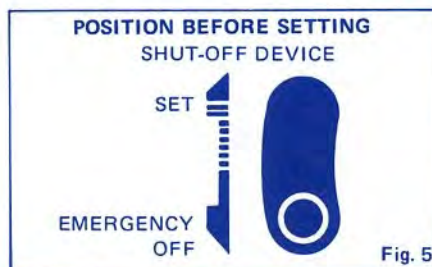
Check the horizontal level by sighting through the level indicator located on the side of the heater. (See Fig. 1) The heater will not function unless the heater is sitting flat on a level surface.

NOTE:

When using this heater for the first time, or after replacing the wick, wait at least 30 minutes after adding fuel before lighting. This wait is necessary to allow the wick to become thoroughly soaked.

- 2 SET THE EMERGENCY SHUT-OFF DEVICE.

Locate the shut-off device on the left side of the front panel. Raise the device to the SET position., (See Fig. 4, 5, 6)



3 RAISE THE WICK.

Turn the wick control knob clockwise until it stops. The indicator should be in the IGNITE position.

4 LIGHT THE WICK WITH AUTO IGNITER.

Push the igniter button (Fig. 7). Once the wick is lit, release the button. If wick fails to ignite, see the troubleshooting guide in the back of this manual.

NOTE:

In the event, that the auto igniter is inoperative, the heater can be lit manually, using a match. To light the wick manually, go to Step 5. Otherwise, go to Step 6.

5 LIGHT THE WICK MANUALLY.

Lift the burner assembly by the grip with one hand, and use the other hand to ignite the wick with a match (Fig. 8). Do not drop match into the heater.

6 INSURE BURNER IS RESTING PROPERLY ON THE OUTER WICK GUIDE.

Grab the burner assembly by the grip and lightly shake it right and left a few times.

7 ADJUST THE FLAME

Wait five to ten minutes after lighting, then adjust the flame by raising or lowering the wick as needed. (See Fig. 9)

If the flame continues to appear above the wire coil, check again to insure that the burner chimney is seated properly.

CAUTION:

The wick control knob is designed to be turned only within the "Normal Range" after it is turned to the "Ignite" position. Therefore, do not forcibly turn the knob beyond the "Normal Range" or damage to the heater may result. Do not operate heater at too low a setting, as in the first diagram in Figure 9. Wick damage can result from burning at too low a setting. If room temperature becomes too hot, either turn off the heater for a while, or increase air ventilation.

8 EXTINGUISH THE HEATER AFTER USE.

Depress the "SHUT-OFF" lever. The wick control knob should automatically return of the "OFF" position.

Do not try to extinguish the heater by turning the wick control knob counterclockwise. Forcing the knob could damage the heater.

Do not try to extinguish the heater by jarring it.

Always make sure the heater is extinguished before leaving it unattended or before sleeping.

"If the heater does not extinguish after depressing the "SHUT-OFF" lever, the wick may be lowered by turning the wick control knob counterclockwise while simultaneously depressing the "SHUT-OFF" lever.

NOTE: These two operations must be done simultaneously to avoid damage to the heater.

IMPORTANT: If the above method must be used to extinguish the heater, return it to the nearest authorized service center for servicing before attempting to use the heater.

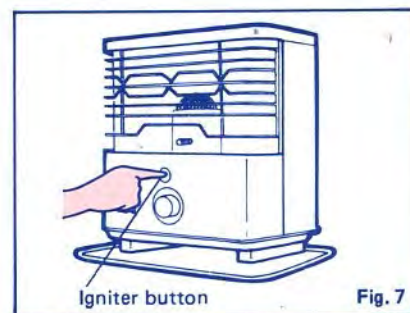


Fig. 7



Fig. 8

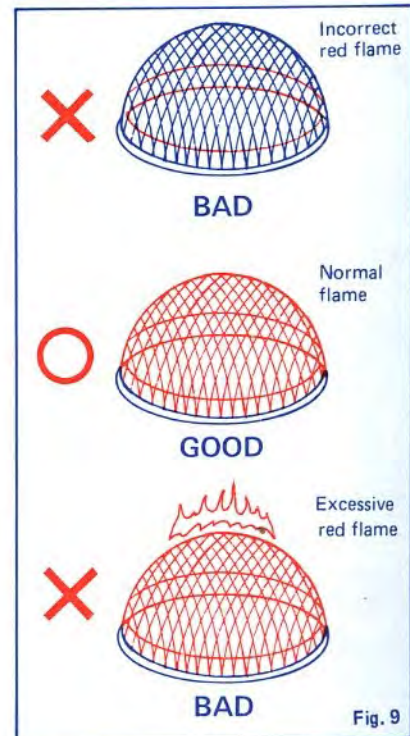
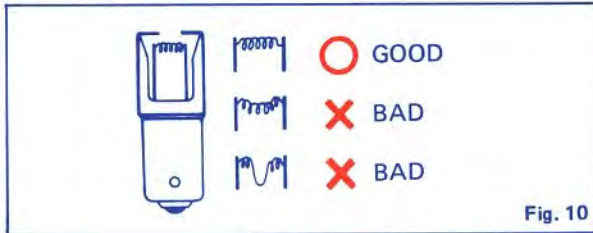


Fig. 9

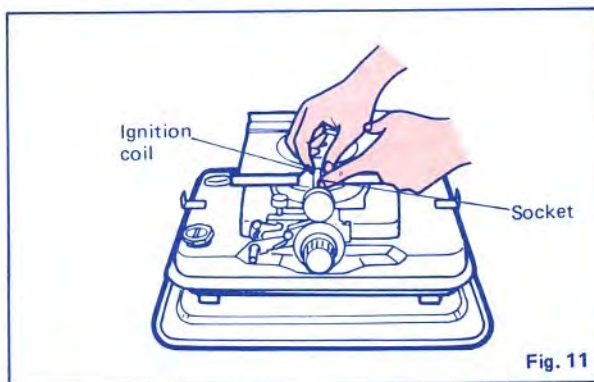
CARE OF THE IGNITION GLOW PLUG

- 1 If the ignition glow plug does not operate correctly, make sure that the batteries are not dead. If the batteries are in good condition, check to see if glow plug filament is bent or broken. (See Fig. 10)
- 2 If ignition glow plug filament is slightly bent, it may be possible to repair it with a match stick or toothpick.
- 3 If the filament is badly deformed or broken, the ignition glow plug must be replaced.



IGNITION GLOW PLUG REPLACEMENT

- 1 Remove batteries and remove the cabinet by following steps 1 – 3 of the wick replacement procedure.
- 2 While holding the glow plug socket with one hand, use the other hand to depress the glow plug slightly and turn it until the glow plug frees itself from the socket. Remove the glow plug. (See Fig. 11)
- 3 Install new glow plug, reversing the procedure in Step 2.
- 4 Replace batteries. Depress the igniter button to insure that the glow plug works. If the glow plug does not work, make sure the batteries are not dead.
- 5 Replace the heater cabinet by reversing Steps 1–3 of the wick replacement procedure.



REPLACEMENT OF WIRE NET

WARNING:

Allow burner chimney to cool before attempting to handle it with bare hands.

- 1 Open the wire grill.
- 2 Remove burner chimney.
- 3 Remove old wire net by turning it counterclockwise until it stops, and then lift it straight off.
- 4 Install new wire net (See Fig. 12)



CARE OF THE WICK

The wick used in this heater is made of heat resistant fiberglass, which does not burn, and should last for a long time with proper care.

Taking care of the wick will insure your getting the maximum pleasure and efficiency from your heater, and will help you to avoid the expense of replacing the wick.

ONCE A MONTH, BURN THE WICK OFF TO REMOVE ANY ACCUMULATION OF TAR AND CARBON ON THE TOP OF THE WICK.

- 1 Approximately once a month operate the heater without refueling it.
- 2 As the wire coil starts to become dark (caused by the wick going out), turn the wick control knob clockwise until it stops, to raise the wick as high as possible.
- 3 Allow the heater to continue burning until it goes out completely and any flame on the wick has extinguished itself.
- 4 After the heater has cooled sufficiently, open the grill, remove the burner chimney, raise the wick to its highest setting, and carefully remove loosened tar and carbon from the wick with a brush or cloth.
- 5 Carefully remove any accumulated carbon deposits from the wick guide and outer wick guide assembly using a screwdriver or similar tool. Take care not to damage the wick or burner chimney assembly.
- 6 Depress the "OFF" lever to lower the wick, and replace the burner chimney.
- 7 After filling the fuel tank, wait 30 minutes before lighting to allow the wick to absorb sufficient kerosene.

- 12 Raise the wick several times and lower it using the shut - off lever. If the wick does not operate correctly, repeat Steps 5 through 11.
- 13 Re-install the insulation plates. First install the front plate. It probably will be necessary to pull slightly on the ignition device to allow the front plate to slip into place. Next, install rear plate. The two catches should engage the rectangular holes on either side of front plate (Fig. 23).
- 14 The small notch on the edge of the orange indicator dial (located directly behind the wick control knob) should point straight up. If necessary adjust the dial to that setting. Failure to do so will not permit the proper adjustment and operation of the wick within the Normal Range (Fig. 24).
- 15 Replace the cabinet and front panel by reversing steps 1 – 3.
- 16 After making sure the wick is lowered by depressing the “SHUT-OFF” - lever, replace the burner chimney.
- 17 Wait thirty (30) minutes before lighting the heater to allow the wick to absorb sufficient kerosene.

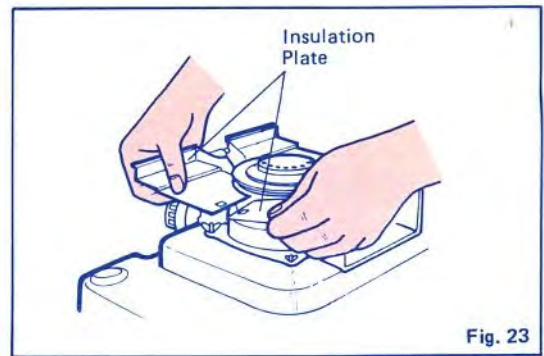


Fig. 23

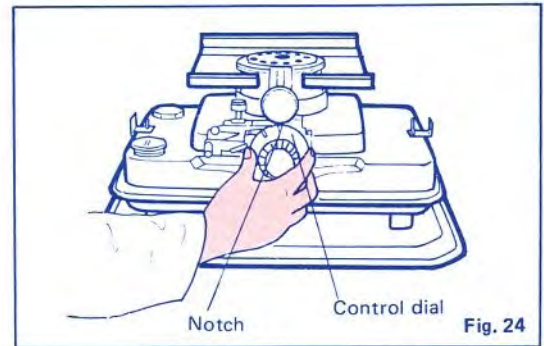


Fig. 24

STORAGE OF HEATER

USE THE FOLLOWING PROCEDURES WHENEVER YOU ARE GOING TO STORE THE HEATER FOR AN EXTENDED TIME, SUCH AS DURING OUT OF SEASON.

- 1 Follow wick cleaning procedure to clean wick and remove as much fuel as possible from the fuel tank.
- 2 Remove cabinet from heater by following steps 1 – 3 of the wick replacement procedure and clean the heater thoroughly with a soft cloth.
- 3 After cleaning, reassemble heater and remove batteries from battery case.
- 4 Remove the baseplate by reversing the procedure on page 3. Tape the screws to the baseplate so as not lose them.
- 5 Wrap heater in polyethylene bag and store in the original carton. Heater should be stored with wick lowered and the shut - off lever in the off position.
- 6 Save this Instruction Manual for future reference.

TROUBLESHOOTING GUIDE

(○ : COLUMNS APPLICABLE

◎ : COLUMNS HAVE AN IMPORTANT EFFECT)

Problem	Possible cause										Solution
	Heater lights but goes out after short time.	Smoke and soot are produced with long flame appearing above wire net.	Wick can't be lowered. Heater cannot be extinguished.	Strong odor.	Wire net does not have uniform red color.	Wick is not lowered by emergency shut-off device.	Wire net does not become red at all.	Difficult to raise and lower wick.	Heater slows to warm up.	Can't ignite or hard to ignite heater.	
Batteries are dead.										◎	Replace both batteries with new ones.
Damaged ignition glow plug.										◎	Replace the ignition glow plug.
Lack or shortage of kerosene in oil reservoir.	◎			○	○			○	○		Refuel heater.
Water in oil reservoir.	◎			○	○	◎	◎	◎	○	○	Completely empty oil reservoir. Replace wick.
Bad kerosene.	◎	○		◎		◎	◎	◎	○	◎	Change the bad kerosene in oil reservoir with pure kerosene and replace wick.
Exposure of heater to strong draft/wind current.		○		○	◎		○				Move heater to location where there is not draft/wind current.
Use of heater in a tightly closed room for extended period without ventilation.				◎							Ventilate the area adequately.
Wick needs cleaning.				○		◎	○	○	◎	○	Follow wick cleaning procedure in instruction manual.
Wick is worn such that it can't be raised high enough.				○	○			○		○	Reinstall wick at a higher position or replace wick with a new one.
Wick raised too high.		◎	○	○							Adjust wick down. If necessary reinstall wick at a lower position.
The upper edge of wick is uneven.				○	◎		○				Refit wick correctly to the wick holder per wick replacement procedure in manual.
The upper edge of wick is slanted.		○	○		◎	○					Refit wick correctly to the wick holder per wick replacement procedure in manual.
Tip of wick is stiff and black with carbon build up.						◎	◎	◎	◎	◎	Follow wick cleaning procedure in instruction manual.
Wick has not absorbed enough kerosene.	○			○	○				○	◎	Wait in 30 minutes after refueling before lighting heater.
Outer wick guide is pinching wick on one side.			○	○	◎	◎		◎			Reinstall outer wick guide so that space between outer wick guide and wick guide cylinder is uniform at all points.
Wick raising and lowering mechanism is defective.			○			◎		○			Repair/replace mechanism.
Bottom of burner chimney is not correctly seated.		◎		◎	○						Move burner chimney grip right and left to make sure burner chimney is correctly seated. Check for and remove resin build up on outer wick guide below burner chimney.
Wire coil is deformed.		◎		○				○			Reform by hand.

PARTS LIST / TEMP-RITE 95

